To learn to classify is in itself an education

*Alex. Bain*

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**Decimal Classification**

and

**Relativ Index**

for libraries, clippings, notes, etc.

Edition 10, revised and enlarged

By

Melvil Dewey MA LL D

Forest Press
Lake Placid Club N Y
1919
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Full information on request from Simplified Spelling Board, 1 Madison av. New York
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EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to no one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to no division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the full tables of sub-sections; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.
INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.—The plan of the following Classification and Index was developd early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamphlets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increas without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became anti-quated soon after being finisht. The methods used involv'd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaid proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increas usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamphlets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides
to the proper page of a bound book. This difficult problem has been solved by using no reference marks except the simplest symbols known to the human mind—the Arabic numerals—and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamphlets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users ask for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.—The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200-300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

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<td>234</td>
<td>191</td>
<td>466</td>
<td>1,000</td>
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</table>

What is the system?—A Relativ Index1 with a subject classification, so numbered or lettered that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

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1The author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system—the relat index, on which all else hinges—had ever before been used as here to index by a single reference the most diverse material. The relat location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.
Any subject classification with a relativ index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.— The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr. Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemed good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.— The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of
DECIMAL CLASSIFICATION

others, so that he may utilize their labors and investigations and share with them the economies of cooperation.

Relativ Subject Index.—The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years’ experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for “railroad” he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves the difference would be clearly seen.
RELATIV-SUBJECT INDEX

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to clas all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to clas books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to clas a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be
done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.—Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.—The essential complement of the Subject Index is the tables of classification, so m apt out as to show in four ways—viz., by size of type, face of type, indention, and number of figures prefixt—the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numbered by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to none of these classes, are markt nought, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considered independently, and each one is separated again into nine special divisions of the main subject, numbered from 1 to 9, as were the classes, general works belonging to no division having nought in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numbered in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamphlet belonging to the library. All geometries are thus numbered 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.
Where o occurs in a class number, it has its normal zero value. Thus a book numbered 510 is class 5, division 1, but no section; i.e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e.g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.—The selection and arrangement of the many thousand heads of the classification cannot be explained in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.—Wherever practicable, heads have been so arranged that each subject is preceded and followed by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e.g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followed in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.—Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followed by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical sub-divisions are needed for travels, guide books, and various other uses, the rule is adopted always to use o before the time or period figure. The o shows that there is no farther geografical division in that number, and that a period division is there introduced. This allows the use of
the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

**New subjects.**—When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

**Catch-titles.**—In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

**Form distinctions.**—The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on
divisions or even sections; e.g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followed by 05; e.g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e.g. a zoological magazine is 590.5, not 590.05.

Minute classification.—On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the evidently great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestioned, if the user knows just what it is. With this plan it is not only practicable, but comparatively easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be greatly helped by the most minute classing. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if
there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoology, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.—Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in form distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are group together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an aid, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the sections of 980, History of South America. Geology of Brazil then
must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alphabetical lists of (1) subjects, with class number of each, which may be subdivided geographically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighed any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside case of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliography of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliography of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.—We have not sacrificed utility in order to force sub-
jects on the decimal procrustean bed. **Decimals have been used as servants, not as masters.** When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemed the most useful way, all things considered. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemed more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and prophetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indentation and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful
to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

**Relativ location.**—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelved. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamphlet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandoned, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject. In finding books, the printed numbers on the backs are followed, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numbered, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as received, are numbered and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followed by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recataloged. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raised by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

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1 For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.
book which this year stands, e.g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.—Most libraries have abandoned close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are grouped in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelf octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefix to the book number; e.g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solved, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the class catalog on cards.

Name catalog.—In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single column as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the column for the class number wanted.

Shelf list.—In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in columns accession number, author’s name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.—In the card catalog of subjects the classification is mapped out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alphabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for conven-
ince the name as well as the number of the subject; e.g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

**Dictionary catalog.**—While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandon as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliography. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemed the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

**ADVANTAGES**

**Shelves.**—The system on the shelves is the simplest form of relative location. Many libraries have adopted it for shelf arrangement, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mention under Relativ location, p. 19.

**Shelf list.**—By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be
present interest; e.g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gained with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.—From the accession book, tables of the number of books added on each subject are readily made from the shelf mark columns. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelved but also what it is about.

Pamflets.—These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelved in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurred, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncataloged pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferred, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.—The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.—Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its
peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,—for the check box is necessary as a record of loans,—is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.—In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in case of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.—When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowed, without interfering in any appreciable degree with the circulation of the books. The methods employed for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently marked to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.—The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamphlets alone, bringing order out of chaos, and solving this vexed and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.—Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusive use of Arabic numerals throughout the shelves,
indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

**Endowment of special departments.**—Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamphlet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assigned to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approached would endow some topic, even if a small one, and this relatively location, with its definite number expressing just the ground covered, may be of great service in working up this plan of special endowments.

**Summary.**—The claims of the system may be summed up as follows: Compared with other systems it is less expensive; more easily understood, remembered, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamphlets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thoroughly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to class catalogs, and is the first satisfactory union of the advantages of the class and dictionary system.
USE OF TABLES AND INDEX

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird’s-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers should be looked up in the full tables of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alphabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternative names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion always divide at the decimal point, and name it; e. g. read 942.27 “nine forty-two, point twenty-seven,” never “ninety-four two twenty-seven.” If “point” were omitted, the ear might readily interpret 270.2 (two seventy, two) as 272, while “two seventy, point two” can never be misunderstood.

USE OF TABLES AND INDEX

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if
there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. As a check against error, use the index freely, even tho familiar with the scheme.

Subject of a book.—To find out the subject of a book consult:—

1. The title, since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examine also

2. Table of contents, which is the best guide to the true subject. If there is no table of contents read

3. Headings of chapters, or marginal topics.

4. Preface.—Unless already certain, glance thru this to catch the author’s point of view, and verify impressions gained from title and contents.

5. Reference books.—If preceding means fail, consult reliable bibliographies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. Subject-matter.—If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an “under consideration” shelf till you can examine more thuroly or consult

7. Specialists.—Experts, competent to define their true subject and relation, are usually glad to examine enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e.g. Pollock’s Land laws might naturally be clast from the tables alone as “333, Land; ownership; rights; rent,” which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist’s point of view; and it should be clast “347.2, Realty,” which might have been mist but for the Index.

Assigning class numbers.—1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons “attract” it to a place still more useful in your library. See p. 273.

2. The content or the real subject of which a book treats, and not the form or the accidental wording of the title, determines its place.
ASSIGNING CLASS NUMBERS

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the form which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e.g. it is of little consequence whether "one would be apt to look" under 595.1 for Darwin's Formation of vegetable mould, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e.g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e.g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28.

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,
with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discuss, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.—Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

(28)
second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be altered. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelves or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administra-tion) 747 (the number for N. Y. state).

Language and literature.—In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8
in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently marked 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifer to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,—has led most libraries to arrange books under each class number alphabetically by authors, or in local history by towns, or in biography by biographees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.—A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.1

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1 For full explanations and table of Biscoe numbers see p. 934-935
Accesion order.—A third arrangement,—simpler but otherwise less desirable—is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to con-fuse with subsection 513.1, but 513A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. 513 or 513–1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.—Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple
matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compelled to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnt if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimed at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author’s, not the user’s. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the cooperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the “relativ index system,” oftener called the “Dewey system.” For its essentials see p. 87–9.
I. LETTER NOTATIONS FOR CHANGES.

To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e.g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. Whenever you use our exact numbers, use also our meanings for them as index. When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e.g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and leave that number blank in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases. Fiction and juvenils.—In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that no class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenile fiction, and e.g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenile history of Scotland, and J943, juvenile history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,
to have the J books in alphabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenile character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenile books go with adult books of the same class, unless a special J library is made, containing all juveniles.

Biography.—A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biographies in one alphabet of names of persons written about, marking all the books simply B for class number, and indicating the subject or biography by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferred in popular libraries of large circulation.

The third plan is to distribute biography as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biography, putting B in place of the biography figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biography, as preferred, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.—By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.—This treatment of fiction, juveniles, and biography illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be grouped under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so marked in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.—The same principle can be applied also in combining each language with its literature, if it is
preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 367–374.

Reference library.—To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phoenix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an “inferno” for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class “General works” was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as Science any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinishd number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

2. Contractions for specialists.—The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no
practical gain to justify the labor if a great quantity of slips must be numbered. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colored card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. Use of alphabet or chronology for final subdivisions.—While our plan is decimal as distinguished from the "dictionary system," we never hesitate to use the alphabet wherever that is more useful. Indeed, the main feature of our plan is its alphabetical index. Frequently in minute divisions it is economy to arrange alphabetically or by dates without using a translation system. This is specially true in index rerum and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e.g. towns in a given state, individual birds or insects coming under one number, names of men written about in biography, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e.g. in chemistry, to put all the metals in one alphabet under 546.3, instead of using the numbers 546.3—99. If this change is wished, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alphabet under 546. Such use of the alphabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alphabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alphabetically by elements," e.g.:—

<table>
<thead>
<tr>
<th>546.3</th>
<th>Metals.</th>
<th>Arrange metals alphabetically.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alkali group.</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Potassium.</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Sodium.</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>Lithium.</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Rubidium.</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Caesium.</td>
<td></td>
</tr>
</tbody>
</table>

Then find each of these heads in the index and cancel all figures after 546.3, e.g.:—

Potassium, inorganic chemistry, 546.32
Rubidium, " " 546.35

This plan has special value in this place, as new elements are discovered from time to time, and can readily be inserted in alphabetic place. Still many chemists think it valuable to have similar metals grouped together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number
for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 144.

4. Broken order.—Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biography are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gained, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. Pro and con division of topics.—It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-
ing library to charge. In reference libraries, on cards, etc., most will prefer to write out pro and con, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — are used, the usual order is followed: +, —.

These first notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is grouped into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developed many new applications. Nearly every administrative department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguine hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently published, is reported “not in stock,” when such an arrangement by subjects would have revealed its place at once. Specialists often find on the shelves books that they would never have ordered, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This “L. B. Scrap Book” is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetical subheads. Scraps thus mounted are shelved either in manila pamphlet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock “L200” is best for private indexes, etc. It costs only half as much as the “Br. 400,” which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetical subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog.
the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamphlets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 43 Federal street, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10 x 15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 17½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless
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other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involv'd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these-friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receiv'd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The Nuovo sistema di catalogo bibliografico generale of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential
features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followed. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

Melvil Dewey

New York State Library
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

Edition 7

The complete revision in progress involves many new interrelations. As extensive advance testing of new schemes is impracticable, it is expected that practical application will develop unnoticed faults. Classifiers are therefore requested to use the new tables critically and report defects of any kind, with proposed remedies and any additional needed subdivisions. All such criticisms are a decided help and regarded as a favor.

Minuteness Minute as are many subdivisions, there are none that some have not asked for and almost none that others have not declared needless. Since the degree to which any scheme shall be applied is optional with each classifier and close analysis is useful to everyone in defining content or in clarifying differences between related subjects, even the most elaborate schemes are printed in full if no essential objection has been brought against them by the best qualified critics. Note type is used for topics clearly useful only to specialists or as showing scope. Many others' probably belonging in the same category are in the regular type of their grade, if doubtful.

Basis of revision After study of all other available systems the Decimal classification was adopted in 1895 by the newly organized Institut International de Bibliographie as best adapted to its projected universal subject bibliography to cover ultimately all subjects in all languages throughout all periods of the world's history.
Determining factors were:

1. The Decimal classification was a classification of topics independent of the language or exact synonym by which they were expressed.
2. Its notation was in itself the only international language, since it consisted solely of Arabic numerals.
3. Its decimal principle allowed indefinite intercalation.

Overdetailed as the classification already seemed to many librarians, lack of subdivision was the Institute's first difficulty and its promoters urged the author at once to enlarge the tables. State library duties at that time made concentration on the classification impossible, but cooperation and criticism were promised if the Institute would draft the required extensions. When its remarkably rapid work precluded even adequate criticism, it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable.

Obviously bibliographic and general library use are so different that in some cases what is clearly best for the real needs of the scholarly specialist, where any symbols can be used on index cards, would be quite impracticable for a public library, which must have symbols that can be gilded on the back of books, readily used by the unskilled public in writing call slips, and rapidly handled by low-priced runners and young clerks. Where differences occur between the Institute tables and the 7th edition of the Decimal classification, many have been agreed to by the Institute and will appear as here given in its future editions, others are the result of serious objections made to the Institute classification, but with the expectation that agreement will soon be reached, as it is the purpose of both Institute and author to harmonize the few divergencies as rapidly as possible.

**Changed numbers** Changes are fewer than anticipated and will be given in detail in the 'List of corrections, changes and minor additions' soon to be mailed to all recorded owners of earlier editions. In many cases the changes are only a broadening of terms to meet later developments. Numbers where any change thus far occurs are:

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Separates There is growing use by specialists who wish very detailed tables of their subjects, but only so much else as will show the perspective of these subjects in the general scheme and provide for broad classification of other material on the same plan. As fast as demand will cover expenses, any subject that has been elaborated will be published separately with general explanation, directions for use, 3 figure tables for other subjects, and full index: e.g. normal school libraries specializing on education will want the elaborate new 370 scheme but may not need to carry classification of other subjects beyond 3 figures; electric engineers may have no use for 370, but will need all details of 621.3 with only 3 figures for other subjects.

Bibliographic modifications The Institut International de Bibliographie has devised and uses ingenious symbols, expressing almost any interrelations and greatly increasing numbering capacity. But unfortunately these new symbols are thought by many to be too complex for ordinary shelf or catalog use, tho 10 years use by the Institute with unskilled clerks has proved that this objection is more a fear than the result of fair trial. They are given here broadly for personal notes of specialists and other close classifiers, to whom their vast practical advantages will strongly appeal, and as a key to the notation of the Institute's bibliographic cards. Elaborate details and explanations are in the Classification décimale, Brussels, 1905. Obviously these symbols allow subdivision of the same number in many different ways without confusion.

1 Accretion sign + This is the simplest of all the symbols and indicates exactly what it suggests, that the article so numbered treats of all the subject numbers connected by +; e.g. 637+614.32 a work concerning dairies and inspection of dairy products.

2 Coupling sign - This is used for coupling to a subject a series of subdivisions belonging to another number, but only where notes in the tables allow it, as confusion would otherwise result. As this is our sign for "to and including," use of it in the Institute sense requires substitution of "to" for it in our sense.

3 Relation sign : This is the most useful symbol of all, as it involves no change of number except omission of final o by those preferring the shortest form. It indicates merely that the subjects so connected are considered in relation to each other, thus affording means of expressing almost limitless interrelations: e.g. ethics in relation to fine arts is 17:7 (or in full 170:700). Vice versa, art in its ethical aspect is 7:17; the order of the numbers before and after the colon being dependent on emphasis or on subject with which they are to be arranged.

4 Form sign (o) Form or generalities are express by a parenthetic number beginning with o. This is farther subdivided as follows:
(o:) Form symbol: e.g. 335 (o:843) means Socialism treated in the form of a French novel.
(oo) Subdivisions peculiar to a subject; e. g. for history it means sources. It is farther subdivided and in some cases modified by a hyphen figure; e. g. 9(44)(001-3) means Catalog of official sources of French history, (001) meaning official sources and -3 meaning catalogs, indexes, lists, etc. (01)-(09) are the same as our regular form numbers 01-09. Obviously we can not replace our long established simple form numbers by something so much more complex that it is impracticable for shelf use.

5 Universality sign $\infty$ The mathematical sign of infinity is used with any combination of symbols to mean 'Without limitation as to the idea expressed by that symbol.' With place symbol (see 6 below) it means 'including all places': e. g. 9 (oo) History of all countries; 9($\infty$) " $\infty$" Universal history covering all periods (see 8 below).

6 Place sign (3)-(9) These replace our regular country subdivisions found in 930-999, but do not conflict, as the Institute merely leaves DC 930-999 vacant, and writes History of France 9 (44) insted of 944. Other auxiliary place numbers indicating general region, direction, geologic place, time, etc. are also provided in place curvs.

7 Language sign $\equiv$ This sign preceding language numbers as found in 400 Philology, indicates subdivision by language; e. g. 398.4$\equiv$9162 means Fairy tales in Irish, 91.62 being the philology number for Irish language in 400.

8 Time sign " " Numbers denoting time subdivision are written in quotation marks. The Institute scheme gives an elaborate system of time subdivisions.

9 General points of view sign oo Each of the following numbers for point of view has also a series of subdivisions:

 oo1 Speculativ: idea, purpose, plan, etc.
 oo2 Realization: execution, construction, etc.
 oo3 Economic: industrial production, cost and sale prices, etc.
 oo4 Servis and use: workings, administration
 oo5 Equipment and apparatus
 oo6 Bildings and establishments: details of organization and servis
 oo7 Special personnel

10 A to Z alfabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in the class number may be varied by users to produce any special arrangement desired, but unless distinct notice of this is given, the sequence is arbitrary in the following order

\[(o) \quad " \quad = \quad : \quad - \quad A-Z\]

e. g. 91(44)(03) = 2 Dictionary of French geography in English. (44)
Index The relativ index is greatly enlarged both by heds from new tables and by many new references to tables not yet revised, and is consolidated into a single alfabet. It aims as heretofore to include every synonym likely to be sought of subjects exprest or implied in the tables. Insted however of repeating all entries under each synonym as before, it repeats only when there are less than 3 entries; but to save space when more than 3, it gives them as a rule only once and refers from other spellings or synonyms to the one chosen; e. g. Scepticism see Skepticism, Refuse see Wastes.

Acknowledgments Our greatest indettedness is to the Institut International de Bibliographie for its great volume of valuable work, covering almost the whole range of subjects, which forms the basis of our revision, and also for its advice and criticism during the progress of our work. Among the many friends to whose critical examination and suggestions the makers and users of the Decimal classification owe many improvements, preeminent are: R P Bigelow, librarian of Massachusetts Institute of Technology; Dr C V R Bumstead of Newark; Prof. E P Cubberly (Stanford); Prof. Charles DeCarmo (Cornell); Dr John B Roxby of Philadelphia; Prof. E L Thorndike (Columbia); the West Point military academy librarian, Dr Edward S Holden, and faculty; Prof. A E Kennelly of Harvard; and Captain John Clark Wilson, U S navy.

We are indetted for much valuable constructiv work as well as criticism to C W Andrews of the Crerar library and his staff; Dr Herbert Havi-land Field of the Concilium Bibliographicum; Sidney L Wood and Godfrey Dewey in engineering; New York State library, specially to Walter S Bisooe, whose criticism is most valued of all; Professors L P Brecken-ridge (Sheffield scientific school) and G A Goodenough (University of Illinois); and to A L Voge now of Mechanics Mercantile library, San Francisco, for his untiring and resourceful aid on the technical subjects in this edition and on others not yet completed. The Library of Congress classifications and subject hedings freely placed at our disposal by Dr Herbert Putnam have been most useful in suggesting many additions to the index.

Except a year in charge of classification in the Osterhout library, Miss May Seymour has been with me for 24 years, since she entered the first Library school class in 1887. At the New York state library, classification was her department till she was promoted to director's assistant. For the past 22 years every item of work on the new editions has past thru her hands. Her responsibilities as managing editor of the A L A catalog of necessity precluded work on the Classification for several years. For this edition she has done all the editorial and much constructiv work, has secured expert cooperation, cald attention to faults or omissions and sought the best available compromises where doctors disagreed. This supervision will continue, so that future editions will
benefit by the cumulativ experience of the same editor. To this vast labor she devotes rare scholarly industry and a loyalty for which no words of thanks can be adequate. She shares my faith in the immense usefulness of the completed work, is doing nearly all the hardest work and deserves the gratitude of all who profit by this invaluable laborsavor.

MELVIL DEWEY

Lake Placid Club N Y
10 April 1911

EDITION 8

Edition 7 was exhausted a year and a half sooner than expected, thus forcing an unexpectedly early issue of edition 8. This contains expansions of 320, 331, 369, 623.8, 624, 625, 629, 630, 971, 979.4, many new notes and index entries.

Many other additions already well advanced will be included in edition 9, on which activ work will be steadily continued.

MELVIL DEWEY

Lake Placid Club
10 April 1913

EDITION 9

Like edition 7, edition 8 was exhausted so much earlier than expected that edition 9 has become necessary too soon to complete the tables planned for it. It differs from the last chiefly in many new notes, index entries and correction of errors.

MELVIL DEWEY

1 October 1915

EDITION 10

The chief new features of this edition are the elaborate tho stil incomplete agriculture classification, and the recast of 940 with the Great war on 940.3 and .4. The gain from having bases of 4 insted of 6 figures for this detaild classification seemd clearly to justify the cost of renumbering material already in 940. For the scheme as it stands we are mainly indetted to the A L A advisory DC committee. It will be farther enlarged to fit the growing body of war literature, but it is stil too early to make satisfactory subdivisions for campaigns and battles (940.42-.45). There are also many smaller additions, besides modifications, notes, and over 3000 new Index entries.

Extended tables of 651 Office economy, and 658 Business methods, in pamphlet ‘proof under revision’ will be sent on request for test and criticism that will give us confidence enuf in their working value to incorporate them in the next edition.

MELVIL DEWEY

Lake Placid Club N Y
11 August 1919

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INDEX TO INTRODUCTION

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C D means Classification décimale, the enlarged French translation of D C.
I I B means Institut International de Bibliographie.

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FIRST SUMMARY

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6 Useful arts
7 Fine arts
8 Literature
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- North America
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- Oceanica
- Polar regions

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- Invertebrates
- Protozoa
- Radiates
- Mollusks
- Articulates
- Vertebrates
- Fishes
- Batrachia
- Reptiles
- Birds
- Mammals

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- Ethnology
- Anthropology
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  - Microscopy
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609 History of useful arts

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616 Pathology, Diseases, Treatment
617 Surgery, Dentistry
618 Diseases of women and children
619 Comparative medicine, Veterinary

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621 Mechanical
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627 River and harbor
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629 Other branches

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631 Farm, Farmstead, Soil
632 Pests, Hindrances, Blights, Insects
633 Grains, Grasses, Fibers, Tea, etc.
634 Fruits, Orchards, Vineyards
635 Kitchen garden
636 Domestic animals
637 Dairy, milk, butter, cheese
638 Bees, Silkworms
639 Fishing, Trapping

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641 Food, Cookery
642 Serving, Entertaining
643 Shelter, house, home
644 Heat, light, ventilation
645 Furnishing, Decoration
646 Clothing, Toilet
647 Household administration
648 Sanitary precautions
649 Nursery, Sickroom

Communication, Commerce
650 Office equipment and methods
651 Writing, materials, typewriters
652 Abbreviations, Shorthand
653 Telegraph, Cables, Signals
654 Printing, Publishing, Copyright
655 Transportation, Railroading, etc.
656 Bookkeeping, Accounts
657 Business manuals, Methods, Tables
658 Advertising and other topics

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661 Pyrotechnics, Explosives
662 Beverages, Wines, Liquors, Ales, etc.
663 Foods, Sugar, Starch, etc.
664 Lights, Gas, Oil, Candles, etc.
665 Bleaching, Dyeing, Inks, Paints
666 Other organic chemical industries

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670 Articles made of metals
671 Of iron and steel, stoves, cutlery
672 Of brass and bronze, bells, etc.
673 Lumber and articles made of wood
674 Lether, " leather
675 Paper, " paper
676 Cotton, wool, silk, linen, etc.
677 Rubber and articles made of rubber
678 Celluloid and other

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681 Blacksmithing, Horseshoeing
682 Lock and gun making
683 Carriage and cabinet making
684 Saddlery and shoemaking, Trunks
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693 Carpentry, Stairbuilding, etc.
694 Roofing, Slating and tiling
695 Plumbing, Gas and steam fitting
696 Heating and ventilation
697 Painting, Glazing, Paperhanging
698 Carblding
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| 976     | South Central or Gulf states |
| 977     | Northeast Central or Lake |
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| 989     | Paraguay Uruguay |
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| 992     | Sunda |
| 993     | Australasia |
| 994     | Australia |
| 995     | New Guinea |
| 996     | Polynesia |
| 997     | Isolated islands |
| 998     | Arctic regions |
| 999     | Antarctic regions |
Complete tables

including all the

SUBSECTIONS
General works

010 Bibliography
.1 Theory, utility, etc. .2 Compendes .3 Dictionaries .4 Essays .5 Periodicals .6 Societies .7 Education, training, see also o20.7; .8 Polygraphy .9 History

011 General bibliografies Universal catalogs
011 is by Authors. If by Subjects they go in 016
Properly a catalog is of a special collection and so tells where the works may be found. A bibliograhy disregards actual location and tells what there is, but its contents can seldom be found in any one library
012-016 include both bibliografies and catalogs. 017-019 is limited to catalogs of general collections

012 Of individuals
Alphabeted by subjects of bibliografies (bibliografates), not by compilers; e.g. Chaucer, Dante, Ruskin, etc.
A bibliograhy of an Individual may include either works about or by the individual, or both
Authors on whom special collections are being made (e.g. in 800) attract their bibliografies to same number, leaving only a reference here. Other individual bibliografies class here, unless clearly limited to some subject; e.g. artists or musicians, bibliograhy of Wagner 016.782

013 Of special classes of authors
Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 015.9. But in exceptional cases the bibliograhy of a special class of authors may be put with that class; e.g. bibliograhy of women's writings 396.58, tho 013.396 would be the better number in a general library

.0206 Writings of members of A L A
.064 " " " French academy
.282 " " Roman catholics
.378744 " " Harvard graduates

.9 Writings of foren residents in a special country
Often extended to one or more generations of descendants. This provides for bibliografies in which nationality, not subject, is the important idea

.91 Authors from special country
Divided like 910-999 by country of origin and farther subdivided with o like 910-999 by country of adoption; e.g. 013.91485 bibliograhy of writings of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under mother country; e.g. gathers together all lists of works by emigrant Swedes

.930-999 Foren authors in special country
Usually preferable to .91. Divided like 930-999 by country of adoption and farther subdivided with o like 930-999 for country of origin; e.g. 013.944 foren authors in France; 013.973 foren authors in U S, 013.9730485 Swedish authors in U S; 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under adopted country; e.g. gathers under a given country all its foren authors

014 Of special forms: anonymys, pseudonyms, etc.
.1 American .2 English .3 German, etc.
Of special countries
Books published in the country. Publishers lists, current publications. Subdivided by countries like 940-999; e.g. 015.42, Bibliography of books published in England, as Lowndes or English catalog.
The history of literature, i.e., belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes usually in 015, thus the literary history of some special class is 013.

Of special subjects
Subdivided like the main classification, from 000-999; e.g. 016.01 Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.
See also next note.

Library and sale catalogs
Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject.
Under 017-019, 4 means catalogs of books for sale, not published, by booksellers. For publishers catalogs see 015.

Clast catalogs: systematic or logical
.1 Public .2 Private .3 Auction .4 Booksellers
Class here author and subject lists bound together, as they are much oftener used to see what has been written on some subject than whether a library has a certain book.
For all forms of alphabetic subject catalogs, see 019. See 016 for Bibliografies.

Author catalogs
See 011 for Bibliografies
.1 Public .2 Private .3 Auction .4 Booksellers
A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections.

Dictionary catalogs Alfabetico-clast, etc.
.1 Public .2 Private .3 Auction .4 Booksellers

Library economy

SUMMARY
020-025 Science and administration of libraries in general
021 Scope, founding, supporting
022 Buildings and grounds
023 Government and services
024 Regulations
025 Administration
026-027 Special libraries and collections; history, description and management
026 Libraries on special subjects
027 General libraries
028-029 Allied subjects
028 Reading and aids
029 Literary methods

REFERENCES TO OTHER MATERIAL
010 Bibliography
090 Book rarities

020.1 Theory
.14 Library terms, definitions, etc. Discussion. For dictionaries, glossaries, etc. see 020.3
.2 Compends .3 Dictionaries .4 Essays .5 Periodicals
020.6 Societies, associations, clubs, conferences
  .61 Official institutions; government departments
    For library commissions see 021.82
  .62 Societies not under government control
  .621 International associations
  .622 National
  .623 State
  .624 Local clubs
  .625 Associations of special groups
    State librarians, or class in 027.506
    Medical " " " 026.6106
    Sunday school " " 027.8
    Library dep't of N E A or class. with subject in 021.3
  .626 Mutual benefit associations
    Or class in 023.59, if prefered
  .627 A L A publishing board
    For library leagues see 021.3
  .63 Congresses, conferences, meetings, temporary organizations
  .65 Commercial establishments Library Bureau
    For commercial circulars see 020.85
  .7 Education Training Library schools
  .71 Instruction, schools
    Standards, location, cost, etc
    Library schools
      Use letter for each school, and if desired divide like 378 A-Z
  .712 Summer schools
  .713 Apprentis classes Training classes
  .714 Correspondence schools
  .715 Library institutes
    Similar to teachers institutes; local meetings with a conductor, for dis-
    cussion of practical problems
  .716 Courses in colleges and universities
  .717 Courses in normal and high schools
  .718
  .719 Private schools and instruction
  .72 Research work
  .73
  .74 Museums, exhibits
    Collections of illustrativ appliances, blanks, etc
  .75
  .76
  .77 Special pedagogic methods
  .78
  .79 Competitions, prizes, traveling scholarships
  .8 Polygrafi
  .81 Individual polygrafi
  .82 Collectiv
  .822 Extracts, maxims, anthologies
  .83 Recipes
  .84
  .85 Commercial circulars
    See also 020.65 Commercial establishments
  .86
  .87
  .88 Curiosa, anecdotes, library humor, dummy book titles
  .9 History of library economy
    For history of libraries both public and private see 027
    Lives of librarians are class in 920.2. To keep them with the subject use
    020.92, and for fotograf of librarians 020.921. Collected lives may be sepa-
    rated from individual by use of the Olin booknumbers (following Index)
Scope, usefulness and founding of libraries

Also scope and founding of combined libraries and museums. Support, development

.01 Arguments for libraries: purpose, benefits
   Impressiveness of libraries. Discussion of free public libraries is better clas
ted here than in 027.4

.02 Arguments against libraries: evils of libraries
   For paternalism in library see 021.201

.03 Progress and future of libraries
   Reforms, improvements, projects, plans, professions, library ideals

.04 Ideas for special communities
   e.g. what a library can do for a manufacturing community

.1 Library as a storehouse
   Character of material appropriate to library

.2 Library as an educator; people’s university
   Material on private reading is better in 028 than in 027.2
   While the work of a library is nearly all educational in a broad sense, the rela-
tions of the library to special classes of the community, outside of direct educa-
tional work thru schools and home education work, are best clasd with libraries
for special classes in 027.6, or when a special subject predominates, in 026

.201 Paternalism in library
   See also 024.58 Library censorship of news, 024.64 Restriction of immoral
   books, 025.217 Exclusion of immoral or ill made books

.25 Library as a publisher
   bookseller

.26 Work for special classes of users
   Physicians, lawyers, clergymen, women, foreigners, etc. See also 021.3

.3 Library in relation to schools and the young
   This is mainly for relations of general public libraries to school work. Class a
   library own’d by and kept at the school in 027.8. School libraries, 371.6, is
   only to keep all school material together under 370. Class general work for
   children with children’s libraries in 027.6

   Relations to teachers

   pupils
   Librarian’s talks to pupils, either at schoolhouses or at library, on use of
   library

   Special libraries for schools
   Specially selected from general library and lent to school either for class or
   general school use. Duplicates for schools

   Work of individual libraries with schools
   Alphabetic by library; e.g. accounts of work with schools by Hartford public
   library under Hartford, by Osterhout library at Wilkesbarre under Osterhout
021.4 **Home education**

This includes all services or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.7-9

.41 Study clubs Reading circles, etc.
.42 Conferences, conventions, institutes, etc.
.43 Lectures

For extension courses, see 021.44

.44 Extension courses Lecture study
.45 Entertainments: dramatic, musical, etc.
.46 Museums and temporary exhibits
.47 Science museums or collections
.48 Art galleries

.5 **Library as a recreation**

Serving refreshments; e.g. tea

.6 **Library extension and cooperation**

For work done by the state see 021.8

.61 Deliveries

See also 025.6 and 022.16

.62 Branches

See also 022.15

.63 Centralization Grouping of libraries

.64 Cooperation between libraries

Cooperation in any special department is class with the department; e.g. interlibrary lending 025.6

.65 Traveling libraries

A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization. Book wagon

.66 House libraries

A small traveling library for use of a person or household. Originated at New York state library for isolated students

.67 Home libraries

Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society

.7 **Founding Developing and maintaining interest**

This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who are already readers see 025.5 and 025.6

.71 Personal canvass, visits and correspondence

.72 Circulars

.73 Adverting

In newspapers, posters, street cars, etc.

.74 Press Publicity

Discussion of use of newspaper columns (editorials, articles, letters, new book lists, etc.) to secure interest

.75 Schools and teachers

.76 Churches and ministers Pulpit

.77 Literary and other organizations and institutions

.78 Lectures Public meetings and addresses

.79 Library propaganda

Societies, local or general, for encouragement and stimulation
021.8 Libraries and the state Library legislation

.81 State supervision

.82 Library departments or commissions
Special work done by commissions is class by its subject. Reports of com-
misions, if largely a summary of the public libraries of the state, go in 027.4
If important to keep all work of commissions together, class their reports
here

.83 Government aid

.831 State grants of money

.832 Local subsidies

.84 Gifts of books

.841 Public documents, etc.

.842 Copyright books

.85 Exchanges
See 025.266 for systems of exchanges, management, routine in individual
libraries. This number is for general exchanges by state or central authority

.851 Local

.852 Foreign
Vattemare international exchanges, Smithsonian exchanges

.86 Privileges

.861 Remitted duties Free importation

.862 Free postage Franking privilege

.863 Lower rates or special facilities Cheap library post

.87

.88 State or local hindrances Politics

.89 Library legislation
General; laws for a special subject are class with the subject; e.g. law for a
library commission 021.82; law against injuring library books 024.8

.891 National legislation

.892 State

.893 Local legislation (county, city or village)

.894-.899 Legislation in special countries or places
Divided like 940-999

.9 Support, raising funds, etc.
For state aid separate from local help see 021.8

.91 Taxes Appropriations Subsidies

.92 Endowment

.93 Gifts of money or books
See also 021.84 Government gifts

.94 Bequests

.95 Subscriptions

.96 Lectures Fairs Entertainments, etc.
For raising money. For educational purposes see 021.43-.45

.97 Membership fees
022 Library buildings

See also 727.8 Architecture. For care of buildings see 025.9

.1 Location, site, etc.
.11 Location with reference to field of work
   Accessibility to population served, to other libraries, educational institutions, etc.
.12 Site
   With reference to space, air, light, soil, slope of ground, etc.
.13 Provision for growth New buildings
.14
.15 Branches
.16 Delivery stations
.17 Newsrooms, reading rooms, etc.

.2 Material, protection
.21 Material: wood, brick, stone, steel, glass, etc.
   Relative fitness for library buildings. See also 620.11 Strength of materials:
   691 Bidding materials
.22
.23
.24 Fireproof construction
.25 Protection against fires
   Location and relative efficiency of apparatus: hose, extinguishers, chemical engines, standpipes, etc.
   For watchman see 025.9. See also 674.8 Fire protection
.26 Library fires, burning of libraries
.27 Insurance
.28
.29 Other dangers
   Flood, earthquake, cyclone, war, etc.

.3 Design Plans Construction

   Alphabet plans, elevations, exteriors, general descriptions, etc. by name of library. Use .31-.33 only for indexing.

.31 By kind of library
   Divided like 027. Group plans for public libraries, 022.314, in 3 subsections
   022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelve them in their alphabetical place
   under 022.3
   .3142 Libraries from 20,000-100,000, medium
   .3143 Libraries over 100,000, large

.32 By subject
   Divided like 026; e.g., under 022.3254 list plans of law libraries so that they may be readily referred to in 022.3, or in journals or reports elsewhere.

.33 By country
   Divide like 930-999 and use like 022.31-.33 only for reference.

.34 Design and decoration
   Divided like 729 as follows:

   .341 Elevation, style
      Only for general discussion; class elevation of a special library under 022.3

   .342 Plan
      Number, distribution and dimensions of rooms; special forms, spiral, circular, etc. See note under 022.341
Artistic forms

Painted decoration, etc.

Stained glass

Accessories and fixture furniture

Include paintings, statues, busts, etc., as decoration for buildings. Special library furniture, bookcases, loan desks, etc., at 022.9

Construction

Divided like 721. Class here only discussions limited to library buildings

Library rooms as part of other building

Remodeling old building

Either other buildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions

Storage and shelving

For furnishing of private libraries see 645.63.

Storage

Capacity per square meter of floor, or running meter of cases; allowance for growth

Shelving round sides of room

Wall cases

Alcoves

Galleries

Stacks

Stack rooms

Dimensions, maximum width with natural light only. Number of rooms, one or several. Number of floors

Arrangement of cases

Parallel, radial; light; open access, supervision

Movable cases

Ailes

Position, width

Flooring of stack rooms

Solid, glass, open grating

Maximum floor load

Cases, tiers

Material: wood, metal, glass

Dimensions of case and tier, height, length

See also 022.452 Dimensions of shelf

Plan of cases

Open or closed ends and backs; 1 or 2 ledges

Fixture or movable shelves

Quarto and folio shelving

Shelving

Material

Wood, metal, glass, stone, sheet iron, skeleton steel

Dimensions; length, depth, thickness; standard shelf

Surface finish or covering

Paint, varnish, cloth or leather covering

Shelf supports: pins, brackets
Cases and shelves for large books, lying flat
Dimensions, sliding or roller shelves, etc.
.47 Closed cases  Doors: glass, screen or wood
.48 Special cases
.481 Hanging presses
.482 New-book cases
.483
.484
.485 Cases for maps, engravings, etc.
.486 Cases for fotograf's
.487 Cases for lantern slides
.5 Reading rooms
See also 022.63 Rooms for special material
.51 General reading room  Central hall
.52 Small reading rooms  Study rooms
Gallery study tables. For seminar and class rooms see 022.65
.53 Reference room
.54 Standard library
.56
.57 Women's room
.58 Children's room
.6 Administration and special rooms
.61 Rooms for trustees or outside organizations
.611 For trustees
.612 " committees, commission, school board
.613
.614 For local societies
.62 Administration rooms
Divided like 025
.63 Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
.64 Special collections: patents, local history, etc.
.65 Instruction rooms, etc.
.651 Lecture room or hall, theater, concert
.653 Seminar room, class room
.655 Museum
.656 Art gallery
.657 Exhibition room
.658 Fotografic and dark room
.659 Piano and music room
**Recreation rooms**
- Conversation room
- Chess room
- Other games
- Billiards
- Bowling
- Gymnasium

**Other rooms**
- Lavatories, etc.
  - Entrance halls and corridors
  - Waiting room
  - Telephone booth or room
  - Lunch room
  - Coat room
  - Toilet room, lavatories, etc.
  - Garage, bicycle room, etc.

**Residence quarters**
- Librarian
- Janitor

**Lighting**
- Natural lighting; windows
  - For architectural side see 022.358; for stained glass see 022.348
  - Position of windows; size and number; shape. Provision for opening: sliding, hinged or pivot sash, French casement
- Skylights
- Prisms
- Artificial lights: materials
  - Lamps, oil, etc.
  - Gas
  - Acetylene
  - Electricity
- Fixtures
  - Portable or semiportable lights
  - Table lights
  - Standards
  - Bracket lamps
  - Chandeliers
- Lighting of stacks by electricity
  - Fixt or movable lights

**Heating and ventilation**
- General hygiene of library. Divided like 697
022.9  Fixtures, furniture, fittings
.91  General furniture
.911  Chairs
.912  Tables
.913  Desks
.914  Revolving cases
.915  Bases
.916  Vertical files
  See also 651 Office equipment
.918  Counters
.92  Public conveniences
.921  Hatracks
.922  Umbrella stands
.923  Clocks
.924  Bulletin boards
.93  Furniture for exhibiting or using books, pictures, etc.
.931  Exhibition cases, fixt or movable
.932  Wing frames
.933  Easels
.934  Reference book holders
.935  Magazine and newspaper racks, files, etc.
.94  Appliances for getting or carrying books or messages
.941  Ladders, stepladders
.942  Book trucks
.943  Carrying trays
.944  Mechanical carriers
  See also 621.867 Conveyors, Telferage
.945  Book lifts
.946  Pneumatic tubes
.947  Speaking tubes
.948  Interdepartment telephones
  See also 621.3853 Intercommunicating telephones
.95  Elevators
  For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945
.96  Floor coverings
  For permanent flooring see 022.356
.961  Linoleum, corticine
.962  Matting
.963  Carpets
.964  Rugs
.965  Door mats: rubber, wire, etc.
.97  .98
.99  Desk fittings, etc.
  Divided like 651
023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

.1 Constitution and bylaws for governing board
   Charters. Local ordinances, etc.

.2 Appointment and tenure of officers under governing board
   State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv officer

.3 Governing board
   Trustees, committees, directors, regents, etc.

.31 Method of selection
   Election, appointment, exofficio trustees, close corporation, i.e. selfperpetuating body

.32 Number

.33 Qualifications

.34 Women as trustees

.35 Powers and duties

.36 Financial administration

.37

.38 Time and place of meetings

.4 Executiv Consulting librarian Library expert
   For appointment see 023.2. See also 023.5-.9, which apply to executiv as well as to staf

.43 Responsibilities and privileges

.5 Staf
   Including all subordinate positions. For method of appointment see 023.2

.51 Qualifications

.52 Personality Character Moral and social equipment

.53 Mental equipment Natural ability

.531 General education

.532 Professional education Training
   See also 020.7 Library schools

.535 Reading of librarians

.54 Physical equipment Health Exercise

.55 Staf meetings Relations to hed

.56 Women as librarians
   Including difference in salaries of men and women

.57 Worries and trials

.58 Longevity

.59 Library benefit associations
   See also 020.026
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>023.6</td>
<td>Daily hours</td>
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<td>Lunch room</td>
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<td>Special work</td>
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<td>Evening</td>
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<td>Overtime, extra hours</td>
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<td>Length</td>
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<td>Continuous or in instalments</td>
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<td>Absences for sickness or other causes</td>
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<td></td>
<td>See also 023.641 Making up lost time</td>
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<td>.68</td>
<td>Attendance at meetings</td>
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<td>.682</td>
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<td>Monotony</td>
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<td>Change of work</td>
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<td>Understudies</td>
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<td>Executiv</td>
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<td></td>
<td>Director</td>
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<td></td>
<td>Chief or principal librarian, keeper, etc.</td>
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<td>.72</td>
<td>Department, division or section heds</td>
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<td></td>
<td>Librarians, sublibrarians, chiefs, heds</td>
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<td>.73</td>
<td>Reference staf or faculty</td>
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<td></td>
<td>Librarians of special subjects</td>
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<td>.74</td>
<td>Assistants</td>
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<td></td>
<td>Catalogers</td>
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</table>
Pupil assistants, apprentices, volunteers
Paid mainly by instruction

Clerical servis
Stenografers
Typewriters
Clerks
Mechanic servis
Binders
Electricians
Carpenters
Other mechanics
Pages, messengers, ushers, runners
Janitor servis
Janitor
Watchman
Elevatormen
Attendants, in coat room, etc.
Porters and packers
Cleaners, etc.

Remuneration: salaries, pensions
Divided like 023.7. See 023.56 for difference between salaries of men and women

Rules for staff Codes
Made by trustees or librarian
For punctuality see 023.612. For absences or sick leave see 023.67
Conversation
Personal calls or work
Soliciting money, subscriptions, contributions
Respect and care for library property
Uniforms
Courtsey Indifference
See also 174 Business ethics; 177.1 Courtsey (social ethics)

Rules for readers
For reference and circulating departments

Readers qualifications
Age
Residence
Relations to community
Membership in society, club or institution; official position; profession, etc.
Responsibility
Reference, guarantor, money deposit
Registration
for limited period
DECIMAL CLASSIFICATION

024.2 Fees  Assessments  Free use

.21 Membership fees
   Mercantil libraries, atheneums

.22 Book fees
   Circulating library fees. For fines see 024.6

.23 Fees for readers card, etc.
   For petty expenses to guard against wastefulness

.24 Extra library fees; e.g. college library

.25 Public library fee
   For subscription departments see 024.7

.27

.28 Free use

3 Hours of opening

.31 Number of hours

.32 Time of day: morning, afternoon

.33 Evening opening

.34 All night "

.35 Intermission for meals
   Closing library during lunch, dinner or supper hours

.36 Hours for reference and circulating departments

.37 Cooperation of local libraries
   Agreement on hours so that some library shall always be open

4 Days of opening or closing

.41 Sunday

.42 Special religious days

.43 Holidays

.44 Vacation, summer

.45 Inventory Examination
   Closing for annual examination of library

.46 Special occasions
   Closing for recataloging or rearrangement; public calamity, deaths

.47 Closing for epidemics

5 Reference use

.51 Reading room rules

.52 Decorum in library
   Unwelcome visitors; library cranks

.53 Ladies in reading room
   For women's separate reading room see 022.57

.54 Access to catalogs
   For access to librarian see 023.43

.55 Open reference shelves

.56 Open shelves in general

.57 Restricted or selected access to shelves
   Restriction as to persons or subjects

.58 Library censorship of news
   Obliteration or suppression, in reading room copies, of newspaper reports
   tending to lower morals; e.g. betting and racing news, reports of crime,
   criminal trials. See also 021.201 Paternalism
024.6 Home use Loans

.61 Number of books
.611 Two book system
.612 Summer vacation cards
.62 Time: 7-day books, new periodicals
.63 Delinquencies Fines
   For injuries, etc. see 024.8
.64 Renewals
   Extension of loans by library
.65 Relending
   Lending by borrowers
.66 Reservations
.67 Restricted books
.671 Reference
.672 Rare or costly
.673 Medical
.674 Of immoral tendency Library inferno
   See also 021.201 Paternalism
.68 Interlibrary loans
.681 International loans

.7 Special privileges
.71 Extra books Teachers cards
.72 Extra time
.73 Remission of fines Excuses
.74 Favor classes: trustees, faculty, staff
.77 Lending restricted books
.78 Subscription department
   Novels and popular new books lent for fee. Extra copies for rent in public
   (tax supported) libraries

.8 Injuries Abuses
.81 Defacements
   Marks; corrections, notes and comments
.82 Mutilation
.83 Removal of plates, maps, etc.
.84 Mutilating newspapers
.85 Losses by readers; payment
.86 Thefts
.87 Restitutions
.88
.89 Prevention of abuse
   Methods of preventing injury and inducing better care of books. For
   library leag see 027.6

.9 Other rules
DECIMAL CLASSIFICATION

025 Administration Departments

SUMMARY

Supervision 025.1 Executive
Acquisition 025.2 Accession
Utilization 025.3 Catalog
025.4 Classification
025.5 Reference
025.6 Loan
Preservation 025.7 Binding
025.8 Shelf
025.9 Care of binding

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021-024 and elsewhere; e.g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686).

Administration includes .1 Supervision .2 Acquisition .3-6 Utilization .7-9 Preservation; i.e. the librarian's duty to books is to Get, Use, Keep.

.1 Executive

General supervision

.11 Finances

See also 023.36 Financial administration of governing board

.111 Invested funds, endowments, gifts

See also 021.9 Support

.112 Appropriations: local or state

See also 021.8 Libraries and the state

.113 Other money received

Fees, assessments, fines, payments for special services and investigations, etc.

.114 Accounts: receipts and expenses, bookkeeping

.115 Salary payments Staff payrolls

See also 023.8 Salaries

.116 Expenses: fittings, supplies and incidentals

Class with a department supplies peculiar to it, their kind, quality, cost, etc.; e.g. catalog cards with 025.3. For bookbuying see 025.2

.117

.118 Cost of preparing books for shelves

.12 Printing and publications

Both preparation of material and details of printing, including size, style, type, etc.

.121 Blanks and forms, stationery

If relating to a special department class with it; e.g. bookplates in 025.2

.122 Publications

.123 Reports and statistics

See also 027

.124 Catalogs

See also 017-019. For cataloging see 025.3

.125 Bulletins

Frequency, advertisements, etc. See also 017-019. For preparation of book lists see 025.3; for newspaper publication of new book lists, see 021.74

.126 Library magazine or paper

.127

.128

.129 Duplicating by neostyle, carbon, etc.

For machines and processes see 052. Class here discussion of fitness for library applications only
025.15 Correspondence

.151 Stationery
  Material, weight, size and headings

.152 Stenografer, dictation machines

.153 Typewriters

.154 Copiers
  Roller, press, carbons, portable. See also 025.129

.156 Letter files
  See 651 for methods

.17 Treatment of special material
  For general discussions of arrangement, care and use. Class special work under each department: e.g. cataloging of incunabula in 025.3

.171 Manuscripts, archives and rarities
  Divided like 090

.172 Pamphlets

.173 Serials, documents, etc.
  1 Periodicals, magazines, etc.
  2 Newspapers
  3 Annual reports
  4 Documents; national, state and local

.174 Broadsides

.175 Clippings

.176 Maps and charts

.177 Art material
  Engravings, fotografs, drawings, lantern slides

.178 Music: scores, rolls, etc.

.179 Museum material

.18 Administration of individual libraries
  Alphabet by name of library. For administration of special kinds of libraries see 026 and 027
025.2 Accession  Acquisition

SUMMARY

025.21 The library and its selection
.22 Methods of acquisition
.23 Ordering and receiving
.24 Accessioning
.25 Marks of ownership
.26 Duplicate and exchange department
.29 Special material

.21 The library and its selection

.211 What? Proper proportion of subjects
Division of funds; endowments for special subjects; accession statistics

.212 Specialization by libraries
Division of subjects among local libraries. See also 021.64 Cooperation. For collections on special subjects, economics, science, etc. see 026

.213 Who? Selectors of books
Trustees or trustee committee; librarian; staff committee, book board; advisory committee from outside; experts; central body (bibliographic bureau, state commission, etc.)

.214 How? Methods of selection
Recommendations by readers; personal examination; visits to book stores; books sent on approval; first selection for new library. Want lists, books under consideration For lists of best books, A L A catalog, annual lists, etc. see 016 For principles of selection and choice of editions see 028.2 For selection for special classes see 027.0, 027.8, 028.5

.216 Buying fiction
Duplicating popular fiction; extra copies of best fiction

.217 Rejection, exclusion, censorship
Pernicious literature; badly made books; yellow journals See also 021.201 Paternalism

.218 Weeding out, sifting
Separating books no longer of service to library. For withdrawal book see 025.249

.22 Methods of acquisition

.221 Buying new books
Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foren books thru home or American agent, thru foren agent. See also special material 025.29

.222 Prices Discounts
Net books. For free importation, see 021.861

.223 Buying old books
Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books

.224 Auctions
For auction catalogs. see 017–019

.225 Buying libraries in block

.226 Exchange

.227 Gifts
Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books For government documents and copyright books see 021.84 See 025.268 for gifts from library to library
Ordering and receiving

For gifts, see 025.237; for exchanges, see 025.266

Ordering
Order slips or lists; order books or sheets; copies of orders; order index; order numbers

Examination for duplicates and verification
Misspelled names; changed titles; separates

Reception and opening
Express, mail, etc; frequency of shipments; free delivery

Checking bills
Prices and amounts

Collation

Receipt index

Accession book

Importance of record
Accession book vs shelflist, etc.

Printed headings
Items Fulness of entries

Accession number: volume, work or invoice

Accession stamp

Withdrawal book

Ownership marks

Private marks

Stamping
Ink, embossing, or perforating stamp. Table and foot power

Book plates Plating
See also 097

Library name on outside of book
Gilding or impressing name of library on back or covers

Card pockets

Duplicate and exchange departments

Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.

Duplicates of institution's own publications
Either of library or larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand

Cataloging

Arrangement

Sale for cash

Exchange
General exchange of publications; exchange accounts

Clearing house for duplicates
See also 021.852 Vattemare international exchanges, Smithsonian exchanges

Gifts to other libraries

Deposits
By large libraries in small or in hospitals, prisons, etc. also deposits in great collections by individuals or small libraries. See also 025.218

Special material
Divided like 025.17
025.3 Catalog
For printed catalogs themselves, see 017-019. This is for cataloging
Printed, manuscript, or card; Author, subject, title, class; Dictionary or
combined; Cooperative rules; Size notation; Cooperative cataloging;
Duplicated titles, print or photograph; Mechanical accessories, cards,
cases and fittings, drawers, trays, blocks, checks, guides, labels

4 Classification
For philosophic classification of knowledge, see 112 Methodology. This is
for practical classing of books, pamphlets, and notes, rather than theoretic speculation
On shelves; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close vs broad classing; Mnemonic features; Basis of division;
Coordination of special subjects

5 Reference Reference books Aids to readers
See 028 for general discussion of reading and aids. This is limited to
library administration

6 Loan
See 024.1 and 024.6 for regulations
Indicators; Charging systems, legs vs cards; Book cards, marks, pockets;
Call slips, readers cards; Notices, reserves; Registers; Interlibrary loans;
Mechanical accessories, slip cases, trays, tills, stamps, etc.

7 Binding and repair:
See also 686 Bookbinding
Materials, durability, tight vs spring backs, sewing, color, lettering; Paper
covers and temporary binders; Restoring, mending, cleaning, and oiling

8 Shelf
See also 022.9, Shelving
Arrangement; Shelf numbers; Shelf and book labels; Fixt and relative
locations; Sizes of shelves; Arrangement and preservation of public
documents, pamphlets, papers, manuscripts, maps, drawings, and plans,
music, broadsides, clippings; Chain books; Injuries, heat, gas, insects;
Stock taking; Shelf lists

9 Binding: care, cleaning, safety Janitor Police
See 022 for binding and fittings. This is janitor's department
Libraries on special subjects

026

Histories, reports, statistics, bulletins, handbooks, circulars, and every-
thing about the library not more required in preceding sections. Sub-
divided by adding the class number of subject; e. g. a Medical library
is 026.61; a Chess library, 026.794; but the catalog of a chess library is
016.794. Blanks, etc. from any library go under subjects in 025, as more
used in studying topics; but, if history of individual libraries is special-
ized, duplicates are also desirable under the library in 026-7, thus mak-
ing a complete set of its publications.

General libraries

027

This includes both circulating and reference; i. e. all not limited to special
subjects

Subdivided if wisth by countries, like 930-999; e. g. 027.744 College
libraries in France. Or if wish, group all by geographic location, using o
in 4th place to indicate no division by kinds of libraries; e. g. 027.044
Libraries of France; 027.07471 Libraries of N. Y. city

A private library is still classt 027.1, after it has been sold or merged in
a public library. But a society library changed to a free public should
take 027.4 for all publications after the change.

Private and family

Proprietary, society, club and Atheneum

.2 is limited to libraries that are semiprivate; requiring an election for
admission, while .3 includes all open to any one on payment of a fee. It
is the difference between a club and a hotel. .3 is for libraries run as a
business. A mercantil library, even tho it has endowments, if open with-
out individual election, goes in .3 as a subsidized public subscription
library. Many private subscription libraries go in .2

Subscription Circulating

Mudie's, Booklovers, etc.

Free public Rate supported Endowd

Public library commissions. See also 331.85; and 027, last note

Special kinds of public libraries

General discussion of county or rural libraries, etc.

State and government

For special classes

Institution, prison, reformatory, asylum, blind, monastic, workmen's,
factory, railroad, sailors, lighthouse. A workmen's library of books
on engineering is 026.62, not here, as the subject is more useful than the
class of readers

College, university

For libraries of professional and technical schools see 026

School Sundayschool Parish

See also 371.64 Libraries as school equipment; 021.3 'Library in relation to
schools and the young

Free newrooms and reading rooms

See also 331.85
028  Reading and aids
   See 374.1-3 Self education by private reading and reading circles

.1  Methods
   Tasting, skipping, reviewing, making synopses, abstracts, extracts, and
   index rerums (see 029), book marking

.2  Choice of editions
   Annotations, indexes, paper, type

.3  Courses of reading
   Both discussion and lists of books
   For sets of books representing prescribed courses for general culture. e.g.
   Harvard classics, see 080

.4  Fiction  Novel reading
   Discussion. Short selected lists may be put here, tho all fiction lists are
   better together in 016.823 (in German libraries 016.833, French libraries
   016.843, etc.)

.5  Reading of young  Juvenils
   Both discussion and lists of books

.6  Professorships of books and reading
   Lectures. Stimulus and guidance in school.

.7  Use of reference books

.8  Aids to readers
   Guidance, printed or personal. See also 028.6 and 025.5

.9  Character of reading in libraries

029  Literary methods and laborsavers
   Much in 025 and 028 belongs equally under 029 in its full meaning, but
   practical convenience is best serv by referring to 025 and 028 insted of
   repeating the heds

.1  Methods
   Exact reference; standard sizes; use of colors; thought study; intercalation
   or card system (see 025.3); cooperative methods; records vs memory, etc.
   See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classifi-
   cation
   .1 is for what one learns how to do by an improved method
   .2 is for articles which one must make or buy in order to utilize. Where a
   pamflet covers both appliance and method, class with predominant feature

.2  Appliances  Laborsaving tools and devices
   See also 651. Most literary laborsaving devices go also under 651. Offis
   equipment and methods; and are best kept together there; e.g. all offis
   and study furniture, fittings and supplies, cases, bookholders, reading
   desks, pigeonholes, files, etc. For pamflet, map, etc. cases, see 025.8; for
   binders, 025.7

.3  Clippings  Scrapbooks or files
   See also Files, 65;

.4  Notebooks, notetaking, abstracting, etc.

.5  Indexing  Index rerums  Printed and patent indexes
   For alfabeting and transliteration see 025.3

.6  Authorship  Writing for press  Copy and proof
   See also 655.25 Proofreading; 655.52 Relations to publishers
030 General cyclopedias
Subdivided by using for 3d figure; 1, American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other; e.g. American cyclopedias. 031

040 General collected essays
Subdivided like 030

050 General periodicals  Magazines
Subdivided like 030

060 General learned societies  Museums
Subdivided like 030
Academies of Paris, Berlin, Vienna, etc. Societies on a specific subject go with that subject; e.g. 530.6 Geologic societies. See also 360 Institutions and associations, for philanthropic, political, social and similar organizations

070 Journalism  General newspapers
See also 029.3 Clippings  Clipping bureaus
170.1 Morals of the press
323.445 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing  Publishing  Copyright
741 Cartoons  Caricatures

.1 Utility  Theories  Relations to other professions
For government relations see 070.15

.11 Standards  Ethics  Influence  Responsibility
   General and higher view, educative influence; for degradation of the press see 070.16

.12 Endowed newspapers
   Independence of popularity

.13 Liberty of the press  Censorship
   Individual privacy; diplomatic secrets; seditious or anarchic influence
   See also political science, 323.445 Freedom of the press

.14 War censorship

.15 Subservience to special interests
   Use by sectarian, partisan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 Sensational or 'yellow' journalism
   Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 Anonymous journals
   Those with editors or place of publication unknown

.19 Other general questions
   Comparison of field, importance and influence of newspaper, periodical and book

.2 Ownership and control

.22 Newspaper names

.23 Location

.232 Metropolitan  Large city

.234 Provincial  Small city

.236 Rural  village

.26 Syndicates  Patent insides
Business management

Staff and workmen

- Office staff
  - Manager, stenographers, bookkeepers, clerks, messengers

Workmen

- Compositors, foundrymen, pressmen, mechanics, laborers

Hours, shifts

Newspaper strikes

Newspaper printing

Class here discussion of economy and other advantages of special methods and appliances

For mechanism and operation of newspaper presses see 655.31 Printing presses

Size of page

Methods and appliances

- Composition: linotype, monotype, etc.
- Stereotyping
- Presses

Newspaper cuts: wood, zinc line, halftone

Frequency of issue

- Daily, semiweekly, weekly, etc.

Time of issue

- Morning, evening, successive editions, extras

Size of editions, number printed

Distribution Circulation Sale

Direct: subscription Mailing

House delivery

Indirect: newsboys, news agencies, etc.

Crying and peddling in streets and newsstands

Advertizing methods

Subdivided like 659.1 Advertizing

Specialties

As means of increasing circulation. For special departments see 070.43

- Regular: foren or marine news, stocks, sporting, etc.
- Occasional: adoption of popular causes, exposure of abuses, etc.

Other means of increasing circulation

Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

Cost of production Expenses

Plant: building and equipment, offices

- Duplicate plant. Depreciation of machinery

Supplies: paper, stationery, etc.

Salaries and wages

- Space rates. Pay of journalists, pecuniary inducements of vocation.
- Traveling expenses

Postage: pound rates, free carriage

Advertizing

Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336
JOURNALISM

070.35 Sources of income
  Sales, subscriptions, subsidies. For bribes see 070.16

.36 Advertising department
  Including all business pertaining to a journal's advertising columns. For
  advertising agencies see 659.1

.39 Foreign offices
  Subdivided like 940-999; e.g. N Y herald office in Paris 070.3944

.4 Editorial management
  General
  Editing rules: order of departments and articles; style; newspaper diction

.42 Staff: reporters, correspondents
  Organization: hours, duties. For pay see 070.344

.43 Editorial departments
  .431 News
    1 Sources and channels of news
      Telegraf, telefone, wireless, mail, reporters, carrier pigeons, other
      Utilization and precautions; conflicting news
    2 Press bureaus: associated press
      Laffan and other news bureaus. For clippings see 029.3 under
      Literary methods and labor savers
    5 Foreign
    6 Home
    7 Local
    .432 Leaders, editorials
    .433 Local interests
      Discussion of local affairs, questions affecting schools, library, public
      works, etc. For local news department see 070.4317

.44 Special subjects: departments and editors
  .443 Financial: stocks, business, shipping, etc.
  .445 Household Home Women Children
    2 Cookery
    4 Clothing Fashions
    6 Hygiene Care of children
    7 Women's clubs
    8 Children's department: games, puzzles, etc.
  .446 Recreation Sporting
  .447 Art, musical and dramatic
    7 Art
    8 Musical
    9 Dramatic
  .448 Literary
    1 Poetry
    3 Fiction
  .449 Other departments
    2 Religion; 3 Education; 5 Science; 8 Humor
070.45 Voluntary correspondents  
Contributors  
.47 Special editions  
Sunday newspaper. Supplements. For extras see 070.327  
.48 Special kinds of journals  
.481 Official journals  
.482 Religious  
.483  
.484 For foreign population  
In language foreign to country in which published  
.485 Propagandist  
.486 Professional and technical  
.487 Humorous  
.488 Literary  
.489 Other: amateur, etc.  
070.5-9 Form divisions  
.5 Periodicals on journalism  
.6 Press clubs Conventions Expositions  
.7 Study and teaching of journalism College courses  
Schools Personal qualifications for journalism  
.9 History of newspapers and journalism  
General History of American newspapers 071, of German journalism 073 etc. Class history of a particular journal with that journal  

071-079 Newspapers of various countries  
The 3rd figures 1-9 are used as follows:  
1 American 4 French 7 Slavic  
2 English 5 Italian 8 Scandinavian  
3 German 6 Spanish 9 Other  
In large collections use geographic divisions under 1, American; 2, English, etc. as in 970 and 940-999. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where published. They could not go on shelves with ordinary books, and a reference is made as easily to them under 070 as anywhere.
080 Special libraries Polygrafy
For sets or 'libraries' so constituted as not to be readily scattered by subjects, and miscellaneous information; but class in 803 literary questions and answers, even tho not alphabetic. Collections conditioned by terms of gift on being kept together may be put here, but for preferable treatment of sets, see Introduction p. 28, section 10, and p. 35 under Reference library. If limited to a special subject, treat like Phoenix library, but shelve the collection in a block before or after the regular books on the same subject; e.g. the Doe collection on Spanish painting, D759.6, would stand together, yet would be where it belong with the rest of the books on that subject.

090 Book rarities
Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspeare goes in 822.33 with reference from 090. 090 is mostly used for grouping references to books located elsewhere.

091 Manuscripts Autografs
Class in 096 mss important chiefly for illumination. Photographs of mss, when more valuable for subject matter, go with subject rather than here. For Diplomatics and Paleografs, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books

093 Early printed books Incunabula
Colophons

094 Rare printing
Aldines, Elzevirs, Caxtons, etc. Privately printed books; unique books

095 Rare binding
Noted binders, costly ornaments, curious bindings

096 Rare illustrations or materials
Illuminated Illustrated by inserted plates Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

097 Ownership Book plates Ex libris

098 Prohibited Lost Imaginary

099 Other rarities Curiosa Minute size, etc.
Philosophy

100 Philosophy in general
Works limited to none of the 9 divisions
101 Utility
102 Compends, outlines
103 Dictionaries Cyclopedia
104 Essays, lectures, addresses
105 Periodicals Philosofic magazines
106 Societies: transactions, etc.
107 Study and teaching of philosophy
108 Polygrafy, extracts, maxims, etc.
109 History of philosophy

110 Metaphysics

111 Ontology
Nature of being Substance and form
112 Methodology
Philosophic classification of knowledge Terminology For book classification see 025.4
113 Cosmology
Philosophic theories and discussion; for philosophy of mathematic processes see 510.1

114 Space
115 Time
116 Motion
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118 Force
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Doubt, denial, belief |
| 122  | Causation Cause and effect |
| 123  | Liberty and necessity  
See also 233.7 Freedom; 234.9 Predestination; 139 Will |
| 124  | Teleology Final causes |
| 125  | Infinit and finite |
| 126  | Consciousness Personality  
See also 233.6 Doctrin |
| 127  | Unconsciousness Automata |
| 128  | The soul  
See 218 Natural theology; 237 Future state |
| 129  | Origin of the individual soul  
1. By special creation  
See also 213 Creation  
2. By inheritance Traduction  
See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity  
3. Pre-existence |
| 130  | Mind and body Anthropology |
| 131  | Mental physiology and hygiene  
Psychic research  
New thought. For influence of mind on body, mind cure, etc. see 615.851; see also 612.8 Physiology of nervous system, 613.8 Hygiene of nervous system |
| 132  | Mental derangements  
See also 616.8 diseases of nervous system  
1. Insanity  
See 362.2 Asylums; 920.8 Lives; 616.84 Disease  
2. Idiocy  
See 362.3 Asylums; 920.8 Lives; 371.922 Education  
3. Hypochondria Melancholy  
See 616.852 Hysteria  
4. Catalepsy  
See 616.852 Hysteria  
5. Ecstatics  
6. Kleptomania and other leading to crime  
7. Dipsomania and other leading to vice  
See also 178 Temperance; 616.861 Alcoholism  
8. Mnemonic derangements  
Not knowing in one state what past in another. See also 154 Memory |
| 133  | Occultism Witchcraft Magic  
Psychic research  
1. Apparitions Ghosts  
2. Hallucinations  
3. Divination Oracles Second sight Omens Predictions  
4. Witchcraft Sorcery  
See also 272.8 Persecutions  
5. Astrology  
See also 520.1 Astrology  
6. Palmistry  
7. Humbugs Quackery  
8. Spiritism Table-tipping, etc.  
See also 289.9 Sects |
| 134  | Mesmerism Animal magnetism Clairvoyance  
Psychic research  
1. Animal magnetism  
2. Clairvoyance  
3. Mesmerism  

135  Sleep  Dreams  Somnambulism  

136  Mental characteristics  
See also 131 Mental physiology  

.1  As influenced by sex  
See also 376.2 Mental capacity of women  

.2  "  "  "  physical surroundings  
See also 575.3 Evolution; 573.4 Natural history of man  

.3  "  "  "  ancestry (Mental heredity)  
See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2  
Origin of soul; 613.92 Hygiene  

.4  "  "  "  race  Racial characteristics  
See also 572 Ethnology  

.5  "  "  "  age  
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.6  "  "  "  physical structure and conditions  

.7  Child study  Paidology  
Including adolescence  

.702  Methods  
1  Laboratory  
2  Home  

.708  Observations, records  Albums  

.71  Body: structure, growth, care  
Limited to development period  
See also 136.3 Mental heredity 612.65 Growth  
371.7 School hygiene 613 Hygiene  
612.64 Embryology 613.9 Heredity  

.72  Mind  
Limited to period of physical development  
In a general library better class in 130 and 150 with only references here  

.73  Mental characteristics  
Grouped by influence like 136.1-.6  

.74  Children's point of view  
Divided like the classification: e.g.  
.7417 Ethics  .7479 Games  
.742 Religion  .748 Literature  

.75  Delineation of children  
Psychology of children from authors' and artists' point of view  

.757  In art  
.758  In literature  

.76  Abnormal children  
Study of development. For methods of instruction see 371.9  
For institutions see 362, 364  

.761  Physically defectiv  
1  Blind  
2  Def  
3  Blind-def  

.762  Mentally defective  
Divided like 132 Mental derangements; e.g. study of idiotic children  
136.7022  

.763  Morally defective  Delinquents  

.764  Wildings  
Wildings: a class of children which, having been lost or deserted, have  
grown up away from the surroundings of children, alone or among animals.  
Paidology 1: 196 (July 1900)
PHILOSOPHY

Exceptionals  Precocity
.765  Backward children
.766  Dependents
.767  Homeless children, a public charge, lacking ideas and associations of children in families
.769  Other abnormal classes
.77  Boys  The 'gang'  The boy problem
.79  Childhood  Divided like 930-999
.791  The child among uncivilized and semicivilized peoples

Personality
Temperaments, idiosyncrasy

Physiognomy
Expression of mentality thru the body

Phenology  Mental photographs, etc.

Philosophic systems
The heads 140-149.9 are for the discussion of the systems as such. The philo-
sofic works of authors of these various schools are clas under 190, not here.
From these heads refer in the catalogs to authors clearly falling under them,
without attempting to label each writer as an exponent of some one system

Idealism  Transcendentalism
e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson,
see 191.3, 814.36

Critical philosophy
e. g. Kant, see 193.2

Intuitionalism
e. g. Reid, see 192.5; McCosh, see 191.5. See also 136 Intuitiv faculty;
171.2 Ethics.

Empiricism
e. g. Descartes, see 194.1; Bacon, see 192.1

Sensationalism
e. g. Locke, see 192.2

Materialism  Positivism
e. g. Hobbes; Comte, see 194.8  See also 149.2 Realism

Pantheism  Monism
e. g. Spinoza  See 212 Natural theology

Eclecticism
e. g. Cousin, see 194.7

Other philosophic systems
See 211 Rationalism, skepticism; 214 Fatalism

Nominalism

Realism  See 146 Materialism

Mysticism  See 273.3 Heresies; 189.5 Medieval philosophy

Associatealism

Optimism  Meliorism

Pessimism
e. g. Schopenhauer, see 193.9  See also 216 Evil; 233 Doctrin of man

Agnosticism
See 273.8 Agnostic heresy

Nihilism

Other systems
150 Mental faculties Psychology
For related topics, see Mental in Relativ index following Tables

151 Intellect Capacity for knowing
.1 Genius

152 Sense Sense perceptions
See also physiology 612.81-88
Passiv or receptiv faculty
.1 Vision
.2 Hearing
.3 Smell
.4 Taste
.5 Touch
.6 Muscular sense

153 Understanding
See also 612.821 Physiologic psychology
Activ or thinking faculty
.1 Conception The concept or notion
.2 Association
.3 Abstraction
.4 Reflection
.5 Judgment
.6 Reasoning Induction and deduction
See also 160 Logic

154 Memory Reproductive power
See also 132.8 Mnemonic derangements
.1 Mnemonics

155 Imagination Creative power
Fancy Imaging power

156 Intuitive faculty Reason
For reasoning, see 153.6

157 Sensibility Emotions Affections

158 Instincts Appetites

159 Will
Classification used in the Los Angeles State Normal School

150 Psychology

0.1 Experimental psychology

0.17 Educational "

0.19 Animal "

0.2 Child psychology and welfare

0.202 " " Methods

0.2021 " " Mental tests

0.203

0.204

0.205 Child psychology Periodicals

0.206 " " Proc. of associations

60.21 Periods of development

60.211 " " Infancy

60.212 " " Childhood

60.213 " " Adolescence

262 Child labor

263 Backwardness

264 Defectives Children of the poor

172 State ethics

1 Individuals and the state Duties of citizens Patriotism

See also 320 Political science

2 Duties of public officers Official corruption

3 Relations to church

Duty of state as to support and protection of church

See also 3617 The church; 332 Church and state; 272 Persecutions

4 International ethics Peace and war

See also 341 International law
154 Memory Reproductiv power
See also 132.8 Mnemonic derangements

.1 Mnemonics

155 Imagination Creativ power
Fancy Imaging power

156 Intuitiv faculty Reason
For reasoning, see 153.6

157 Sensibility Emotions Affections

158 Instincts Appetites

159 Will
Hygiene of childhood

Sex education

Diseases of childhood

Moral and religious development

Activities

Imitation

Play

Social

Linguistic development

Constructive

Drawing and music

Business training

Child welfare

Euthenics

Agencies

Boy scouts

Junior republic

Child labor

Backwardness

Defectives

Children of the poor

State ethics

Individuals and the state

Duties of citizens

Patriotism

See also 320 Political science

Duties of public officers

Official corruption

Relations to church

Duty of state as to support and protection of church

See also 261 The church; 322 Church and state; 272 Persecutions

International ethics

Peace and war

See also 341 International law
157 Sensibility  Emotions  Affections
158 Instincts  Appetites
159 Will
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For rules of Christian conduct see 241

- **.2** Intuition Moral sentiment
  - See also 143 Intuitionalism; 156 Intuitive faculty

- **.3** Perfection

- **.4** Happiness Hedonism

- **.5** Utilitarianism

- **.6** Conscience Casuistry

- **.7** Evolutionary or educational

- **.8** Altruism

- **.9** Egoism

### I72 State ethics

- **.1** Individuals and the state Duties of citizens Patriotism
  - See also 320 Political science

- **.2** Duties of public officers Official corruption

- **.3** Relations to church
  - Duty of state as to support and protection of church
  - See also 261.7 The church; 322 Church and state; 272 Persecutions

- **.4** International ethics Peace and war
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PHILOSOPHY

160 Logic

161 Inductive
162 Deductive
163 Assent Faith

See also 234.2 Doctrinal theology

164 Symbolic Algebraic
Logical machines
Logical topics

165 Sources of error Fallacies
166 Syllogism Enthymeme
167 Hypotheses
168 Argument and persuasion
169 Analogy Correspondence

See also 219 Natural theology

170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law
See also 377.2 Ethical education.
  1.2 Compends .3 Dictionaries .4 Essays .5 Periodicals
  .6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafi
  .9 History

171 Theories Philosophy of ethics
Theories of the basis of morality
  1 Authority Will of God Christian
     For rules of Christian conduct, see 241
  2 Intuition Moral sentiment
     See also 143 Intuitionism; 156 Intuitive faculty
  3 Perfection
  4 Happiness Hedonism
  5 Utilitarianism
  6 Conscience Casuistry
  7 Evolutionary or educational
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172 State ethics
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Family ethics

1. Marriage and divorce See also 347.6 Family law
2. Polygamy and monogamy See also 298 Mormonism
3. Duties of husbands and wives
   - Infanticide
4. Duties of parents
5. Duties of children
6. Home life
8. Masters and servants See also 647 Servants; 331 Labor

Professional and business ethics

1. Clergy
2. Physicians
3. Lawyers
4. Merchants Business men Business virtues and vices
   - Speculation Mammonism Avaris
5. Gambling Lotteries
   - See also 175 below
7. Honor, honesty Dishonesty
   - Compact, promiss; chicanery, trickery
8. Employers and employd

Ethics of amusements For amusements, see 790

1. Public shows and diversions Rinks, circuses, etc.
2. Theater Opera Private theatricals
3. Dancing Balls Round dances
4. Games of skill: billiards, chess, etc.
5. Games of chance: cards, dice, etc.
6. Prize fighting Animal fighting: bull, dog, cock, etc.
7. Racing: horse, boat, pedestrian, wheel, etc.
8. Novel reading
9. Betting Poolselling See 174.6

Sexual ethics

1. Chastity
2. Celibacy See also 254 Celibacy of clergy
3. Continence
4. Solitary vice
5. Social evil See also 258 Parish care of fallen
6. Adultery
7. Immoral art
8. Immoral literature
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I77 Social ethics
.1 Curtesy
   See also 395 Etiquet
.2 Conversation Gossip
   See also 374.1 Self culture
.3 Truth Slander Flattery
.4 Dress Display Sumptuary legislation
.5 Caste Class feeling Welth and rank
   See also 294 Brahmanism, and 323.31 Nobility, welthy class
.6 Friendship Courtship Coquetry
.7 Philanthropy Humanity
.8 Solitude vs social obligations
.9

I78 Temperance Stimulants and narcotics
   May be divided by form .01-.00; see Index table 2, following Relativ index
   See also 132.7 Dipsomania; 331.84 Laboring classes; 613.3 Beverages; 613.8
   Nervous system
.1 Use of intoxicating drinks Beer drinking Medicinal use
   See also 616.861 Alcoholism; and Alcohol, Alcoholic, in Relativ index
.2 Total abstinence vs temperance
.3 Social drinking Wine at table Treating
.4 Traffic in intoxicating drinks License High license
   See also 336.27 Taxation
.5 Prohibition
   Including legal discussion of prohibition. See also 329.81 Prohibition party
.6 Inebriates
   Discussion, reformation. For reformatories and inebriate asylums see 362.8
.7 Tobacco
.8 Opium Hashish Chloral Ether and other drugs
.9 Gluttony and other intemperance

I79 Other ethical topics
.1 Morals of the press Newspapers
   See also journalism, 070.11
.2 Cruelty
   Societies for preventing cruelty to children and also general humane societies
   covering work for both children and animals. See also 173.4 Infanticide; 331.3
   Labor of children
.3 Cruelty to animals
.4 Vivisection
   See also 614.22 Vivisection laws
.5 Oaths
.6 Heroism Bravery Cowardis
.7 Life Dueling Suicide
   See also 394.8 Dueling as a custom
.8 Pride Covetousness Envy Anger Sloth Jelousy Hate and other vices
.9 Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues
## Ancient philosophers

See also 921.9, Biography of ancient philosophy

### Oriental philosophers

1. Chinese: Confucius, Mencius
2. Egyptian
3. Jewish: kabbala; Philo, Maimonides
4. Indian: gymnosophists
5. Persian Sufism
6. Chaldaean
7. Sabeism
8. Phenician
9. Syrian

### Early Greek philosophers

1. Ionic: Thales, Anaximander, Anaximenes
   - Materialistic. Things are as they seem
2. Italic or Pythagorean
   - Half idealistic
3. Eleatic: Xenophanes, Parmenides, Zeno, Melissus
   - Idealistic. Existence denied. Thought is the only reality
4. Heraclitus
5. Empedocles
6. Atomistic
7. Democritus
8. Anaxagoras
9. Other early Greek

### Sophistic and Socratic philosophers

1. Sophistic: Protagoras, Gorgias, Prodicus, Hippias
2. Socrates
3. Socratic
4. Cynic: Antisthenes, Diogenes, Crates, etc.
5. Cyrenaic: Aristippus, Hegesias, etc.
6. Megaric: Euclid, Eubulides, Diodorus, etc.
7. Elian and Eretrian: Phdeo, Menedemus, etc.

### Platonic Older Academy

1. Plato
   - Class his works preferably in 883.4, but discussion of his philosophy here
2. Speusippus
3. Xenocrates

### Aristotelian Peripatetic Lyceum

1. Aristotle
   - Class his works preferably in 888.5, but discussion of his philosophy here
2. Theophrastus
3. Eudemus
4. Strato
PHILOSOPHY

186 Pyrrhonist New Platonist
   .1 Pyrrhonism Skepticism Pyrrho, Timon
   .2 New Academy: Arcesilaus, Carneades, Plutarch
       See 888.8 Plutarch's works
   .3 Eclecticism: Cicero See 875.4
   .4 Alexandrian, Neo-Platonic: Philo, Plotinus, Proclus,
       Porphyry, Iamblichus See 239.4 Apologetics; 273.1 Heresies

187 Epicurean: Epicurus Lucretius See also 871.1

188 Stoic
   .1 Zeno
   .2 Cleanthes
   .3 Chrysippus
   .4 Panaetius
   .5 Posidonius
   .6 Seneca See 878.5; 872.6
   .7 Epictetus
   .8 Marcus Aurelius

189 Early Christian and medieval philosophers
   .1 Gnosticism See 273.1 Basilides, Marcion. See 273.2 Manichiasm
   .2 Patristic: Tertullian, Augustine, Clement, Origen
   .3 Arabian: Avicenna, Averroes
   .4 Scholastic: Scotus, Aquinas, Anselm, Abelard
   .5 Mystic: Reuchlin, Cornelius Agrippa, Paracelsus, Servetus,
       Böhme

190 Modern philosophers
   See also 921.1 to 921.8 Biography of philosophy, or lives may be put here with works, with references only under 920 Biography. Philosophic works are put here, not under the School or System to which the author may be thought to belong. See note under 140

191 American philosophers
   These numbers may be left blank for future use or used for the well known names among American philosophic writers given below
   .1 Jonathan Edwards 1703-58
   .2 Orestes A Brownson 1803-76
   .3 Ralph Waldo Emerson 1803-82 See 814.36
   .4 Laurens P Hickock 1798-1888
   .5 James McCosh 1811-94
   .6 Noah Porter 1811-92
   .7 Francis Bowen 1811-90
   .8 William Torrey Harris 1835-1909
   .9 Other American philosophic writers
192 British philosophers
  .1 Bacon 1561-1626  See 144 Empiricism
  .2 Locke 1632-1704  See 145 Sensationalism
  .3 Berkeley 1685-1753  See 141 Idealism
  .4 Hume 1711-76  See 824.64 English essays
  .5 Reid 1710-96  See 143 Intuitionalism
  .6 Dugald Stewart 1753-1828
  .7 John Stuart Mill 1806-73
  .8 Spencer 1820-1903
  .9 Other British philosophic writers

193 German philosophers
  .1 Leibnitz 1646-1716  See 142 Critical philosophy
  .2 Kant 1724-1804
  .3 Fichte 1762-1814  See 141 Idealism
  .4 Schelling 1775-1854
  .5 Hegel 1770-1831
  .6 Schleiermacher 1768-1834
  .7 Schopenhauer 1788-1860  See 149.6 Pessimism
  .8 Lotze 1817-82
  .9 Other German philosophic writers

194 French philosophers
  .1 Descartes 1596-1650  See 144 Empiricism
  .2 Malebranche 1638-1715
  .3 Condillac 1715-80
  .4 Rousseau 1712-78
  .5 Diderot 1713-84
  .6 Lamennais 1782-1854
  .7 Cousin 1792-1867  See 148 Eclecticism
  .8 Comte 1798-1857  See 146 Positivism
  .9 Other French philosophic writers

195 Italian philosophers

196 Spanish philosophers

197 Slavic philosophers

198 Scandinavian philosophers

199 Other modern philosophers

The heads of 180-199 are for discussions of the systems of these men and for their philosophic works not clearly belonging elsewhere, not for all their works. Mill's Logic is 160 not 192.7, but his complete works bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184-5 because of their classic prominence.
# Religion

## 200 Religion General works

| 201 | Philosophy, theories, methods |
| 202 | Compends, outlines, systems |
| 203 | Dictionaries, cyclopedias |
| 204 | Essays, lectures, disputations, addresses |

See also 252 Sermons

| 205 | Periodicals, magazines, reviews |
| 206 | Societies: transactions, reports, etc. |

General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e.g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject

| 207 | Education: theologic seminaries, training schools |
| 208 | Polygrapy: collected works, extracts, etc. |

Many collections go under a more specific hed; e.g. 240

| 209 | History of religion |

General, including ecclesiastic antiquities, statistics, etc. See also 270 for Christian religion, and 274-279 for Christian antiquities of special countries

## 210 Natural theology

Concerns evidence in nature exclusive of revelation, also Christian or skeptic discussion of specific topics (211-214, 216-218). For general defense of Christian theology, see 239 Apologetics, subdivided according to kind of criticism

## 211 Deism and atheism

Skepticism, Infidelity, Rationalism, etc.

Atheism denies existence of God. Deism accepts existence, but denies revelation and rejects Christianity. Theism believes in a god supernaturally revealed, e.g. Judaism, Mohammedanism, Buddhism, etc. Arguments from nature in support of any of these views go here

See also 231 Christian theism; 239 Apologetics; 273.8 Agnostic heresy; 149.7 Agnosticism

## 212 Pantheism Theosophy

See 147 Pantheism; 129.5 Origin of soul

## 213 Creation

See 113 Cosmology Evolution

See 375 Science

From religious viewpoint; attempts to harmonize Genesis and geology. See also metaphysics, 113 Cosmology; and natural science, 575 Evolution

## 214 Providence

See 231.5 Doctrines Theodicy

See 231.8 for Christian view
215 Religion and science  See 239.8 Apologetics
Antagonism or reconciliation between science and Bible religion. Arguments of scientists against scientists. Bridgewater treatises. For creation, see 313

216 Evil Depravity  See 149.6 Pessimism; 233.2 Sin

217 Prayer Prayer gage  See 264.1 Prayer; 248 Personal religion
Tests of efficacy of prayer

218 Future life Immortality Eternity  See 237 Future state; 128 The soul

219 Analogies Correspondences  See also 169 Logic

220 Bible General works
For similar works limited to Old or New Testament, or individual books, see specific hed below

.1 Canon Inspiration Authorship Prophecy
.2 Concordances Analyses
.3 Dictionaries Cyclopedias
.4 Original texts and early versions Codices
Heds for old and new testaments are given, as they are also used for 221 and 225
.42 Chaldee
.43 Syriac
.44 Hebrew
.45 Samaritan
.46 Other Semitic: Ethiopic, Arabic, etc.
.47 Latin, Itala, Vulgate
.48 Greek, Septuagint Aquila, Symmachus, Theodotion Hexapla
.49 Other early versions: Armenian, Coptic, Gothic, etc.
220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7 with reference from 220.44

.5 Versions of Bible Polyglots  Divide by languages, like 400
These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43

.6 Hermeneutics Exegesis Symbolism Typology

.7 Commentaries on whole Bible, and annotated editions
For notes, etc. on portions of the Bible, see the most specific hed in 221–229

.8 Special topics
Divided like general Classification; e. g. natural science of the Bible in 220.85

.9 Biblical geografy and history
.91 Biblical geografy, description, etc.
See 915.69, 913.33 Palestine

.92 Scriptural biografy
See also 922.1; 232.9 Lives of Christ

.93 Antiquities, archeology
See also 296 Jewish religion; 933 History of Jews

.94 Chronology

.95 History
See 933 Jews
Old testament: texts, introductions, etc.
Divided like 220; e.g. 221.7. Commentaries on Old Testament

Historical books

1 Pentateuch
   11 Genesis
   12 Exodus
   13 Leviticus
   14 Numbers
   15 Deuteronomy
   16 Decalog

2 Joshua
3 Judges and Ruth
4 Samuel
5 Kings
6 Chronicles
7 Ezra
8 Nehemiah
9 Esther

Poetic books

1 Job
2 Psalms
   Authorship and chronology
   Special groups
   Messianic; Greater Hallel; Lesser Hallel; Vesper psalms; Penitential, 6, 33
   38, 51, 102, 130, 143; Hebraic five books, Psalms 1-41; 42-72; 73-89; 90-106;
   107-150

3 Liturgic use by Christians
   Metrical versions
   See 264.038 Anglican psalter; 245 Hymnology

4 Commentaries on psalms

5 Proverbs
6 Ecclesiastes
7 Song of Solomon, or Canticles

Profetic books

1 Isaiah
2 Jeremiah
3 Lamentations
4 Ezekiel
5 Daniel
6 Hosea
7 Joel
8 Amos
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227.9 Catholic epistles
  .91 James
  .92 Peter 1
  .93 Peter 2
  .94 John 1
  .95 John 2
  .96 John 3
  .97 Jude

228 Apocalypse

229 Apocrypha
  .1 Esdras 1, 2
  .2 Tobit, Judith, Esther
  .3 Wisdom
  .4 Ecclesiasticus
  .5 Baruch, Epistle of Jeremy, Song of the three children
  .6 Story of Susanna, History of Bel and the dragon, Prayer of Manasses
  .7 Maccabees 1, 2, 3, 4
  .8 Pseudo gospels
  .9 Apostolic epistles and canons Clementines See 281.1

230 Doctrinal Dogmatics Theology

General doctrinal works may be subdivided by churches like 280-289. See also 252.3
Class here polemics either offensiv or defensiv, when distinctly doctrinal; but class in 280 history of a sect, even if largely controversial and of a limited period. Class controversy about a special doctrin with its subject; e.g. controversy on the atonement 232.3

231 God Unity Trinity
  .1 God the Father, Creator
  .2 God the Son, Redeemer
    Second person of the Trinity, irrespectiv of his appearance on earth as the historic Christ
  .3 God the Holy Ghost, Giver of Life, Sanctifier
  .4 Divine attributes: omniscience, omnipresence, omnipotence
  .5 Divine providence See also Natural theology 214
  .6 Divine love and wisdom
  .7 Divine law and miracles
  .8 Theodicy
    Vindicatjon of God's justis in permitting evil. See also Natural theology, 214
  .9
232 Christology

.1 Incarnation Messiah
.2 Logos, the Word of God
.3 Atonement
.4 Sacrifice
.5 Resurrection
.6 Second coming See also 236.7 Second adventists
.7 Judgment
.8 Divine humanity Divinity of the man Jesus, pro and con
.9 Lives of Christ

233 Man

.1 The fall
.2 Sin
.3 Moral and spiritual heredity See also Biology, 575.1; Psychology, 136.3; Metaphysics, 129.2
.4 Accountability
.5 Natural and spiritual body
.6 Personality See also Metaphysics, 126
.7 Freedom See also 234.9; 123; 129
.8
.9

234 Salvation Soteriology

.1 Grace
.2 Faith
.3 Redemption
.4 Regeneration
.5 Repentance
.6 Obedience
.7 Justification
.8 Sanctification
.9 Predestination and freewill See also 233.7; 123; 129

235 Angels Devils Satan

236 Eschatology Last things

.1 Death
.2
.3 Millennium
.4 Intermediate state Sheol Hades
.5 Purgatory
.6 Paradise Limbus patrum
.7 Limbo Limbus infantum
.8 Resurrection
.9 Judgment See also Christology, 232.7
RELIGION

237 Future state See also Natural theology, 218
.1 Eternity
.2 Immortality
.3 Conditional immortality
.4 Heven
.5 Hell Gehenna
.6 Retribution Future punishment
.7 Eternal punishment See also 289.1 Universalists

238 Creeds Confessions Covenants Catechisms
Divided more closely if wished like 280–289; e.g. 238.19 Greek church
.1 Apostles, Nicene, and Athanasian creeds
.2 Creed of Pius 4 (Trent) and later Roman
.3 Anglican 39 articles, A. D. 1551 See also 264.037 Liturgy
.4 Continental protestant Lutheran Calvinist Dort
.5 Westminster Saybrook Cong’l Cambridge Savoy
.6–9 Of other sects Divided like 286-289

239 Apologetics Evidences of Christianity
If preferred, courses of apologetic lectures may be kept together; e.g. 239.01 Bampton; 02 Boyle; 03 Hulsean; 04 Bohlen; 05 Paddock; 08 Miscellaneous. More usefully each book is clas’d under the most specific head that will contain it
See also natural theology 211-218 and doctrines 231-237 for discussion of separate topics
.1 Apostolic age
.2 Against the Jews
.3 Against the heathen
.4 Against the Neo-Platonists See 273.1 Gnostic heresy
.5 Against the English and Scotch deists See 211 Deism
.6 Against the French encyclopedists
.7 Against the rationalists See 211 Natural theology; 273.8 Agnostic heresy; 149.7 Agnosticism
.8 Against the scientists For nonchristian view, see 215
.9 Other special denials
240 Devotional Practical

241 Didactic
Specifying the Christian's duty to do and to avoid For Catechisms see 238

242 Meditativ, contemplativ
Consolatory. See also 218 Personal religion

.1 Thomas à Kempis

243 Hortatory, evangelistic
Urging sinners to Christian repentance

244 Miscellany: religious novels, Sunday school books, allegories, satires, etc.
But class Bunyan in 823.42 because of his literary prominence

245 Hymnology Religious poetry
Hymns without music. For hymns with music see 783.9
Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked
See also 723.5 Psalms; 264.038 Psalter

246 Ecclesiology Symbolism Religious art
246-7 cover religious bearings. For art side see 700

.1 Byzantine and Gothic ecclesiology
See 723 Medieval architecture; 726 Religious architecture

.2 Primitiv church and heathen art

.3 Images in churches Iconoclasts

.4 Protestantism and religious art

.5 Emblematic and cryptografic art: catacomb symbols

.6 Liturgic symbolism: altar, colors, lights
See also 264 Public worship

.7 Evangelistic use of music and art, pictorial and plastic:
Della Robbias

.8 Eucharistic music: Ambrose, Gregory the Great Later development
See also 783 Sacred music; 264.2 Public worship

.9 Sacred furniture Vestments Vessels Ornaments, etc.

.1 Font Baptistery Lectern Pulpit

.2 Tabernacle Rood screen Reredos

.3 Sculpture and mortuary design
See 718 Monuments; 726.8 Mortuary buildings; 730 Sculpture

.4 Illumination Mosaics Enamels Stained glass
See also 745 Ornamental design; 748 Stained glass

.5 Fresco and religious painting See also 750 Painting

.6 Pallium Miter Crozier Ring

.7 Vestments and altar cloths

.8 Eucharistic vessels See also 265.3 Sacraments

.9 Ornaments, etc: crucifix, banners, thurible, incense
Personal religion  Asceticism
See also 273.2 Ascetic heresy

Family devotions  See 264 Public worship

Homiletic  Pastoral  Parochial

Homiletics  Preaching  See 264.6 Public worship
Divided like 252, for matter about special kinds of sermons

Sermons
When too varied for any of the subheads .1—.9, may be divided with .0 by churches and sects, like 280; e.g. protestant episcopal sermons 252.03, but a collection of bishop’s addresses 252.1. Sermons on specific topics are more useful, like other pamphlets, cast with the topics, e.g. a sermon on family devotions is 249, not 252.4; on strikes, 331.89. The the 0 hedis below ar for collections and cross references, they may be used for separate sermons if prefered

Episcopal charges  Pastorals

Controversial  Polemic

Doctrinal  Dogmatic  See also 230 Dogmatics

Practical  Devotional

Academic  Educational  See also 378.7 Baccalaureates

Political  Public occasions and duties
Thanksgiving and Fast day

Consecration  Ordination  Installation
See also 265.4 Ordination; 265.9 Consecration; 262.16 Orders

Expository

Memorial  Obituary  Biografic  Historical
Memorial of a special church goes with that church in 280. See also 920 Biografy

Pastoral visitations, evangelistic

Cleric support  Celibacy
See also 176.2 Sexual ethics; 248 Asceticism; 613.89 Hygiene

Brotherhoods  Sisterhoods
In the parish. For Monastic orders, see 271

Societies for parish work: gilds, sodalities
Local societies. Discussion of desirability of such work. For general societies see 206 and 267

Parochial schools  Libraries, etc.
See also 377.5 Education; 027.8 Parish libraries

Parish care of sick, fallen, etc.
See 265.8 Ministry of sick; 176.5 Social evil

Other ministrations and work
260 Church Institutions and work

261 The church
   Its influence on morals, civilization, etc. Relation to social questions, laboring classes, etc.

   .1
   .2
   .3 Church vs barbarism
   .4 Church and morals
   .5 Church and intellectual development See also 377.8 Education
   .6 Church and civilization
   .7 Church and civil government See 172.3 State ethics; 322 Church and state
   .8 National churches vs organic unity
   .9

262 Ecclesiastic polity

   .1 Ministry
      .11 Apostolic succession
      .12 Episcopate
      .13 Papacy Primacy Papal supremacy; infallibility, 18 July 1870
      .14 Priest Presbyter Minister Lay ministry
      .15 Deacon Deaconess Evangelist
      .16 Orders Ordination See 265.4 Sacraments; 252.7 Sermons
      .17 Episcopal
      .18 Presbyterian
      .19 Congregational
   .2 Parish Congregation See 250 for Parochial work
   .3 See Diocese Cathedral system
   .4 Council Synod Presbytery Congregation Convention Polity only, here. Proceedings go with churches, 281-9
   .5 General or ecumenic council See also 270.2
   .6 Canons Decrees
   .7 Traditions
   .8 Authority Church and ministerial Private judgment
   .9 Disciplin Courts Trials For Canon law see 348

263 Sabbath Lord's day Sunday

   .1 Hebraic sabbath
   .2 Modern sabbath Seventh day
   .3 Lord's day Christian Sunday
   .4 Sunday observance
      .5 Work
      .6 Amusement
      .7 Opening libraries and museums See also 024.4 Library rules
   .8 Sunday laws
   .9
RELIGION

264 Public worship Divine servis Ritual

Prayer books. See also 246, Ecclesiology; 247 Sacred furniture. General works are divided with .o by churches like 280; e.g. Roman catholic prayer book 264.02. Under various churches the services may be further divided, as e.g.

.03 Anglican and American P. E. ritual
.031 Calendar Festivals and fasts See also 529.6 Chronology
.032 Lectionary and rubrics
.033 Morning prayer Litany
.034 Evening prayer Vespers Compline
.035 Sacraments, ordinances, and servises See also 265 Sacraments
.036 Collects, epistles and gospels
.037 Ordinal Articles Creeds See also 238.3 Creeds, doctrins
.038 Psalter and other See 223.5 Psalms; 245 Hymnology
.039 History of successiv prayerbooks
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.1 Prayer Extempore Liturgic
See also 248-249 Private and family prayer
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.2 Music Singing Instrumental Praise meeting
See also 783 Sacred music, 246.7, 246.8 Ecclesiology
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.3 Scripture readings
.
.4 Antiphonal or responsiv readings
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.5 Confessions of faith Creeds See also 238 Creeds
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.6 Sermons Exhortations Instructions
See also 251 and 252 Preaching and sermons
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.7 Prayer and conference meetings
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.8 Class and covenant meetings Love feasts
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.9 Sacramentals See also 265 Sacraments

265 Sacraments Ordinances

.1 Baptism
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.2 Confirmation Church fellowship
.
.3 Eucharist Holy communion Sacrifice
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.4 Holy orders Ordination See also 262.16 Ministry; 252.7 Sermons
.
.5 Marriage See also 173 Ethics of the family
.
.6 Penance Confession Absolution
.
.7 Extreme unction Viaticum
.
.8 Ministry of sick and ded: faith cure, healing, burial
.
.9 Consecration Dedication See 262.16 Ordination; 252.7 Sermons

266 Missions: home and foren

Subdivided by churches, like 280. See also 269 Parish missions; 377.6 Missionary schools.

Missions in special countries or places covering the work of several sects go under the geografically divided Religious history 274-279. The mission of a single sect in a special country or place goes with the history of the sect in 282-289
Associations

General societies demanding of members active personal work. For local societies, see 256. For Bible, tract, and similar general societies see 206

1 Religious societies of both men and women

II U. S. Christian commission

15 Salvation army

267.2 Religious societies of men

For Y. M. C. A. see 267.31; missionary societies, 266; ministerial education societies 207; Bible societies, 206

21 17th century or earlier

22 18th century

23 19th century; interdenominational and undenominational

231 In educational institutions

Divided like 940-99. If preferred, cancel .231 and put all together in .234-9. For work of Y. M. C. A. see 267.361

232 Nasmith societies

233 Young men's Christian unions; i.e. not "evangelic," etc.

234-239 Others Divided like 940-99

24 19th century; denominational

241 In educational institutions

Divided like 282-289. If preferred, cancel .241 and put all together in .242-9. For work of Y. M. C. A. see 267.361

242-249 Others Divided like 282-289

3 Young Men's Christian associations

Activ membership confined to members of "evangelic" churches

To shorten the number, X may be used for 267.3 throughout; i.e. X 19 would mean "Work in small towns"

31 Objects, field and extension

311 Need and objects

312 Limits: for and by young men and distinctively religious

313 Relation to the church

314 International work

315 National work

316 State work

317 District work

318 Work in towns able to support a general secretary

319 Work in small towns

32 Buildings See also library buildings 022

321 Location Provision for growth

322 Materials and protection against fire

323 Plans Number, size and arrangement of rooms

324 Reception, social rooms and parlors

325 Library Reading, lecture, and class rooms See 022

326 Administration and special rooms Boys' rooms

327 Physical culture rooms

328 Lighting, heating, and ventilation

329 Fixtures, furniture, and fittings
267.33 Organization

- Incorporation  Constitution and bylaws
- Branches and suborganizations  Including women's work for young men
- Managers  Officers serving without pay
  1  Trustees  (in charge of real estate)
  2  Directors
  3  President
  4  Treasurer
  5  Recording secretary
  6  Executive or corresponding secretary

- Standing committees
  1  Importance; enlistment and composition
  2  Principles and methods of organization
  3  Names and duties  See also Department work, 267.35

- Membership
  1  Membership committee
  2  Classes of membership
  3  Securing and retaining members
  4  Development of active members
  5  Associate membership and its relations

For members' meeting see Social work, 267.3544

34 Salaried officers: duties, qualifications, training

- General secretary and assistants
  Including international and state secretaries.  See also 267.34-316
  1  Office and work
  2  Qualifications
  3  Relationship
    31  To churches and pastors
    32  To officers, directors, and committees
    33  To other employees
    34  To the members
    35  To the religious work
    36  To the business community
    37  To fellow secretaries
  4  Personal hints
    41  Considering a call and beginning work
    42  Spiritual and intellectual growth and health
    43  Office work, system, and economy
    44  Personal appearance and conversation
    45  Ladies' company
    46  "Secretaryism"

- Librarian and assistants
  May be divided like 267.341.  See also Library administration, 025 and 267.3532

- Physical director and assistants
  May be divided like 267.341.  See also 267.355 and 613.7

- Other salaried officers

- Training; need and methods, demand and supply
- Training schools
- Training by apprenticeship

- Institutes

- Conferences
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<td>6 Debt, taxes, etc.</td>
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<td><strong>Social department</strong></td>
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<td>3 Savings bureau</td>
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<td>4 Visitation of sick</td>
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<td>5 Physical work</td>
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<td>6 Information, relief, etc.</td>
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<td><strong>Janitor's department</strong></td>
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<tr>
<td>1 Janitor's department</td>
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267.36 Work among special classes

Y. M. C. A. only; other religious societies of men go in 257.2

.361 College and school
  1 History and methods in general
  2 International reports Including Northfield meetings
  3 International periodicals

For state and sectional reports and periodicals see 267.39

.362 Railroad employees
  1 History and methods in general
  2 International reports

.363 Commercial travelers

.364 Poren-speaking

Divided like 400; e. g. 3 German, 4 French, 5 Italian, etc.

.365 Negroes

.366 American Indians

.367 Soldiers U. S. Christian commission, 267.11

.368 Sailors

.369 Other Policemen, firemen, fishermen, lumbermen, mutes, etc.

.39 History, reports, periodicals, etc. For methods see 267.314-319

.391 International history

.392 International reports, etc. Reports, etc. of international college and railroad work go in 267.361-362

.393 International periodicals

.394-399 Special countries Divided like 940-999

.4 Religious societies of women

.41

.42

.43 19th century; interdenominational and undenominational

.431

.432 Women's Christian associations

Divided like 267.3. To shorten the number, W may be used for 267.432 throughout; e. g. W 1 would mean 'Objects, field and extension'

.433 King's daughters

.44 19th century; denominational Divided like 282-289

.5 Young Women's Christian associations

Activ membership confined to members of 'evangelic' churches

Divided like 267.3-399

To shorten the number Y may be used for 267.5; e. g. Y3, Organization, instead of 267.53

.6 Religious societies of young people For Sunday schools see 268

.61 Interdenominational and undenominational

.613 Young people's society of Christian endeavor

1 Reports, etc.

2 Periodicals

.62 Denominational Divided like 282-289

.7 Religious societies of boys Not Y. M. C. A. Divided like 267.6

.8 Religious societies of girls Not Y. W. C. A. Divided like 267.6

268 Sunday schools

269 Revivals Retreats Parish missions
Religious history

Ancient period: to conversion of Germans

See 281.1-281.4, for collected works of early theologic writers, etc. 270 is for religious history of these periods.

For religious history of special countries, either general or for special periods, see country divisions, 274-279; e.g., English reformation, 274.2

.1 Apostolic Nativity to Constantine

.2 Period of ecumenic councils Centralization A.D. 325-787

The Greek church acknowledges these 7 councils as really Ecumenic. Anglicans generally recognize only the first 6. See also 262.5 Polity

.21 First of Nice A.D. 325
.22 First of Constantinople 381
.23 First of Ephesus 431
.24 Chalcedon 451
.25 Second of Constantinople 553
.26 Third of Constantinople 680-81
.27 Second of Nice 787

Medieval period: Charlemagne to Luther

270.3 Charlemagne Papacy vs empire A.D. 787-1054
Church planted among the Germans. Feudalism. Great schism, east vs west, 1054

.4 Hildebrand Roman supremacy A.D. 1054-1200
Temporal power. Scholasticism. First 3 crusades

.5 Later medieval Renaissance A.D. 1200-1517

Modern period: Reformation to present

.6 Reformation Counter reformation A.D. 1517-1648

.7 Peace of Westphalia to French revolution A.D. 1648-1789
Union of church and state. Deism. Materialism

.8 Modern Rationalistic A.D. 1789-
Holy alliance. Greek church in Russia. Atheism. Pantheism. Protestant missions

271 Monastic orders Monasteries

Including monasticism and monastic foundations
See also 255 Brotherhoods; 726.7 Architecture of monasteries, etc.

.1 Benedictines founded A.D. 529
.12 Cistercians “ “ 1098
.125 Trappists “ “ 1150
.2 Dominicans “ “ 1170
.3 Franciscans “ “ 1212
.36 Capuchins “ “ 1525
.4 Augustinians “ “ 1256
.5 Jesuits “ “ 1540
RELIGION

271.6 Passionists, 1720 Redemptorists, 1732
.7 Lesser Roman orders
.71 Carthusians, founded A. D. 1086
.73 Carmelites 12th century
.75 Sulpicians, 1642
.76 Oblates
.77 Lazarists, 1624
.78 Christian Brothers, 18th century De la Salle
.79 Other lesser Roman orders
.8 Anglican brotherhoods
.9 Sisterhoods
.91 Sisters of Charity Vincent de Paul founded A. D. 1629
.92 Sisters of Mercy " Augustinian " " 1831
.93 Ladies of the Sacred Heart Jesuit " " 1800
.94 Soeurs de bon Secours Nurses
.95 Little Sisters of the Poor
.96 Contemplativ Cloistered nuns
.97 Other Roman sisterhoods
.971 Carmelites
.972 Second of St Dominic
.973 Franciscans
.974 Ursulines A. D. 1537
.975 Of the Visitation " 1610
.976 Of St Joseph " 1650
.977 Of the Presentation " 1777
.98 Anglican sisterhoods
.99 Other protestant orders Deaconesses (Kaiserwerth)

272 Persecutions
See also special sects, 280; and history of special countries, 940-999
.1 Apostolic church by imperial Rome 1st-4th century
.2 Heretics by Inquisition or Holy Offis Since 1470
.3 Waldenses and Albigenses 11th-12th century
By Roman church. See also 283.4, Protestant sects
.4 Huguenots French protestants
By Roman church. St Bartholomew, 1572. Edict of Nantes, 1598; revocation, 1685
See also 284.5 Protestant sects
.5 Molinists and Quietists
By Roman catholics. Close of 16th century to destruction of Port Royal, A. D. 1709. See also 273.7 Heresies
.6 Marian Anglican reformers by Mary A. D. 1553-58
.7 Elizabethan Later 16th century
Persecution of Roman church by Anglicans
.8 Quakers Baptists Witches Later 17th century
Persecutions by puritans. See also 133.4 Witchcraft
.9 Other persecutions
273 Heresies

For the history of special doctins see 230-239, Doctrinal theology

.1 Gnostic First 3 centuries
Reaction of pantheism and heathen philosophy on Christianity. See also 189.1
Gnostic philosophy; 186.4 Neo-Platonism; 239.4 Apologetics

.2 Manichæism Parsee dualism 3d century
Opposition of good and evil. Mystic. Ascetic. See also 149.3 Mysticism; 248 Asceticism; 280.8 Shakers, Mystics

.3 Sabellian
That the Trinity is not of persons, but of successiv manifestations. About 250 A. D. Held by Schleiermacher, Bushnell, Swedenborg

.4 Arian Denying divinity of Christ 4th century

.5 Pelagian 5th century
Denying original sin and supernatural grace

.6 Antinomian 16th century
Denying force of law, under Gospel dispensation

.7 Molinist and Jansenist Pietists A. D. 1580-1700
Port Royal. Augustine's doctrin of grace ss the Roman doctrin of good works

.8 Agnostic
Denying possibility of revelation. Holding that theology and the supernatura lie outside the domain of human knowledge. See also 149.7 Philosophy; 211 Atheism; 239 Apologetics

.9 Minor heresies

274-279 General religious history by countries
274-279 is divided geografically like 940-999

280 Christian churches and sects
281-289.8 may be subdivided where needed like 940-999

281 Primitiv and Oriental churches
See also 270.1-270.3, Early religious history

.1 Apostolic church, to time of great schism, A. D. 1054
Works of apostolic and Christian fathers here; use 270 for religious history of these periods. See also 229.9 Apocryphal books

.2 Primitiv apostolic, to end of first century

.3 Ante-Nicene, A. D. 100-325 See also 270.1

.4 Post-Nicene, A. D. 325-1054 See also 270.2-3

.5 Oriental churches

.6 Armenian

.7 Coptic

.8 Nestorian

.9 Eastern or Greco-Russian or Holy orthodox church
The great schism, mutual excommunication, A. D. 1054, separates the Catholic church into Eastern and Western churches, which from this time have separate histories

282 Western or Roman catholic church
Divided geografically like 940-999

283 Anglican and American P. E. church
Divided geografically, when needed, like 940-999; e. g. the Anglican church in Australia is 283.9; in India, 283.54
Continental protestant sects Protestantism

1. Lutheran Reformd See also 285.7, Reformd church in America
   German reformd church in United States
2. Calvinist Zwinglian See 285, and 286.1
3. Hussites Anabaptists Leyden See 285.1
4. Albigenses Waldenses Vaudois See 286.3
5. Huguenots See 272.4
6. Moravian
7. Scandinavian Swedish
8. Old catholic
   Here are class those denying papal infallibility, or for other cause cut off from Rome, tho catholic in other respects
9. Other

Presbyterian Reformd Congregational

Next 2 subdivisions are sectarian, not geographic

1. Presbyterian church in America
   Subdivided geographic: e.g. 285.173 Presbyterian church in United States, 285.175 Southern presbyterian church
2. Presbyterian church in Great Britain
3. Cumberland presbyterian
4. United presbyterian
5. Reformd presbyterian
6. Minor presbyterian sects
7. Reformd (Dutch) church in America e.g. 285.77471, in N. Y. city
8. Congregational
9. Other

Baptist Immersionist

1. Calvinistic or Regular
   Including Arminian or general baptists, r. united with Calvinistic in 1891
2. Free wil
3. Seventh day
4. Old school (Primitiv, Antimission or Hardshel)
5. Other baptist sects
   May be class if preferred with any of the larger sects which they most closely resemble or of which they are offshoots
6. Disciples (Campbellite or Christian)
7. Adventists
9. Other immersionists
287 Methodist
.1 Wesleyan methodist
.2 Calvinistic methodist
.3 Welsh Calvinistic methodist
.4 Primitiv methodist
.5 Primitiv Wesleyan
.6 Methodist episcopal
.7 Methodist protestant
.8 African methodist
.9 Minor methodist sects

288 Unitarian  See also 273.4

289 Other Christian sects
.1 Universalist
.2
.3
.4 New church or Swedenborgian
.5 Christian science
.6 Quaker  Friends  Hicksites
.7 Mennonite
.8 Shaker  Mystic  For  Mystic heresy see 273.2
.9 Minor Christian sects

290 Ethnic and other religions
Including comparative religion and general histories of religion where an equal or
minor place is given to Christianity

291 Comparativ and general mythology
292 Greek and Roman mythology
293 Teutonic and Northern mythology
294 Brahmanism  Buddhism  For other Indic religions, see 299.11.  See also 891.2 Sanskrit literature; 177.5 Caste
295 Parseeism  Zend Avesta  For other Iranian religions, see 299.15.  See also 891.52 Zend literature
296 Judaism  For other Semitic religions, see 299.2
297 Moha medanism
298 Mormonism  See also 173.2 Polygamy
299 Minor nonchristian religions
Subdivided ethnically like 491-499; e. g. Egyptian religion, 299.31; Afghan religion,
299.138
Sociology

300 Sociology in general

300-309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on Education is 370.5, not 305, which is only for periodicals on Sociology in general. In Sociology, most works in these forms are limited to one division; e.g. to Political economy, Education, Law, etc. All these have the same subdivision of General works; i.e. essays on the various divisions are 310.4, 320.4, 330.4, and so on to essays on Manners and Customs in general, 390.4. A naught in any class number shows the subject to be general, not specific.

301 Philosophy, theories

See also 901 Philosophy of history; 320.1 Theory of state

302 Compendes, outlines

303 Dictionaries, cyclopedias, etc.

304 Essays, lectures, addresses

305 Periodicals, magazines, reviews

306 Societies: transactions, reports

307 Education: teaching, study, etc. See also 370

308 Polygrafy: collected works, extracts, etc. Put here collected works of statesmen; e.g. works of Adams, Jefferson, etc.

309 History of social science

Social surveys

Divided like 910-999 Better class by general libraries in 914-919

310 Statistics

311 Theory, methods

Science of statistics

Principles of tabulation, graphic charts, etc. Methods of gathering data

312 Population (progress of) Vital statistics: births, deaths, mortality, longevity

See also 614.1 Registration and vital statistics

Statistics are divided geographically like 930-999; e.g. Population of Maine 312.741

313 Special topics

314-319 General statistics

Divided geographically like 940-999

The statistics of any special matter are put with the subject, e.g. of Domestic animals in 636, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. Statistics of New York city would be 317.471, but the statistics of Medicin in New York would be put with 610, Medicin; i.e. the topic outranks the locality.
Political science

.1 Theory
   .11 Origin of the state
   .12 Nation and territory
   .121 Ethnografic
      People of same race comprise the nation
   .124 Geografic
      Unity of territory
   .126 Expansion Acquisition of territory
      By discovery
      1 occupation and possession
      3 cession Annexation
      5 purchase or exchange
      7 conquest or revolution
   .127 Alienation of territory
   .128 Frontiers Boundaries
      Natural boundaries
      1 Mountains
      2 Rivers
      4 Lakes
      6 Coast
      Artificial boundaries
   .15 Nature, entity, concept of the state
   .151 Juridic theory
   .152 Political theory
   .153 Social and evolutionary theories
   .154 The state as a moral organism
   .157 Soverentty
      See also 341 International law
   .158 Allegiance Loyalty, etc. Patriotism
      See also state ethics 172.1 Duties of citizens
   .159 National growth and decay
   .18 Symbolism, emblems: arms, flag, seal, etc.
      Better classt in 929.8 and 929.9

               Compends, statecraft
               Dictionaries
               Essays
               Periodicals
               Societies
               Education
               Polygrafa
               History of political science, divided like 930-999

Form of state

.01 Simple state Soveren state
.02 Mixt state
   .021 Federal state Bundestaat Federation
   .022 Confederation of states Staatenbund
      Union of sovereign states Alliance
   .023 Suzerain states
   .025 Semisoveren, dependent and vassal states
   .026 Mediatized state
   .027 Protected state
      Protectorates, spheres of influence
   .028 Vassal states
   .03 Empire, imperialism
   .04 World state
   .041 Internationalism
POLITICAL SCIENCE

321.07 Ideal state  Utopias
   See also 333.2 Communism and socialism
   .09 Change of form of state
   .092 Revolution
   .094 Coups d'état

.1 Family  Patriarchal age
.2 Tribes  Clans  Marks  Village communities
   See also 333.2 Community ownership of land

.3 Feudalism
.4 Democracy  Pure; e. g. Athens, town meeting
.5 Aristocracy  e. g. Italian republic; medieval German cities

.6 Absolute monarchy
.7 Constitutional monarchy
.8 Republic  Modern democracy, delegated powers

322 Church and state  See also 172.3, State ethics; 261.7, The church
   Political aspects of combination or separation of state and church affairs

323 Internal relations with groups and individuals
   .1 Movement and questions of nationalities, races and languages
      Divided by country like 930–999; e. g. struggle of nationalities in Austria 323.1436
      For emigrant nationalities in a country see 325
   .2 Political struggles and troubles
      Revolutions, revolts; riots, uprisings. See also 321.09
   .3 The state and social groups
      Classes, orders, estates
      .31 Nobility, aristocracy; wealthy class
      .32 Middle class, bourgeoisie
      .33 Proletariat, laboring classes, pesantry
         See also political economy, 331.8 Laboring classes
      .34 Serfs  Villenage  See 326.3 Serfs and serfdom
   .4 The state and the individual
      Natural rights, individual rights, individualism
      .41 Equality of individuals, races, etc.
      .42 Equality before the law; justis, etc.
      .43 Life
      .44 Liberty
      .441 Freedom of action
      .442 " conscience
      .443 " speech
      .444 Academic freedom  See 378.121 Freedom of teaching
      .445 Freedom of the press
      See also journalism 070.13; administration 351.75
      .446 Freedom of drama
      .447 " art
   .45 Family
   .46 Property
Right of assembly, association
Right of petition
Limitation and suspension of individual rights and guaranties
Martial law
State of siege
Citizenship
Laws Divided by country like 930-999
Naturalization
Alien races and citizenship
Loss and restoration of citizenship
Duties and obligations of citizens
Scholar as citizen
Rights of aliens
Eligibility to office

Suffrage
Qualifications, conditions and bases
Age
For sex see 324.3 Woman suffrage
Property
Household suffrage
Education Competency Capacity
Nationality Race Religion
Residence, domicile
Length of residence
Voting by soldiers
„ „ students
Exclusion from and suspension of suffrage
Incompetency, incapacity
Insane, idiots See also 324.14
Bankruptcy
Pauperism
Conviction of crime; bribery, selling vote
Government servis
Military servis: soldiers and sailors
Civil servis, police officers
Other special classes
Students, domestic servants, etc.

Forms of suffrage Systems Voting, etc.
Electoral systems
Universal suffrage
Partial suffrage, limited
Plural vote
Class vote, class system
Compulsory voting
Short ballot
Aiming to reduce number of elective offices
Constituencies and representation of interests

Single member constituency
Scrutin d'arrondissement

Multimember constituency
Scrutin de liste, block vote, general ticket

Minority representation
Single vote, limited vote, cumulative vote, proxy system

Proportional representation
Preferential: alternative, contingent, transferable vote. Quota: simple, Droop, d'Hondt, substitute or Gove method. Graduated system. List system. For second ballot see 324.248

Economic and social groups

Selection of candidates
Declaration and presentation of candidacy

Nomination of candidate

Party organization Conferences

Caucus primary

Direct "

Platform

Voting procedure

Electoral lists: formation, revision

Registration system
Poll lists and tally sheets

Jurisdiction Examination of credentials
Appeal, petition

Open voting

Secret ballot

Voting place

Absent voting Voting by mail
Traveling salesmen, railway employees, mail clerks, etc.

Second ballot

Indirect voting Electoral college

Ballot

Unofficial

Official

Party ballots

Blanket ballots

Party columns

Offis groups Australian ballot

Voting machines

Results and announcements
Inspectors of election, meeting, etc.

Count of ballot

Majority elects Absolute majority

Plurality " Relativ majority

Announcement of vote
324.27 Corruption
   Electoral fraud
      .271 Bribery and undue influence: intimidation, selling votes
      .272 Fraud in voting: personation, repeating, illegal voting, colonizing
      .273 Election contributions and expenditures
         Limitations on expenditures; publicity. Restriction on contributions, political assessments
      .274 Fraud in counting
         Miscount of ballots; certification of false returns
      .276 Election contests
      .277 Suffrage reform
   .3 Woman suffrage
   .4-.9 Suffrage by country
      Divided like 940-999

325 Colonies and immigration
   .1 Immigrants See also 323.6 Citizenship
   .2 Emigrants
      Divided by country of origin like 930-999. This brings together material on
      emigrants of a special country or race; e.g. Chinese emigrants 325.251. Material
      on emigrants is usually most important in respect to country of origin, so is best
      class in 325.2. Most libraries will have little except on immigrants to their own
      country, hence in United States 325.2 will relate almost wholly to specific national-
      ities in United States; e.g. 325.26 Negro question.
   .3 Colonization
      Divided by mother country like 930-999; e.g. 325.342 British colonies. This
      brings together colonies planted by a special country, but does not specify
      location of colony.
   .4-.9 In special countries
      Divided like 940-999, by country in which planted; e.g. 325.73. Foreign population
      of United States. See note to 325.2 for a given nationality.

326 Slavery See also 973.7 Civil war; 371.974 Education of freedmen
   .1 Slave trade
   .2 Coolies and contract slaves
   .3 Serfs and serfdom
   .4 Antislavery documents
      " periodicals
   .5 " societies
   .7 Proslavery
   .8 Emancipation and freedom
   .9 History of slavery
      Divided geographically like 930-999
   .92 Biography of slaves

327 Foren relations
   Divided geographically like 930-999

328 Legislation, lawmaking
   Legislative bodies and annals
   .1 Parliamentary law
328.2 Legislation

.21 Interpretation of law
.22 Uniform laws
  Uniformity of law on same subject in different states or countries
.23 Codification
.24 Policy Tendencies
.241 Overlegislation
.243 Special legislation For private and local bills see 328.378
.25 Legislatur powers
.251 Juridic "
.252 Executiv "
.253 Implied "
.256 Restrictions and checks on legislation See also 328.349
.26 Direct legislation
.261 Initiativ
  Voters by petition originate legislation
.264 Referendum
.27-.29 Subjects of legislativ action Divided like 351.7-351.9

3 Legislatures

Summary

328.3 Legislatures
  .31 Upper house
  .32 Lower "
  .33 Membership Election
  .331 Conditions of membership, eligibility
    Age, residence, property Membership without voting power
     Exofficio members
     1 Cabinet and government officers
     2 Expressidents
     3 Other exofficers
     4 Clergy, bishops
  .333 Compensation
    Annual salaries, per diem payment. Milage, traveling expenses. Special
    sessions. See also 328.347 Privileges
  .334 Representation
    of states
    1 territories
    2 colonies and dependencies
    3 classes
    4 Universities, landowners, Irish and Scotch peers
    5 of election districts Apportionment
      Equalization of representation; unfair apportionment; rotten boros'
      reapportionment
    6 Gerrymandering
    9 Number of members
Methods of appointment

1. Appointment by government or crown
   For life or for a term

2. Hereditary right

3.

4.

5. Election by direct vote: plurality or majority

6. Length of term
   Entire or partial renewal of membership; holdover member

7. Vacancies, resignations
   Method of filling vacancies; special elections

8. Contested elections

- Official membership lists, directories
- Unofficial lists or directories

Prerogatives and powers

- Power over revenue and appropriation
  " to judge of elections
  " over members
  Power to investigate or punish members

- Power of expulsion
  " over government officers
  Power of investigation for impeachment, see 331.90-.99
  " to imprison citizens

- Treatymaking power

- Privileges
  Franking privilege, postage and stationery; railroad passes; free distribution of books

- Immunities
  From arrest

- Restriction
  Offshoring Instructions by electors
  Direct mandate See also 328.26 Direct legislation

Sessions

- Method of summoning
  Parliamentary writ

- Date of session
  Fixed or movable

- Frequency of sessions
  Annual, biennial, quadrennial

- Length of session Life of legislature

- Recess

- Adjournment Prorogation Dissolution

- Executiv session: procedure

- Special session Extra session
Internal organization and discipline
Verification of powers, credentials
Oath of officers
Officers: appointment, election
1. Presiding officer, speaker
2. President pro tem
3. Secretaries, clerks
   Bill clerk Enrolling, engrossing clerks
4. Sergeant at arms
5. Pages, messengers, door keepers
6. Payment of employees: gratuities, fees, extra pay
   Unnecessary attendants
7. Committees
   Standing, special, joint
8. Special commissions
   For investigation, not administrative commissions
Records
Supplies: daily papers, postage stamps
   Telegraph and telephone bills
Discipline: suspension, investigation
Bribery Illegal practices
   Graft bills, blackmail
Lobbying
   Including that by heads of departments and institutions
Legislative procedure
Rules, manuals
   See 8 under 328.4.-9 divided by country
Petition, addresses
   Parliamentary inquiries, commissions
   Recommendations from executive
Bills
   Technical: bill drafting, introduction
   Printing, enrolling, engrossing
Action by legislature before passage
1. Readings: 1st, 2d
2. Reference to committees
   Committee work or procedure: investigation, hearings, conferences
3. 3d reading
4. Contest over passage
5. Party caucuses, logrolling
Final passage
   Rules committee, 'lifting' committee, 'steering' committee
   Vote: viva voce, by roll call; by ballot; obligation of voting in person, pairing
   Required majority. Veto, see 353.03
   Passing over veto. Bills left in hands of executive: 30 day bills, pocket veto
   Bills which become law without executive action
Special bills
   Financial, omnibus riders
Joint resolutions
Local and private legislation
Procedure in special cases
Impeachment
328.39 Form of legislature
  .391 One chamber
  .392 Two chambers
    See also 328.31 Upper chamber; 328.32 Lower chamber
  .393 Other forms
  .394 Reform
  .395 Abolition

.4-.9 Of special countries
  Divided by countries like 940-999, and under each, works may be divided:
  1 Journals  3 Abstracts  5 Rules  9 History of bodies
  2 Debates  4 Documents  8 Legislative manuals

329 Political parties Party conventions
  329.01 U. S. presidential campaign documents of all parties, arranged by campaigns
  .1 Federal
  .2 Anti-Federal
  .3 Democratic
  .4 Whig
  .5 American  KnownoTHING
  .6 Republican
  .7
  .8 Minor parties
    .81 Prohibition, see also 178.5 Ethics; .82 Greenback, see also 332.5, Paper money;
    .83 Woman suffrage, see also 324.3 Woman suffrage; .84 People's; .85 Labor
    see also 331.8 Laboring classes
  .9 Parties in other countries  Divided geographically like 940-999
### 330 Economics  Political economy

#### Theory
- General conception  Nature and character
- Definition  Limits and extent
- Classification  Divisions
- Importance  Utility
- Language, terminology, symbols, abbreviations
- Scientific systems
- Mercantil system
- Physiocrats
- Laissez faire
- Historic school
- Relations to other classes
  - Divided like the Classification to ethics
  - " politics
  - " literature
- Compendes
- Dictionaries
- Essays
- Periodicals
- Societies
- Study and teaching
- Polygrafy
- History
  - By periods
    - Primitiv  -476 A. D.
    - Medieval  476-1500 A. D.
    - Modern  1501-1900 A. D.
    - 20th century
  - Biografsy
    - Preferably clast in 923.3
  - History divided by country like 930-999

#### 331 Labor and laborers  Employers  Capital

#### Theory
- Freedom of labor
- Importance, utility, dignity of labor
- Psychology of labor
  - See 150 Psychology
- Compendes
- Dictionaries
- Essays, addresses
- Periodicals
- Societies, bureaus, etc.
  - Government departments, bureaus
- Education  Exhibitions
  - See also 371.42, 607, and education in special subjects
- Collected works
- History
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<td>Work at reduced wages</td>
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<td>Prisons Convict labor</td>
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<td>See also 365 Prisons</td>
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<td>Convents Ouvroirs (workshops)</td>
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<td>Ouvroirs are charity workshops paying beneficiaries nominal wages and market ing products at prices so small as to lower wages of selfsupporting workers</td>
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<td>Contract labor</td>
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<td>Apprentis labor</td>
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<td>See also 331.86 Training, apprenticeship</td>
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<td>Peonage</td>
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<td>Compulsory labor Corvée</td>
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<td>Slave labor</td>
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<td>See also 326 Slavery</td>
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<td>Pauper labor Cheap foren labor Chinese</td>
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<td>See also 339 Pauperism; 362.5 Asylums</td>
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Skilled and unskilled labor

Laboring classes

Duration of work

Rest

Length of day

8-hour day, 10-hour day, etc.

Shifts of work

Night work

Sunday work

Overtime

Supplementary hours

Vacation

Leave of absence

Holidays

Weekly rest, Sundays, labor festivals, May 1, festivals of patron saints

In special trades

Countries

Places of labor

Dangers

See also 613.6 Hygiene; 692.8 Mining; 614.8 Protection of life

Food

Clothes

Shelter

See also 640 Domestic economy

Morals and habits: thrift, temperance, amusements, temptations

See also 170 Ethics; 790 Amusements; 263.6 Sunday

Helps: lectures, libraries, reading rooms, etc.

Social settlements

See also 374.5 Home education; 610 Libraries; 263.7 Sunday

Training

Apprenticeship

Organization of labor

Trade unions and other labor societies

See also 338.6 Gilds

Strikes

Combinations of workmen. Retaliation by employers

Attacks on freedom of work

Picketing; methods of intimidation; scabs

Sympathetic strikes

Boycotting

Blacklisting

Laying under interdict

Lockouts

Private finance

Banks and banking

See also 334.2 Cooperativ banks

National

Federal reserve

State

Private

Trust companies

Foren

Savings banks

Postal savings banks. See also 383
332.3 Loan institutes and special loans
   - 31 Credit institutes
      - 311 Agricultural banks and credits
         See also 631.16
      - 312 Manufacturers credits
      - 313 Loans on chattel mortgages
         " " salaries
         " " wages
      - 32 Building associations See 334.1 Cooperation
   - 33 Monts de piété Governmental
   - 34 Pawn shops Private

4 Money Coins and coinage
   - 41 Coinage metals: production and value; gold, silver, nickel, copper
   - 42 Single and double standard
   - 43 International standards
   - 44 Monetary congresses
   - 45 Comparative value of moneys
   - 46 Mints
   - 47 Coinage laws
   - 48
   - 49 In special countries Divided geographically like 940–999
      History, reports and laws
   - 5 Paper money Public and private notes See also 329.82
   - 6 Stocks and stock exchanges Bonds
   - 7 Credit Credit system
   - 8 Interest and usury See also 336.31 Public securities
   - 9 Counterfeiting Forging See 343 Criminal law

333 Land: ownership, rights, and rent
   For other relations see Land in Relativ index following Tables
   Special countries, divided like 930–999
   - 09 State ownership
   - 1 Community ownership
      See also 321.2 Village communities
   - 3 Private ownership
   - 4 Absentee owners Alien owners
   - 5 Rent of land for cultivation
      Class here general works on rent
   - 6 Rent of land for building
   - 7 Special classes of land: forests, pasture, waste
   - 8 Mines
   - 9 Water rights: litoral, riparian, irrigation
Cooperation
.1 Building societies: loans, organization
.2 Coop erat ive banks
.3 " insurance societies
.4 " housekeeping
.5 " consumptiv associations
.6 " productiv associations
.7 Friendly societies
.8 Burial societies

Socialism and communism
.01 Theory of property
.1 English socialism
.2 Saint Simonism
.3 Fourierism
.4 Communism
.5 German socialism
.6 Social democracy
.7 Socialism of the chair
.8 Christian socialism
.9 Socialist communities

Public finance
.0 Federal and state.
.1 State domain and properties
.11 Management and income from rents
.12 Sale
.13 Land claims
.14 Land grants to railroads, colleges, etc.
.19 State monopolies
.2 Taxation
.21 Direct
.22 Real estate
.23 Personal property
.24 Income
.25 Poll
.26 Customs: specific or ad valorem
.27 Excise, licenses, special taxes
.28 Local taxes
.29 Assessment and collection of taxes

See also 332.32
See also 332 Banks
See also 368 Insurance
See also 647.93 Domestic economy
Stores
Factories

Divided by countries like 930-999

See also 334 Cooperation
See also 338.8 Monopolies
See also 379.123 Education
For other relations see License in Relativ index following Tables
See also 379.13 School funds
Exemptions
336.3 Loans Public securities
  .31 Interest-bearing securities See also 332.8 Interest
  .32 Floating det
  .33 Sinking fund
  .34 Public credit
  .35 Annuities
  .36 Repudiation
.4-9 Finance of special countries Divided geographically like 940-999

337 Protection and free trade
  See also 336.26 Customs
  .1 Absolute free trade No tariff
  .2 Free trade: i.e. tariff for revenue only
  .3 Protection
    Class in 337.2 discussions or histories which are arguments for free trade
    When doubtful prefer 337.3, the general number for discussions
  .4 Subsidies
  .5 Duties on special articles: steel, wool, etc.
    " " raw materials
  .7 " " books and works of art
  .8 Duty free importation for colleges, etc.
    See also 021.861 Libraries
  .9 Reciprocity

338 Production, Manufacture Prices
  .1 Agricultural products
  .2 Mining products See also 332.41 Coinage metals
  .3 Water " Fish, ice, etc.
  .4 Manufactured products Machinery in industry
  .5 Prices Cost of living
  .6 Gilds See also 331.88 Trades unions
  .7 Corporate industries
  .8 Monopolies Trusts See also 336.19 State monopolies
  .9 Industrial legislation Divided geographically like 940-999

339 Consumption of wealth Pauperism
  Conservation; restrictions on use or waste of materials and natural resources
  See also Pauper, Pauperism, Wealth, in Relative Index following Tables

340 Law
  General works Most periodicals belong in Private law, 347.05
  .1 Philosophy Theories Law of nature
  .3 Antiquities: torture, trial by ordeal, duel, etc.
  .4 Trial by jury
  .5 Comparativ legislation
  .6 Medical jurisprudence See also 614.23 Expert testimony
  .7 Education Law school Office training
  .8 Polygrafia Collections
  .9 Legal anecdotes and miscellany
Public law

341 International law
   .01 Philosophy; .02 Compends, etc. like 300

   .1 International congresses
      Of diplomatic agents for settling international relations; Hague tribunal, Leag
      of Nations. Congresses on special topics go with their subjects; e.g. 332.44 'on
      Coinage

   .2 Treaties: texts and history
      Class with most important country, dividing like 910–999

   .3 Law of war Captivs Neutrals

   .4 International criminal law

   .5 International private law

   .6 Arbitration

   .7 Diplomacy

   .8 Consular systems

342 Constitutional law and history
   Divided by countries like 930–999. Under each, works may be divided: 1 Texts of
   constitution; 2 Conventions; 3 Systems, commentaries; 4 Essays; 8 Polygrafs;
   9 History
   For Administrativ law, see 350

343 Criminal law
   .1 Criminal trials

   .2 Punishments
      Corporal. Death penalty. Hard labor. Confinement

   .3–9 Of special countries Divided by countries like 930–999
      Under each country, works may be divided: 1 Penal codes; 2 Reports; 3 Criminal
      procedure; 4 Text books and manuals

344 Martial law

Private law

345. United States statutes and cases
   Divide each of the sections .1–.5, using 1 U. S.; 2 Individual states arranged alfa-
   betically: e.g. Statutes at large of U. S. 345.11; Acts and resolvs of Mass. 345.12

   .1 Session laws

   .2 Codes Revised statutes

   .3 Law digests (of statutes)

   .4 Reports
      Use .4 U. S. supreme court; .41 U. S. circuit and district courts; .415 Periodical
      collections of various states; e.g. Eastern Reporter, etc; .42 Reports of individual
      states

   .5 Digests of cases
British statutes and cases

Divided like 345. Includes all reports in English language except U.S. reports

347 Treatises American and English private law

.01 Philosophy .02 Compseds .03 Dictionaries .04 Essays .05 Periodicals .06 Societies, bar associations .08 Polygrafs .09 History

Put law of special topics with the subject; e.g., Insurance law, 368. The divisions .1-.8 may be disregarded and all English law textbooks arranged in one alfabet by authors. An elaborate division, similar to Medicin, will be publisht after farther revision

.1 Persons Legal capacity

.2 Realty

.3 Chattels Movables

.4 Contracts

.5 Torts

.6 Family law and inheritance

.7 Commercial and maritime

.8 Equity

.9 Civil trials Procedure

.91 Civil trials

.92 Pleading

.93 Forms

.94 Evidence Testimony in general not limited to civil trials

.95 Remedies

.96 Justisies of the peace Notaries Sheriff

.97 Organization of courts

.98 Jurisdictions

.99 History of special courts

348 Canon law

349 Foren law

Divided like 930-999, and under each modern state divided like 345 with decimals .71-.79 used for Treatises like 347; e.g., 349.4475 is French law of torts, 349.442 is French code. Roman law is divided:

.37 Roman law

.371 Sources: Ante-Justinian

.372 Justinian

.373 History and criticism of sources

.374 Institutes: ancient Roman law

.375 Pandects: modern " "

.377 Treatises on special topics

Divided like 347
Administration

Including Military science. 1 Theory; 2 Compends; 3 Dictionaries; 4 Essays; 5 Periodicals; 6 Societies; 7 Education; 8 Polygrafi; 9 History

A large number of the questions properly placed under Administration are clast with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject 'Administration' and to provide for cross references by those specially interested. See also 342 Constitutional law and history

Administration of central government

Organization of civil servis
Officers Method of selection: election or appointment Official functions and powers Mutual relations

Civil lists

Examination

Tenure of offs Disciplin  See 351.02 Power of removal

Pensions

Reform Spoils system vs offisholding class

Subjects of administrativ action
See also 353 United States; 354 Foren states

Financial administration
See 336 Public finance, public property, taxation

Budget Public accounts

Internal affairs  See also 323 Domestic relations

Police mesures

Public safety and order  See also 352.2 Police; 365 Prisons, etc.

Press

Reunion and association

Wepons

Vice and good manners

Liquor regulation  See 178 Temperance

Public gaming  See 174.6 Ethics

Public begging  See 339 Pauperism

Prostitution  See 176.5 Ethics

Sanitary police
See 352.4 Boards of helth; 614 Public helth, etc.

Accidents  See 614.8 Public helth

Bildings See 614.85

Fires  See 614.84
351.8  Promotion of public welfare

.81  Means of communication

   See 380 Commerce, communication

.811  Highways  See 386; 352.7 Local government

.812  Railways  See 385

.813  Waterways  See 386; 387

.814  Ferries

.815  Bridges  See 352.7 Local government

.816  Post offices  See 383

.817  Telegraphs  See 384

.82  Trade and industry

.821  Means of communication  See 380 Commerce

.822  Coinage and money  See 332 Banks, money

.823  Landed industry

   Agriculture  See 630 Useful arts; 338.1 Production
   Forests  See 634.9 Agriculture; 333.7 Land
   Mines  See 632 Mining; 338.2 Production; 333.8 Land

.824  Commercial and manufacturing industry

   See 380 Commerce; 338 Production

.825  Institutions of credit  See 332 Banks, credit

   Savings banks  See 332.2
   Mutual benefit societies  See 334 Cooperation
   Insurance  See 368; 334.3 Cooperative insurance
   Monts de piété  See 334.33

.83  Labor  See 331 Capital, Labor, Wages

.84  Public charity

   See 339 Pauperism; 360 Associations and institutions

.85  Education and worship

   See 379 Education

.851  Public education  See 379 Education

.852  Public libraries  See 027.4 Library economy

.853  Art museums  See 708 Art

.857  Worship  See 322 Church and state

Military and naval  See 355-359 Army and Navy

Justis  See 340 Law

Foren affairs  See 341 International law; 327 Political science

.9  Control over the administration

.91  Administrative control  By superior officers

.92  Disciplinary power

   Power of removal.  See also 351.4 Tenure of offices

.93  Supervision

   Power to annul or amend specific acts

.94  Judicial control

.941  Ordinary courts  See 347.5 Law of torts

.945  Criminal courts  See 343 Criminal law

.95  Administrative courts

.96  Parliamentary control

.97  Petitions and addresses

.98  Investigations

.99  Impeachment
### Local government: county, town, city

See also 379 Public schools; 020 Libraries

#### General questions of municipal administration
- Growth and importance of cities
- Cities and state control
- City as a juristic person, a corporation
  - See also 347.1 Law-of corporations
- City organization, municipal elections
- Municipal civil servis

#### Local administration of special countries and cities
- General questions of municipal administration
  - .03-.09 divided by countries like 930-999

#### Local government in England
- Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:
  1. County
  2. Municipal boro
  3. Parish
  4. Union  See 339 Pauperism
  5. Sanitary districts  See 614 Public helth
  6. School districts  See 379 Education
  7. Highway areas  See 352.7

#### Local government in Germany
- Special cities like 352.042
  1. Province: landtag, provincial committee, director
  2. Circle
  3. Circle committee
  4. Landrat
  5. Commune
  6. Towns
  7. Township

#### Local government in France
- Special cities like 352.042
  1. Department
  2. General council
  3. Departmental commission
  4. Prefect
  5. Arrondissement
  6. Commune
  7. Mayor
  8. Municipal council

### Finances: city property and local taxation

- See also 336 Public finance

#### Police

#### Fire department
- See also 621.68 Fire engines; 614.84 Fires

#### Public helth: board of helth
- See also 614 Medicin

#### Publicbildings and works

#### Water and sewerage works
- See also 628 Sanitary engineering

#### Streets, Highways, Bridges, Parks
- See also these topics in Relativ Index for other relations

#### Licenses: hack, huckster, entertainment, etc.

#### Other topics

![electrical light plants]
353 United States and state government
Operation of government, except legislativ branch. For U. S. congress and state legislatures see 328.73-798, where also are department reports in sets of congressional and state documents. Class separates of such reports with their subjects or with their respective departments in 353.1-97988 when they have no definite place elsewhere in the classification; but report of bureau of education 379.73, of agriculture dept' 630.6
See also 342.73 Constitutional law and history
.01 Administratvis centralization
.02 Separation of powers
.03 President
.04 Departments
.05 Cabinet

.1 State department
.2 Tresury department
Laws and rules governing tresury; but class reports 336.73 U. S. Finance

.3 Interior department
.4 Postoffis department
See 383 Postal servis
.5 Judiciary department
.6 War department
See also 355 Army; military science
.7 Navy department
See also 359 Navy; naval science
.8 Other departments
.9 State government
Divided like 974-979
Apply same decimals for state and foren governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dep't of D. C. 353.97535 353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

354 Organization of central government Foren states
See also 342 Constitutional law and history
Divided geograficly by countries like 930-999. Under each country the U. S. divisions, 1 State, 2 Tresury, etc. may be used; e. g. State department.of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England Central government
01 Administrativ centralization
02 Separation of powers
03 Monarch
04 Privy council
05 Cabinet

.43 Administration of Germany Central government
01 Administrativ centralization
02 Separation of powers
03 Empire
04 Bundesrat
05 Emperor
06 Ministry
07 States Monarchs
08 Landtag Ministers Council of state
09 Free cities

.44 Administration of France Central government
01 Administrativ centralization
02 Separation of powers
03 President
04 Ministers
05 Council of state
Military science  Army

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments see, 353.9 and subdivision 4 under special wars in 973; e.g. Mexican war being 973.62, regimental history of that war is 973.624. See also 623 Military engineering

.01 Theory .02 Compendes .03 Dictionaries .04 Essays .05 Periodicals
.06 Societies .07 Education .08 Polygrafs .09 History

I Military life

Including honor, honors and insignia, and standards

.11 Servis periods and retirement

.114 Termination of servis  Resulting status

.12 Military life in peace and war

.13 Military honor  Disciplin

Professional morality; rewards

.14 Uniforms

System; distinguishing rank; style, color and esthetic considerations

See also 355.81 Clothing of troops

.15 Colors and standards

.16 Military celebrations

Commemorations, anniversaries, jubilees

II Military resources

.21 Preparedness

Rediness of resources for mobilization

.22 Men  Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obliga-
tions of citizens with respect to national defense

For relations of government to maintenance of public order see 351.74 Govern-
ment police measures

.23

.24 Raw material

Agricultural, mineral, etc.

.25

.26 Manufactures, industries

.27 Transportation

Roads, railroads, canals, ships

III Organization of military forces

.31 Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For classifi-
cation according to military obligation and field of servis see 355.35

.33 Offisers  Military hierarchy

.331 Command in general

General principles and rules of command, whether of large or small units

.34 Special servis

Outside the regular arm or grade

.35 Armies  General staff

Armies clas according to military obligation and field of servis; e.g. Euro-
pean armies of first line, 2d line, colonial armies

For military units see 355.31
Tactics and strategy

Logistics and field services

General tactics
See each arm for its peculiar tactics

Strategy

Siege warfare
For siege engineering see 623.2

National defense

Military geography
Divided like 930–999
Geographic works from military point of view and works on strategic conditions of theaters of operations

Wars, campaigns, battles, military exploits
Better cast with wars to which they belong in 930–999

Servis
Garrison and field services, mobilization; instruction of troops and subaltern grades; maneuvers

Grand maneuvers Instruction camps

Military administration
Class here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3

Military establishments
Organization and servis
See also 359 Naval establishments
623.63 Military establishments (military engineering)
725.12 Architecture of military buildings

Military equipment and supplies
Clothing Camp outfit
Small arms and ammunition
Administrativ questions: working and reserv supply; storage, issue, etc.
For mechanism and relativ efficiency of different kinds see 623.4.
Wagons Harness Transport outfit
Pioneering tools
Other tools Instruments

Infantry
Organization
Light infantry, mounted infantry, cyclist infantry
Special colonial infantry
Organizations eventually subject to mobilization
Volunteer corps
Irregular troops
'Corps francs' existing only during war
Special infantry troops
Sharpshooters, etc.
Staff and special servises.
Administrativ staff and servises
Personnel and organization
357 Cavalry Mounted services
   .1 Cavalry proper
   .2 Remount and training services
   .3 Army train
358 Artillery, engineers and other technical services
   For ordnance, gunnery, etc. see 623 Military engineering
   .1 Artillery
   .2 Engineers
   .3 Other technical services
359 Naval science
   Divided by .01-.09 like 355. See also 623.8 Naval architecture
360 Associations and institutions
   This covers what is best known as "Charities and corrections," and general
   works on this topic go in 360. Under each section .9 is used as in 362.9, for
   grouping by location; e. g. Clubs of London are 367.9421
361 Charitable
   See also 377.7 Charity schools. For humane societies see 179.2
362 Hospitals, asylums, and allied societies
   .1 Sick and wounded Incurables Eye and ear infirmaries Lying-in hospitals Dispensaries
   .2 Insane
   For other relations see Insane, Insanity in Relative index following Tables
   .3 Idiotic
   For other relations see Idiocy, Idiots, in Relative index
   .4 Blind Def Dum
   See also 371.91 Education
   .5 Paupers
   For other relations see Pauperism, Paupers, in Relative index
   .6 Aged Invalids Bereft
   Mothers pensions Aid in cases of death
   .7 Children Orphans Foundlings
   Child welfare See also ethics, 179.2 Cruelty
   .8 Other
   .9 Special countries
   Divided like 930-999; e. g. 362.942 Hospitals of England
363 Political
   Tammany, Primrose league, Ku Klux, etc.
364 Reformatory Criminology
   Schools; discharged convicts; criminal classes
365 Prisons Disciplin
   See also 331.5 Convict labor
366 Secret societies
   .1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians
   See also 371.85 College secret societies
367 Social clubs
368 Insurance

See also 334.3 Cooperative insurance

.1 Fire
.2 Marine
.3 Life
.31 Annuities

See also 336.35 Public annuities; 519.5 Probabilities

.4 Accident Liability
.5 Animal and crop, agriculture
.6 Plate glass
.7 Boiler
.8 Credit and bonds Land titles

.91 Government control Commissioners

91-99 divided geographically like 940-999; e.g. Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

.1 Hereditary and patriotic societies (American)

.11 General associations

.111 Regular army and navy union
.112 Society of veterans of the regular army and navy
.113 Military and naval order of the United States
.114 Medal of honor legion
.115 Military order of forefathers of the United States
.116 Order of the old guard

Incorporated Jan. 1, 1896; organized Oct. 15, 1896

.117 Naval order of the United States
.118 Society of American wars
.119

.12 Colonial societies

.121 Society of colonial wars
.122 Society of colonial dames of America

A New York society with chapters in other states; known also merely as Colonial dames of America

.123 National society of colonial dames of America

A federation of separately incorporated societies in about 40 different states

.124 Society of the Mayflower descendants
.125 Order of the founders and patriots of America
.126 Colonial order of the acorn
.127 " society of Pennsylvania
.128 " daughters of the 17th century
.129

.13 Revolutionary societies

.131 Society of the Cincinnati
.132 Society of the daughters of the Cincinnati
.133 Sons of the American revolution
.134 Sons of the revolution
.135 Daughters of the American revolution
.136 Daughters of the revolution
.137 Children of the American revolution
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<td>.170</td>
<td>Mixt: boys and girls</td>
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<td>.171</td>
<td>Boys</td>
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<td>.172</td>
<td>See also 136.77 'gang'</td>
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<td>.173</td>
<td>Boy scouts</td>
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<td>.174</td>
<td>Girls</td>
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<td>.175</td>
<td>Campfire girls</td>
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Education

Disciplin in broad sense

1 Theory of education Meaning Aim
Including philosophy of education, science of education and general methodology. Not limited to any curriculum, school or class of schools. For specific methods, pedagogics, see 371

.109 History of educational theory

.15 Psychology applied to education
Imitation, suggestion, play, etc. Divided like 150 Psychology; e.g. function of memory in education 370.154

2 Dictionaries Cyclopedia

3 Essays Addresses

5 Periodicals
General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05

59 Educational almanacs and calendars for teachers

6 Organizations Conventions

61 Associations Clubs
Permanent societies, their meetings and reports. Divided like 940-999

63 Congresses Conventions
Occasional congresses and conferences: international or interstate

7 Study of education Institutions and organizations for training teachers
Means and methods, including normal schools, institutes, etc. For need of training, kind and amount, see 371.12

71 Teachers meetings
Class meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4-9

711 Plan and organization
Frequency, time, place, control, cost, etc.

712 Programs, courses of study

714-9 In special places
Divided geographically like 940-999

72 Teachers institutes
Divide like 370.71 above

73 Normal schools
Institutions primarily for training teachers; e.g. state normal schools, Teachers college of Columbia university; often with attached 'model' or practic schools, in which normal students teach under supervision of their instructors. For training classes attached to regular schools see 370.75

731 Plan and organization Aims and functions Scope
Length and time of terms. Support: public, private

732 Courses, programs, credentials

733 Adjuncts: practic or model schools

734-9 Special countries and schools
Divided geographically like 940-999

74 Education museums
Including exhibits at international expositions, state and county fairs, etc.

75 Training classes
Class here teachers classes attached to regular schools. For normal schools see 370.73

8 Polygraphe

81 Collected writings of a single author
If not limited to a definite topic; e.g. Horace Mann, Henry Barnard, etc.

82 Collected writings of several authors
SOCIOMETRY

370.9 History, description
   General works covering both ancient and modern history, and including
   history of institutions, practices, and description of conditions. See also
   136.791 The child among uncivilized and semicivilized peoples

.92 Educational biography
   Preferably class in 923.7

.93-9 History of education in special countries
   Subdivided like 930-999
   - Medieval Europe
   - Modern Europe

371 Teachers Methods Disciplin
   Practical methods. See 370.1 for theories of education. The following
   divisions concern instruction of all grades

.1 Teachers Teaching personnel Professors, masters, instructors
   See also 370.7 Training of teachers

.101 Duties and responsibilities Missio 1

.102 Personal influence

.103 Relations to parents
   Mutual duties of parents and teachers

.104 Relations to community Public status

.105 Social status

.11 Qualifications Personality
   See also 371.18

.12 Need of training; kind and amount
   Discussion of special preparation of teachers and professors for their
   vocation. For teachers training schools and classes, see 370.7

.13 Examination Certificates Certified teachers licenses

.14 Appointment Organization of teaching force

.142 Appointment Contract Discharge Tenure

.143 Appointing body
   - Board, committee, principal

.145 Agencies
   - Bureaus and associations for supplying teachers

.15 Professional status
   - Permanent profession vs steppingstone theory

.16 Salary and promotion Compensation Amount of servis
   For pensions and insurance see 371.17

.161 Salary

.162 Fees

.163 Allowance for expenses

.164 Residence Living expenses

.165 Promotion Advance in rank
   For salary promotion see 371.161

.166 Hours Daily or weekly servis

.167 Vacation Yearly servis

.168 Sabbatic year
Pensions and insurance for teachers
Carnegie pension fund

Women as teachers
Feminization of teaching force

Other topics

School organization
School records
  Diary, 'Logbook.' For government of students, disciplin, see 371.5. For
  school supervision see 379.15

Admission Enrolment Matriculation
For college entrance requirements see 371.214. Standards of individual
  schools are clast with the school

Grammar or intermediate school admission standards
Including standards of German bürgerschulen

High school standards
Including standards of German gymnasia, French collèges and lycées

College standards
Undergraduate and nonprofessional graduate courses in (American)
colleges and universities

Professional and technical school standards

Tuition fees Free tuition Scholarships
See also 371.162 Professors fees; 379.13 Tuition fees of nonresident
  pupils in public schools; 378.34 Scholarships

Terms Vacations Holidays Breaking up
See also Hygiene of vacations and holidays 613.76, 613.77; Closing for
diseases, 371.712

Terms in 2 or more places
For floating schools see 371.392

Hours Recess
For exercise see 371.73 Care of body

Classes Grades
For grading of schools, see 379.17. See also 371.394 Individual
  instruction

Length of school courses; e.g. 6 year course
See also 378.241 Length of college course

Marking system

Examinations: oral, written Cramming
See also 498.9 Language
For competitiv examinations see 371.53

Promotions Degrading

Other topics

Graduation Diplomas
May be subdivided like 371.21 See also 378.2 College degrees
Methods of instruction and study

Under the heads below class discussion of pedagogic value of these methods.

For methods of teaching specific subjects, see those subjects; for their educational value see 375 Curriculum; e.g. teaching of mathematics 510.7, place of mathematics in curriculum 375.51

Rote or concert teaching

Textbooks Recitations

Use of textbooks. Textbooks themselves are clasped with the subjects treated

Lectures Oral and visual instruction

Visual instruction Lantern slides

Developing or inductive method

Art of questioning Catechetic method

Topical method

Correlation

Special days

Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: Arbor day, Bird day. Other: Thanksgiving, Christmas, Easter, etc.

Seminary method

Laboratory method

Other

Floating schools or colleges

Combining travel and shipboard instruction

Trips, excursions, visits

Individual instruction Batavia system

By regular teacher or tutor, at home or at school. See also 373.1

Private instruction

Small classes

See also 371.47 Quincy system

Systems of education

For Froebel's system see 372.2 Kindergarten

Bell and Lancaster, or monitorial Mutual system

Fellenberg or manual training; vocational schools, industrial education

For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01-9. For individual schools see 607 or 378.99

Educational value

In elementary schools

In secondary schools

In special schools

History and development
Military organization  Military instruction
.Pestalozzian  Class here all Pestalozzi's educational writings
.Jacotot
.Quincy system

Government  Disciplin  Authority
.Rules
.Attendance  Truancy  Tardiness  Absences
.See also 379.23 Compulsory education
.Rewards  Prizes  Favors  Approbation
.Interschool literary contests
.Competitiv examinations. For interschool and intercollegiate de-
bates see 374.245. For interschool athletics see 371.75
.Punishment  Disciplinary penalties
.Limits of school jurisdiction. Disciplin of consequences
.Corporal punishment
.Other punishments
.Confinement; tasks; expulsion; suspension; discharge
.Personnel responsible for disciplin  Monitors
.Moral government  Alcott system
.Student self government  College systems
.School city  Ray system
.School premises and equipment
.Grounds  Site
.School playgrounds
.Bildings
.Requirements peculiar to schools. See also 727 Architecture of educa-
tional institutions. The following subdivisions apply to both special
.rooms and separate bildings
.Study, lecture and assembly rooms
.Library and museums
.Art, science, etc. See also 022 Library bildings; 371.64 Function
.of school libraries; 021.3 Relation of libraries and schools; 027.7-.8
.Reports of college and school librarias
.Laboratories  Observatory  Machine shop
.See also 542.1 Chemic laboratories; 522.1 Observatories
.371.66 Scientific apparatus and supplies
.Gymnasium
.See also 725.85
.Other special rooms or bildings
.Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.
.Sanitation  Lavatories
.Lighting
.Heating and ventilation
.Accessories
.Elevators, lifts, telefones, etc.
SOCIOLOGY

Furnishing and decoration

Furniture
Blackboards, desks, chairs, benches. For globes and maps see 371.66

Musical instruments

Floors: bare, coverd
See also 721.6 Architectural construction
022.96 Library buildings
645 House decoration

Walls: tints, covering

Decoration
See also 729 Architectural decoration

Pictures, frescoes Glass

Sculpture

Plants

Other decoration

Libraries
Character and functions. For relation to public library see 021.3; for relation to other school rooms and buildings see 371.632. See also 027.8 School libraries: 027.7 College libraries

Relations of library to faculty and students

School traveling libraries

School reading lists
See also 028.5 Reading of young

Elementary school libraries

Secondary school libraries

College and university libraries
Departmental and seminar libraries

Professional and technical school libraries
In 371.645-8 may be class matter pertaining to desirability and scope of such libraries, tho it is better in 027.7-8 with reports and other matter pertaining to their management

Museums: character and functions
Divided if wished like 010-999: e.g. 371.653 Science museums; 371.657 Art museums. Limited to character and functions of museums attached to teaching institutions: see also 708 Art museums, and form division 074 under special subjects

Scientific apparatus, laboratory equipment and supplies
Divided like 500; e.g. 371.662 Astronomic observatory

Other apparatus, equipment and supplies
Divided if wished like 010-999; e.g. 371.6791 Globes, maps, etc.

School hygiene

Health of students Overstudy Fatigue

Sanitary conditions and inspection
Board of health. For sanitary engineer’s side see 371.626

Medical inspection
For personal conditions affecting health and intellectual progress; e.g. cleanliness, contagious diseases, nervous disorders, defective eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases
Posture
See also 371.631 Furniture (ill designed desks and seats)

School meals
Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58

Open air schools

Care of eyes Effect of study

Care of body Gymnastics Calisthenics
For systems of gymnastics or physical training, and books of exercises see 613.71

Educational influence of physical training

Gymnastics Calisthenics
2 In elementary schools
3 In secondary schools
4 In colleges
5 In special schools
6 In girls' schools

Military drill
For military organization of school see 371.43

Fencing

Swimming Bathing

Riding

Walking School promenades

Recreations Games, etc. Athletics Diversions
See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

Championship games Boat races Interschool athletics
For other relations see Games in Relativ index following Tables

Other special topics

Student life and customs
Various aspects of student life and student activities outside regular courses of study
See also 784.6 College songs; 378.29 College costumes

Student periodicals
Discussion here. Periodicals themselves preferably with their schools

Student honor
Cribbing Cheating Keys Ponies Copying

Fagging and hazing Bullying German student duels

Student organizations German corps

Ancient student societies

Literary societies

Secret societies
Class all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

Society premises Society houses Halls Temples, etc
SOCIOMETRY

371.87 Student houses Lodgings Dormitories
371.88 Commons Student restaurants Eating clubs
371.89 Celebrations Customs Triumphs, burnings, etc.

Anniversaries Ceremonious receptions Student banquets

School plays
Divided by language like 400; e.g. 2 English, 3 German

Class days
Of special institution, with institution

0.9 Education of special classes
General questions; kind and methods of education for these classes
For institutions see 362, 364. For study of abnormal children see 136.76

0.91 Physically defective
See also 362.4 Asylums for blind and def

0.911 Blind
See also 655.38 Printing for the blind

0.912 Def
Finger alphabet See also 378 for degree conferring colleges

0.913 Blind-def

0.916 Crippled

0.92 Mentally defective
Divided like 132. See also 362.3 Idiot asylums, 920.8 Lives of idiots,
cranks, etc.

0.93 Morally defective Delinquents
See also 364 Reformatories. Criminal classes

0.94 Other abnormal classes
See also 136.764-9 in Childstudy

0.945 Exceptionals Precocity

0.947 Dependents
See also 362 Hospitals, asylums and allied societies

0.95 Special ranks
See also 375.022 Courses for different social classes

0.961 Princes

0.962 Nobles

0.97 Special types
See also 136.77 Boys, the 'gang'

0.974 Freedmen Negroes
See also 378.75-76 for degree conferring colleges

0.975 Indians

0.976 Orientals

0.98 Special nationalities
Special schools for foreigners; e.g. Germans, Hungarians, Russians,
Japanese in United States

0.99 Coeducation of races
Elementary education

Primary schools. Dame schools. Infant schools (under 7 years)
See also Day nurseries 362.7; Minding schools 362.5 or 362.7; Crèches 352.7

Pedagogics and didactics of primary schools

May be used like 336.7 by those who insist on having child study with education

Kindergarten

See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here

Theory  Principles

Essays
Periodicals
Societies
Training of kindergartners

History
Divided if wished like 940-999

Methods
Gifts and occupations
Gifts
Occupations
Stories
Songs and games

Influence of kindergarten
Relation to other schools

Observing powers  Object teaching  Science

Nature study
Divided like 500-599; e.g. Birds 372.35982

Gardening

Reading  Alfabet  Fonics and word methods

Spelling
See also 428.6 Elementary readers

Simultaneous teaching of reading, writing and spelling

Elementary writing and manual work
See also 741 Freehand drawing

Writing
First efforts, imitating printed Roman letters

Drawing  Design
See also 741 Drawing

Clay modeling
Sewing, etc.

Elementary basketry, weaving and braiding
372.6 Elementary grammar  Language lessons
See also 400  Philology, subdivision 8 under each language
.61 Mother tung
.65 Second language
.7 Elementary arithmetic
Including mental arithmetick.  See also 511.  For Abacus see 511.2
.8 Other studies
Divided if wished like 910-999; e.g. 372.82  Religion
.89 Elementary geography
See also 910.7.  Elementary textbooks may be put with their subjects,
but a primer of geography is more useful to a student of elementary schools
and methods than to one interested in Geography, Description, and
Travel.  Text books, except primary, go with their subjects
.9 Special countries and schools: history, reports, etc.
Divided like 940-999; e.g. 372.942  English elementary schools.  Put here
elementary schools whether public, endowed or private

373 Secondary Academic Preparatory
Class here discussions of general theories, methods, etc. pertaining specifically
to secondary education, regardless of source of support.  Class here also all
private or endowed secondary schools for boys or both sexes; but class all
public (taxsupported) schools in 379.4-9, all primary schools (regardless of
support) in 372.9, all schools and colleges solely for women in 376, and all
colleges for men or coeducation in 378.  Class methods and questions peculiar
to monastic, diocesan and parochial schools in 377, but class the schools them-
selves in 372, 373, 378, etc. according to their grades
For specific topics see 371

.1 Private instruction: tutor, governess, coach
.11 Relatively advantages of instruction at home and
in school
See also 371.394  Individual instruction
.2 Day schools  Boarding schools
.4-9 Special countries and schools: history, reports, etc.
Divide like 940-999; e.g. 373.42  Higher English schools, Eton, Harrow, etc.
374  Home education  Self education and culture

Cultural, personal aspect of education
Subdivided by 0 with form numbers if wished; e.g., 374.05 magazines pertaining
to this work, 374.06 Conferences, conventions, institutes, general meetings.
The term Home education covers the broad field of adult self education thru
private reading, study clubs and reading circles, summer, vacation, evening
and correspondence schools, lecture courses and other forms of extension
teaching and other agencies for extending more widely opportunities and
facilities for education outside the usual teaching institutions.
For relations of this work to libraries, the natural centers for such activities,
see 021.2  See also 378.13 University extension

With or without personal guidance

.1  Solitary study  Private reading  Conversation
Advantages to be derived from reading.  Study alone or without aid
of reading lists, syllabuses, etc.
Reading lists themselves, syllabuses and other aids to study belong with
other bibliographies (016) or with compends under their subjects.  They may
however, if preferred, be kept together under 374.19, divided like the classifi-
cation; e.g. syllabus on English history 374.19042; on library economy
374.1902
See 028, for preparation of guides, policy, methods, etc.
Vocational guidance  Choice of vocation is classt here because usually discuss
with self education and closely related to it and preparation for life, and is also
often determined thru personal advice or conversation

.2  Associated study  Clubs

.21  Study clubs
Class here ' travel clubs ' which study about places without traveling
to see them.  See also 374.25

.22  Reading circles  Book and periodical clubs

.23  Lyceums  Literary clubs

.24  Debating societies  Oratorical clubs

.245  Interschool and intercollegiate debates
For interschool literary contests see 371.535

.25  Traveling clubs  Educational value of travel
Clubs which travel for education.  See also 371.392, 371.393, 374.21

.28  Community centers
Whole community as a club of varied interests.  Put here discussion of use
of school buildings for various community purposes

.3  With personal guidance
Either alone or in groups, clubs or classes

.4  Correspondence teaching  Manuscript aids
Including methods of correspondence teaching

.43  Societies for encouraging home study

.44-49  Correspondence schools
General schools divided like 940-999.  Special schools are better classt
with their subject, with only a reference here: e.g. correspondence schools
of agriculture 630.714

.5  Lectures
Single lectures, or series of lectures on different subjects; courses on the
same subject unsupported by any other of the 7 factors of a complete exten-
sion course: i.e.
1 Lectures  3 Class  5 Guided reading  7 Examination
2 Syllabus  4 Papers  6 Club
Sociology

374.6 Extension courses Lecture study
  .62 Lecture study
    3 or more lectures on the same subject, with 2 or more of the 7 factors
  .64 Extension courses
    5 or more lectures on the same subject with 4 or more of the 7 factors

.8 Continuation schools
Summer, winter, vacation, night (adult) etc. German auxiliary school
Divided like 940-999 For evening or night schools see also 379.19

.9 Central organizations, state departments, institutes
N.Y. state home education dept, Brooklyn institute, Cooper institute
Chautauqua, etc.

375 Curriculum
  .001 Order of studies
  .002 Single course
  .003 Parallel courses
  .004 Optional courses Electiv system
  .005 Balanced courses Group system
    Special topics
  .006 Overcrowding curriculum
  .007 Courses for different classes of society
    1 For bredwinning vs culture
    2 Failure of course to develop efficiency
  .008 Courses for schools of special kinds
    Courses in schools of Roman catholic order of St Ann; outline of study
    for common schools; courses in French lycées, etc.
    See also special schools under their respective subjects
  .009 Courses for institutions in special countries
    Divided like 900. See also 379.4-.9

.01-.9 Subjects of study
Divided like the classification 010-999; e.g. 375.5 Place of science in the
curriculum, 375.84 French literature in the curriculum, 375.88 Classics
in the curriculum
Methods of teaching individual subjects, also textbooks, may be kept with
educational literature by adding letters to 375 as follows: A general, B edu-
cational value of specific subjects, C place in curriculum, D methods of
teaching specific subjects, E textbooks;
e.g. 375.32 B Educational value of political science
375 32 C Place of political science in the curriculum

376 Education of women
See also 396.4
  .1 Physical capacity of women
  .2 Mental capacity of women
    See also 376.1 Mental characteristics as influenced by sex
  .3 Home or domestic instruction
    By tutor or governess. See also 374
  .4 Fashionable education ‘Finishing’ schools
    Discussion. For prospectuses, catalogs, etc, see 376.9
  .5 Convent education
    Discussion. For prospectuses, catalogs, etc, see 376.9
376.6 Higher education of women
Secondary and college

.63 Secondary: preparatory schools for girls
All between primary and college. Discussion. For girls highschools see 379.4-9; for private preparatory schools see 376.9

.64 Influence of college education on women

.66 Associations of college women
Association of collegiate alumnae. Alumnae of a single college with that college

.7 Coeducation Segregation Separation
Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for educational institutions, 376.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc. Class here by attraction general discussion of coeducation of sexes in college and secondary school

.8 Colleges for women
Degree-conferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9

.9 Special countries and schools: history, reports, etc.
Subdivided like 340-399: e.g. 376.943 Education of women in Germany

377 Religious, ethical and secular education
Relations of religious to secular education. For inculcation as well as actual teaching of definite ethical or religious doctrines see 375; e.g. instruction in duties of citizenship, patriotism 375.172, course in Christian evidences 375.239. Class catalogs, history, etc. of a denominational school regardless of religious affiliation, but class here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35

.1 Religious instruction Bible in public schools
Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code

.2 Ethical education
Ethical training, without religious teaching, as advocated by ethical societies. See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

.3 Monastic or abbey schools
Ecoles congréganistes. Divide like 271. See also 271 Monastic orders: 376.5 Convent education of girls

.4 Diocesan schools Cathedral schools
Domschulen, stiftschulen

.5 Parochial schools
See also 257 Parochial schools

.6 Missionary schools
Establishment and conduct of schools as part of mission work. See also 366 Missions

.7 Charity schools
Mainly for elementary education. See also 361 Charitable institutions

.8 Church and education
Subdivided like 280: e.g. 377.82 Relation of Roman Catholic church to education. Discussion of denominational schools or educational associations e.g. 377.82 Association of Catholic colleges of United States See also 261.5 Church and intellectual development

.9 Non-Christian religions and education
Subdivided like 290: e.g. 377.97 Relation of Mohammedanism to education
Colleges and universities

With power to confer degrees. For men only and for both sexes. For women's colleges see 376.8

.01 Definition of college and university
Aim
Advantages and influence of college training; e.g. on business capacity
College terminology, 'slang' including also student slang. See also 437, 437, etc.

.05 Academic periodicals
Periodicals devoted to college and university interests. Those issued by colleges, schools, etc., are scattered either by subject or under college numbers

.06 General college associations
Association of New England colleges See also 370.6

.068 Associated alumni University clubs
For alumni associations of any one college, see T under college number

.069 Duties of college men as a body

.1 Organization Government Location Scope, field
Classes, colleges, graduate departments, etc.

.11 Administration officers

.113 Disciplinary officers, judicial corps, university court
President, deans, etc.

.12 Teaching staff Faculty
Exchange of professors. For qualifications see 371.11

.121 Freedom of teaching
See also political science, 323.444

.13 University extension
Conducted by universities. See also 374

.14 College year Summer or vacation instruction
All the year session

.15 Location and size Large vs small

.153 City vs country colleges

.17

.2 Academic degrees and costume College colors
See also 614.21 Medical degrees

Degrees

.21 Degree conferring body and powers
College, university or state. See also 614.21 State regulation of medical education

.22 Graded degrees
Pass, honor, cum laude, magna cum laude, etc.

.23 Degrees in course
Advanced degrees conferred at specified periods on graduates in good standing, without evidence of advanced attainments
Degrees for completion of courses
With or without examination

.241 Time and residence required Length of college course

.242 Subjects allowable for liberal degree
Whether technical courses should be credited toward liberal degrees

.243 Differentiation of degrees: B.A. B.S. B.L. etc.

.244 Degrees on examination
With or without residence

.25 Honorary degrees

.26 Degrees by purchase or forgery

Insignia

.27 Seal Coat of arms Motto

.28 Colors: institution and class College flags

.29 Academic gowns and hoods

3 Endowment of research Fellowships Scholarships Student aid

31 Endowment of research

33 Fellowships

34 Scholarships
Rhodes scholarships Traveling scholarships

35 Student income and expenses

36 Loan funds Student aid societies

362 College employment bureaus Faculty committees
Other organizations for securing work for students

365 Student earnings
Working way thru college Ways of earning

368 Student expenses: extravagance, economy

4-.98 Special countries and colleges: history, reports, etc.
For women's colleges, see 376.8
Subdivide like 940-999; e.g. 378.42 English universities; 378.741 Maine colleges
The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters after the letter (or letter and figures) used to designate the college; e.g. a history of Harvard college would be marked 378.744 H E, and a second history would be numberd 378.744 H B1.
The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers
If prefered, colleges and universities may be arranged alphabetically under continent number, instead of being last first by country or state; e.g. European universities under 378.4 in alphabet order regardless of country. United States colleges and universities all in one alphabet under 378.73
378.99 Professional, technical and other special schools

Professional education

Best kept with subject, but may be compactly grouped here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A Charter and statutes
B Trustees Regents Resolutions, reports, etc
C Administration President, chancellor Reports, etc
D Finances Treasurer's reports
E History Foundation, growth, etc
F Biography Necrology
G General catalogs Triennials, etc
H Annual catalogs Attendance, registers, etc
I Handbooks Circulars of information
J Bulletins Official periodicals
K Commencements, inaugurals, etc Baccalaureate and other addresses
L Programs Tickets Memorabilia
M Faculty (as a body) Publications Regulations Certificates for admission
N Lectures Class manuals Examination questions
O Student theses Orations, essays, etc
P Student catalogs Society annuals, etc
Q Student periodicals
R Student societies, including periodicals
S Student miscellany Songs Class day, etc
T Alumni Societies, committees, etc
U Classes Histories, records, etc
V Pictures Class albums
W Buildings and grounds Descriptions, maps, etc
Z Schools: divinity, law, medical, etc

379 Public schools Relation of state to education

.1 Public school system

.11 School funds

.12 National and state aid to education

.121 Public aid to private and sectarian schools

.123 Land grants

See also 336.14 Public finance

.124 Subsidies

.13 Local support

Taxation Bonds Endowment Nonresident tuition See also 336.28 Taxation
379.14 School laws and regulations
   School age
   Divided like 940-999
   .15 School supervision and control: national, state
   and local Centralization

   .151 National
   .152 State: department, inspectors, etc.
   .153 Local: superintendent, school committee, board
       Supplies, free textbooks, etc. For school meals see 371.716
   .154 Individual: parents and others
   .156 State textbooks

   .16 Public colleges and universities: national, state
   and local
       Only discussion here; for individual colleges see 378.4-.9
   .17 Secondary schools
       Discussion. For individual schools see 379.4-.9
   .171 Highschools Academies
       6 year highschools
   .172 Grammar schools
   .173 Rural schools
   .175 Central plan Conveying pupils

   .18 Primary schools Kindergartens
       Questions of public maintenance. For individual schools see 372.9

   .19 Evening schools
       See also 374.8

   .2 Illiteracy Instruction of illiterates

   .21 Illiteracy and crime Education and crime
       Criminal illiterates

   .22 Illiteracy and pauperism Indigent illiterates
       See also 339 Pauperism; 362.5 Pauper asylums

   .23 Compulsory education
       See also 371.52 Truancy

   .24

   .3 Public vs private and endowd schools

   .4-.9 Special countries, sections, cities, etc.
       Subdivided like 940-999: e.g. 379.73 Reports of U.S. commission
       of education; 379.744 Education in Massachusetts; 379.7471 in New
       York city. Keep state departments separate from city and other local
       systems by numbering state reports. A1-A8, using A9 followed by
       author's initial (lower case) for history of schools of any state; e.g.
       Fitch's New York public schools 379.747 A9f
### Commerce Communication

Public utilities. The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations. Government control of public utilities.

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<td>Local transit: city and interurban</td>
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<td>Weights and mesures Metrology</td>
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</table>

See also 353-4 U. S. administration, useful arts, 656 Transportation, engineering 625, Business manuals.
390 Customs  Costumes  Popular life

These heads are for discussions by topic. Customs, etc. of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e.g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571.

391 Costume and care of person

See also 646 Clothing; 613.4 Hygiene

Costumes of men

" " women

" " children

Extremities: hats, gloves, sandals, shoes, stockings, etc.

Hairdressing  Barbers

See also 646.7 Toilet

Care of person  Bathing  Toilet

Ornaments and jewelry

392 Birth, home, and sex customs

Birth customs: christening, circumcision

Sacrifice and exposure

See also ethics, 173.4 Infanticide

Family and home relations

Betrothal

Marriage

Sex relations  Concubinage

393 Treatment of the dead

See also 614.6 Public helth

Earth burial

See also 719 Cemeteries

Cremation

Embalmming, mummies

Exposure

Special funeral customs: wake, suttee

394 Public and social customs

Eating, banquets

Shows and diversions

Games  Dances, etc.

Ceremonies

Processions

Fairs

Chivalry  Tournaments

Dueling  Suicide

For other relations see Dueling in Relativ index following Tables
Etiquet

Codes of social procedure and behavior. For social ethics see 177

Woman's position and treatment

For costumes, see 391.2; biography, 920.7
If a special library about women is wished, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e.g. to remove 618, Diseases of women, from the rest of medicine. Books on women in general go in 396.

Emancipation

Legal status, property, rights, etc.

Political status

See 324.3, Suffrage; 329.83, Woman suffrage party

Education

See also 376, Education of women

Employment

See 331.4, Labor of women; 371.18, Teachers

Divided like the general classification; e.g. woman as scientist, 396.55; woman's exchange, 396.56; woman as painter, 396.57; woman as author, 396.58, etc.

Woman in home

Delineation of woman in art

Delineation of woman in literature

Woman in history, politics, war

Amazons

Gypsies Nomads Outcast races

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which till recently had no place in the linguistic groups of 400, as the Gipsy people have no place in the geographic divisions of history

Folklore Proverbs, etc.

See also 291-3, Mythology
This section is for material needed in studying Folklore. Mere stories for children, unless having a value to students of folklore, go in 823, or in J, if there is a Juvenile collection

Primitiv traditions

Legends, tales, traditions

Folklore, traditional beliefs and customs, popular superstitions

Fairies, elvs, ogers, monsters, etc.

Bogies, gnomes, dragons, vampires, werewolves

Chapbooks

Riddles

Dream books

Song books

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

Proverbs

Customs of war

Weapons War dances Treatment of captives Scalping Mutilation Burning Cannibalism See also 623.4 Firearms
Philology

400 Philology in general

In philology the general works put under 400-419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479 and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosofy Origin of language
402 Compendia, outlines
403 Dictionaries, cyclopedias
404 Essays, lectures, addresses
405 Periodicals
406 Societies, transactions, etc.
407 Education, teaching languages
408 Polygrafy Collections

.9 Universal language
.91 Volapük

409 History of language,

410 Comparativ

410-419 includes comparativ works in general and also those on the Indo-European group in general, but general and comparativ works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language. 410-418 may be subdivided like 420-428

411 Orthografy Orthoepy Alfabet
412 Etymology, derivation
413 Dictionaries, lexicograft
414 Phonology Visible speech

See also 612.78 Physiology of speech

415 Grammar, morphology, syntax
416 Prosody
417 Inscriptions Paleografy

See 421.7, 471 7, 481.7, etc. Rare early mss are put in 091

418 Texts
419 Hieroglyfics

See also 493.1

.1 Sign language

For def mute alfabet, see 371.912
420 English philology

421 Orthography

See also this head treated in general grammar placed under 425

.1 Alphabetic
   For def mute alphabet, see 371.912

.2 Vowels Diphthongs Aspirates

.3 Consonants

.4 Phonetic spelling Spelling reform

.5 Orthoepy

.6 Accent

.7 Paleography Inscriptions

.8 Abbreviations
   For stenography and other uncommon contractions and abbreviations, see 653 Shorthand

.9 Punctuation

422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425

.1 Origin and laws of language

.2 Prefixes Suffixes

.3 Reduplication

.4 Foren elements

.5 Noun forms: case, number, diminutives

.6 Adjectival forms Degrees of comparison

.7 Pronominal forms: personal, possessive, relative, etc.

.8 Verbal forms: moods, tense, voice, etc.

.9 Particles: adverbs, prepositions, etc.

423 Dictionaries Idioms

.1 Idioms
.2 English
.3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin. 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.1, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i.e. that in which it is alphabetized. This gives under each language, regardless of its familiarity, all dictionaries for translating from it, but none for translating into it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both in and out dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms Homonyms
425 Grammar

425 includes general works, covering also orthography and prosody

.1 Morfology Inflection

Divided like 425.2 Syntax; e.g. .5 Nouns, etc. See 422

.2 Syntax

.3 Arrangement of words and clauses

.4 Particular sentences: conditional, hypothetic, etc.

.5 Nouns

.6 Adjectivs Articles

.7 Pronouns

.8 Verbs

.9 Particles

426 Prosody

See also the head Prosody, in general grammars 425

.1 Quantity and accent

.2 Versification

.3 Feet

.4 Figures of prosody

.5 Meters

.6 Rimes

.7 Strophe and antistrophe

.8 Textbooks for writing verse

427 Dialects

Early forms of language Slang

Subdivided by geographic divisions like 942. The Yorkshire dialect is 427.74.
Gloucestershire dialect 427.41. The dialects of other languages take the geographic subdivisions of their countries. Dialects not provided for in these heads are placed with the last; e.g. American and Scotch with 437.9. The division by time is made with a 5th figure after 0; the earliest form of the language is markt .01; .09 is used for modern slang, e.g. 437.01 Old English

428 School books

Texts for learning the language

Including only books for learning the language, with grammatical or philological notes, etc. For other works see literature of the language, 820

.1 Spelling books

.2 First lessons Elementary composition For Rhetoric see 808.

Including in other languages books like Fasquelle, Ollendorff, Chardenal, Latin prose, etc. See also 372.6, Elementary grammars

.3 Errors of speech Vulgarisms Use of words

See 427.09 Slang; 424 Synonyms

.6 Elementary readers See also 372.4 Education

For primers and primary readers see 372.4. Class here 3d and 4th readers, and put higher readers with literature collections; 808.8 if general, 820.8 if English or English and American, etc.

.7 Selections

.3 Texts of individual authors

With grammatical notes and questions. Preferably classt in 800 with cross references here

.9 Examination papers

429 Anglo-Saxon
430 German
437.01 Old High German; 437.02 Middle High German

439 Minor Teutonic
Including general works on Teutonic group
.1 Low German
.2 Frisian Old Saxon
.3 Dutch Flemish
.4 Plattdeutsch
.5 Scandinavian
.6 Old Norse Icelandic Faroese
.7 Swedish
.8 Danish Norwegian
.9 Gothic

440 French
447.9 Canadian and creole French, etc.

449 Provençal
Old French, as the earliest form of the language, is 447.01

450 Italian

459 Wallachian
.9 Rumansh

460 Spanish

469 Portuguese

470 Latin

479 Minor Italic Medieval Latin
Including general works on Romance group

480 Greek
Divide 487, Greek dialects, like 930; e.g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

489 Minor Hellenic Modern Greek
Including general works on Hellenic group
Works on Latin and Greek together, unless very clearly most useful in Latin, go with Greek, which here as well as elsewhere is made to include general works on the ancient classics.
Minor languages

Each language subdivided if wished like 420 English

Minor Indo-European

Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489.

This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410.

Indic

.1 Sanskrit

.27 Sanskrit dialects Prakrit

Pali

.4 Modern East Indian languages

Excluding Dravidian, which is 494

.41 Sindi

.42 Panjabi

.43 Hindustani Hindi

.44 Bengali

.45 Uriya Orissa

.46 Marathi

.47 Gujerati

.48 Singhalese

Iranic

.51 Old Persian

.52 Zend (Avestan) Old Bactrian

.53 Pehlevi (Huzvaresh)

.54 Armenian

.55 Modern Persian

.56 Ossetic

.57 Kurdish

.58 Afghani

Keltic

.61 Gadhelic group

.62 Irish

.63 Gaelic or Scotch

.64 Manx

.65 Cymric group

.66 Welsh or Cymric

.67 Cornish

.68 Armorican or Bas Breton

Basque

.7 Russian

.79 Ruthenian
491.8 Other Slavonic

Southeast Slavonic group

- Bulgarian (Church Slavonic)
- Serbian
- Kroatian
- Slovenian

West Slavonic group

- Polish
- Bohemian
- Moravian
- Slovakian
- Sorbian
- Polabian

Lettic

- Old Prussian
- Lithuanian
- Lettish (Livonian)

492 Semitic

Northern group

- Aramaic
  - Babylon and Nineveh cuneiform
- Chaldee
- Syriac (Peshito)
  - Central group
- Hebrew
- Samaritan
- Phenician (Carthaginian)

Southern group

- Arabic
- Ethiopian (Amharic)
- Himyaritic

493 Hamitic

- Old Egyptian
  - See 419 Hieroglyphics
- Coptic

494 Scythian

Ural-Altaic

Turanian

Dravidian Tamil Finnish Turkish Magyar, Hungarian

495 Eastern Asiatic

Chinese Japanese

496 African

Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above

497 North American

498 South American

499 Malay-Polynesian and other
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<td>.9 Problems and tables</td>
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512 Algebra

.1 Systems of algebra

.2 Numeric equations Imaginary expressions

.21 Equations, 1st to 4th degrees

.22 Higher numeric equations

.23 Indeterminate equations Diophantin analysis

.24 Imaginary expressions

.3 Algebraic equations Maxima and minima

.4 Series Fractions Binomial theorem Taylor's theorem

.5 Combinatory analysis

.6 Proportion and progression

.7 Involution and evolution

.8 Higher algebra

.81 Theory of numbers See 511.1 Systems of arithmetic

.82 Theory of equations Complex variable See also 517.8

.83 Determinants

.84 Symmetric functions

.85 Elimination: eliminants and discriminants

.86 Transformations Substitutions

.87 Quantics

.88 Invariants Covariants Contravariants

.89

.9 Problems and tables

513 Geometry

Plane and solid geometry bound together is put 513. Descriptive geometry is 515
See also 744 Mathematic drawing

.1 Plane geometry

.11 Right lines

.12 Intersecting lines

.13 Parallel lines

.14 Triangles

.15 Quadrilaterals

.16 Other polygons

.17 Similarity

.18 Areas

.19 Maxima and minima

.2 Curves

.21 Circles

.22 Conic sections

.23 Ellipse

.24 Hyperbola

.25 Parabola

.26 Higher plane curves
DECIMAL CLASSIFICATION

513.3  Volumetric or solid geometry
     .31  Lines and planes
     .32  Intersecting planes
     .33  Parallel planes
     .34  Polyedrons
     .35  Pyramids
     .36  Prisms
     .37  Regular
     .4  With curved surfaces
         .41  Sphere
         .42  Cone
         .43  Cylinder

5  Modern geometry
     .51  Points  Lines  Planes  Duality
     .52  Transversals
     .53  Cones  Conics  Involution
     .54  Radical axes and centers of similitude
     .55  Poles and polars  Reciprocal polars
     .56  Harmonic and anharmonic properties
     .57  Correspondence  Correlation of figures
     .58  Quadric surfaces: spherocnics, curvs of double curvature
     .59  Surfaces of higher order: cubics

6

7

8  Absolute or non-Euclidean geometry

9  Problems

514  Trigonometry
     .1  Trigonometric functions  General formulas  See 522.7
     .2  Trigonometric series
     .3  Exponential formulas
     .4  Solution of trigonometric equations
     .5  Plane trigonometry: solution of plane triangles; analytic
     .6  Spheric trigonometry  General formulas
         .7  Solution of spheric triangles
     .8  Differences of triangles, plane and spheric
     .9  Problems
Descriptive geometry and projections

See also 744 Mathematical drawing

.1 Orthogonal projection on 2 planes
  .11 Straight lines
  .12 Single curved lines
  .13 Double curved lines
  .14 Single curved surfaces
  .15 Double curved surfaces
  .16 Surfaces of revolution
  .17 Warped surfaces
  .18 Intersections of surfaces

.2 Isometric and analogous projections

.3 Oblique projection

.4 Conic projection

.5 Spheric projection
  See also 526.8 Map projection
  .51 Orthographic
  .52 Globular
  .53 Stereographic
  .54 Polar
  .55 Gnomonic
  .56 Conic
  .57 Cylindric

.6 Perspective
  See also 742 Drawing
  .61 Plane Parallel Oblique Angular
      See also Scene painting
  .62 Cylindric
      See also Panorama painting
  .63 Shadows; natural and artificial light
  .64 Reflections
  .65 Circles, cylinders and spheres
  .66 Distortions and corrections
  .67 Human figure
  .68 New methods Special devices

.7 Shades and shadows

.8 Stereotomy

.81 Stonecutting
  See also 693.12 Masonry; 730 Sculpture

.82 Carpentry
  See also 694.8 Building

.83 Stairbuilding
  See also 694.8 Building; 729.39 Architectural design
Analytic geometry

.1 Plane loci
  .11 Right lines

.14 Transformation of coordinates

Curvs

.2 Conic sections
  .21 Ellipse
  .22 Hyperbola
  .23 Parabola

.26 Higher plane curvs

Loci in space

.3 Right lines
  .32 Planes

.34 Transformation of coordinates

Curvd surfaces

.4 Conicoids or quadric surfaces
  .41 Ellipsoid
  .42 Hyperboloid
  .43 Paraboloid

.46 Surfaces of higher order

Modern analytic geometry

.5 Systems of coordinates
  .51 Abridged notation
  .52 Conics
  .53 Higher plane curvs
  .54 Poles and polars Reciprocal polars
  .55 Harmonic and anharmonic properties
  .56 Method of projection
  .57 Quadric surfaces: spherocnics, curvs of double curvatures
  .58 Surfaces of higher order: cubics

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.8 Quaternions: calculus of direction and position

.9 Problems
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|     | Differential and Integral calculus, bound together, is put here |
| .2  | **Differential**  
| .21 | Series  
| .22 | Indeterminate forms  
| .23 | Change of the independent variable  
| .24 | Theory of plane curves Curv tracing |
| .25 | Theory of curved surfaces  
| .26 | Maxima and minima  
| .27 | Problems |
| .3  | **Integral**  
| .31 | Formulas of reduction and integration  
| .32 | Definite integrals Eulerian integrals  
| .33 | Rectification Quadrature Cubature  
| .34 | Multiple integrals  
| .35 | Laplace's functions Bessel's and allied functions  
| .36 | Elliptic and hyperelliptic functions Abelian functions  
| .37 | Differential and partial differential equations  
| .38 | Problems and tables  
| .39 | Of variations  
| .4  | Of functions  
| .5  | Of finite differences  
| .6  | Of operations  
| .7  | Of imaginaries Complex variables See also 512.82  
| .8  | Problems |

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| .1  | **General principles** Direct and inverse probabilities  
| .2  | Mathematical and moral expectation  
| .3  | Testimony: decisions of juries and tribunals  
| .4  | Probability of future events deduced from experience  
| .5  | Life contingencies: annuities, life insurance See 368.3  
| .6  | Errors of observation Mean or average values  
| .7  | Method of least squares  
| .8  | Problems |
Astronomy

520.1 Astrology, see 133.5  520.2 Compendes  520.3 Dictionaries  520.4 Essays  
520.5 Periodicals  520.6 Societies  520.7 Study and teaching of astronomy  
520.8 Collections, etc.  520.9 History of astronomy  
See also note under Natural science in general, 500-509

521 Theoretical astronomy

Mathematical investigation of celestial motions, specially of the Solar system.  
Motions of individual bodies are class under separate heads in 523

Celestial dynamics

.11 General laws of equilibrium and motion  See also 531.2
.12 Law of universal gravitation and motion relativ to the sun  
See also 531.51
.13 Problem of 3 bodies
.14 Figures of heavenly bodies
.15 Rotation of heavenly bodies

Geocentric and heliocentric place

.21 Plane of orbit in space
.22 Position of orbit in its plane
.23 Position of body in its orbit
.24 Position of body in space
.25 Heliocentric longitude and latitude
.26 Geocentric longitude and latitude
.27 Variations of right ascension and declination
.28 Variations of longitude and latitude
.29

Orbits

.31 Definitions of orbits
.32 Determination from 3 observations
.33 Determination from 4 observations
.34 Variation of elements of orbit
.35 Correction of approximate elements of orbit
.36 Application of method of least squares
.37 Kepler's problem
.38 Equation of center and radius vector
.39

Perturbations

.41 Mutual action of planets
.42 Action of satellites
.43 Nonsphericity of planets
.44 Resisting medium

.5 Theory of planets

.6 Theory of satellites

.7 Theory of comets

.8 Theory of eclipses

.9 Precession and nutation  See also 522.95-96
Practical and spheric

Observatories
1. General plan, location
2. Material and mechanism of dome, drum, etc.
3. Transit buildings, wings, etc.
4. High altitude observatories
5. Portable
6. History, reports and serial publications of observatories

Telescopes
1. Reflecting
2. Refracting
3. Eye piece and accessories
4. Object glass
5. Mounting, tube, etc.
6. Equatorial mounting
7. Transit mounting
8. Observing chairs, etc.
9. Famous telescopes

Meridional instruments
1. Finding meridian line
2. Mural circles
3. Meridian circles
4. Transit: placing in position
5. Collimation constant
6. Level constant
7. Azimuth constant
8. Other constants, flexure, index error, etc.

Extra meridional instruments
1. Sextant and quadrant, reflecting circle, astrolabe
2. Altazimuth
3. Zenith telescope
4. Transit out of meridian
5. Heliometer
6. Equatorial
7. Prime vertical

Auxiliary instruments
1. Sidereal clock and chronometer
2. Electrochronograf
3. Micrometers
4. Personal equation machine
5. For illumination
6. For solar observation
7. Artificial horizons
8. Heliostat
522.6 Auxiliary observations

.61 Photometry See 535.2 Optics
.62 Photograpy See 535.8 Optics; 770 Photograpy
.64 Polarization See 535.5 Optics
.67 Spectroscopy See also 535.84

Technic; application to astronomy and use with telescope. For results see 523.37, 543.57, 523.67, 523.77, 523.87

.68 .69

.7 Spheric astronomy See also 514.6

.71 Celestial sphere Spheric coordinates
.72 Rectangular coordinates
.73 Transformation of coordinates
.74 Differential variations of coordinates
.75 Interpolation
.76 Meridian line Variation of compass
.77 Use of globes
.78 Reduction of observations to the meridian
.79

.9 Corrections

.91 Parallax
.92 Refraction See 535.3 Optics
.93 Semidiameter of celestial bodies
.94 Aberration
.95 Precession See 521.9
.96 Nutation •
.97 Personal equation See 522.54
.98 Instrumental errors
.99

523 Descriptiv astronomy

.1 Universe

.11 Structure of universe
.12 Nebular hypothesis
.13 Plurality of worlds
.14 Space and its temperature
.15 Resisting medium
.16 Cosmic dust
.17 Repulsiv force
Solar system

Distributive laws of planets

Conjunctions and oppositions

Motion of solar system in space

Constitution of planetary system

Stability of solar system

Ecliptic

Orrery, planetarium, gyroscope, etc.

See 531.34 Rotation

Zodiac

Constants: size, mass

Distance and parallax

Heat and light

Phases

Orbit and motions

Sidereal month, tropical, perigee and apogee, sun and earth's attraction, librations. See also 521.6 for Orbit

Features of surface: mountains, plains, etc.

Atmosphere

Physical condition

Spectrum

Eclipses

Charts, photographs, etc.

Mercury and intramercurial

Venus

Mars

Asteroids

Jupiter

Saturn

Uranus

Neptune and transneptunian

Charts, photographs, etc.

Aerolites

Fireballs

Meteoric showers, radiant points, etc.

Systems of meteors

Connection of comets and meteors

Spectrum

Height of atmosphere from observation

Zodiacal light

Aurora (borealis and australis)
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Maps, observations, and tables
Series of observatory publications may be kept together under 524, or under 522.19 with the history and reports of the observatory. Special maps or observations, e.g. on Sun or Moon, are better placed in subsections 9 under these heads in 523, with charts and photographs, e.g. 523.79, thus leaving these bracketed numbers 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep all maps and observations together.

Of moon  See also 523.39
Of planets  See also 523.49
Of comets  See also 523.69
Of sun  See also 523.79
Star catalogs  See also 523.89

525 Earth

1 Constants
11 Mass  Weight
12 Density
13 Dimensions, diameter
14 Figure: geomorphy, equatorial belt
15 Distance from sun
16 Parallax

2 Heat  Light

3 Orbits and motions
31 Period of revolution
32 Obliquity of ecliptic to equator
33 Eccentricity
34 Perturbations
35 Rotation
36 Foucault’s pendulum
37 Deviation of falling bodies and projectiles
38 Tables of the sun  Apparent motion  See 523.73 Sun

4 Geografic coordinates
41 Finding latitude  See also 527.1
42 By meridian altitudes
43 By Pole star
44 By altitude of 2 or more stars
45 By other methods
46 Finding longitude  See also 527.2
47 Terrestrial means: chronometers, telegraf, signals
48 Celestial signals: eclipses, occultations, transits
49 Lunar methods

5 Seasons
51 Effect of inclination of equator to ecliptic
52 Effect of eccentricity of earth’s orbit
53 Secular changes of seasons
54 Seasons on Mars and other planets
525.5 Tides
  .61 Mathematical theory
  .62 Effect of sun and moon in producing tides
  .63 Distribution, diurnal inequality, spring and neap, priming and lagging
  .64 Establishment of a port Coast form modification
  .65 Velocity of high of tide wave
  .66 Tides on inland seas
  .67 Supposed effect in retarding Earth's revolution
  .68 Tide registering and predicting machines
  .69 Tide tables

526 Twilight

Geodesy

526.2-8 apply to surveys of large tracts, requiring allowance for earth's curvature and more exact methods of determination. For local surveys see 529.6

.1 Theory and determination of Earth's figure
  .11 Potentials of ellipsoids
  .12 Equilibrium of rotating spheroid
  .13 Law of ellipticity
  .14 Airy's and Pratt's theories as to attraction of mountains
  .15 Determination of figure by Airy, by Bessel, and by Clarke
  .16 Ellipsoidal figure and position of axes
  .17 Geoidal figure

.2 Base measuring and apparatus
  .21 Standards of length and temperature
  .22 Apparatus of Struve, Bessel, Co‘by, U. S. coast survey, U. S. lake survey, etc.
  .23 Adjustments of apparatus
  .24 Location of base line
  .25 Field operations
  .26 Calculation of results and corrections
  .27 Verification

.3 Field work of triangulation
  .31 Reconnaissance
  .32 Stations
    Names, signals, tripods, scaffolds and towers, surface and underground monuments
  .33 Observations, instruments and records
  .34 Reduction to station's center
  .35 Corrections for phase of signal and eccentricity
  .36 Spirit leveling
  .37 Barometric leveling
  .38 Trigonometric leveling

These are methods. See 551.53, for results, lists of heights, etc.
Computation of triangulation

Spheric excess
Legendre’s theorem
Chord process
By spheric trigonometry
By spheroidal trigonometry
See also application of least squares, 522.6

L M Z formulas and applications

Direct deduction by Bessel
Deduction by Puissant
Tables for computation

Theory of least squares in adjustment of figures, etc.

Method of independent angles
Adjustment of a quadrilateral
Adjustment of triangulation net
Method of directions
Adjustment for closure of a circuit
Method of repetitions
Adjustments of base mesures
Adjustments of leveling

Astronomic determinations and their connection with geodetic results

Latitude determinations
Longitude determinations
Azimuth determinations
Effect of irregularities of Earth’s surface on latitude, longitude and azimuth
Effect of same on angles of triangle

Gravity experiments and results

Mathematical theory
Pendulum apparatus
Pendulum operations
Corrections
Reduction of results

Map projections
See 515.5 Spheric projections

Prospectiv projections
Orthomorfic projections
Development projections
Zenithal projections
Equivalent projections

Surveying

Instruments and methods
Mesurement of distances
526.93 Mesurement of angles
   Mesurement of heights
   Leveling See 526.36-38
   Plotting
   Computation of areas
   Topographic drawing
   For special purposes: military, naval, railroad, mining, etc.

527 Navigation
   .1 Finding latitude at sea See also 525.41
   .2 Finding longitude at sea See also 525.46
   .3 Finding time at sea See also 529.74
   .4 Sumner's method
   .5 Great circle sailing

528 Ephemerides Nautic almanacs
   .1 American
   .2 English
   .3 German
   .4 French
   .5 Italian
   .6 Spanish
   .7 Slavic
   .8 Scandinavian
   .9 Construction of ephemeris

529 Chronology
   .1 Sidereal and solar day
      Apparent and mean time, equation of time, causes of inequality
   .2 Solar year, months
   .3 Calendars; including early and Oriental
      Calendar of Julius Caesar
      Calendar of Gregory, 1582—Almanacs
      Ecclesiastic calendar: determination
      For feasts, etc. and calendars themselves, see 264.021, 264.031, etc.
   .7 Horology
      .71 Finding time by transit
      .72 Finding by equal altitudes
      .73 Finding by single altitude
      .74 Finding by sextant See also 527.3
      .75 Time systems and standards
      .76 Distribution of time
      .77 Cosmic time
      .78 Instruments for measuring; dials, hourglasses, clocks
      watches, etc.
      See 522.51 for Sidereal clocks and chronometers
      See 681 for Clock and watch making
530  Physics

Like Science in general: viz, general works only are arranged
530.1 Philosophy .2 Compendes, textbooks .3 Dictionaries .4 Essays, lectures, etc.
.5 Periodicals .6 Societies .7 Education, methods of teaching, experiments
.8 Physical units, measuring instruments .9 History

531  Mechanics

.1 Pure motion  Kinematics
.2 Statics  Graphic statics
.21 Force and its mesure
.22 Composition of forces and motions
.23 Moments
.24 Parallel forces  Center of gravity

.3 Dynamics  Kinetics
.31 Rectilinear motion
.32 Vibration
.33 Undulation
.34 Rotation
.35 Centrifugal and centripetal force

.4 Work  Friction  See 621.89 Lubrication
.41 Unit of work
.42 Diagram of work
.43 Laws of friction  Modulus of machines
.44 Sliding friction
.45 Rolling friction

.5 Gravity
.51 Law of universal gravitation
.52 Laws of falling bodies
.53 Pendulum
.54 Mass, density, etc.
.55 Projectils
.58 Apparatus for illustration

.6 Conservation of energy

.7

.8 Machines  Transmission of force
See also 621.8 Mechanism of transmission
.81 Lever and balance
.82 Wheel and axle
.83 Cord and catenary
.84 Pulley
.85 Inclined plane
.86 Wedge
.87 Wedge
.88

.9 Tables  Problems  Questions
532 Liquids Hydrostatics Hydraulics

.1 Properties of liquids Pressure
.2 Equilibrium of liquids
.3 Buoyant effects Floating bodies
.4 Specific gravity Hydrometer
.5 Liquids in motion Hydrodynamics
.51 Theoretic flow
.52 Orifices, adjutages, fluid vein
.53 Weirs, overfalls
.54 Pipes, open channels, rivers
.55 Bends, valves, sudden enlargements and contractions
.56 Efflux; variable pressure
.57 Hydrometry Velocity
.58 Impulse and resistance
.59 Theory of waves
.6 Capillary attraction
.7 Osmose Absorption
.8 Applications Machines See 621.2 Water engines

Except for libraries making Physics much more prominent than Useful arts, all the 'Applications' will be more useful under their proper heads in Useful arts.

It is better to keep all the material in one place, referring to it from the other, rather than attempt division.

.81 Hydraulic press See also 621.266
.82 Hydraulic engine See also 621.25
.83 Water ram See also 621.27
.84 Water wheels See also 621.21
.85 Water blast See also 621.269

.9 Tables Problems Questions

533 Gases Pneumatics

.1 Properties of gases and vapors Adsorption
.2 Laws of compressibility
.3 Atmosphere
.4 Barometer
.5 Air pump
.6 Aeronautics
.7 Kinetic theory of gases
.8 Applications See 621.6 Blowing and pumping engines

Preferably class in Useful arts, see 532.8. note

.82 Manometer Pressure gages See 621.18 Steam generation
.83 Condensing pump
.84 Force pump
.85 Suction pump
.86 Diving bell
.87 Forge bellows
.88 Pneumatic dispatch

.9 Tables Problems Questions
534 Sound Acoustics

.1 Theory Undulations
.2 Propagation of sound: velocity, diffraction
.3 Musical sound Tuning forks See also 781.1 Theory of music
.4 Analysis of sounds Resonators
.5 Superposition of vibrations
.6 Graphic representations
.7 Physiologic: ear and larynx

For other relations see Ear, Larynx, in Relativ index following Tables

.8 Applications Preferably class with topics elsewhere See 532.8, note

.81
.82
.83 Signals in navigation See also 654.9 Communication
.84 Applications to architecture
.85 Musical instruments See also 780 Music
.86 Phonograf

535 Light Optics

.1 Theory
.2 Propagation Velocity Mesurement of light
.3 Reflection Refraction Absorption

See also 522.92 Astronomy

.4 Dispersion Diffraction Interference
.5 Polarization Polariscope Double refraction
.6 Color
.7 Physiologic: eye

Optical principles of sight. See also Eyes in Relativ index

.8 Applications Preferably class with topics elsewhere See 532.8, note

.81 Lenses and prisms
.82 Microscopes and magnifiers See also 578 Microscopy
.83 Telescopes See also 522.2 Astronomy
.84 Spectroscopes and spectrum analysis

Most general number. See also Spectroscopy, Spectrum, in Relativ index for other relations and applications

.85 Photograpfy See also 770
.86 Other applications of lenses
.87 Mirrors and reflecting instruments
.88 Lighthouses See also 627.9 Harbor engineering; 656 Commerce

.89

.9 Tables Problems Questions
Heat

.1 Theory Nature

.2 Communication

.3 Action of bodies on heat
  .31 Reflection
  .32 Refraction
  .33 Radiation
  .34 Absorption
  .35 Diathermancy

.4 Effects Action of heat on bodies
  .41 Expansion
  .42 Liquefaction
  .43 Solidification
  .44 Vaporization and condensation
  .45 Incandescence
  .46 Combustion Flame

.5 Temperature See also 551.52 Meteorology; 613.18 Hygiene
  .51 Thermometry
  .52 Pyrometry
  .53 Electric methods of measuring

.6 Calorimetry

.7 Thermodynamics Mechanical equivalent

.8 Applications Preferably go in Useful Arts. See 532.8, note
  .81 Steam engines See 621.1 Engineering
  .82 Gas engines See 621.43 Engineering
  .83 Heating See 697, 621.19, 628.8, 624
  .84 Ventilation See 697, 622.4, 628.8

.9 Tables Problems Questions

Electricity

See also 621.3 Electric engineering

.1 Theory Nature

.2 Static
  .21 Quantity, potential
  .22 Conduction, distribution
  .23 Machines
  .24 Condensers
  .25 Electrometers

.3

.4 Atmospheric Lightning rods

.5 Dynamic
  .51 Theory of coils Constants
  .52 Induction spark
  .53 Induction spark in rarified gases

.6 Electro dynamics

.7 Electric measurements
NATURAL SCIENCE

537.8 Applications Preferably class in Useful arts. See 621.3, and 532.8, note
.81 Telegraf For telegraf business see 654
.82 Telefone Microfone For telephone business see 654.6
.83 Dynamos Electric lighting
.84 Transmission of power Storage
.85 Electrometallurgy
.86 Galvanometers Batteries Coils
.87 Medicin See also 615.84
.88 Electric signals See 654.9
.9 Tables Problems Questions

538 Magnetism
For Animal magnetism, Mesmerism, etc., see 134
.1 Theory Properties of magnets Lines of force
.2 Communication Induction Touch
.3 Electromagnetism
.4 Diamagnetism
.5
.6
.7 Terrestrial magnetism
.8 Applied Magnetic machines
.9 Tables Problems Questions

539 Molecular physics
.1 Theory Molecular structure Vortex rings Atomic structure, Quantum theory
.2 Properties of solids
.3 Elasticity Torsion
.4 Strength of materials
See also 620.1 Engineering materials
.5 Permanent displacement of molecules
.51 Malleability
.52 Ductility
.53 Hardness
.54 Tempering
.6 Intermolecular forces
.7
.8
.9 Tables Problems Questions
540 Chemistry

Pure or theoretic chemistry
.1 Theories, alchemy, phlogiston .2 Compendes .3 Dictionaries, encyclopedias
.4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods of teaching .8 Collective works .9 History

SUMMARY
541-542 General chemistry
541 Chemic theories
542 Operativ and experimental chemistry
543-545 Analytic chemistry
543 Analysis
544 Qualitativ analysis
545 Quantitativ analysis
546 Inorganic chemistry
547 Organic chemistry

REFERENCES
615 Medical " 660 Chemic technology
660 Chemic technology 669 Metallury
616.076 Pathologic " 770 Photografy

541 Theoretic chemistry  Physical chemistry

Modern chemic theories General properties of bodies from chemic point of view
Composition Constitution Elements and compounds Affinity
Fo-mu’as Nomenclature

.1 Atomic theory
Ultimate constitution of matter. Nature and phases of ultimate particles:
atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to
chemic properties of bodies. Laws of chemic combination: weight, definit
proportions, equivalence, multiple proportions. Laws of volume for gases.
Simple or compound nature of chemic elements. Molecules. Atomic and
molecular weights; methods of determination. Atomic and molecular volumes
Laws fundamental to atomic theory; see also 541.9 Classification, periodic law,
etc.
See also physics, 532.4 Specific weights

.3 Physical chemistry
Borderland between physics and chemistry. Including densities in different
phases; chemic affinity, statics and dynamics; thermochemistry and electro-
chemistry
.31 Solid state
See also physics, 536.43 Solidification; 539.2 Properties of solids
.32 Liquid state
See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34
Solution
.321 General
Surface tension, vapor tension, viscosity, capillarity
.325 Special types of liquids: gelatinous liquids
.326 Inorganic liquids
.327 Organic liquids
.33 Gaseous state
Subdivide like 541.32. See also physics, 533.1 Properties of gases; 536.41
Vaporization
Solute state  Solubility

General
Surface tension, viscosity, diffusion, osmosis, conductivity. See also 532.7 Osmose of liquids; 542.7 Dissolving

Theories: kinetic, hydrate and dissociation

General
Surface tension, viscosity, diffusion, osmosis, conductivity. See also 532.7 Osmose of liquids; 542.7 Dissolving

Solution pressure  Solubility

Solution pressure  Solubility

Solubility and solution of different forms

1 Solids 2 Liquids 3 Gases Absorption

Solution types

Colloid solutions  Emulsions
Including general discussion of colloids

Solutions

Photochemistry
Relation of light to chemic action, of polarized light to chemic structure, etc.

Thermochemistry

Electrochemistry

Magnetochemistry

Radiochemistry
Chemistry of radioactiv substances

Chemic dynamics, statics and equilibrium  Affinity
Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaunder, van't Hoff); thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of Duhem, etc) Reaction velocities. Accelerating and retarding influences. Catalysis. See also in physics 536.7 Thermodynamics and energetics

Various types of compounds
Acids, bases, salts, alloys

Molecular types

Compound radicals
Stereochemistry  Formulas of structure

Allotropy
Isomerism  Amorpfous and crystallin states  Tautomerism  Polymerism
Class here material on structure not included in 541.6

Other general subjects
Classification  Nomenclature  Notation  Formulas  Stoichiometry
Tables  Periodic law
Practical and experimental chemistry

Manipulations and chemical operations

For analyses see 543-545

Laboratories

Interior construction and installation General arrangements For architecture see 727.5

Apparatus and manipulations

For special apparatus see 542.3-9

Manipulations Arrangements Procedure

Preparation of substances

Mechanic separation: triturations, pulverization, porphyrizations; mortars and pestles, crushers, sifting and sieves. Disintegration by wetting heated mass. Levigation

Laboratory receptacles and their accessories

For uses of receptacles see also various processes and operations

Glass and quartz

Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glass rods and tubing

Glass manipulation: blowing, grinding

Porcelain

Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates

Metallic

Containers made of platinum, silver, iron, nickel, aluminum, etc.

Supports

Fixt. adjustable, wood. Triangles, tripods, clamps

Stoppers

Glass, cork, rubber Corkborers

Rubber tubing Luting and cements

Other appliances

Mesuring apparatus

Determination of weights and density

Balances and weights Descriptions and directions for use

Specific gravity apparatus Class preferably in 532.4

Determination of volume

Mesuring volume of liquid Calibrated vessels Graduated pipets, burets and cylinders

Heating

Distillation

See also 536.5 Mesurement and regulation of heat; 542.53 Blowpiping

General

Heating with coal

Laboratory furnaces: trough, cupola, reverberatory, tubular, cupel, blast

Tube furnaces for organic analysis

Heating with liquid fuels, etc. Lamps; special burners

Heating with gas

Coal gas, carburetted air, acetylene, etc.

Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators

Indirect heating

Baths and heaters: water baths; salt, metal and oil baths; metal plates or wire gauzes

Electric heating

Heaters, muffles and furnaces; kryptol furnaces

See also 542.8 Electric and galvanic manipulations

Operations

Melting, fusing, boiling. Vaporization, distillation. Distilling apparatus, alembics or stills. Deslegmators. Vapor operations

Evaporation with heat: sublimation, dessication. For evaporation in vacuum see 542.77

Other heating operations
Flames

Blowpipes

See also 544.2 Dry methods of analysis; 669.9 Assaying

Flame

Nature of flame; candle flame; oxidizing and reducing flames

Coloration of flame

Beads, colored beads Composit flames

Blowpipes

Varieties of blowpipes and how to use them

For applications see Blowpiping in Relativ index following Tables

Aqueous and liquid treatment

Dissolving, aqueous separation, levigation, etc; alcohol, ether, carbondisulfid, hydrocarbons, etc.

Dissolving Solution

Solvents, maceration, digestion, decoction, lixiviation

Determination of solubility Supersaturation

Supersaturated solution

Diffusion

Lowering the solidification point or surfusion

Dialysis Dializers

See also qualitativ analysis 544.5 Dialysis

Solidification

Precipitation, crystallization, crystallizers

Decantation

Decantation funnels, Florentin receivers, sifons, pipets

Filtration and filters

Filtration with textils, with paper, thru cotton, asbestos, powders, etc.

Hot filtration Filtration in sealed vessels, by suction, by compression

Filter presses

Expression and presses Drying of press residues; drying machines

Washing Continuous, automatic; decantation, wash bottles

Gas manipulation

See also 545.7 Eudiometry

General

Gas production

Gas collecting and decanting

Pneumatic trof, gas sampling-tube, gas pipets; displacement and decanting

Washing and dissolving gas

Wash bottles Apparatus for drying and absorbing gas

Gas storage Gasometers, rubber bags

Gas measurement Graduated tubes, meters

Rarefaction of gas

Pumps: air, vacuum, mercury; blowing engines, bellows, suction gasometers; manometers; vacuum regulators; trompes

See also physics, 533.5 Air pumps

Gas compression

Sealed tubes and bulbs, bellows, compression pumps, gasholders

Gas liquefaction and solidification

Faraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde
Electric and galvanic manipulations
See also physics, 537.85 Applications of electricity to chemistry. Class here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

Other operations
Attacks by acids and gases: oxidations, reductions etc

543-545 Analytic chemistry

543 Analysis
Divided by material analyzed, whether qualitatively or quantitatively; i.e. substance takes precedence of process. Class in 543 general works covering both qualitatively and quantitatively analysis.
See also 614.3 Adulterations

.1 Analysis of food and drink
See also 613.2 Hygiene, 612.39 Nutrition

.2 Dairy products Milk
See also agriculture, 637 Dairy products

.3 Water
See also hygiene 613.3 Water as a beverage; and therapeutics 615.79 Mineral waters

.4 Analysis of drugs and medicines
See also 614.35 Inspection of drugs; 615 Medicin

.5 Poisons
See also 615.9 Toxicology

.6 Analysis of rocks and ores
See also 549 Mineralogy, 669.9 Assaying, 637 Agricultural chemistry

.7 Analysis of inorganic products in general
For general works and special matter not provided for in previous subdivsions of 543

.8 Analysis of organic products in general
For general works and special matter not provided for in previous subdivsions of 543

.9 Analysis of organic products of animal origin
For general works and special matter not provided for in previous subdivsions of 543 See also 577 Biology
544 Qualitativ analysis

Determination of chemic elements of substances General processes and methods

.1 Wet method
.11 Reagents
.12 Determination of bases
.13 Determination of acids

.2 Dry method
See also 669.9 Assaying
See also 542.53 Manipulation, 549.1 Mineralogy

.4 Gas analysis Reactions
Identifying an isolated gas Analysis of gaseous mixtures See also 545.7
Eudiometry

.5 Dialysis
For technic see 542.64; for electric dialysis see 542.8

.6 Spectrum analysis
See also physics, 535.84 Spectrum analysis

.7 Polariscopic analysis
See also physics, 535.5 Polarization

.8 Microscopic examinations

.9 Other methods
Electro analysis
Capillary analysis

545 Quantitativ analysis

.1 Gravimetric
Analysis by weighing, sampltaking

.2 Wet method
Titration solution, alkalimetry, acidimetry

.3 Electric methods
See also physics, 537.85 Electrometallurgy
For galvanoplastics see 671

.311 Constant current analysis

.312 Constant voltage analysis

.36 Catalytic analysis

.4 Dry method
Quantitativ analyses with blowpipe, cupellation etc
See also 669.9 Assaying

.5 Titrometric methods in general

.6 Volumetric analysis of liquids
See also 542.3 Measuring apparatus

.7 Volumetric analysis of gases
Eudiometry and eudiometers; gas burets, absorption pipets
See also 544.4 Gas analysis

.8 Other methods
Colorimetric Polarimetric Refractometric

.9 Synthesis
General processes

.97 Electric synthesis
## Inorganic chemistry

### 1. Nonmetallic elements
- **11. Hydrogen**
- **12. Halogen group**
  - Chlorin
  - Bromin
  - Iodin
  - Fluorin
- **17. Nitrogen group**
  - Nitrogen
- **18. Phosphorus**
- **19. Arsenic**

### 2. Oxygen group
- **21. Oxygen**
- **22. Sulfur**
- **23. Selenium**
- **24. Tellurium**

### 25. Carbon group
- **26. Carbon**
- **27. Boron**
- **28. Silicon**

### 29. Helium group
- **291. Helium**
- **292. Neon**
- **293. Argon**
- **294. Krypton**
- **295. Xenon**

### 3. Metals
- **31. Alkali group**
  - **32. Potassium**
  - **33. Sodium**
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### 4. Alkalin earths
- Calcium and magnesium groups considered together
  - **41. Calcium**
  - **42. Strontium**
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### 44. Magnesium group
- **45. Beryllium or glucinum**
- **46. Magnesium**
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    .86 Antimony
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    .891 Niobium or columbium
    .892 Polonium See also 541.38
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  .91 Gold
  .92 Platinum
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  .95 Ruthenium group
  .96 Ruthenium
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      Arrange alphabetically

547 Organic chemistry

.1 Cyanogen and its compounds
.2 Hydrocarbons Fatty series
    For occurrence as minerals see 549.8
  .21 Paraffins
  .22 Olefins
  .23 Acetylenes
  .24 Valylene Dipropargyl, etc.
.25 Aromatic series
  .26 Benzenes
  .27 Diphenyl group
  .28 Naphthalene Anthracene Phenanthrene
  .29 Higher series
      The 7 heds 547.3-547.9 are subdivided like 547.2
.3 Alcohols Phenols
.4 Ethers: simple, compound; haloid
.5 Aldehydes
.6 Ketones Quinones
.7 Acids: acid halids, acid anhydrids, sulfo-acids
.8 Nitroderivates: amins, compound ammoniums, amids,
      amic acids, azo-bodies, azoxy-bodies, hydrazo-bodies,
      diazo-bodies
.9 Compounds with metals
548 Crystallography

General; phenomena of a special mineral belong with that mineral; e. g. cleavage of borates 549.73

.1 Systems of crystallization
.2 Twin crystals Crystallin aggregations
.3 Cleavage Isomorphism Polymorphism
.4 Irregularities Internal imperfections
.5 Formation and growth of crystals
.6 Pseudomorphs
.7 Mathematic: measurement of angles
.8 Physical
.9 Optical

549 Mineralogy

.01 Philosophy, classification .02 Compendia .03 Dictionaries .04 Essays, papers, etc. .05 Periodicals .06 Societies .07 Study and teaching, museums .08 Collectiv works .09 History

.1 Determinativ Blowpiping
See also 543.6 Methods of analysis of rocks and ores
See 542.53 Blowpipes and their manipulation. For other relations see Blowpiping in Relative index following Tables

.2 Nativ elements

.3 Sulfids, tellurids, selenids, arsenids, antimonids, bismuthids

.4 Compounds of chlorin, bromin, iodin, and fluorin

.5 Oxygen compounds: oxides

.6 Silicates

.61 Anhydrous
.65 Hydrous

.7 Other ternary oxygen compounds

.71 Tantalates Columbates
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Nitrate

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.75 Anhydrous sulfates
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.8 Hydrocarbons
Occurrence as minerals. For chemistry of hydrocarbons see 547.2; for economic geology see 553.2

.9 Geografic distribution
550  Geology

550.1 Philosophy, theories, geologic time  .2 Compend  .3 Dictionaries  .4 Essays papers, tracts, letters  .5 Periodicals  .6 Societies  .7 Study and teaching, museums  .8 Collectiv works  .9 History

551  Physical and dynamic geology

Including geogeography (physiografy, physical geografy) and geochemistry broadly treated; see also 551.94. For Cosmic geografy, see 523

.1  Structure of earth as a whole
  .11  Interior of earth
  .12  Internal heat
  .13  Earth's crust
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  .31  Glaciers and glacial phenomena
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.4  Surface features of the earth
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  .41  Continents
  .42  Islands
  .43  Mountains  Valleys  Orlogy
  .44  Caves
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  .48  Rivers  Lakes
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.5  Meteorology  Climate
  .51  Atmosferic currents  Winds
  .52  Thermometry, heat.
  For other relations see Heat, Temperature, in Relativ index following Tables
  .53  Hypsometry, elevations
  .54  Barometry, presure
  .55  Storms
  See also 537.4 Atmosferic electricity
  .56  Moisture: rainfall, flow of streams, floods
  .58  Prairies, forests, and deserts
Metamorphism

Stratigraphic geology

Archean

Primary, palaeozoic, Cambrian

Silurian

Lower Silurian

Upper Silurian

Devonian Old red sandstone

Carboniferous

Secondary, mesozoic, triassic and Jurassic: lias, oolite

Cretaceous

Tertiary, cenozoic

Eocene, oligocene

Miocene

Pliocene

Quaternary Postplicene Glacial

Recent

Structural geology

Stratification

Curvature and contortion

Ripple marks and sun cracks

Joints Cleavage Polarity in rocks

Dip Outcrop Strike

Anticlinal Synclinal

Faults and folds Dislocations

Veins Dykes Necks Bosses

Agents of geologic work

Frost

Water

Atmosphere

Geochemistry

Chemical changes: heat. See also note to 551

Animals

Coral reefs

Plants

Segregation and concretion

Other agents
552 Lithology Petrografs Petrology

.1 Igneous rocks
   .2 Volcanic rocks
      .21 Lavas Scoria
      .22 Volcanic ashes Volcanic tufa Tuff
      .23 Obsidian Pumis Pitchstone
      .24 Trachyte
      .25 Rhyolite
      .26 Andesite Dacite Phonolite
      .27 Felsites
      .28 Basalt
      .29 Other volcanic rocks
      .3 Plutonic rocks
         .31 Porphyry Porphyrite
         .32 Syenite
         .33 Granit
         .34 Diabase and gabbro
         .35 Dolerite
         .36 Diorite
         .37 Norite
         .38 Peridotite
         .39 Other Plutonic rocks
      .4 Metamorphic rocks
         .41 Granits and syenites
         .42 Gneiss
         .43 Schists
         .44 Slates Argillite Phyllite
         .45 Quartzite Novaculite Itacolumite
         .46 Marble Crystallin limestone
         .47 Serpentine
         .48 Chrysolitic rocks
         .49 Other metamorphic rocks
      .5 Sedimentary rocks
         .51 Sandstone Conglomerate Sand Gravel
         .52 Shale Clay Silt
         .53 Gypsum Salt
         .54 Limestone Marl Ooze
         .55 Dolomite
         .56 Oolite
         .57 Infusorial or diatomaceous earth
         .58 Glauconite Greensand
         .59 Other sedimentary rocks
      .6 Meteorites
      .7 Decay of rocks
Microscopic petrography
Determination of rock minerals
Rock structure

Economic geology
See also 622 Mining engineering

Ore deposits
Formation and structure
Classification
Superficial: placers
Stratified: beds, etc.
Unstratified
Disseminated thru eruptiv rocks
Stockwerks Fahlbands Contacts
Chambers and pockets Impregnations
Mineral veins

Carbon series
Peat
Lignite and jet
Cannel coal Bituminous shale
Bituminous and semibituminous coals
Anthracite and grafitic anthracite
Grafite Plumbago
Asfalt and asfaltic coals Ozocerite
Petroleum Natural gas
Fossil gums and resins

Ores of iron

Ores of metals other than iron
Ores of gold
Ores of silver
Ores of copper
Ores of led
Ores of zinc and tin Mercury
Ores of manganese and chromium
Ores of antimony and arsenic
Ores of nickel and cobalt
Other metallic ores

Bilding stones
Marbles and limestones
Granits and syenites
Sandstones
Slates
Serpentines Soapstones
Porphyries
Trap
Tufa Peperino
Other bilding stones
553.6 Earthy economic minerals
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   .62  Sands
   .63  Rock salt  Gypsum
   .64  Phosphates  Apatite  Guano  See also 631.8
   .65  Emery  Corundum
   .66  Hevy spar  Sulfur
   .67  Asbestos, etc.
   .68  Limes and mineral cements
   .69  Other earthy economic minerals

.7 Mineral waters
   Divide general works with o geographically like 930-999; e.g.
   Mineral waters of Germany. 553.7043
   .71  Alkalin
   .72  Salin
   .73  Chalybeate, ironbearing
   .74  Sulfuric
   .75  Calcic
   See also 551.23

.8 Gems  Ornamental stones
.9 Other economic minerals

554 Geology of Europe  554-559 subdivided by countries like 940-999
555 Geology of Asia
556 Geology of Africa
557 Geology of North America
558 Geology of South America
559 Geology of Oceanica  Polar regions

560 Paleontology  Use form divisions as in 550 and divide .9 geographically
   like 930-999; e.g. Paleontology of England is 560.942
561 Plants  561 is subdivided like Botany, 580
562 Invertebrates  562-569 is subdivided like Zoology, 592-599
563 Protozoa  Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes  Batrachia
568 Reptils  Birds
569 Mammals
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### Archeology

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  .83  Lake dwellings  Crannoges
  .84  Cliff dwellings
  .85  Pueblos
  .86  Tents as dwellings
  .9  Mounds and monuments
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  .92  Grave mounds
  .93  Kitchen middens  Shell banks
  .94  Monoliths  Cromlechs
  .95  Circles  Labyrinths
  .96  Cairns
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572  Ethnology  Anthropology
    See also 136.4  Mental race characteristics
  .1  Unity of the human race
  .2  Diversity of races
  .3  Migrations of men
  .4  Original home of man: Eden, Atlantis, etc.
  .5
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  .7  Savages: races divided by practises
      Class description of savages of special country in 914-919; e.g. Australian bush-
      men 919.4
  .8  Races divided by language like 400
  .9  Races divided by countries like 930-999
      Divide by countries where possible. Use language divisions for groups like
      Semitic, Aryan, Teutonic, English, etc.

573  Natural history of man  Somatology
  .1  Man's place in nature
  .2  Origin of man
  .3  Antiquity of man
  .4  Influence of climate and surroundings
  .5  Color in man
  .6  Anthropometry
  .7  Craniology
  .8  Dwarfs and giants
  .9  Monstrosities
    See also 611.012 Teratology; 613.91 Congenital defects; 617.3 Deformities
574  Homologies

575  Evolution

See also 213 Creation; 215 Religion and science; 239.8 Apologetics

.1  Heredity
   For other relations see Heredity in Relativ index following Tables

.2  Variation  See also 591.15 Physiologic zoology

.3  Environment  See also 136.2 Mental; 573.4

.4  Natural selection  Survival of the fittest

.5  Sexual selection

.6  Development

.7  Degeneration

.8  Origin of species

.9  Origin of sexes  See also 591.36 Embryology

576  Origin and beginnings of life

[576-577 are undergoing revision that will change some numbers and greatly enlarge them in a late edition]

.1  Spontaneous generation

.2  Protoplasm  Bioplasm

.3  Cells

.4  Beginnings of motion and sensation

.5

.6

577  Properties of living matter

.1  Chemic: difference between organic and inorganic

.2  Life: difference between dead and living matter

.3  Difference between vital and physical phenomena

.4  Conditions of life: moisture, temperature

.5  Difference between plants and animals

.6  Vital force

.7  Deth  See also 612.013

.8  Sex in nature

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578  Microscopy  See also 535.82 Optics

.1  Varieties of microscopes

.2  Optic parts

.3  Mechanical parts

.4  Accessory apparatus and management of microscope
   Illuminating apparatus

.6  Preparation and mounting of objects

.7  Special preparation and study of inorganic material

.8  "  botanic material  See 581.8 Histology

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579. Collectors manuals
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   .2 Preservatives and hardening fluids
   .3 Injections
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   .5 Mounting specimens
   .6 Collecting
     .611 Alluring; bait, light, etc.
     .612 Hunting; nets, collecting bottle, etc.
     .613 Killing
     .614 Exchange Purchase
     .615 Rearing
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   .7 Arrangement of specimens in museums
     .71 Cabinets .72 Labels
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580 Botany

580.1 Philosophy, classification, nomenclature .2 Compendia .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching, herbariums, botanic gardens .8 Collectiv works .9 History

581 Physiologic and structural botany

Subdivided where wished like 591

.1 Physiology
.2 Pathology Teratology
.21 Diseases
.22 Teratology
.23 Parasites
.3 Embryology Germination
.4 Morfology Comparativ anatomy
.5 Habits
.6 Economic
.7 Organografy Descriptiv anatomy
.8 Histology See 578.8
.9 Geografic

Geografic

91 Distribution of plants
Subdivide .93-99 like 930-999 Use .92 for ocean, marine flo a
This Geografic classification is to be used only for general works and cross references 'Flora of North America' is put 581.97; but 'North American cryptogams' is last 586 with a reference from 581.97, but North American phanerogams go with 581.97 because it so completely covers the subject
General works covering both Phanerogamia and Cryptogamia are put under 580 as books covering Vertebrates and Invertebrates are put under 590
In applying these numbers to Fossil plants, 561, note that one more figure must be used than in fossil animals. The Zoology numbers are already given in the 3d place in Paleontology, e. g. 592 Invertebrates, 562 Fossil invertebrates, and so on to 599 Mammals, and 569 Fossil mammals. But in Fossil plants, 561, all 8 sections are group together and the section number must be repeated. Fossil phanerogams are 561.2 not 562, which is assignd to Invertebrate zoology as more important. Lichens are 561.91, etc. In the same way the Fossil flora of North America is 561.97, i. e. the first 2 Botany figures, 56, are changed to 561 to give the corresponding Fossil botany number, while in zoology the only change is from 59 to 56 for first 2 figures, except in 561 which can not change to 561, which is assignd to Botany. The Fossil fauna of North America must therefore go among general works under 560.97

582 Phanerogamia

See also 715 Trees; 634.9 Forestry

The subsections below are taken from the recognized authority, Bentham and Hooker's Genera plantarum

583 Dicotyledonæ

1 Polypetala

Ranales

11 Ranunculaceæ
111 Dilleniaceæ
112 Calycanthaceæ
113 Magnoliaceæ
114 Anonaceæ
115 Menispermaceæ
116 Berberideæ
117 Nymphaeeæ
Parietales
  .121 Sarraceniaceae
  .122 Papaveraceae
  .123 Cruciferae
  .131 Capparideae
  .133 Resedaceae
  .134 Cistaceae
  .135 Violaceae
  .137 Canellaceae
  .138 Bixaceae

Polygalineae
  .141 Pittosporaceae
  .142 Tremandraceae
  .143 Polygalaceae
  .145 Vochysiaceae

Caryophyllineae
  .151 Frankeniacae
  .152 Caryophyllaceae
  .153 Sileneae
  .154 Alsineae
  .155 Polycarpeae
  .156 Portulaceae
  .158 Tamariskaceae

Guttiferaleae
  .161 Elatineae
  .162 Hypericinaceae
  .163 Guttiferaceae
  .166 Ternstroemiaceae
  .167 Dipterocarpaceae
  .168 Chilenaceae

Malvales Malvaceae
  .18 Sterculiacae
  .19 Tiliaceae

Geraniales
  .211 Lineae
  .213 Humiriaceae
  .214 Malpighiacae
  .221 Zygophylleae
  .223 Geraniaceae
  .23 Rutaceae
  .241 Simarubae
  .245 Ochnaceae
  .247 Burseraceae
  .251 Meliacae
  .255 Chailletiacae
NATURAL SCIENCE

Olacales
- Olacineae
- Ilicineae

Celastrales
- Celastrineae
- Stackhousiaceae
- Rhamnaceae
- Ampelidaceae

Sapindales
- Sapindaceae
- Sabiaceae
- Anacardiaceae

Anomola
- Coriariaceae
- Moringaceae

Rosales
- Connaraceae
- Leguminosae
- Rosaceae
- Saxifragaceae
- Crassulaceae
- Drosieraceae
- Hamamelidae
- Bruniiaceae
- Haloragaceae

Myrtales
- Rhizophoraceae
- Combretaceae
- Myrtaceae
- Melastomaceae
- Lythraceae
- Onagraceae, oenotheras

Passiflorales
- Samydiaceae
- Loasaceae
- Turneraceae
- Passifloraceae
- Cucurbiyaceae
- Begoniaceae
- Datisceae

Ficoidales
- Cacteae
- Ficoidaceae

Umbellales
- Umbelliferae
- Araliaceae
- Cornaceae
Gamopetalæ

Rubiales  Caprifoliaceæ

Asterales

Valerianææ

Dipsaceææ

Calysereææ

Compositææ

Campanales  Stylidieææ

Goodenoviaeæ

Campanulaceææ

Ericales

Vacciniaceææ

Ericaceææ

Monotropeææ

Epacridææ

Diapensiaceææ

Lennoaceææ

Primulales

Plumbaginiaeæ

Primulaceææ

Myrsinææ

Ebenales

Sapotaceææ

Ebenaceææ

Styraceææ

Gentianaææ

Oleaceææ

Salvadoraceææ

Apocynaceææ

Asclepiadææ

Loganiaceææ

Gentianææ

Polemoniales

Polemoniaceææ

Hydrophyllaceææ

Boragineææ

Convolvulaceææ

Solanaceææ

Personales

Scrophulariaceææ

Orobanchaceææ

Lentibulariææ

Columelliaceææ

Gesneriaceææ

Bignoniaceææ

Pedaliææ

Acanthaceææ

Lamiales

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Selagineææ

Verbenaceææ

Labiateææ

Ordo anomalus  Plantagineææ
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- Curvembryeae
- Nyctagineae
- Illecebraceae
- Amaranthaceae
- Chenopodiaceae
- Phytolaccaecae
- Batideae
- Polygonaceae

- Multiovulatae aquaticae
  - Podostemaceae
- Multiovulatae terrestres Nepenthaceae
  - Cyrtineae
  - Aristolochiaceae
- Micrembryeae Piperaceae
  - Chloranthaceae
  - Myristiceae
  - Monimiaceae

Daphnales

- Laurineae
- Proteaceae
- Thymelaeaceae
- Penaeaceae
- Elaegnaceae

- Achlamydosporeae
  - Loranthaceae
  - Santalaceae
  - Balanophoreae

Unisexualae

- Euphorbiaceae
- Balanopseae
- Urticaceae
- Platanaceae
- Leitnerieae
- Juglandaceae
- Myricaceae
- Casuarineae
- Cupuliferae

Anomali

- Salicineae
- Lacistemaceae
- Empetraceae
- Ceratophylleae

584 Monocotyledonae

- Microspermeae
  - Hydrocharideae
- Burmanniaceae
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585 Gymnospermae

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| 2     | Coniferae |
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586 Cryptogamia

587 Pteridophyta

| 1     | Isoetaceae |
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2. Musci
3. Hepaticæ
4. Characeæ

Thallophyta

1. Lichenes
   11. Basidiolichenes
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   16. Angiocarpæ
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2. Fungi
   21. Carposporeæ
      22. Basidiomycetes
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24. Oosporeæ
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27. Zygosporæ
   28. Zygomycetes
   29. Myxomycetes, mycetozoa

3. Algae
   4. Carposporeæ
      41. Florideæ
      47. Coleochaetæ
   5. Oosporeæ
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   8. Chlorophyllaceæ
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Yeast
Saccharomycetes
Bacteria
Microbes

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590.2 Compend
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590.5 Periodicals
590.6 Societies
590.7 Study and teaching, zoologic gardens, aquaria, museums
590.8 Collectiv works
590.9 History

591 Physiologic zoology

.1 Physiology

.11 Circulation

.12 Respiration

.121 Nature

.122 Dermal

.123 Aquivascular

.125 Branchial

.126 Tracheal

.127 Pulmonary

.129 Exhalation of aqueous vapor

.13 Nutrition

.131 Acquisition of food

.132 Digestion of food

.133 Assimilation of food

.134 Growth

.135 Development

.136 Repair of waste

.137 Production of organic material

.138 Conditions of nutritiv activity

.139 Longevity, vitality

.14 Secretion and excretion

.141 Mucous and sebaceous

.142 Sericeous

.143 Digestiv: salivary, gastric, pancreatic

.144 Odoriferous, sweet, etc.

.145 Poisonous, gall formation, caprification

.146 Mammary, spermatic

.147 Lacrimal

.148 Biliary

.149 Urinary and fecal

.15 Variation See also 575.2 Evolution

.151 Polymorphic

.152 Geografic

.153 Heterofagic

.154 Polygoneutic

.155 Mimetic

.156 Sexual

.157 Colorational

.158 Hybrids

.159 Monstrosities
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 .161  Abiogenesis
 .162  Parthenogenesis, neuters
 .163  Metagenesis, pedogenesis, nurses
 .165  Fission and gemmation
 .166  Fecundation
 .167  Hermaphrodites
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 .17  Histogenesis
 .171  Development of sperm cells
 .172  Development of germ cells, micropyle
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.2  Pathology

.3  Embryology
 .33  Development of embryo
 .34  Metamorphosis, larva, pupa, molting
 .35  Hypermetamorphosis
 .36  Production of sexes

See also 575.9 Origin of sexes

.4  Morphology  Comparativ anatomy  Homologies
 .41  Circulatory organs
 .42  Respiratory organs
 .43  Nutritory organs
 .44  Secretory and excretory organs
 .45
 .46  Generatory organs
 .47  Motory organs
 .48  Nervous system
 .49  Integument  Dermoskeleton  Skeleton

.5  Habits and behavior

Including popular books; animal stories, except fiction

.51  Instinct  Reason
 .52  Abode  Migration
 .53  Food
 .54  Seasons  Hibernation
 .55  Sociability
 .56  Philoprogenitiveness  Breeding
 .57  Means of protection  Fascination
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| 593 Protozoans Radiates |

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<td>.19 Gregarinidæ</td>
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<td>.2 Radiates</td>
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<td>.3 Coelenterata Acalepha (old use of term, now limited to 593.73)</td>
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<td>.4 Sponges Porifera Spongia</td>
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<td>.61 Rugosa Tetracorolla</td>
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<td>.62 Alcyonaria Octocorolla</td>
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<td>.63 Zoantharia Hexacorolla</td>
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<tr>
<td>.74 Calycozoa</td>
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<tr>
<td>.76 Marsupialida</td>
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<td>.77 Discophora Jelly fish</td>
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<td>.8 Ctenophora Jelly fish</td>
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593-9 Echinodermata
  .91 Crinoidea, sea lilies
  .92 Asteroidea, star fish
  .93 Stelleridea
  .94 Ophiuridea
  .95 Echinoidea, sea urchins
  .96 Holothuroidea, sea cucumbers
  .97 Pedata
  .98 Apoda
  .99 Enteropneusta

594 Mollusks
  .1 Lamellibranchiata Bivalvs
  .2 Scaphopoda
  .3 Gastropoda Univalvs: snails, slugs See also 632 Pests
  .4 Pteropoda Wingd shells
  .5 Cephalopoda Squids and cuttle fish
  .6 Molluscoidea
  .7 Bryozoa (Polyzoa) Sea mats
  .8 Brachiopoda Lamp shells
  .9 Tunicata (Ascidia) Sea grapes

595 Articulates
  .1 Worms Vermes See also 632 Pests
  .2 Arthropoda
  .3 Crustacea
  .31 Entomostraca Cyclops, shrimps, etc.
  .32 Phyllopoda
  .33 Ostracoda
  .34 Copepoda
  .35 Cirripedia Barnacles, etc.
  .36 Malacostraca Sandbugs, crabs, lobsters, etc.
  .37 Arthrostraca
  .38 Thoracostraca
  .39 Gignatostraca Trilobites
  .4 Arachnida Spiders Scorpions Mites See also 632 Pests
  .5 Onychophora
  .6 Myriopoda: centipedes, etc. See also 632 Pests
  .7 Insects Insecta Hexapoda See also 632 Pests
  .71 Thysanura: bristletails, springtails, etc.
  .72 Orthoptera: grasshoppers, etc.
  .73 Pseudoneuroptera: dragon-flies, white ants, etc.
  .74 Neuroptera: caddis flies, etc.
  .75 Rhynchota: (hemiptera) bugs, etc.
  .76 Coleoptera: beetles
  .77 Diptera: flies, etc.
  .78 Lepidoptera: butterflies, moths
  .79 Hymenoptera: bees, wasps, etc.
Vertebrates

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Reptils Birds

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<td>Birds Aves</td>
<td>Mammals Mammalia</td>
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<td>Reptils Birds</td>
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<td>Monotremata Duckbill platypus</td>
<td>Marsupialia Kangaroos, opossums</td>
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| 607  | Education  Schools of technology  
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| 608  | Patents  Inventions |
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For its history, see each special department |
610 Medicin

610.1 Philosophy, theories .2 Compendia .3 Dictionaries, encyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .71 Medical schools; divided like 930-999 .72 Medical education of women .73 Training schools for nurses .77 Medical museums .8 Collections .9 History of medicin

611 Anatomy

See also 591.4 Comparative anatomy; 591.8 Zoologic histology

SUMMARY

611.01 Theory

-012 Teratology

-013 Embryology

-014 Anthropologic anatomy

-016 Paleontologic

-018 Histology

-019 Comparative anatomy

.1 Circulatory system

.2 Respiratory

.3 Digestive

.4 Glandular and lymphatic system

.6 Genito-urinary system

.7 Motor and integumentary system

.8 Nervous system

.9 Regional anatomy

01

Theory

-011 Notion, definition, value

-012 Classification, division

-014 Terminology

012 Teratology

Anomalies

To be subdivided like revised 617.3 Orthopedic surgery

013 Ontogeny

Embryology

See also physiology, 612.6 Reproduction and development

Germinative cells

1 Sperm

12 Spermatogenesis See also 611.63 Male genital organs

15 Ovum

16 Ovogenesis See also 611.65 Female genital organs

17 Maturation Corpus luteum

2 Copulation Fecundation Fertilization

See also Fecundation, in botany 581.166; in zoology 591.3

3 Germ layers

31 Segmentation Cleavage Blastula

314 Blastula

32 Gastrula

33 Primitiv streak

34 Blastopore Primitiv mouth

35 Archenteron Primitiv gut

36 Neurenteric canal

37 Entoderm, entoblast, hypoblast or endoderm

38 Ectoderm, epiblast or ectoblast

39 Mesoderm or mesoblast

395 Mesenchyme

4 Entodermal, entoblastic or hypoblastic organs

41 Notochord

5 Ectodermal, epiblastic or ectoblastic organs

51 Neural furrows, folds and canal or meullary plates

See also 611.8 Nervous system
Mesodermic organs

Protovertebrae Mesoblastic somites, or primitiv vertebrae

Somatopleure, body wall, or musculocutaneous plate
Outer lamella of lateral plates

Splanchnopleure, fibrous wall of alimentary canal, or gut fiber plate
Inner lamella of lateral plates

Coelom, pleuroperitoneal or body cavity
See also 611.389 Coelom

Blood or primitiv vessel wall
See also 611.0185 Histology of blood

External form of embryo

Fetal appendages

Vitellin sac
Allantois
Amnion
Amniotic fluid
Chorion
Placenta Umbilic cord

Experimental embryology

Anthropologic anatomy
See also 572 Anthropology

Paleontologic anatomy
See also 560 Paleontology

Histology

Microscopic structure of organs

Cells Cytology
See also 576.3 Cytology For special cells see tissues to which they belong

Protoplasm
Nucleus
Cell division See also 611.0131
Centrosome
Cilia Cellular membrane

Connective tissue

Connective, cartilage and bone tissue together known as 'supporting tissues'

Connective tissue cells
Connective tissue fibers
Ground substance or matrix
Reticular and adenoid tissue
Areolar or interstitial tissue Reticulum

Mucous or gelatinous tissue Mesenchyme
See also embryology, 611.01395 Mesenchyme

Adipose or fat tissue
Elastic or yellow fibrous tissue
Fibrous or white fibrous tissue
Pigment and pigment cells

Cartilaginous tissue

True or hyalin cartilage, cartilage cells or chondroblasts For Elastic, yellow fibrocartilage, or reticular cartilage see 611.01827; for Fibrocartilage, fibrous or white fibrocartilage see 611.01828
Perichondrium
### Bone or osseous tissue

**Bone cells**
- Osteoblasts
- Osteoclasts
- Howship's lacunae
- Myeloid plaques of Robin

**Ground substance or matrix**
- Spongiosa, spongy substance, or cancellated or spongy bone
- Compact substance
- Structure: lacunae, canaliculi, lamellae, Haversian canals
- Volkmann's canals

**Periosteum**
- Osteogenetic layer or cells; fibers of Sharpey

**Bone marrow or medulla**

**Blood**
- See also physiology, 612.11 Blood
- For sperm, see 611.0131 and 612.616

**Lymph**
- See also 612.42 Lymphatic system

**Muscular tissue**
- Sarcoplasm
- Smooth, unstriped, unstriated or involuntary muscle
- Striped, striated or voluntary muscle
- Sarcolemma

**Cardiac muscle**
- Histology of muscular contraction

**Epithelial tissue**
- Glandular system
- Mucous membranes
- Serous
- Endothelia

**Nervous tissue**
- General structure
- Tectology
- Neurone

**Regeneration**

**Prolongations and nerv fibers**
- Cylinder-axis process; cylinder axis. Appendices, varicosities
- Neurilemma
- Schwann's sheath
- Myelin
- Ranvier's nodes
- Medullary sheath
- Adventitious sheath, perineurium
- Epineurium
- Endoneurium
- Dendrites

**Neuroglia**
- Ependymal cells, amyloids

**Terminations**
- Motor terminations
- Sensory

### Comparison with anatomy of lower animals

Usually better clas in 591.4

**Form divisions**
- Compendes
- Dictionaries
- Cyclopedias
- Essays
- Addresses
- Periodicals
- Societies
- Clubs
Circulatory system

Pericardium

Hart

Left hart

Right hart

Ventricles

2 Right

5 Left

Auricles

2 Right

5 Left

Endocardium

Valves

3

Auriculoventricular valves

4

Mitrval or bicuspid valves

46

Tricuspid valves

5

Valves of aorta and of pulmonary artery

Sinuses of Valsalva

Aortic valves

Pulmonary or semilunar valves

6

Valves of right auricle

2 Eustachian

5 Coronary

Myocardium

Arteries

Pulmonary artery

2 Right branch

5 Left branch

Aorta

1

Aortic arch

Ascending aorta

2

Coronary arteries

2 Right

5 Left

Innominate artery

Carotid arteries

1

Common carotid

External

21

Superior thyroid

22

Lingual

23

Facial, or external maxillary

24

Ascending pharyngeal

25

Posterior auricular

26

Occipital

27

Superficial temporal

28

Internal maxillary

281

Sphenopalatine arteries

289

Middle or great meningeal

3

Internal carotid

32

Ophthalmic artery

33

Cerebral arteries, anterior and middle

For posterior cerebral artery see 611.1349
Subclavian arteries
1 Axillary
   Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex
2 Brachial or humeral
   Superior and inferior profunda, nutrient, anastomotica magna, muscular

Forearm arteries
3 Radial
31 Ulnar

Hand arteries
4 Internal mammary
5 Costocervical trunk
6 Thyrocervical trunk

Thoracic aorta and branches
7 Posterior, or dorsal scapular, transversa coili
8 Vertebral
   Basilar, posterior cerebral, circle of Willis

Abdominal aorta and branches
9 Parietal branches
   Parietal
4 Intercostal
   Subcostal, diafragma, vas aberrans
5 Visceral branches
   Bronchial, esophageal, pericardial, mediastinal

Mesenteric
5 Superior mesenteric
   Rami intestini tenuis, or branches of small intestine; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches
51 Inferior mesenteric
   Left colic, sigmoid, superior hemorrhoidal

Iliac arteries
1 Common iliac
2 Hypogastric, or internal iliac
3 Parietal branches
4 Lateral sacral
5 Obturator
Gluteal
Superior gluteal
Inferior gluteal
Sciatic
Visceral branches
Umbilical, superior vesical
Inferior vesical and deferential
Uterine and vaginal
Middle hemorrhoidal
Internal pudic
External iliac artery
Inferior epigastric, or deep epigastric
Deep circumflex iliac
Femoral
Deep femoral, profunda femoris
Arteria genu suprema, or anastomotica magna
Popliteal
Anterior tibial
Tibiofibular trunk, truncus tibioperoneus
Posterior tibial
Peroneal
Arteries of foot
Dorsalis pedis
Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
Plantar
Veins
Pulmonary
Cardiac or venae cordis
Subintestinal, or fetal portal vein
Cardinal
Superior vena cava
Innominate veins
Veins of neck
Internal jugular vein
Thyroid veins
Cerebral veins
Sinuses of dura mater
Emissary vein
Superior ophthalmic
Inferior
Facial
External jugular
Posterior external jugular and vertebral
Subclavian and axillary
Deep veins of upper extremity
Superficial veins of upper extremity
Azygos
Spinal veins
<table>
<thead>
<tr>
<th>DECIMAL CLASSIFICATION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>611.146</strong></td>
<td>Inferior vena cava</td>
</tr>
<tr>
<td>1</td>
<td>Lumbar veins</td>
</tr>
<tr>
<td>2</td>
<td>Renal &quot;</td>
</tr>
<tr>
<td>3</td>
<td>Suprarenal &quot;</td>
</tr>
<tr>
<td>4</td>
<td>Hepatic &quot;</td>
</tr>
<tr>
<td>5</td>
<td>Inferior frenic</td>
</tr>
<tr>
<td>6</td>
<td>Spermatic</td>
</tr>
<tr>
<td></td>
<td>Pampiniform or spermatic plexus</td>
</tr>
<tr>
<td>7</td>
<td>Ovarian</td>
</tr>
<tr>
<td><strong>.147</strong></td>
<td>Iliac veins</td>
</tr>
<tr>
<td>1</td>
<td>Hypogastric or internal iliac</td>
</tr>
<tr>
<td></td>
<td>Hemorrhoidal plexus</td>
</tr>
<tr>
<td>2</td>
<td>External iliac</td>
</tr>
<tr>
<td>3</td>
<td>Femoral Popliteal</td>
</tr>
<tr>
<td>33</td>
<td>Long, or internal saphenous</td>
</tr>
<tr>
<td>37</td>
<td>Tibial veins</td>
</tr>
<tr>
<td>38</td>
<td>Short, or external saphenous</td>
</tr>
<tr>
<td>39</td>
<td>Veins of foot</td>
</tr>
<tr>
<td><strong>.149</strong></td>
<td>Portal vein</td>
</tr>
<tr>
<td>1</td>
<td>Superior mesenteric</td>
</tr>
<tr>
<td>2</td>
<td>Inferior &quot;</td>
</tr>
<tr>
<td>3</td>
<td>Ventricular coronary, gastric, or venae gastricae Pyloric</td>
</tr>
<tr>
<td>4</td>
<td>Splenic, or lienalis</td>
</tr>
<tr>
<td>5</td>
<td>Cystic</td>
</tr>
<tr>
<td>7</td>
<td>Fetal hepatic veins Omphalomesenteric</td>
</tr>
<tr>
<td></td>
<td>Ductus venosus Aranxii, or sinus venosus large vein passing directly thru fetal liver</td>
</tr>
<tr>
<td><strong>.15</strong></td>
<td>Capillaries</td>
</tr>
<tr>
<td><strong>.2</strong></td>
<td>Respiratory system</td>
</tr>
<tr>
<td><strong>.21</strong></td>
<td>Nose</td>
</tr>
<tr>
<td></td>
<td>See also 611.86 Organs of smell</td>
</tr>
<tr>
<td><strong>.211</strong></td>
<td>External nose</td>
</tr>
<tr>
<td><strong>.22</strong></td>
<td>Larynx</td>
</tr>
<tr>
<td><strong>.221</strong></td>
<td>Cartilages</td>
</tr>
<tr>
<td></td>
<td>Epiglottis, thyroid, arytenoid, cuneiform, cornicular</td>
</tr>
<tr>
<td><strong>.223</strong></td>
<td>False vocal cords</td>
</tr>
<tr>
<td><strong>.224</strong></td>
<td>Ventricle</td>
</tr>
<tr>
<td><strong>.225</strong></td>
<td>Cavity of larynx</td>
</tr>
<tr>
<td></td>
<td>Glottis</td>
</tr>
<tr>
<td></td>
<td>True vocal cords</td>
</tr>
<tr>
<td></td>
<td>Rima glottidis or chink of glottis</td>
</tr>
<tr>
<td><strong>.227</strong></td>
<td>Ligaments</td>
</tr>
<tr>
<td><strong>.229</strong></td>
<td>Muscles of larynx</td>
</tr>
<tr>
<td><strong>.23</strong></td>
<td>Trachea and bronchi</td>
</tr>
<tr>
<td><strong>.231</strong></td>
<td>Trachea</td>
</tr>
<tr>
<td><strong>.233</strong></td>
<td>Bronchi</td>
</tr>
<tr>
<td></td>
<td>See also 611.24 below</td>
</tr>
<tr>
<td><strong>.24</strong></td>
<td>Lungs, or pulmones</td>
</tr>
<tr>
<td><strong>.25</strong></td>
<td>Pleura</td>
</tr>
<tr>
<td><strong>.26</strong></td>
<td>Diafram</td>
</tr>
<tr>
<td><strong>.27</strong></td>
<td>Mediastinum</td>
</tr>
<tr>
<td><strong>.28</strong></td>
<td>Gills</td>
</tr>
<tr>
<td></td>
<td>See comparativ anatomy, 591.42 Respiratory organs</td>
</tr>
<tr>
<td><strong>.29</strong></td>
<td>Other organs, including air bladder swimming bladder</td>
</tr>
<tr>
<td></td>
<td>See 591.42</td>
</tr>
</tbody>
</table>
611.3  Digestive system

Mouth, buccal cavity or cavum oris

Tongue
Papillae

Teeth

Palate, palatum, or roof of mouth
Soft palate, or velum pendulum palati

Salivary and other glands of mouth
Submaxillary and sublingual glands
Parotid glands
Stenson's duct

Lips
Cheeks

Pharynx

Pharynx

Tonsils
Faucial tonsils
Pharyngeal or Luschka's tonsils
Lingual, buccal or 4th tonsil
Other tonsils: laryngeal, nasal

Topography or regions of pharynx
Nasal or epipharynx
Oral, buccal, or meso pharynx
Laryngeal or hypo pharynx
Back
Sides

Esophagus

1 Cervical  2 Thoracic section  3 Abdominal section
including diaphragmatic

Stomach
Gastric glands: true, oxyntic or peptic; pyloric; cardiac
Cardia

Pylorus
Greater curvature, or lower convex surface
Lesser " upper concave "

Intestin

Small intestine

2 Meckel's diverticulum
3 Peyer's patches, or tonsillae intestinales
4 Plicae circulares
5 Glands of Lieberkühn and solitary glands

Duodenum
Brünner's glands
Jejunum
Ileum

Cecum
Ileocecal valve
Vermiform appendix

Large intestine
Including cecum
Appendices epiploicae

Colon
2 Ascending
3 Transverse
4 Descending
Sigmoid flexure

Rectum
Anus

Rectum
Houston's or rectal valves
Anus
Perineum
See also 611.96
<table>
<thead>
<tr>
<th>DECIMAL CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>611.36 Liver</td>
</tr>
<tr>
<td>611.361 Bile ducts</td>
</tr>
<tr>
<td>611.362 Bile capillaries or canalicull</td>
</tr>
<tr>
<td>611.363 Hepatic duct</td>
</tr>
<tr>
<td>611.364 Cystic duct</td>
</tr>
<tr>
<td>611.365 Gall bladder</td>
</tr>
<tr>
<td>611.366 Common bile duct, or ductus communis choledicus</td>
</tr>
<tr>
<td>611.367 Process and ampulla of Vater</td>
</tr>
<tr>
<td>611.37 Pancreas</td>
</tr>
<tr>
<td>611.373 Pancreatic duct, or canal of Wirsung</td>
</tr>
<tr>
<td>611.375 Duct of Santorini</td>
</tr>
<tr>
<td>611.376 Glandular portion</td>
</tr>
<tr>
<td>611.377 Interalveolar cell-lets, intertubular cell masses, islands of Langerhans</td>
</tr>
<tr>
<td>611.38 Peritoneum, Mesentery, Omentum, Coelom</td>
</tr>
<tr>
<td>611.381 Peritoneum</td>
</tr>
<tr>
<td>611.382 Parietal</td>
</tr>
<tr>
<td>611.383 Visceral</td>
</tr>
<tr>
<td>611.384 Omentum, epiploons</td>
</tr>
<tr>
<td>611.385 Lesser or gastrohepatic, great or gastrocolic, gastroplenic</td>
</tr>
<tr>
<td>611.386 Mesenteric</td>
</tr>
<tr>
<td>611.387 Transverse and sigmoid mesocolon; mesorectum; mesoappendix</td>
</tr>
<tr>
<td>611.388 Retropertitoneal fossae</td>
</tr>
<tr>
<td>611.389 Coelom or pleuropertitoneal cavity</td>
</tr>
<tr>
<td>611.39 Adipose bodies</td>
</tr>
<tr>
<td>611.4 Glandular and lymphatic system</td>
</tr>
<tr>
<td>611.41 Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.315, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general</td>
</tr>
<tr>
<td>611.411 Spleen</td>
</tr>
<tr>
<td>611.412 Malpighian bodies</td>
</tr>
<tr>
<td>611.413 Capsule of spleen</td>
</tr>
<tr>
<td>611.42 Lymphatic vessels or lymphatics and capillaries</td>
</tr>
<tr>
<td>611.421 For lymphatics of an organ or tissue, see name of organ or tissue</td>
</tr>
<tr>
<td>611.4211 Lymphatics by region</td>
</tr>
<tr>
<td>611.42111 Head</td>
</tr>
<tr>
<td>611.42112 Face</td>
</tr>
<tr>
<td>611.42113 Neck</td>
</tr>
<tr>
<td>611.42114 Thorax</td>
</tr>
<tr>
<td>611.42115 Abdomen</td>
</tr>
<tr>
<td>611.42116 Pelvic region</td>
</tr>
<tr>
<td>611.42117 Upper extremity</td>
</tr>
<tr>
<td>611.42118 Arm</td>
</tr>
<tr>
<td>611.42119 Forearm</td>
</tr>
<tr>
<td>611.421110 Hand</td>
</tr>
<tr>
<td>611.421111 Lower extremity</td>
</tr>
<tr>
<td>611.421112 Thigh</td>
</tr>
<tr>
<td>611.421113 Leg</td>
</tr>
<tr>
<td>611.421114 Foot</td>
</tr>
<tr>
<td>611.421115 Tail</td>
</tr>
<tr>
<td>611.421116 Receptaculum chyli or cistern of Pecquet</td>
</tr>
<tr>
<td>611.4212 Thoracic duct (left)</td>
</tr>
<tr>
<td>611.42125 Right lymphatic duct</td>
</tr>
<tr>
<td>611.42126 Lacteals</td>
</tr>
<tr>
<td>611.421265 Villi</td>
</tr>
<tr>
<td>611.43 Thymus</td>
</tr>
<tr>
<td>611.435 Accessory thymus</td>
</tr>
<tr>
<td>611.44 Thyroid gland</td>
</tr>
<tr>
<td>611.445 Accessory or aberrrent thyroids</td>
</tr>
<tr>
<td>611.447 Parathyroids</td>
</tr>
<tr>
<td>611.45 Suprarenal capsules or bodies</td>
</tr>
<tr>
<td>611.455 Accessory suprarenal capsules</td>
</tr>
</tbody>
</table>
Lymphatic glands

Glands of head
- Internal maxillary
- Submental

Glands of neck
1. Suboccipital or occipital
2. Mastoid, retroauricular or postauricular
3. Retropharyngeal
4. Cervical or jugular
5. Subclavian

Glands of thorax
1. Diaphragmatic
2. Mammary lymph
3. Intercostal
4. Mediastinal

Abdominal lymph glands
1. Iliac and hypogastric: sacral, lumbar
2. Abdomino-aortic
3. Juxta-aortic
4. Preaortic: gastric, splenic, hepatic
5. Retroaortic
6. Lymph glands of small intestine: mesenteric
7. Lymph glands of large intestine: colic, rectal

Lymph glands of upper extremity
1. Axillary
2. Epitrochlear or supratrochlear and other glands
3. Pectoral

Lymph glands of lower extremity
1. Inguinal
2. Femoral
3. Popliteal
4. Anterior tibial

Carotid gland or body

Coccygeal gland

Genito-urinary system

Breasts

Kidneys
- Class here urinary organs in general
- Uriniferous tubules

Ureter

Pronephros

Mesonephros

Bladder

Urethra

Bladder

Urethra
- For female urethra see 611.674
- Prostatic part
- Verumontanum or caput gallinaginis
- Sinus pocalis or uterus masculinus
- Membranous part
- Spongy, cavernous or penial part
- Lacunae Littré's glands
- Bulbo-urethral or Cowper's glands
- Urogenital sinus
Male genital organs

Testicles or testes
- Seminiferous tubules
- Straight tubules, tubuli recti or vasa recta; coni vasculosi or vasa efferentia
- Tunics of testes: vaginalis, albuginea, vasculosa
- Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network

Epididymis
- Appendixes of testes
  - Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldes

Vas deferens
- Ejaculatory ducts
- Seminal vesicles
- Prostate
- Scrotum
- Dartos

Spermatic cord
- Infundibula; intercolumnar or spermatic and cremasteric fascia

Penis
- Root
- Body
- Prepuce
- Glans penis, or acorn
- Meatus
- Corpora cavernosa
- Corpus spongiosum
- Bulb of urethra

Female genital organs

Adnexa

Ovaries
- Medullary substance
- Stroma
- Graafian follicles
- Capsule of ovum, membrana granulosa, discus proliferus
- Cortical layer
- Corpus luteum or corpora lutea
- See also embryology 611.01317

Fallopian tubes

Uterus
- Endometrium
- Cornua
- Body or parenchyma
- Neck, cervix
- Ligaments
  - For placenta see embryology, 611.01385 and gynecology 618.36
  - Broad or lateral
  - Round
  - Canal of Nuck
  - Uterosacral and uterolumbar
  - Pouch of Douglas
  - Posterior ligaments
- Epoophoron, parovarium, or organ of Rosenmüller
- Gärtner's duct
- Paroophoron
- Müller's duct

Class oviducts of lower vertebrates
- Oviducts of lower vertebrates in 591.46 except in com-
  with human organs

Vagina

Vulva
- Mons veneris
- Labia majora
- Labia minora
- Female urethra
- Clitoris
- Bulbus vestibuli
- Bartholin's, or vulvo-vaginal glands

Breasts
- Nipple and areola
- Glands of Montgomery
- Acini, acinous glands

Galactoforous or lactiferous ducts
611.7 Motor and integumentary systems

.71 Osteology Bones Skeleton

.711 Spinal column
1 Cervical vertebrae
2 Atlas
3 Axis or epistropheus
5 Thoracic or dorsal vertebrae
6 Lumbar vertebrae
7 Sacrum or sacral vertebrae
8 Coccyx

.712 Ribs Thorax
5 Costal cartilages

.713 Sternum or breast bone
Menubrium; gladiolus; zyphoid or ensiform

.714 Bones of head Skull
1 Calvaria or cerebral cranium
Sutures, fontanelles, supernumerary or Wormian bones
3 Base of cranium
6 Orbits
7 Nasal cavity Inferior conchae

.715 Cranium, cranial bones
1 Occipital
2 Sphenoid
3 Temporal
4 Parietal
5 Frontal
6 Ethmoid
7 Lacrimal
8 Nasal
9 Vomer

.716 Bones of face or visceral cranium
1 Maxillary, upper jaw or superior maxillary
Palate
3 Malar or zygomatic
4 Mandible, lower jaw or inferior maxillary
Alveolar limbus
43 Ramus of mandible
5 Hyoid
6 Skeleton branchiae Better ciast in 391.4

.717 Bones of upper extremity
1 Scapula, shoulder blade
Shoulder girile as a whole Acromion
2 Clavicle or collar bone
3 Coracoid process
4 Humerus
5 Radius
6 Ulna
7 Carpus, carpal bones or wrist bones
Scaphoid or navicular
72 Semilunar, or os lunatum
73 Cuneiform, or os triquetrum
74 Pisiform
75 Trapezium, or os multangular majus
76 Trapezoid or " " minus
77 Os magnum, or os capitatum
78 Unciform or hook or os hamatum
79 Central
8 Metacarpus, metacarpal bones
Phalanges of hand
- Basilar or proximal phalanges
- Middle phalanges
- Ungual or distal phalanges

Sesamoid

Bones of lower extremity

For pelvis see 611.96

1 Hip bone, or os coxae or innominatum
   - Acetabulum or cotyloid cavity
   - Ilium
   - Ischium
   - Pubis

4 Femur
   - Patella See also 611.7283 Knee joint and 611.983 Knee

5 Tibia
6 Fibula

Tarsus
7 Astragalus, ankle bone, or talus
   - Calcaneum, heel, or os calcis
   - Cuboid
   - Scaphoid or navicular
   - Cuneiform or wedge bones
     - Internal or first, middle or second, external or third cuneiform

8 Metatarsal bones
9 Phalanges of foot
   - Basilar or proximal phalanges
   - Middle or second
   - Ungual or third
99 Sesamoid bones

Ligaments Joints

Articulations of vertebrae and of cranium
1 Occipito-atlantal and occipito-axial
3 Intervertebral articulations
5 Atlanto-axial or atlo-axoid and atlanto-odontoid
6 Lumbosacral
7 Sacrococcygeal
8 Coccygeal

Costovertebral articulations

Costosternal, costochondral, chondrosternal, interchondral, intersternal

Jaw joint, temporomandibular, temporomaxillary or mandible joint

Articulations of upper extremity
1 Sternoclavicular joint and costoclavicular or rhomboid ligament
2 Articulations of shoulder
   21 Shoulder joint
   24 Acromioclavicular or scapulo-clavicular joint
   Coracoclavicular and coracocostosternal ligaments

Elbow joint
3 Humeroulnar joint
33 Humero-radial joint
34 Superior radioulnar or radioulnaris proximalis

Wrist joint
4 Inferior or distal radioulnar joint
41 Radiocarpal
Intercarpal articulation
Middle carpal joints
Carpometacarpal articulations
Intermetacarpal articulations
Metacarpophalangeal articulations
Phalangeal or finger joints

Articulations of lower extremity
Articulations of pelvis
Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
Hip joint, or articulo coxae
Iliofemoral, Y or Bigelow's ligament: ligamentum teres
Knee joint
Crucial or femorotibial ligaments
Semilunar fibrocartilages
Anterior or ligamentum patellae
Tibiofibular ligaments
Ankle joint
Inferior tibiofibular joint
Tibiotalar ligaments
Intertarsal ligaments
Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragalo-seaphoid; calcaneoseaphoid or calcaneonaviclar ligaments
Calcaneocuboid ligaments
Mediotarsal articulations
Cuboidcuneiform
Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonaviclar articulations
Intercuneiform articulations
Tarsometatarsal articulations
Intermetatarsal articulations
Metatarsophalangeal articulations
Toe joints

Classes of joints
Synarthrosis or fixt joint
Amphiarthrosis or mixt joint
Diarthrosis or movable joint
Arthrodia or gliding joint
Condylarthrosis or knuckle joint
Enarthrosis or ball and socket joint
Ginglymus or hinge joint
Trochoid or pivot joint

Muscular system
Dorsal muscles
Spinohumeral or humerospinal muscles
Trapezius
Latissimus dorsi
Rhomboid
Levator scapulae
Spinocostal or serrati posteriores
Spinodorsal
Sacrosepinalis, lumbosacral, erector spinae, transversalis cervicis
Iliocostal
Longissimus dorsi
Spleniun and complexus
611.7315 Spinalis dorsi
6 Transversospinales
   61 Semispinalis
   65 Multifidus
   68 Rotatores
7 Breves spinac
   71 Interspinales
   76 Intertransversarii
8 Oblique muscles of hed
9 Recti capitis posterior and lateralis

Muscles of hed

Note: See also 611.7318-9 and 611.7337-8

1 Platysma myoides
2 Occipitofrontalis or epicranial
3 Muscles of nose
   Pyramidalis nasi, compressor nasi, compressor narium minor,
   depressor alae nasi or myrtiform, dilatores nasi
4 Muscles of ear
   Attrahens, attcllens, retrahens
5 Palpebral and orbital muscles of eye
   Orbicularis palpebrarum, or sphincter of eyelids; corrugator supercilii;
   levator palpebrae; levator palpebrae superioris: tensor tarsi
   See also 611.8461
6 Buccal muscles
   Buccinator, orbicularis oris, levator anguli oris, levatores labii
   superioris, levator labii superrioris alaeque nasi, zygomatic, levator
   labii inferioris, levator menti, depressor labii inferioris or quadratus
   menti; depressor angulae oris or triangularis menti; risorius, or
   Santorini's muscle
7 Muscles aiding mastication and deglutition
   Masseter
   Temporal
   Pterygoid
75 Muscles of palate and pharynx
76 Palate
   Levator palati, tensor palati, asygos uvulae, palatoglossus, pala-
   topharyngeus, salpingopharyngeus
78 Pharynx
   Inferior, superior and middle constrictors, stylopharyngeus

Muscles of neck

1 Sterno-cleido-mastoid
   hyoid
2 Omohyoid
3 Sternothyroid
4 Thyrohyoid
5 Longus colli
7 Rectus capitis anticus major, or longus capitis
8 Rectus capitis anticus minor, or rectus capitis anterior
   For rectus capitis lateralis see 611.7319
9 Scaleni: anticus, medius and posticus

Hyoid muscles

Note: Depressors of lower jaw or elevators of hyoid. For tung see 611.313
1 Digastric
4 Stylohyoid
6 Mylohyoid
8 Geniohyoid
 MEDICIN: ANATOMY

611.735  Thoracic muscles
1       Pectoralis major
2       "  minor
3       Subclavius
4       Levatores costarum
5       Serratus magnus or serratus anterior
6       Intercostal
7       Subcostal
8       Transversus thoracis or triangularis sterni

.736  Abdominal and coccygeal muscles
1       Rectus abdominis
2       Pyramidalis abdominis
3       Oblique abdominal
6       Cremaster
7       Transversalis or transversus abdominis
8       Quadratus lumborum
9       Coccygeal

.737  Muscles of upper extremity
1       Shoulder or axillary
11      Deltoid
12      Supraspinatus
13      Infraspinatus
14      Teres minor
15      Teres major
16      Subscapular
2       Arm
21      Biceps brachii, or biceps flexor cutit:
22      Coracobrachialis
23      Brachialis (anticus)
24      Triceps brachii, or triceps extens:; cubiti
25      Anconeus
3       Forearm
4       Pronator muscles
41      Pronator radii teres
45      "  quadratus
5       Flexors of forearm
51      Flexor carpi radialis
52      Palmaris longus
53      Flexor carpi ulnaris
54      "  digitorum sublimis
55      "  profundus
56      "  pollicis longus
6       Extensors and supinators
61      Brachioradialis
62      Extensor carpi radialis longus
63      "  "  brevis
64      "  "  ulnaris
65      Extensors of fingers, or extensores digitorum
66      Supinator
67      Abductor pollicis longus
68      Short and long extensors of thum, or extensores pollicis brevis et longus
69      Extensor of index finger, or extensor indicis proprius

7       Muscles of hand
71      Lumbricales
72      Palmaris brevis
73      Short abductor of thum, or opponens pollicis
74      Short flexor of thum, or flexor brevis pollicis. Adductor pollicis
76      Muscles of little finger
   "  Abductor digitii quinti (or minimi) brevis; opponens digitii quinti;
   short flexor of 5th or little finger, or flexor brevis digitii minimi
79      Intertosseous muscles
Muscles of lower extremity

Hip and nates

1  Iliopsoas
11  Iliacus
12  Psoas major and minor
13  Gluteal
14  Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris
15  Piriformis
16  Obturator internus
17  Gemelli or gemini
18  Quadratus femoris

Thigh muscles

19  Sartorius
20  Quadriceps femoris or quadriceps extensor femoris
21  Rectus femoris, vastus externus, vastus internus and crureus or vastus intermedius
22  Articularis genu, or subcrureus
23  Pectineus
24  Adductors: longus, brevis, magnus and minimus
25  Gracilis
26  Obturator externus
27  Biceps femoris or biceps flexor cruris
28  Semitendinosus
29  Semimembranosus

Leg

Anterior muscles

30  Anterior tibial or tibialis anticus
31  Extensor digitorum longus
32  " hallucis " or proprius
33  Peroneaeus tertius

Other muscles of leg

34  Peroneaeus longus
35  " brevis
36  Gastrocnemius
37  Soleus, triceps surae
38  Plantaris
39  Popliteus
40  Posterior tibial
41  Flexor digitorum longus
42  " hallucis "

Muscles of foot

Back of foot

43  Extensor brevis digitorum
44  Sole of foot or plantar region
45  Adductor hallucis (obliquus and transversus), adductor digiti minimi, abductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles

Electric organs  Better clast in comparativ anatomy

Tendons  Fasciae

May be divided like 611.73; e. g. Achilles tendon 611.74854

Bursae  Sheaths of tendons

Hed  Neck

Back  Shoulder

Upper extremity

Lower  "

Connective tissue  See also 611.0782 Histology of connective tissue
Skin

Glands of skin

Cuticle, scarf skin or epidermis
Horny and Malpighian layers

Glands of skin

Sebaceous
Sudoriferous or sweat
Ciliary glands
Circumanal"
Ceruminous"

Corium, cutis vera, true skin or dermis
Reticular and papillary layers

Pigmentation

Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus

Hair, nails, scales, fethers, etc.

For teeth see 611.3.4 Fur, scales, fethers, horns, etc. better class in comparativ anatomy

Hair
Scales
Nails
Fethers
Horns

Nervous system

Sense organs

Encephalon

Brain

Mesurement Weight

General structure of brain and cerebrospinal axis

Localizations

Telencephalon, or endbrain

Prosencephalon, or forebrain

Hemisferes

Longitudinal and transverse fissure

Pallium, brain mantle or cerebral cortex

Frontal lobe

Broca’s convolutions

Parietal lobe

Central fissure, sulcus centralis, or Rolando’s groove

Oparecula insulae

Temporal or temporosphenoid lobe

Fissure of Sylvius, or fissura cerebri lateralis

Limbic lobe

Gyrus fornicatus

Hippocampal gyre, or gyrus hippocampi
Callosal gyre
Dentate gyre, or fascia dentata hippocampi
Fasciola
Fimbria, taenia fornicens or taenia hippocampi
Hippocampus major or cornu ammonis
Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis
Callosomarginal fissure
Amygdala, almond nucleus, or amygdaloid tubercle

Occipital lobe

Occipital or parieto-occipital fissure

Paracentral gyre or lobule

Cuneus
Calcarnin fissure

Precuneus, or quadrate lobe

Insula, island of Reil, central lobe, or gyri operi

Striatum, striate body, or corpus striatum

Basal ganglion of hemisphere

Caudatum, taild nucleus, or nucleus caudatus

Lenticula, lenticular nucleus, or nucleus lentiformis

Globus pallidus, or pallidum, and putamen

Claustrum

Tenia, taenia semicircularis, stria terminalis or corneae
Rhinencephalon or rhinencefal

- Olfactory bulb tract, substantia perforata anterior, precrirbium, etc.
- Broca's area, or parolfactoria

7  Centrum ovale majus (of Vieussens)  Centrum semiovale  Internal capsule

8  Paraceles or lateral ventricles

9  Callosum or corpus callosum  Fornix

- Septum pellucidum or lucidum, or septum Cavum septi pellucidi, 5th ventricle or pseudepole

.814  Diencephalon, diencefal, thalamencephalon or interbrain

1  Hypothalamus or subthalamic tegmental region

- Nucleus of Luys or nucleus hypothalamicus
- Postcommissure or posterior commissure

2  Corpora albicantia, albicans, or corpus mammillare

- Bundle of Vieq-d'Azyr, or fasciculus thalamomammillaris

3  Hypophysis

- Hypophysis cerebri, pituitary body or somatic brain

4  Tuber or tuber cinereum  Infundibulum

5  Optic tract  Optic chiasm or commissure

6  Epithalamus  Pinea, pineal body, conarium or epiphysis

- Habenula, habena, or pedunculus conarii

Geniculate bodies, or geniculum  Metathalamus

7  Thalamus or optic thalamus

- Thalamic radiation: ansa peduncularis, ansa lenticularis
- For Nissl's bodies see 611.8182

8  Third ventricle, or diacele

- Porta or foramen of Monro, or foramen interventricular
e

.815  Mesencephalon, midbrain or mesencefal

3  Quadrigeminum

- Corpora or tubercula quadrigemina  Quadrigeminal arms

4  Pedunculi or crura cerebri, crura or crus

- Substantia nigra (Sommering) or intercalatum
- See also nucleus of Luys 611.8141

41  Poot of peduncle, basis or pes pedunculi, or crusta

43  Tegmentum

44  Red nucleus, nucleus ruber, or rubrum

Nuclei of oculomoto and trochlear nerves

5  Aqueduct of Sylvius, aqueductus cerebri, or mesocoele

6  Isthmus rhombencephali

- Valv of Vieussens, or superior medullary velum

Superior cerebellar peduncles

- Prfpeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum

- Lemniscus: mesial and lateral fillets

41
Metencephalon or epencephalon, epencefal or hindbrain

Pons (Varolii)

1. Cerebellum
   Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos
   Cerebellar centers of gray matter
   Nuclei olivaris superiores: roof
   nuclei, dentate nuclei, dentatum, etc.
   White substance of cerebellum
2. Arbor vitae
3. Pons Varolii
4. Nuclei of trigeminus system
5. Nuclei or nidus of abducent nerv
6. " " " " facial nerv
7. Cochlear nidi or nucleus of cochlear nerv
8. Vestibular nidi or nucleus of vestibular nerv
9. Myelencephalon, metencefal, medulla, bulb or afterbrain, postglobulonata or medulla oblongata
10. Pyramids
   Pyramidal decussation
11. Dorsal column, posterior fibers, or funiculi dorsales
12. Arcuate fibers
   Restis or restiform body
   Fasciculus of Rolando, cuneatus and gracilis
13. Lateral fibers
   Oliva or olivary bodics
   Anterolateral ground bundle or fasciculus proprius anterolateralis;
   anterolateral cerebellar tract or fasciculus anterolateralis super-
   ficialis
14. Interolivary stratum, fillet or lemniscus
15. Fourth ventricle or metepiole
16. Metapore or foramen of Magendie
   Foramina of Luschka, Key
   and Retzius
   Obex
   Lingula
   Calamus scriptorius
17. Nucleus of glossoaryngeal system
18. Solitary tract
19. Nuclei of vagus and accessory nerves
20. Ambiguous nucleus
21. Dorsal nucleus of vagus
22. Nucleus of hypoglossal system or hypoglossal nidus

Meninges and cerebral meninges
1. Pia mater or pia
2. Telae choroideae, velum interpositum, choroid plexus
3. Arachnoid villi
   Glandulae Pacchioni, Luschka's villi or granulations
4. Cisterns, or subarachnoid cisterns
5. Dura mater, or dura
   Tentorium and falx cerebelli
   Falx cerebri
Spinal cord, or myel

Enlargements or intumescentia; general structure
- Cervical cord or myel, pars cervicalis
- Thoracic or dorsal cord or myel, pars thoracalis
- Lumbar cord or myel, pars lumbaris
- Sacral cord
- Terminal cone, or conus (medullaris) Filum Cauda (equina)
- Grooves and fissures, sulci and fissurae

Gray substance or matter, entocinerea or cinerea

Gray cornua or column
- Anterior or ventral cornu or column or funiculus anterior
- Posterior or dorsal cornu or column
- Clarke's column, nucleus dorsalis or Stilling's nuclei
- Gelatinosa or gelatinous matter, substantia cinerea gelatinosa
- Substantia spongiosa
- Reticula or formatio reticularis

White substance, or alba

Anterolateral colum
- Anterior plus lateral columns
- Pyramidal tract or bundle or fasciculus cerebrospinalis
- Direct or uncrost tract, fasciculus cerebrospinalis anterior, or fasciculus
crost pyramidal tract, or cerebrospinalis lateralis
- Direct cerebellar tract, or dorsolateral cerebellar tract
- Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract
- Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer
- Lateral column or anterolateral descending cerebellar tract or column of Marchi and Lowenthal
- Anterolateral ground bundle or fasciculus proprius anterolateralis
- Anterior or ventral commissure

Posterior or dorsal columns
- Ascending fibers
  - Tracts of Burdach (posterolateral or cuneatus) and of Goll
  - (posteromedian or gracilis) and fasciculus of Rolando
- Descending fibers
  - Comma tract in Burdach's column
- Radicular fibers
- Posterior or dorsal commissure

Roots of nervs
- Works tracing nerv roots into spinal cord; for macroscopic studies on nerv roots see 611.832
- Anterior or ventral roots
- Posterior or dorsal roots

Spinal canal
- Ependyma or endyma
- Rhomboidal sinus
- Reissner's fibers

Spinal membranes, or meninges spinales
- Spinal pia mater
- " arachnoid
- " dura mater
### 611.83 Periferal nervous system

#### Nervs

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cranial nerves and ganglia</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Olfactory, or 1st cranial</td>
</tr>
<tr>
<td>2</td>
<td>Optic, or 2d cranial</td>
</tr>
<tr>
<td>3</td>
<td>Motoroculi, 3d cranial or oculomoto</td>
</tr>
<tr>
<td>4</td>
<td>Trochlear, pathetic, or 4th cranial</td>
</tr>
<tr>
<td>5</td>
<td>Trifacial, trigeminus, or 5th cranial</td>
</tr>
<tr>
<td>5a</td>
<td>Large or great superficial petrosal branch</td>
</tr>
<tr>
<td>5b</td>
<td>Ophthalmic nerv of Willis</td>
</tr>
<tr>
<td>5c</td>
<td>Superior maxillary nerv or maxillary nerv</td>
</tr>
<tr>
<td>5d</td>
<td>Infraorbital branch</td>
</tr>
<tr>
<td>5e</td>
<td>Mandibular or inferior maxillary</td>
</tr>
<tr>
<td>6</td>
<td>Abducant, external motoroculi, oculomoto, or 6th cranial</td>
</tr>
<tr>
<td>7</td>
<td>Facial, 7th cranial nerv, or portio dura</td>
</tr>
<tr>
<td>7a</td>
<td>Other collateral branches</td>
</tr>
<tr>
<td>7b</td>
<td>Terminal branches</td>
</tr>
<tr>
<td>7c</td>
<td>Pars intermedia of Wrisberg (nervus intermedius)</td>
</tr>
<tr>
<td>8</td>
<td>Auditory, acoustic or 8th nerv</td>
</tr>
<tr>
<td>8a</td>
<td>Cochlear nerv or path, or central auditory path</td>
</tr>
<tr>
<td>8b</td>
<td>Vestibular path or nerv</td>
</tr>
<tr>
<td>8c</td>
<td>Glossopharyngeal or 9th nerv</td>
</tr>
<tr>
<td>8d</td>
<td>Pneumogastric, vagus or 10th nerv</td>
</tr>
<tr>
<td>8e</td>
<td>Parietal branches: auricular and lateral nervs</td>
</tr>
<tr>
<td>8f</td>
<td>Pharyngeal branches</td>
</tr>
<tr>
<td>8g</td>
<td>Superior cardiac nervs</td>
</tr>
<tr>
<td>8h</td>
<td>Superior laryngeal nerv</td>
</tr>
<tr>
<td>8i</td>
<td>Inferior or recurrent laryngeal nerv</td>
</tr>
<tr>
<td>8j</td>
<td>Pulmonary branches</td>
</tr>
<tr>
<td>8k</td>
<td>Esophageal and gastric branches</td>
</tr>
<tr>
<td>8l</td>
<td>Spinal accessory or 11th nerv</td>
</tr>
<tr>
<td>8m</td>
<td>Hypoglossal or 12th nerv</td>
</tr>
</tbody>
</table>

#### Spinal nerves

Including in 5-6 microscopic studies on nerv roots. See also 611.827

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dorsal or posterior branches</td>
</tr>
<tr>
<td>2</td>
<td>Ventral or anterior</td>
</tr>
<tr>
<td>5</td>
<td>Dorsal or posterior roots</td>
</tr>
<tr>
<td>6</td>
<td>Ventral or anterior</td>
</tr>
</tbody>
</table>

#### Cervical nerves

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dorsal or posterior branches of cervical nervs</td>
</tr>
<tr>
<td>2</td>
<td>Ventral anterior branches of cervical nervs</td>
</tr>
<tr>
<td>3</td>
<td>Cervical plexus</td>
</tr>
<tr>
<td>3a</td>
<td>Large auricular nerv</td>
</tr>
<tr>
<td>3b</td>
<td>Cutaneous nerv of neck</td>
</tr>
<tr>
<td>3c</td>
<td>Supraclavicular nervs</td>
</tr>
<tr>
<td>3d</td>
<td>Plexus or internal respiratory nerv of Bell</td>
</tr>
<tr>
<td>4</td>
<td>Brachial plexus</td>
</tr>
<tr>
<td>4a</td>
<td>Supraclavicular part</td>
</tr>
<tr>
<td>4b</td>
<td>Infraclavicular part</td>
</tr>
<tr>
<td>5</td>
<td>Median nerv</td>
</tr>
<tr>
<td>6</td>
<td>Ulnar or cubital nerv</td>
</tr>
<tr>
<td>7</td>
<td>Radial nerv</td>
</tr>
<tr>
<td>8</td>
<td>Musculo-spiral</td>
</tr>
<tr>
<td>9</td>
<td>Musculocutaneous nerv</td>
</tr>
<tr>
<td>9a</td>
<td>Antibrachialis ulnaris</td>
</tr>
<tr>
<td>9b</td>
<td>Cutaneous brachii medialis, or nerv of Wrisberg</td>
</tr>
</tbody>
</table>

#### Thoracic nerves

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Posterior branches</td>
</tr>
<tr>
<td>2</td>
<td>Anterior</td>
</tr>
<tr>
<td>3</td>
<td>Intercostal nervs</td>
</tr>
</tbody>
</table>
611.835 Lumbar and sacral nerves

1 Posterior branches
2 Anterior "
3 Lumbosacral plexuses
4 Lumbar plexus
41 Great iliohypogastric nerve
42 Ilioinguinal
43 Genitofemoral or genitocrural
44 Lateral or cutaneous nerve of thigh
5 Femoral nerve or anterior crural nerve (femoralis)
51 Middle cutaneous nerve
52 Internal "
53 Muscular branches of posterior division of anterior crural nerve
54 Long or internal saphenous nerve
6 Obturator nerve
61 Accessory obturator, or accessory anterior crural nerve of Winslow
68 Lumbosacral cord
7 Sacral or sciatic plexus
71 Superior gluteal nerve
72 Inferior "
73 Small sciatic nerve (cutaneous femoris posterior)
8 Great sciatic nerve or ischiadicus
81 External popliteal, or peroneus communis or peroneal
82 Sural or lateral cutaneous branch, or cutaneous surae lateralis
84 Musculocutaneous or superficial peroneal
86 Anterior tibial nerve or deep peroneal
87 Internal popliteal or tibial
88 Sural or plantar nerves
9 Genital, pudic or pudendal plexus
93 Collateral branches
95 Pudic nerve

.836 Cocygeal plexus Cocygeal nerves

.839 Sympathetic system

1 Cervical and cephalic part
11 Superior cervical ganglion
12 Internal carotid nerve and plexus
Cavernous plexus
13 External carotid nerve and plexus
14 Common " plexus Superior cardiac nerve
15 Middle " ganglion Middle "
16 Inferior cervical "
17 " cardiac nerve Cardiac plexus
2 Thoracic part of gangliated cord
3 Abdominal and pelvic part of sympathetic system
31 Solar or epigastric plexus or plexus coeliacus

.84 Eye Organ of vision
See also 611.7146 Orbit, including capsule of Ténon

.841 Fibrous coats or tunics of eye

1 Conjunctiva
3 Cornea
5 Sclerotic coat or sclera
Canal of Schlemm Spaces of Fontana

.842 Vascular coats of eye Uveal tract

1 Iris Pupil
3 Choroid Tapetum
5 Ciliary body, muscle and processes

.843 Retina

Optic disc; macula lutea For optic nerve see 611.8313
Refracting media

Crystallin lens
Zonule of Zinn or zonula ciliaris
Vitreous humor Posterior chamber
Hyaloid membrane Hyaloid or Stilling's or Cloquet's can.
Canal of Petit
Aqueous humor Anterior chamber

Accessory organs of eye
External muscles, musculi oculi
Tear apparatus
Lacrimal gland
" canals and puncta
" sac and nasal duct

Eyelids or palpebrae
Canthi
Eyelashes or cilia
Eyebrows or supercilia

Ear Organ of hearing
See also 611.8318 Auditory nerv

Internal ear

Membranous labyrinth
Cochlea, scala media, or ductus cochlearis
Organ of Corti, or Corti's fibers
Saccule
Utricle
Semicircular canals

Osseous labyrinth
Vestibule, semicircular canals, cochlea, modiolus or columella

Middle ear or tympanum
Atrium or tympanic cavity proper
Attic
Mastoid cells
Membrana tympani, or drumhed
Eustachian tube or tuba auditiva
Bones of ear
Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani

External ear
Meatus, pinna

Organs of smell; olfactory organs
" " taste
" " touch and senses in general

Organa lateralia

Ganglions
Class ganglia here if separately treated

Cranial ganglia
Semilunar ganglion or Gasserian
Ciliary
Sphenopalatin or Meckel's ganglion
Otic or Arnold's submaxillar ganglion
Geniculate ganglion
Spiral or Corti's ganglion
Vestibular ganglion
Petrosal and superior glossopharyngeal ganglion
Jugular and nodose ganglia
Ganglia of spinal nerves
See also 611.832 Spinal nerves
Sympathetic ganglia
For chromaffin tissue see 611.4
Regional anatomy

1.9 Head
.91 Face
.92 Neck
.93 Thorax
.94 Front or pectoral
.946 Back or dorsal
.95 Abdomen
.951 Epigastric region
.955 Mesogastric "
.957 Hypogastric "
.959 Lumbar "
.96 Pelvic and perineal region
.962 True pelvis
.964 False "
1 Inlet 2 Cavity 3 Outlet
.966 Position and size
.968 Difference between male and female pelvis
.97 Upper extremities
.971 Shoulder or axilla
.972 Arm
.973 Elbow
.974 Forearm
.975 Wrist
.976 Hand
.977 Fingers
.98 Lower extremities
.981 Hip Nates Sulcus inguinalis
1 Hip
2 Nates
3 Sulcus inguinalis
4 Inguinal canal
5 Crural or femoral canal
.982 Thigh
.983 Knee Popliteal space
.984 Leg
.985 Ankle
.986 Foot
.987 Toes
.99 Tail
MEDICIN: PHYSIOLOGY

612 Physiology

SUMMARY
612.013 Vitalism
  .014 Cells and organisms
  .015 Physiologic chemistry
  .1 Blood and circulatory system
  .2 Respiration
  .3 Digestion
  .4 Glandular system
  .5 Animal heat
  .6 Reproduction Development
  .7 Motor and vocal apparatus
  .8 Nervous system

General theory of physiology
  .01 Notion, definition, nature
  .011 Classification, division
  .0114 Terminology, notation, symbols
  .0118 Methods

Physiologic theories and generalities
  .013 On the nature of life and death Vitalism

This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heads under this number are better cast in their broader relations; i.e. see 577.2 for the nature of life; 577.7 for the nature of death; 612.67 for death as a stage in vital history

  1 Signs of real death See 577.7
  2 Experiments on executed persons
  4 Theories of life and the soul Vitalism
    See metaphysics, 128
  5 Comparisons of animals and plants See 577.5
  6 Organism and inanimate matter See 577.1
  7 Vital energy See 577.6
  8 Experiments on surviving organs See 577.6

General physiology of cells and organisms
  .014 See 576 and note under 612.013

  1 Chemistry of cells
    Aerobic and anaerobic cells
  2 Physiologic morphology of cells
    Functions of protoplasm
    " nucleus
    " chromosome bodies Chromatolysis
    " centrosome
  3 Physiologic characteristics of cells
    Irritability in general
    Fatigue
  4 Influence of environment on cells and organisms

Mesology
  .41 Effects of barometric pressure
    See also 612.27 Influence of barometric pressure on living beings
  42 Action of electricity Electrophysiology
    Electrophysiologic technic
    See also 615.84 Electrotherapy
    Static electricity
    Dynamic electricity
    Alternating currents
    Electric measurements
    Special instruments
    1 Electodes
    2 Telephone, microfone
    6 Galvanometers
  422 Electric resistance Conductibility
Electric phenomena of organisms

For electric phenomena of muscles see 612.743, of nerves and muscles see 612.813

1 Theory of electric phenomena
2 Negativ variation
3 Electrotonus
4 Electric phenomena of tissues in repose and in action

Action of electricity on organisms

Everything concerning effect of electricity on function may be clast here by adding o and dividing like 612; e.g. action of electricity on red corpuscles 612.0144, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144.0357, as .357 means bile

2 Action of static electricity
3 " atmospheric"
4 " dynamic"
5 " alternating currents

Deth by electric shock; by lightning

1 Magnetic action
2 Galvanotropism
3 Electrotherapy from physiologic point of view

43 Action of heat and cold See also 612.5
44 Action of light See also 612.843
45 Posforescence
46 Heliotropism Pototropism
See also 615.831 Pototherapy

45 Action of sound and its vibrations
See also 612.8576

46 Poisons and chemic substances

Poisons and definite chemic substances are preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest

461 Effects of water
1 Reviviscen animals
2 Hydrations
3 Quantity of water in organisms and tissues

462 Physicochemic forces
1 Osmosis
2 Molecular concentration in organic fluids Cryoscopy
Subdivisible with o like 612; e.g. Cryoscopy of gastric juice 612.0146.22032
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 612.39833 Theory of histologic conservation

6 Reaction, acid or alkalin
7 Viscosity
8 Superficial tension
9 Other physicochemic forces

463 Action of mineral salts on organisms
1 " air, normal and abnormal; of oxygen and ozone
2 " anesthetics
3 " antiseptics
4 " Chemotaxis Chemotropism
5 " Action of other chemic forces

47 Action of mechanical forces
477 Geotropism
478 Thigmotaxis

48 Other physical forces
481 Various rays

1 Physiologic effect of X rays

To express effect of X rays on a specific organ or tissue, ad o and subdivide like 612; e.g. effect of X rays on sight 612.01448.1084

4 Effect on lower organisms

482 Effect of radioactiv substances; Becquerel rays
483 Production and action of N rays
Physiologic chemistry in general

Ferments

11 Oxidants Reducing ferments
12 Hydrolytic
13 Proteolytic
14 Lipolytic
15 Amylolytic and sucroclastic
16 Glycolytic
161 Alcoholic

Normal composition of the body and its products

See also 612.3926, 612.396-398

Extracts of organs

Metabolism

31 Of mineral substances
See also 612.3926

32 Of carbon
See also 612.22

33 Of nitrogen
See also 612.46123

34 Of substances foren to the normal organism
Elimination of poisons
Most material will be clast under 615.7 and its subdivisions

See also special organs

346 Metabolism of nonnitrogenous substances
347 " crystallizable nitrogenous substances
348 " albuminoids
349 " after deth Autolysis
Subdivisable with o like 612; e. g. autolysis of the liver
612.015349035

Influence of temperature on metabolism
See also 612.59

36 Reductions, hydrations and syntheses in organisms

37 Influence of other agents on metabolism

38 Influence of nervous system on metabolism

39 Metabolism in disease

Staining substances and pigments

Means of attack and defense
Comparativ physiology; usually better clast in 591.57

1 Autotomy
2 Mimicry
3 Physiology of parasites

Comparativ physiology
May be subdivided like 590 to signify kind of animal; e. g. Reptils
being 598.1, comparison of reptil and human physiology is 612.01981
Class here only books written distinctly from physiologist's point of view. Other works on comparativ zoology are better in 591.1

Form divisions

Compends
Dictionaries Cyclopedias
Essays Addresses
Periodicals
Societies Clubs
Study and teaching
Vivisection
See also ethics, 179.4. and laws, 614.22

Polygrafy
History
## DECIMAL CLASSIFICATION

### 612.I Blood and circulatory system

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<thead>
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<th>Decimal</th>
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<tr>
<td>.109</td>
<td>History of circulation of blood</td>
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<td>.11</td>
<td>General properties of blood</td>
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<td><strong>Red corpuscles</strong></td>
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<td>Hemoglobin and oxyhemoglobin</td>
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<td>Carboxyhemoglobin</td>
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<td>Action of CO on blood, carbon monoxid hemoglobin</td>
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<td>16</td>
<td>Spectroscopy of blood</td>
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<td>Methemoglobin and derivates</td>
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<td>18</td>
<td>Hematin or hematoxylin, hematoidin, globin, hemi, Teichmann's crystals, hematochromogen, hematoporphyrin</td>
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<td>19</td>
<td>Isotony of corpuscles</td>
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<td>Osmotic permeability</td>
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<td>Lecithin, urea, cholesterin, etc.</td>
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<td>Number of corpuscles</td>
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<td>Volume of corpuscles</td>
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<td>Other red corpuscles than erythrocytes</td>
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<td>Coloring matters of invertebrate blood</td>
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<td>Other similar coloring matters</td>
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<td><strong>Leucocytes and ameboid cells</strong></td>
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<td>9</td>
<td>Varieties</td>
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<td><strong>Arterial blood</strong></td>
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<td>Fibrinoplastin</td>
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<td>Composition and chemic properties</td>
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</table>
MEDICIN: PHYSIOLOGY

612.116 Total quantity of blood
2 Hemorrhage Anemia
Subdivisable with o like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.243. 618.54
21 Hemostasia
3 Transfusion
Effect on system receiving transfused blood

118 Physical and biologic properties of blood
1 Physical
11 Osmotic pressure
See also 612.1117 Osmotic permeability
12 Effect of various injections
14 Viscosity
17 Cryoscopy of blood
Method of studying isotony and similar phenomena by relative freezing points of solutions
2 Biologic properties
21 Toxins and antitoxins
Physiologic effect For chemic action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins
211 Theory of toxic and antitoxic action
22 Toxic and antitoxic action of blood
Limited to blood toxins and antitoxins. See also 612.3988
221 Specific reaction of blood and albuminoids
Blood in legal medicin
222 Natural immunity
223 Effect of blood on bacteria
Class here physiologic aspect of opsonic theory, opsonins and opsonic index See also 615.37 Serotherapy
24 Various toxic and antitoxic substances of blood
7 Varieties of blood in different parts of body

119 Hematopoiensis or sanguification
See also 612.1113 Formation of red corpuscles

12 Chemic properties of blood
121 Reaction and density
Color reaction Specific gravity
122 Carbohydrates in blood
1 Glucose 2 Glycogen 3 Glycolytic ferments
123 Fats, lipoids, cholesterolin, saponin, glycerin
124 Albumins and albuminoids Uncrystallizable nitrogen compounds
See also 612.39812 Blood serum
125 Crystallizable nitrogen compounds
Staining substances of serum
126 Mineral salts
127 Blood gases
1 Technic for determining quantity 2 Oxygen 3 Carbonic acid
128 Ferments
129 Other chemic substances
Abnormal substances
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</table>
612.173 Work of the hart
   Chemic, dynamic and thermic fenomena
   1 Chemic composition of hart
   2 Intracardiac pressure

612.174 Effect of toxins on the hart
   1 Atropin
   2 Anesthetics

612.176 Hart in disease

612.178 Innervation of hart
   1 Pneumogastric or vagus
      See also 612.819911
   2 Sympathetic
      See also 612.897
   3 Ganglions of hart
   4 Action of cerebrum
      See also 612.8228
   5 Action of medulla oblongata
      See also 612.828
   6 Cardiac syncopes and reflexes
   7 Depressor nerv

612.179 Prenatal circulation

612.18 Vasomotors

612.181 Action of nervs and nerv centers on bloodvessels
   1 Action of cerebrum
   " " medulla oblongata
   " " spinal cord
   " " great sympathetic

612.182 Influence of vasomotors on arterial pressure

612.183 Vasocostrictors

612.184 Vasodilators

612.185 Effect of poisons on vasomotors

612.186 Vasomotors in disease

612.187 Vasomotors in organs
   Divide like 612 Physiology; e. g.
   612.18724 Effect of vasomotors on lung capacity
   612.1878421 Effect of vasomotors on iris
   612.1875 Influence of vasomotors on temperature
   612.187556 Vasomotors in fever

612.188 Erectil tissues
   See also 612.612

612.189 Change of volume of organs
   Plethysamografy  Quantity of blood in various organs

612.19 Action of special organs on circulation

62 Respiration
   See also 612.793 Cutaneous respiration

62.21 Respiratory movements  Mechanics of respiration

62.211 Pneumografy  Respiratory types
   Respiratory excursion

62.212 Pulmonary elasticity and intrapleural pressure
   Intrapulmonary and intrathoracic respirations
Influence of respiration on circulation
See also 612.1461

Special physiology of respiratory apparatus
1 Bronchi
2 Trachea
3 Smooth pulmonary muscles
4 Primary paths of respiration: nose and pharynx
5 Pleura
8 Pulmonary circulation
See also 612.148
9 Pulmonary absorption of liquids
See also 612.385

Respiratory frequency and rhythm
1 Respiratory sounds
2 Pulmonary ventilation
3 Artificial respiration, artificial changes of respiration

Action of muscles Mechanical phenomena
Dimensions and expansibility of thorax
1 Action of diafragm

Other mechanical phenomena
Modified respiratory acts: snoring, laughing, crying, sighing, yawning, coughing, hawking, sneezing, blowing nose, gargling

Respiratory exchange of gases Respiratory chemistry
02 Action of oxygen and ozone on organisms
08 Composition of normal air (only in its physiologic bearing)

Technic of gaseous exchange

Effect of various agents on gaseous exchange

Effect of quality of air
Hyperpnea, polyne, thermopnea
1 Composition of abnormal air
Carbonic acid
12 Activ oxygen or ozone
2 Influence of barometric pressure
See 612.27
3 Influence of climate

Influence of food
" " temperature

Effect of disease and intoxications

Influence of organs
1 Influence of muscular movements
Motion, rest, work
2 Influence of nervous system
" " circulation

Influence of animal kind
Variability of gaseous exchange in animal kinds
1 Influence of stature
2 Aquatic animals
Gaseous exchange in the blood

Expired air  Respiratory quotient

Asphyxiation
  In legal medicine
  1  Artificial respiration in asphyxiation
  2  Asphyxiation by submersion
  3  Hart in asphyxiation
  4  Toxic action of carbonic acid (CO2)

Respiration in confined air
Toxic action of carbonous oxid (CO)
  See also 612.1114 and 615.96

Exchange of gases between air and blood
  Theory

Lung capacity  Vital capacity
  Residual, reserv, respiratory or tidal and complemenal air

Exhalation of water from lungs

Internal or tissue respiration
  Exchange of gases between tissues and blood
Accumulation of oxygen in tissues (cells)

Influence of barometric pressure on living beings
  See also 612.0141. For effect on absorption of oxygen and exhalation of carbonic acid see 612.232

Toxic effects of oxygen and ozone

Effect of more than normal pressure
  Physiologic aspect of caisson disease

Effect of less than normal pressure
  Physiologic and therapeutic effects of high altitudes
  Mountain and aeronautic sickness

Effect of pressure on fermentations
  Effect of removing pressure

Maximum pressures
  Effect on aquatic animals

Respiratory centers
  Influence of nervous system on respiration

Action of cerebrum and of will
  "  medulla oblongata and vagus nucleus
  "  spinal cord

  "  chemic substances and abnormal blood gases
  Toxicology of center
  1  Apnea, acapnea, dyspnea
  See also 612.232

Action of pneumogastric or vagus nerves
  See also 612.819912

Respiratory reflexes
  See also 612.8332

Influence of other organs on respiration
### Digestion

May be subdivided by 01-09 for form, if needed

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<td>311</td>
<td>Teeth</td>
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<tr>
<td>312</td>
<td>Salivary glands</td>
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</table>

#### Mastication and prehension

- Physiology of teeth

#### Deglutition or swallowing

- Tonsils
- Tung

#### Salivary glands

- Saliva
  - Composition of normal saliva
  - Action of saliva on food: Ptyalin
  - Salivary secretion: Toxic effect of saliva
  - Action of chemic substances
    - See also Therapeutics, 615.741 Sialagogues
    - Elimination
    - Action of atropin and of pilocarpin
    - Physiologic morphology
  - Pathologic changes of saliva
    - Salivary fistulas
    - Bacteriology
    - Salivary calculi
    - Abnormal substances
    - Action of nervous system on salivary secretion
      - Action of sympathetic nerves
        - See also 612.898
      - Action of chorda tympani
        - See also 612.81977

#### Salivary venoms and venoms in general

- Chemic composition
- Toxic action
- Natural immunity and resistance to venoms
- Attenuation and neutralization of venoms
- Treatment of venom poisoning: Serotherapy
  - See 615.94 Duplicated here for physiologist only
- Antitoxins
  - See also 612.11822 Antitoxins of serum

#### Esophagus

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<td>32</td>
<td>Stomach</td>
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<td>321</td>
<td>Gastric juice</td>
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<tr>
<td>322</td>
<td>Vomiting</td>
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</table>

#### Normal composition of gastric juice

- Gastric fistulas, experimental and pathologic
- Determination of acid in gastric juice
- Proteolytic ferments: pepsin
- Milk curdling ferments, inorganic and organic

#### Digestive power of gastric juice

- Starch and analogs
- Sugars
- Fats
- Albuminoids
  - Nature and properties of peptones
    - See also 612.39817
- Antiputrefactive properties of gastric juice
- Mixture of bile or other secretions of digestiv tract and gastric juice
Absorption in stomach and transformation (into mucus) of products of digestion

See also 612.386

Absorption and transformation of sugars

" " " fats

Absorption and transformation of nitrogenous substances (peptones)

" " " salts

Effect on stomach

Stomach secretion

Formation and destruction of pepsin
Pepsin in urin

Formation of hydrochloric acid (HCl)

Autodigestion of stomach

Effects of removing stomach

Action of chemic substances (poisons) on gastric secretion and their elimination

Physiologic morphology of stomach

Relation between morologic changes and stimulation

Pathologic changes of stomach secretion

Bacteriology

Gastric juice in disease

Abnormal substances in gastric juice

Movements of stomach

Muscular irritability of stomach

Motor action of pneumogastric
Evacuation of stomach

Merycism and rumination

Vomiting

Action of emetics or vomitories

See also under therapeutics, 615.731 Emetics

Action of nervous system on stomach

Psychic influence on stomach secretions

Sensibility of stomach

Intestin

Middle intestine and glands of middle intestine in invertebrates

Normal composition of intestinal juice

Intestinal fistulas, experimental and pathologic

Intestinal gases Fermentiv process due to bacteria

Intestinal digestion

Carbohydrates

Fats

Albuminoids and derivates Erepsin

Absorption and changes of food in intestin

See also 612.386

Carbohydrates

Fats Chyliferous vessels See also 612.426

Albuminoid derivates

Other substances

Inorganic substances Water and salts

Action of intestinal juice on other secretions and ferments

See also 612.3226

Enterokinasis and secretin
612.333 Intestinal secretion
-334 Action of chemic substances on the intestin and their elimination
  4 Purgativs
    See also therapeutics, 615.732 Cathartics
-335 Physiologic morphology of intestin
  5 Intestinal circulation
-336 Pathologic changes of intestinal secretion
  3 Parasites and microbes
    Bacterial fermentation Physiologic effect of microbes
-337 Movements of intestin
  1 Movement of chyme in intestin
-338 Action of nervous system on intestin
  1 Action of nervs and nerv centers on secretion
-339 Peritoneum Omentum
  1 Absorption in peritoneum
    See also 612.387
-34 Pancreas Pancreatic juice
-341 Normal composition of pancreatic juice
  1 Pancreatic fistulas
-342 Action of pancreatic juice on food Tryptic digestion
  1 Starches and analogs
  2 Sugars
  3 Fats Steapsin or ptyalin
  4 Albuminoids Trypsinogen Trypsin
  5 Effect on other digestiv fenomena
    On bile and gastric juice
    See also 612.3226
-343 Pancreatic secretion
-344 Action of special substances on pancreatic secretion and juice
-345 Physiologic morphology
  Relation between morfologic changes and stimulation
-346 Pathologic changes of pancreatic juice
-348 Action of nervous system on pancreas
-349 Pancreas as an internal gland Islands of Langerhans
  1 Pancreatic glycosuria
    Physiologic fenomena only. See also 612.35216, 612.46621, and diseases 616.61, where most material belongs
-35 Liver
-351 Hepatic circulation and chemic composition
  1 Chemic composition
    Ferments
  5 Hepatic circulation
    Ligature of portal vein
  6 Effect of extracts from hepatic tissue
    Hepatic opotherapy
Effect of liver on absorbed foods

Glycogenesis
Glycogen of liver and its tissues

See also 612.352

Determination of amount of sugar and glycogen: technic

Sugar of the blood

Action of nerves on glycogenic function
Experimental diabetes

Fermentation of glycogen
Glycogenolysis

Glycosuria (diabetes) in general

See also 612.3491, 612.46621 and pathology 616.63

Glycogen of other organs

Glycogen of muscles

See also 612.74411

Relations between glycogenesis and alimentation

Fat
Adipogenic function

Hepatic chemical phenomena

Formation of urea

See also 612.4612

Action of poisons on liver

Toxic steatoses

Antitoxic action of liver

Temperature of liver

See also 612.503

Hematopoietic function of liver and effect on blood

See also 612.119

Bile

Normal composition of bile

Biliary fistulas

Coloring matter
Bile pigments

Bilirubin, biliverdin
For origin see 33 below

Mineral salts

Biliary acids and their salts
Glycocholic and taurocholic acids

Action of bile in the intestine
Final fate of bile

Bile secretion

Quantity

Origin of bile acids

" " " pigments

Action of chemical substances on bile secretion

See also therapeutics, 615.742 Cholagogues

Elimination of poisons by bile

Pathologic physiology of bile

For general works and medical aspect see 616.36

Biliary calculi

Obliteration of bile ducts
Icterus
Jaundis
Cholelithiasis

See also pathology, 616.36 Liver and bile ducts

Bile in disease

Toxic effects of bile

Abnormal biliary substances

Biliary excretion
Physiology of ducts

Gall bladder

Absorption in biliary ducts

Contractility of ducts

Innervation of bile ducts

Action of nervous system on liver

Ablation, regeneration, cicatrization and other morphologic phenomena

Volume of liver

Fatty or starchy degeneration
Defecation | Large intestine
---|---
Proctodeum and its appendages in invertebrates

Chemical composition of excreta

Cecal digestion | Vermiform appendix

Absorption in large intestine

Defecation

Rectum

Movements of large intestine

Innervation

Absorption

Imbibition | Transudations and exudations | Edema

Osmosis | See also 612.014621

Dialysis of mineral salts

" sugars

" albuminoids

Diffusion

Absorption by skin

See also 612.79

Absorption by lungs

See also 612.2159

Absorption in digestive tract

General; see also specific part of tract

Absorption by mucous and serous membranes

See also 612.3391

Parenchymatous absorption

Absorption by cellular tissue (after injection)

Nutrition | Metabolism
---|---

Hunger | Thirst | Inanition
---|---|---

Hunger, thirst and nervous centers

Mechanical action of hunger

Inanition in man

" " disease

" " animals

Inanition in poikilothermic animals

" " homiothermic

Foods

Assimilation of carbon

" " nitrogen

See also 612.46123

Assimilation of water

" of sulfur, fosforus and iron

Sulfur | Fosforus | Iron
---|---|---

Thermodynamic value of food

Mineral foods

1 Sodium salts | 2 Potassium salts | 3 Calcium salts

Vegetable foods

Vegetarianism | See also hygiene, 613.26 Vegetable diet

Fruits and fresh vegetables

Cereals

Bred
Animal food

See also hygiene, 613.28 Meats in diet

Meats
Soup
Meat extracts
Eggs
Milk

See also 612.664
Sterilization and artificial changes in milk
Cheese
Butter

Special artificial foods

Condiments and stimulants

Alcohol as food
Fermented drinks
See also hygiene of nervous system, 613.81 Alcohol

Coffee
Tea
See also hygiene of beverages, 613.37

Condiments

Ration or food requirement during growth

Of man
Nourishment of newborn
Animals

Ration or food requirement of adults

Working ration
Normal ration
Working ration for man
" " animals
Subsistence ration
Subsistence ration for man
" " animals
Relations of ration to external conditions,
E. g. climate
Food requirements in disease

Carbohydrates

Chemical composition

Polysaccharides
Starch
Inulin
Glycogen
Cellulose

Gums and analogs: dextrin
Monosaccharides: glucose, mannose, galactose, fructose, etc.
Disaccharides: sugar, lactose, maltose, etc.
Combined carbohydrates

See 612.3981453 Glycoproteins

Chitin
Glycosides: amygdalin, salicin, phlorizin, saponin, etc.
Other carbohydrates: pentose, inusitum

Changes of sugars in organism
Glycolysis

Products of carbohydrates; e. g. glycuronic acid
Alcohol in tissues

Hydrolytic ferments of carbohydrates and analogs
Amylasis, inulasis, cytasis, etc.
Saccharolastic ferments
Inversion

Formation of carbohydrates in organism
Thermodynamic value of carbohydrates
Quantity of carbohydrates in foods and tissues
612.397 Fats

1 Chemic composition
2 Changes of fats in organism
21 Fatty degeneration and infiltration See also 612.3952
22 Products of fats
23 Acids
24 Glycerins
3 Lipolytic ferments
4 Formation of fats
5 Thermodynamic value
7 Quantity of fat in food and tissues Adiposity
8 Lipoids
81 Cholesterol
82 Lecithin

-398 Albuminoids and nitrogenous substances

1 Chemic composition
11 Composit albuminoids
   For eg albumin see also 612.39283
12 Blood serum and other serous fluids of body
   See also chemical properties of blood, 612.124 Albuminoids
13 Simple albuminoids
131 Albumin
132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
133 Coagulated albuminoids Fibrin Coagulation of albuminoids
135 Albuminoids as acids or bases
136 Nucleoalbumin, simple phosphorated albuminoids
138 Proamins
139 Other albumins
14 Other albuminoids
145 Proteids
   Albumin + a complex organic compound
1 Nucleoproteids
   Albumin + nucleic acid, products of nucleic acid and specific ferments
2 Hemoglobin and analogs
   Albumin + an iron compound. See also 612.11111
3 Glycoproteids
   Albumin + a carbohydrate. See also 612.3967
146 Albuminoids: gluten, elastin, amyloid, etc.
15 Vegetable albuminoids
16 Albuminoid products and nitrogen compounds
17 Albuminoses and peptones
172 Thermodynamic value
175 Changes of substances derived from albuminoids by digestion
19 Products of complete change of albuminoids Nitrogen compounds
191 Protaminic nucleus See also 612.398138
192 Amidic acids
193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
194 Ammonia and ammonia compounds
195 Bases (alkaloids), purin compounds
196 Aromatic compounds
197 Nonnitrogenous products of albuminoids
199 Other products
2 Changes of albuminoids in organism
3 Proteolytic ferments
   Only general works See specific nitrogen compounds for their derivates, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
5 Thermodynamic value of albumins and derivates Albumin as food
 Formation of albuminoids in general
Quantity of albuminoids in food and tissues
Toxins, antitoxins·Chemistry of poisons

For action, see 612.348; for animal poisons, see 612.344; for
promains, leucomains, etc. see 612.398195 above.

.4  Glandular system  Secretion  Excretion

Effect of circulation on glands
"glands "circulation and blood
"nutrition glands

Physics and chemistry of secretion

Effect of glands on nervous system
"nervous system on glands

See also 612.817.

Physiologic morphology of secretions and glandular epithehiums.

Spleen

Hematopoietic action  Effect of spleen on blood

Splenotomy  Circulation in spleen

Contractility of spleen

Spleen in relation to other organs

Effect on digestion

Function of spleen in disease, in experimental infections

and in wounds

Chemic phenomena

Lymfatic system and lymf

For lymphocytes see 612.142

Lymf  Chemic composition

Quantity and origin of lymf

Lymfatic circulation  Thoracic duct

Lymfatic harts

Innervation of lymfatic system

Lymfatic absorption

See also 612.3373

Lymfatic fistulas

Lymf glands

Thymus

Thyroid gland

Chemic composition

Parathyroid glands or accessory thyroids

Thyroidectomy  Destruction of thyroid

Including pathologic destruction

Effects of thyroid extracts

Suprarenal capsules

Chemic composition

Excision and destruction

Effect of capsular extract
Kidneys  Urin

1  Reaction composition of urin
   Reaction and physical properties
11  Reaction
12  Density
13  Temperature
17  Urinary technology
174  Staining reactions
175  Spectroscopic examinations
176  Polarimetric
177  Histochemic
178  Pathologic urinary technology
179  Densimetry and cryoscopy of urin

2  Urea and nitrogen compounds
21  Determination of quantity of urea
22  Ureameters
23  Determination of total nitrogen
231  Excretion and metabolism of nitrogen
232  In relation to alimentation
233  " work
234  Effect of chemic substances (poisons)
235  Influence of temperature
236  " disease
238  " nervous system
239  " animal kind
25  Variability of process in animal kingdom
25  Uric acid  See also 612.398193
251  Determination of quantity
254  In animals
255  " normal man
256  " man in disease: uric diathesis
259  " other tissues and fluids than urin
26  Other nitrogen products of urin
261  Bases  Xanthin bases   See also 612.398145
262  Ptomaines
263  Allantoin
264  Peptones  See also 612.46668, 612.39817
266  Hippuric acid
267  Ammonium and other urates  See also 612.398144
268  Ferments  See also 612.32321
269  Physiologic albuminuria
27  Coloring matter  Pigments: urobilin, urochrome

6  Salin substances in urin
61  Chlorin salts
62  Posforus and its compounds
63  Sulfur and its compounds
64  Gases of urin
8  Nonnitrogenous organic constituents of normal urin
81  Sugars  Physiologic glycosuria

Urinary toxicity
1  Internal secretion of kidneys

Urinary secretion
1  Quantity of urin
2  Elimination of urin
4  Renal circulation
5  Influence of blood and circulation
6  Comparativ secretion of the two kidneys
8  Effect of nervous system
81  Glycosuria, polyuria after lesion of medulla oblongata
MEDICIN: PHYSIOLOGY

612.464 Action of poisons on urinary secretion and their elimination

1 Diuretics Polyuria
   See also 615.761 Diuretics in therapeutics

2 Toxic albuminurias
   See also 612.46622

3 Elimination of poisons by urin

4 Toxic glycosuria Phlorizin
   See also 612.46621

Physiologic morphology of kidneys

Pathologic physiology of kidneys and urin

1 Urinary calculi

2 Urine in disease

21 Urine in diabetes Chemistry of glycosuria For physiology of diabetes see 612.35216

22 Urine in albuminuria Albuminuria in general
   See also 612.461269, 612.4642 and 616.614

23 Resection and lesion of kidneys, experimental and pathologic
   Ligature of ureter, etc.

231 Uremia See also 616.638

26 Urine in fever

Abnormal substances in urine

61 Acetonuria Acidosis

62 Chyluria

63 Other abnormal products of metabolism

631 Glycuronic acid See also 612.39621

64 Products of intestinal putrefaction Indican

67 Biliary pigments Choluria

68 Albuminoses and peptones

69 Hematuria and hemoglobinuria

7 Urinary fermentation Putrefaction of urin

Physiology of bladder, ureters and urethra

Absorption in urinary passages

Innervation of vesical apparatus

For prostate see 612.617 For action of nervous system on function of kidneys see 612.4638

Other glands and secretions

Bone marrow

Hypophysis or pituitary gland Somatic brain

Scent glands of animals

Bartholin's glands

Carotid gland

Other glands

See also 612.664, 612.702
612.5 Animal heat

- .51 Sources Thermogenesis Calorimetry
- .511 Direct calorimetry
- .512 Indirect calorimetry
  - .5121 Influence of alimentation
  - .5123 Effect of respiration
- .52 Loss of heat Radiation Thermolysis
  - .521 Conduction of animal tissues
  - .523 Cutaneous radiation
    - .5231 Physiology of clothing
  - .524 Loss by pulmonary evaporation
    - " " cutaneous evaporation
- .53 Regulation of temperature Heat balance
  - .531 Influence of vasomotors
  - .532 " " muscular movement
    - See also 612.7453
  - .533 Effect of perspiration
  - .534 " " respiration Thermic polypnea
  - .535 Thermic centers
- .54 Other conditions affecting temperature and thermogenesis
  - .541 Effect of baths
  - .543 " " inanition
    - See also 612.391
  - .544 Effect of poisons
- .55 Variations in production and regulation of heat
  - .556 In disease: fevers
- .56 Temperature of body
  - .563 Thermic topografy
- .58 Hibernating animals
- .59 Heat and cold; effect on organism
  - Subdivisible with e.g. 612.59074 Effect on muscles
  - See also 612.01443
  - .591 Effect of heat Deth from heat Thermic rigidity
  - .592 Effect of cold Deth from cold Rigidity from cold
612.6 Reproduction and generation Development

.601 Spontaneous generation
See origin and beginnings of life, 576.1

.602 Transplantation Animal grafting
May be divided by organs like 612

.603 Cirrization Regeneration
May be divided by organs; e.g. 612.60144 Regeneration of thyroid
612.60384 eye

.604 Reproduction of lower organisms
Protozoa, etc.
1 Asexual: fission, division, gemmation or budding or sprouting
2 Sexual: conjugation or concrescence
5 Variations: alteration of generations or metagenesis, pedogenesis, parthenogenesis

.605 Morfogenesis in general Heredity
See 575 Evolution
1 Heredity
2 Variation, including artificial
3 Hybridization
4 Tumors
Only for physiologic aspect, for pathology see 616.992

.606 Proportion and determination of sexes
See also Biology, 577.8 Sexes in nature, sexuality

.607 Consanguinity Incest

.608 Hermaphroditism

.609 Theory of evolution Natural selection, darwinism
See 575 Evolution

.61 Male functions of generation
For semen see 612.616

.612 Erection
Including also the function in general, in either or both sexes
See also 612.188

.613 Copulation and fecundation
1 Artificial
2 Parthenogenesis
21 Artificial parthenogenesis

.016 Testicles Orchitic fluid Sperm
1 Effects of castration Resection or injury, experimental or pathologic, of testicles or of sexual glands in general
2 Physiology of spermatozoa
3 Testicles as internal glands Interstitial cells

.617 Appendages of male organs: seminiferous ducts, seminal vesicles

.62 Female functions of generation Ovulation
See also 612.612 and 612.6161

.021 Physiology of ovaries
See also 612.6303
1 Ablation or injury of ovary, experimental or pathologic
See also 612.6161

.622 Physiology of ovum

.627 Physiology of uterus
1 Uterin circulation
8 Innervation of uterus
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<td>See also 611.0138 Fetal appendages (in embryology)</td>
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<td>Sugars</td>
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<td>Lactic fermentation Milk ferments</td>
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<td>17 Milk curdling ferments Coagulation of milk</td>
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<td>See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates</td>
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612.7 Motor and vocal apparatus
Skin

.71 Protoplasm
See also 612.014 General physiology of cells and organisms

.72 Vibratil cilia

.73 Smooth muscle
Divided like 612.74

.74 Striped muscle
Muscle in general, including smooth muscle

.741 Muscular contraction

1 Myografy
12 Single contraction of muscle fiber
13 Tetanic contraction
14 Tonic contraction
15 Influence of chemic substances on muscles
16 Myografy in disease
2 Change of volume of muscle
3 Muscle wave
4 Elasticity of muscle
Myotonometry
Effect of weight
Tension
6 Muscular irritability
Influence of blood
61 Circulation in muscles
62 Effect of stimulation
63 "electricity

7 Latent period
Time elapsing between moment of stimulation and response by an active tissue

8 Muscle murmur

9 Physiologic morphology of muscles
Histologic phenomena of contraction

.742 Muscles after death
Rigor mortis

1 Chemic phenomena after death: autolysis

.743 Electric phenomena of muscles

.744 Chemistry of muscle

1 Normal composition
11 Carbohydrates
See also 612.35218 Glycogen of muscles
14 Albuminoids
15 Other organic substances
16 Mineral substances
Including water
Muscle salts
17 Gases

2 Chemic effects of muscular contraction
21 Fatigue
211 Ergografy
Dynamometry
Work in general
22 Consumption of oxygen and production of CO2 in work
23 Function of carbohydrates
24 Relation of chemic changes to work
Metabolism in relation to work

.745 General effect on organism of muscular contraction or work
See also 612.532

1 Dynamic effects

3 Thermic

5 Relations between work and heat
Pathologic physiology of muscles

1. Contractures
2. Tremors Shuddering
3. Nutrition of muscles Atrophy Degeneration Regeneration

Bones, joints and connective tissues

.75

Chemical composition of bone and connective tissue

1. Bone
2. Cartilage
3. Connective tissue

Nutrition of bones

.752

Growth, cicatrization and regeneration of bone

.753

Periosteum Perichondrium

Tendons

Locomotion

1. Principles of animal mechanism; comparative study of locomotion preferably class in 591.47
2. Chronofotography: technic
3. Special movements Combined movements

Physiology of violin playing, etc.

Human locomotion

1. Physiology of exercise and work
2. Rest

Animal locomotion Special organs of locomotion

Swimming bladder of fishes

Flight

Biologic adaptation of movement

1. Electric and phosphorescent animals
2. Electric animals
3. Phosphorescent animals

Voice and speech

See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound

Sensibility of larynx

Movements and innervation of larynx

1. Influence of spinal accessory nerve
2. Influence of pneumogastric

Laryngoscopy

3. Movements of glottis
4. Epiglottis

Artificial larynx

Singing Timbre, quality Voice register

Larynx in deglutition and other laryngeal functions

Organs of sound in lower animals

Larynx of birds
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612.789 Speech Language
1 Function of mouth and nose
2 " " lips and soft palate
3 Innervation of organs of speech Aphasia
   See also 616.855
4 Vowels and consonants
5 Ventriloquism
   See also 791 Ventriloquism as an amusement

.79 Skin
 .790.5 Chemic composition
 .791 Absorption
   See also 612.384
1 Penetration by solids
2 Absorption of fats
   " " solutions
3 " " liquids
4 " " gases

.792 Cutaneous glands and secretion
1 Swet Chemic composition
   Toxic action of swet
4 Action of chemic substances on swet secretion
   Elimination of poisons by swet
5 Physiologic morphology of swet
6 Pathologic changes of swet
8 Action of nervous system on cutaneous exhalation
9 Other cutaneous secretions

.793 Cutaneous respiration
4 Effect of suspended transpiration; closing pores by
   liniments, etc.
5 Effect of chemic substances on skin
   See also 612.7924

.794 Cutaneous sensibility

.795 Electric conductivity and resistance of skin
   See also 612.014422

.796 Chromatophores and skin pigments

.798 Trofic nerves of skin

.799 Growth and physiology of nails and hair
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<td>.815</td>
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### Special nerves

Whenever possible class according to function rather than according to a particular nerve, classing here only special nerve physiology.

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<td>2d pair: optic</td>
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<td>3d pair: motoroculi or oculomotor</td>
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<td>Innervation of iris</td>
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<td>Innervation of eyelids</td>
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<td>33</td>
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<td>4th pair: trochlear or pathetic</td>
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<td>5th &quot; : trigeminal</td>
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<td>52</td>
<td>Sensory action</td>
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<td>6</td>
<td>6th pair: external oculomotor or abducens</td>
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<td>7th &quot; : facial</td>
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<td>71</td>
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<td>&quot; &quot; respiration</td>
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612.82 Nervous centers Brain

Physiologic psychology

1 Time of reaction to stimulation Psychometry
2 Attention Memory Association Imagination
3 Instinct Intelligence Emotions Sensibility
31 Comparativ psychology
311 Nonautomatic actions of animals Anticletis
312 Automatic
313 For physiologic aspect see 612.829
33 Emotions Sensibility
34 Inhibition of movement Will Habit Impulse
35 Associated movements

4 Action of poisons on intelligence
   See also 613.8 Hygiene of nervous system
   41 Alkaloids
   42 Nonalkaloid anesthetics
      See also Therapeutics, 615.96 Cerebral poisons
   44 Alcohol
      See also Therapeutics, 615.96 Alcohols as cerebral poison
      Pathology 616.861 Alcoholsism

5 Effect of disease on intelligence

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7 Sleep Hypnotism
   See also 135 Sleep, Dreams
   71 Hypnotism See also 134 Mesmerism, Hypnotism
   73 Theories of sleep
   74 Cerebral circulation in sleep
   75 Chemic phenomena of organism in sleep
   76 Dreams

8 Sense in general and theories of perception
   88 Psychophysical laws
   89 Sensory delusions
      For optic illusions see also 612.84374

Nerv cells and nerv centers

1 Chemistry of nervous tissue
   Metabolism in nervs

2 Chemic fenomena of nervous excitation
   For stimulation of nerv fibers see 612.814

3 Electromotiv fenomena of nervous excitation
   4 Thermic
   5 Physiologic morfology
   53 Effects of fatigue
   54 " " poisons
   56 Degeneration and regeneration of centers

6 Effects of removal and experimental, pathologic or teratologic lesion of nerv centers
   61 Movement in a circle (motus circularis, manège)

7 Decapitation

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.02, Compendia; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals;
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.11 Climate. Acclimation. See 551.5, Meteorology; 614.834, Therapeutics;
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.13 Seasons. Time of Day.

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.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

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.2 Food. Dietetics.
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.21 Dietaries.
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.22 Food for Infants.

.23 Food for the Sick.
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.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.
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.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16,
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.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations;
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By Elevated, Low, or Variable Temperature.

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By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.

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 .83 Explosions
 .831 Manufacture and storage of explosivs and combustibles
 See also 662 Chemic technology
 .832 Gunpowder
 .833 Dynamite, etc.
 .834 Inspection of kerosene, etc.
 .835 of illuminating gas
 .836 of electric apparatus
 .837 of steam boilers
 .84 Fires
 .841 Fire prevention
 " detection
 .842 " extinction See 352.3 Fire department
 .843 Automatic
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 .846 Extinguishers Water towers See 621.68 Pumping engins
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 .848 " exits, etc. from public bildings
 .85 Bilding laws Inspection of bildings
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 .861 Travel on land
 " " highways
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 .864 " " water
 .865 Lighthouses, buoys, etc.
 .866 Pilots
 .867 Boats, life preservers, etc.
 .868 Rescue of shipwreck Lifesaving servis
 .87 Exposure to cold Hospice of St Bernard
 .88 Aid to injured
 .881 Ambulance
 .882 Ambulance for contagious diseases See also 614.44
 .883 Bed wagon
614.9 Hygiene of animals Veterinary sanitation
.91 Infectious diseases of domestic animals
.92 Parasites of animals See 591.69 Economic zoology
.93 Animal diseases communicable to man See also 614.56
.94 Care and housing of animals
.95 Feeding of animals
.96 Transportation of animals
.97 Methods of slaughtering
.971 Painless extinction of animal life

615 Materia medica and therapeutics
.02 Compends .05 Pharmaceutical journals .06 Pharmaceutical societies
.07 Education, schools of pharmacy .09 History

Materia medica Drugs Pharmacology
For examining boards, laws, etc. see 614.24 Registration of pharmacists. See also 614.35 Adulteration of drugs; 543.4 Chemic analysis

Pharmacopoeias
Dispensatories
Formularies
Prescription writing Posology

Inorganic drugs
Divided like 546. 615.218 Phosphorus; 615.258 Mercury; 615.272 Iron. See also note to 615.7

Organic drugs
See also note to 615.7
Carbon compounds Divided chemically like 547
Vegetable products Divided botanically like 580
Vegetable products Divided by character
1 Starches 2 Sugar 3 Glucosids 4 Tannins 5 Gums 6 Drugs containing alkaloids 7 Bitters 8 Organic acids
Fixt oils and acids
Ferments: diastase, pepsin, etc.

Organotherapy
Serotherapy
Opsonic theory; see also physiology, 612.118223
Vaccine therapy; see also public health, 614.473 Vaccination

Practical pharmacy

Therapeutics Action of medicines in general
Certainty of medicines
Antagonism of medicines
Law of similars Homeopathy
Homeopathic works are classed with the subjects treated. This book is for Hahnemann’s theory only
Influence of age
Infant therapeutics Therapeutics of old age
Influence of sex
Influence of environment
Influence of idiosyncrasy
615.6 Administration of medicines

.61 By stomach
.62 " rectum
.63 " subcutaneous tissue Hypodermic medication
.64 " lungs Inhalation See also 612.335 Absorption
.65 " veins Transfusion of blood
.66 " serous and mucous membranes Peritoneum, vagina, etc.
.67 " skin Baths

See also physiology 613.384

.7 Medicines grouped by effects

Treatises on specific drugs, digitalis, ergot, etc. are classt in the divisions of materia medica, 615.2-615.3; iron, 615.272; digitalis, 615.32381

.71 Drugs acting on circulatory system

.711 Stimulants
Alcohol, ammonia, digitalis, coffee, ergot

.716 Depressants
Aconite, veratum group, nitrates

.72 Drugs acting on respiratory system

.721 Expectorants

.726 Erhines Sneezing

.73 Drugs acting on digestiv system

.731 Emetics
Ipecac, mustard, metallic salts, apomorphin

.732 Cathartics
1 Laxat vs 2 Salines 3 Purgatives 4 Hydragogs 5 Drastics
6 Mercurials

.733 Anthelmintics

.734 Aids to digestion
1 Bitters, tonics 2 Ferments, pepsin, pancreatin, etc. 3 Acids, antacids

.735 Demulcents, emollients, etc.
Bismuth, oxalate of cerium, etc.

.74 Drugs acting on glandular system

.741 Sialagogos (Saliva)

.742 Cholagogos (Bile)

.743 Diaphoretics (Perspiration)
Pilocarpin, heat, exercise

.75 Antipyretics Antiperiodics
Quin, salicylates, coal-tar products, kairin, antipyrin, antifebrin, cold, baths. See also 613.41 Baths

.76 Drugs acting on genito-urinary system

.761 Diuretics
Water, citrates, acetates, digitalis, caffeine, copaiba

.766 Uterins Oxytocics
Viburnum, ergot, etc.
External agencies
- Irritating
- Astringents
- Rubefacients
- Epispastics
- Escharotics
- Protective
  - Emollient
  - Pats, oils, powders, starch, bismuth, oxid of zinc
- Deodorants
- Disinfectants
  - See 614.48 Disinfection; 614.61 Disinfection of dds
- Antiseptics
- Germicides
- Drugs acting on nervous system
  - See also 615.93 Neurotic poisons
- Anesthetics
  - Chloroform, ether
- Hypnotics
  - Choral, bromids
- Analgesics
  - Opium
- Mydriatics
  - Belladonna
- Excitants
  - Strychnin
- Depressants
  - Conium
- Other drugs
  - Camfor, valerian, asafetida
- Mineral waters
  - See also 613.38 Hygiene; 553.7 Occurrence in nature

Other remedies
- Mechanical remedies
  - Bloodletting
  - Venesection
  - Cupping
- Setons and issues
  - Bandages
  - Ligatures
- Acupuncture
- Pneumatic aspiration
- Manipulation
  - Exercize
    - See also Hygiene, Massage, Osteopathy, curative gymnastics
- Imponderable remedies
  - Light
    - Blue glass
  - Temperature: heat, cold
  - Moisture
  - Climate
    - See also 613.1 Hygiene
  - Altitude
    - Decrease of oxygen and increase of nitrogen with increasing elevation
  - Pneumatic differentiation
  - Music
- Electricity
  - Electrotherapeutics
  - Radiotherapy
    - See also 537.87 and 621.3915
Cures

615.85
.851 Mind cure Influence of mind on body
Mental condition, as affecting disease; occupation as remedy
See also 130 Mind and body

.852 Faith cure Christian science See 265.8 Religion
See also state control of medicin, 614.24; Christian science theology, 230.95; sects 280.5

.853 Hydrotherapy Water cure

.854 Food cures: grapes, milk, beef, etc.

.855 Thomsonianism Herb doctors

.856 Perkinism Metallic tractors

.9 Patent medicines

.88 Ancient and medieval remedies
Including those of modern uncivilized peoples

.9 Toxicology Poisons
For other relations see Poisons, in Relativ index following Tables

Irritant poisons

.91 Mineral irritants

.92 Acid poisons

.921 Alkalin poisons

.922 Nonmetallic poisons

.923 Phosphorus See also 615.218 Drugs

.924 Metallic poisons

.925 Arsenic See also 615.219 Drugs

.926 Mercury See also 615.258 Drugs

.927 Lead Painters colic See also 615.251 Drugs

.928 Copper See also 615.256 Drugs

.93 Vegetable irritants
Hellebore, aloes, croton oil, etc.

.94 Animal poisons
Cantharides, diseased meat, ptomains, tyrotoxicon, etc.

Neurotic poisons

.95 See also 615.78 Drugs acting on nervous system

.96 Cerebral or narcotic poisons Carbonic oxid and acid

.961 Opium

.962 Prussic acid

.963 Cyanids

.964 Alcohol

.965 Ether

.966 Chloroform

.967 Chloral hydrate

.97 Spinal poisons
Nux vomica, strychnia

.98 Cerebrospinal poisons
Aconite, belladonna, lobelia

.99 Cerebrocardiac poisons
Digitalis, tobacco
Pathology Diseases Treatment

May be subdivided by 0 like 610, if wisht. Use 616.01 for etiology, germ theory, bacteriology, classification of diseases. Use 616.07 for diagnosis, study of disease, and subdivide it as follows: 1 Pulse 2 Tung 3 Eye, skin, etc. 4 Auscultation, percussion 5 Thermometry 6 Chemistry, urine analysis 7 Microscopy, radioscopy, etc. 8 Pathologic anatomy 9 Postmortem examination

1 Diseases of circulatory system
11 Membranes of the heart
12 Hart Angina pectoris
13 Arteries
14 Veins
15 Blood

2 Diseases of respiratory system
201 Croup
202 Hay asthma, hay fever
203 Influenza, epidemic catarrh
204 Whooping cough See also 614.543
205 Coryza, catarrh
206 Asphyxia
21 Nose Naso-pharyngeal space
22 Larynx
23 Trachea Bronchi Bronchitis Asthma
24 Lungs
241 Pneumonia, lung fever
242 Congestion
243 Hemorrhage
244 Abscess
245 Gangrene
246 Phthisis, tuberculosis, consumption See also 614.542
247 Embolism and aneurism of pulmonary artery
248 Emphysema
249 Collapse
25 Pleura Pleurisy

3 Diseases of the digestiv system
For diseases of teeth see 617.6
31 Mouth: tung, fauces Sore throat, quinsy, mumps See also 614.544
32 Pharynx Esophagus
33 Stomach Gastritis, dyspepsia, vomiting
34 Intestins Hernia, diarrhea, constipation, colic
35 Rectum Anus Piles
36 Liver Gall bladder Jaundis
37 Pancreas
38 Peritoneum Omentum Mesentery Peritonitis
39 Dietetic diseases Surfeit, starvation, scurvy, dyspepsia
DECIMAL CLASSIFICATION

616.4 Diseases of lymphatic system and ductless glands
   .41 Spleen
   .42 Lymphatics: thoracic duct
   .43 Thymus
   .44 Thyroid body  Goiter, Graves disease
   .45 Suprarenal bodies

.5 Dermatology  Skin diseases
   .51 Inflammatory affections
      Diffuse, papular, scaly, nettle rash, hives
   .52 Catarrhal, vesicular, pustular  Eczema, shingles
      See also 614.561
   .53 Disorders of sebaceous glands
   .54 Hypertrofies  Atrofies
      Corns, warts, white hair, baldness
   .55 New formations  Pigmentary changes
      Albinism, freckles
   .56 Disorders of sweat glands
   .57 Parasitic diseases  See 616.96 Parasitic diseases
   .58 Other skin diseases
      Chilblain, frostbite, chaps

.6 Diseases of genito-urinary system
   For diseases of women, see 618
   .61 Kidneys  Ducts  Bright's disease
   .62 Bladder  Calculus
   .63 Urinary disorders  Diabetes
   .64 Male urethra
   .65 Prostate
   .66 Penis
   .67 Scrotum
   .68 Spermatic cord  Testes
   .69 Functional diseases of male generativ organs  Spermatoria, impotence

.7 Diseases of organs of locomotion
   .71 Bones (except spine)
   .72 Joints (except spine)
   .73 Spine  Curvature
   .74 Muscles
   .75 Tendons  Fasciae
   .76 Bursæ  Sheaths of tendons
   .77 Connective tissue

.8 Diseases of nervous system
   .81 Diseases relating to cerebrospinal circulation  Apoplexy
   .82 Diseases relating to cerebrospinal meninges
   .83 Structural diseases of brain and cord
MEDICIN: DISEASES

616.84 Functional diseases of brain and cord For insanity see 132.1
.841 Vertigo
.842 Paralysis
.843 Neurasthenia
.844 Spinal irritation
.845 Eclampsia, convulsions See also obstetrics, 618.75
.85 Neuroses
.851 Chorea, St Vitus dance
.852 Hysteria See 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria
.853 Epilepsy
.854 Tetanus, lockjaw
.855 Aphasia
.856 Anesthesia, hyperesthesia
.857 Megrim, sick headache
.86 Neuroses due to special poisons
.861 Alcoholism See also Dipsomania, 132.7
.862 Metallic tremor
.87 Diseases of nerves Neuralgia, cramp
.88 Diseases of sympathetic system

9 General diseases

9.1 Infectious diseases
9.11 Eruptive fevers
9.12 Small pox See also 614.471 and 614.521
9.13 Cowpox
9.14 Chickenpox See also 614.525
9.15 Measles See also 614.523
9.16 Rubella, rubeola, röteln See also 614.524
9.17 Scarlet fever, scarlatina See also 614.522
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9.21 Dengue, breakbone fever
9.22 Typhus See also 614.526
9.23 Plague
9.24 Relapsing fever, famin fever
9.25 Cerebrospinal fever
9.26 Simple continued fever
9.27 Enteric fever, typhoid fever See also 614.511
9.28 Yellow fever See also 614.475 and 614.541
9.3 Diphtheria Cholera Malarial fever
9.31 Diphtheria See also 614.512
9.32 Asiatic cholera See also 614.473 and 614.514
9.33 Sporadic cholera
9.34 Epidemic diarrhea See also 614.517
9.35 Dysentery See also 614.516
9.36 Malarial fever See also 614.53
616.94 Septic diseases
  .941 Phagedena
  .942 Erysipelas
  .943 Pyemia
  .944 Septicemia
  .95 Venereal diseases Hydrophobia, etc.
    .951 Syphilis See also 614.547
    .952 Gonorrhea See also 614.548
    .953 Hydrophobia See also 614.477 and 614.563
    .954 Glanders See also 614.564
    .955 Horsepox
    .956 Splenic fever
  .96 Parasitic diseases See also 614.55
    .961 Animal parasites
      See 591.69 Economic zoology; 614.92 Parasites of animals
      Entozoa
        .962 Trematoda, flukes
        .963 Cestoda, tapeworms
        .964 Nematoda Round worms, threldworms, trichinae
          See also 614.502
        .965 Acanthocephala, thornheded worms
        .966 Insecta parasitica Maggots
      .968 Ectozoa
        1 Insecta parasitica: mosquitoes, gnats, bedbugs, fleas, lice
        5 Arachnidia parasitica: mites, ticks
        8 Suctoria parasitica, leeches
    .969 Vegetable parasites See 581.69 Economic botany
  .97 Effects of poisons See 615.9 Toxicology
  .98 Effects of injuries and climate
    .981 Presence of foren bodies
    .982 Mechanical injuries
    .983 Excessiv exertion and strain
    .984 Excessiv venery
    .985 Privation
    .986 Exhaustion
    .987 Chemic agents
    .988 Climate
  .99 Other general diseases
    .991 Rheumatism, rheumatic fever Gout
    .992 Tumors
      .993 Nonmalignant: cysts, wens
      .994 Malignant: cancer
    .995 Tubercle
    .996 Scrofula Rickets
    .997 Myxedema Cretinism
    .998 Leprosy See also 614.546
Surgery

May be subdivided by o like 610, if wish

1 Injuries

11 Burns and scalds
12 Lightning and electric shock
13 Contusions and abrasions
14 Wounds
141 Incised
142 Contused
143 Lacerated
144 Punctured
145 Gunshot See 617.99 Military surgery
146 With lodgment of foren bodies
147 With complete separation of parts
148 Poison See 615.0 Toxicology

15 Fractures
16 Dislocations
17 Sprains
18 Asphyxia

2 Results of injuries

Constitutional effects and other complications. See also 616.94 Septic diseases

21 Shock
22 Inflammation
23 Abscess Sinus Fistula
24 Ulcers Sores
25 Mortification Gangrene
26 Traumatic fever
27 Tetanus See also 616.854

3 Orthopedic surgery Deformities

For convenience the whole subject of deformities is clast here, tho many of them have no surgical treatment. See also 573.8 Dwarfs and giants; 573.9 Monstrosities 611.012 Terafology; 613.91 Congenital defects

31 Incomplete development or growth

Divided like 611 Anatomy

32 Incomplete coalescence of parts: harelip
33 Coalescence of parts
34 Extension of commissure (Apparent duplication)
35 Coalescence of fetuses Siamese twins
36 Supernumerary parts or organs: extra fingers or toes
37 Disproportionate growth of parts
38 Transposition or displacement of parts
39 Congenital distortions, including talipes, club foot
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 .81  Affections of external ear
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 .12  Fallopian tube
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 .14  Uterus and cervix
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 .17  Functional and symptomatic disorders
     Diseases of menstruation  Leucorrhea  Sterility
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619 Comparativ medicin  Veterinary
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.2 Cattle
.3 Sheep, goats
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### .01 Statistics

### .02 Quantities and cost

### .03 Contracts and specifications

### .04 Designs and drawings

### .05 Executiv

### .06 Working and maintenance

### .07 Laws and regulations

### .08 Patents

### .09 Reports

### .I Applied mechanics Engineering materials

Class here general works on materials with reference to their fitness in engineering. See also 691 Blding materials

### .II Strength of materials General theory

General works considering various materials. For particular materials see 620.12–19. Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112. For theory or mechanics of structures see 624; for theories of construction of bldings see 690.1

### .III General

This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .II yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11
STEAM ENGINEERING

620.112 Tests Factors affecting strength

Kinds of tests. Directions for making various tests, laboratory manuals

See note to 620.11

1 General: influence of temperature, selection of test pieces, etc.

2 Corrosion Wethering Protection against deteriorating influences

3 Elastic limit tests: plasticity, fatigue, deformation
   See also 620.11246 Repeated stress

4 Tension, compression, torsion, flexure, shearing
   Class here combined tests as well as general works covering these tests
   If wish, subdivide farther as follows:

41 Tensile tests
42 Compression tests
43 Torsion
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
5 Impact Repeated shock tests

Crystallization and formation of cleavage planes

6 Hardness tests
7 Special tests
   Varying for different materials
8 Tests on special shapes and forms
82 Plates and structural shapes
   Bars, rods, angles, beams: T, bulb, I, and channel beams
83 Columns, bilt columns Tubes, pipes, cylinders
84 Rollers Spheres, solid or hollow Ball bearings
85 Springs
86 Hooks Chains Hoops Rings
87 Rivets Bolts Screws Nails
   Riveted joints of plates
88 Wire Wire rope Cables Hawsers
89 Other forms
9 Other tests

12 Tests of timber See note to 620.11
13 Stone Cement Concrete
132 Stone
135 Cement
136 Concrete
137 Reinforced concrete
139 Other: artificial stone
14 Brick, tile, etc.
   For glass see 666.1 Manufacture of glass, 691.6 Glass as a building material.
   In engineering it is an accessory material not requiring a place under strength tests
15 Masonry adhesives
   Cement, mortar, plaster of paris, etc. See also building materials 691.5
   Lime, plaster, cement
17 Iron and steel
18 Other metals
19 Other materials
195 Mineral: asbestos, mineral wool
196 Asphalt Tar
197 Vegetable: paper, hemp, etc.
198 Animal: hair, hide, bone, etc.
199 Other materials

2 Compends Handbooks Kent, Trautwine
3 Dictionaries, encyclopedias
4 Essays
5 Periodicals
6 Societies
7 Study and teaching Instruments
8 Tables and calculations
9 History of engineering
Mechanical engineering

May be subdivided like 620.0 and by form numbers

Steam engineering

Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18

Applied thermodynamics

Theory and use of steam in steam engine

General energy considerations

Steam economy

Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197

Mechanism of steam engine

Design of engine parts

General

Types of engines: structural

Reciprocating engines in general. Types specified below are all reciprocating, except 1. Primitiv and 9. Other

1. Primitiv

2. Single acting

3. Double acting

4. According to transmission of motion

5. Direct connected

6. Indirect: beam connected

7. According to position

8. Horizontal

9. Vertical

10. Oscillating

11. Inclined

12. According to terminal pressure

13. Condensing

In early period called 'low pressure'

14. Noncondensing

In early period called 'high pressure'

5. According to expansion

6. Single expansion

7. Compound

8. Double expansion: cross compound

9. " tandem "

10. " angle "

11. Triple expansion

12. Quadruple expansion

9. Other types

13. Steam turbines

14. Better class 621.165

15. Rotary engines

16. Better class 621.166

Marine engines

For propulsion see 623.8 Naval architecture

General

See also 621.11 and 621.18

Types of marine engines

1. Primitiv

Inventions of Papin, Perier, Fulton, Stevens, etc

2. Beam and side lever engines

3. Horizontal, inclined, vertical engines

4. Oscillating

5. Launch engines

6. Other special engines

Marine steam turbines

See also 621.165
STEAM ENGINEERING

621.13 Locomotives

.131 Theory of the locomotiv

1 Adhesion Tractiv force Horsepower

2 Tests

.132 Types

Variations, modifying tractiv force and speed, and affecting more than
1 class of mechanism. For variations in steam apparatus (oil burning
locomotives, etc.) see 621.133 and 621.134

1 Primitiv forms

2 Types according to distribution of wheelbase and load

Express by Whyte nomenclature for wheel combinations

5 Types according to purpose

6 Freight or goods engins Hog engin

63 Yard, switch or shunting engins

64 Passenger engins

67 Mountain "

68 Mining "

69 Other special locomotives

8 Peculiar types

Combined ‘engin and coach wagon’

9 Types in different countries

Subdivided like 940–999; e.g. English locomotives 621.1394

.133 Locomotiv boilers Production of steam

Better class in 621.1843, as boilers of locomotiv type serv many other
purposes. For boiler management see 621.193

1 Combustion Fuels Petroleum Fuel consumption

See also 621.1837

2 Grate and ashpit Firebox Stays

See also 621.1835

3 Shell and tubes

4 Smokebox and stack Spark arresters

See also 621.1838

5 Exhaust pipe

6 Dome

9 Miscellaneous fittings

Gage cocks, safety valves, whistles, pumps, injectors, etc.

.134 Engin of the locomotiv

1 Driving mechanism Cylinders, pistons, rods

2 Steam distribution Valves and valve gears

Special types of valves and valve gear

3

4 Compound principle

Distribution in compound locomotives

5 Lubrication of locomotiv

9 Other parts of locomotiv; throttle, etc.

.135 Running gear

.136 Tenders

1 Design, weight, brakes, etc.

2 Appliances

3 Taking water without stopping; track tanks; water scoops

.139 Miscellaneous parts

Cowcatcher or pilot, hedlight, whistle, bell, sandbox
Traction engines  Road locomotives

Selfpropelling engines for hauling over roads or ground, or doing other work by locomotion. For railway engines see 621.13. For stationary hauling engines see 621.162

Hauling may be accomplished either by engines applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engines (621.14) over ground or roads; or by engines applying their power indirectly thru cables, etc. and standing in a fixed position either temporarily (621.15) or permanently (621.16)

Theory  General

Boilers

Better class in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engines.

Types  Traction engines for special uses

Compressing machines  Steam rollers

Agricultural: plows, reapers, etc.

Portable engines

Engines that may be moved from place to place, but that remain in a fixed position when working. If selfpropelling, the selfpropulsion is incidental. For fire engines and other pumping engines see 621.64

Theory  General

Types, structural, etc.

Boilers

Better class in 621.18423. If used, limited to discussion of those suitable to portable engines.

Portable engines for special purposes

Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engines; 627.7 Dredges

Agricultural: threshers, etc.

Semistationary engines  Various types

Stationary engines

Engines fixed in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424

Theory and general

Types by use: hauling, dredging, etc.

For pumps see 621.64. For types class by engine mechanism see 621.164

Stationary boilers

Better class in 621.18424 with only reference here

Types according to characteristics of engine mechanism or steam distribution

When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engines 621.1644 rather than 621.1647. Each type may be subdivided like 621.11; e.g. vertical throttling engines 621.1642244

General

1  Throttling engines
2  Automatic shaft governor engines
3  Releasing gear (Corliss) engines  Drop cutoff
4  Single acting engines: Westinghouse or Willans type
5  Simple engines
6  Compound engines, triple expansion, etc.
STEAM ENGINEERING

621.165 Steam turbines

See also 621.123 Marine steam turbines

1 Theory
11 Methods of calculation
12 Vanes and buckets
13 Guide vanes and nozzles
14 Stresses in rotor or disc
15 Windage

2 Types
22 Velocity turbines
23 Pressure turbines
24 Combined velocity and pressure turbines

3 Construction Details of design
32 Vanes Buckets
33 Guide vanes Nozzles
34 Rotor Discs
35 Valves, governors, safety devices
36 Thrust balancing
37 Mass
38 Casing, etc.
39 Bearings, etc.

.166 Rotary engines

.169 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants
For steam heating see 697.5

.181 General

.182 Fuels Combustion

2 Fuels for boiler heating
3 For fuels in general and fuel analysis see 662.6
22 Solid fuels: coal, lignite, wood, sawdust, peat
23 Liquid fuels: tar, petroleum, alcohol
24 Gaseous fuels: gas from blast furnaces, coke ovens; natural gas
25 Composite fuels: city refuse, coal dust, trash

3 Fuel consumption
4 Practical experiments with a single fuel

Comparative consumption
4 Practical experiments with various fuels

.183 Furnace Draft

1 General
2 Heating and grate surfaces

Types of furnaces

5 Furnace parts and construction details
52 Grates
53 Stationary grates
54 Shaking, dumping and step grates
55 Ashpits Furnace doors
56 Burners for liquid fuel

6 Mechanical stokers
62 With traveling grate
63 " rocking"
64 " step grate (Roney grate)
65 " plunger
66 " screw

7 Other appliances
77 Pulverized fuel appliances
78 Fuel and ash conveyors Ash removers
See also 621.86 Hoisting and conveying machinery

8 Chimneys Stacks Draft appliances

Smoke consumers. For smoke prevention see 621.1941 Firing
81 Natural draft Dampers Uptakes
82 Induced draft
83 Forced draft
Boilers
For boiler plants see 621.19

General

Types
Marine
Locomotiv, traction, portable
Stationary
Firetube boilers (tubular)
Internally fired
Externally fired
Water tube boilers (tubulous)
Flash generators
Instantaneous vaporizing boilers

Boiler construction
Setting
Parts
Shell
Heds
Tubesheets
Domes
Drums

Riveted joints, staying and bracing

Tubes
Ferules
Rings

Casing

Inspection and cleaning parts: man and hand holes, cleanouts, covers

Setting and hanging

Foundations: masonry, flues, etc.

Boiler accessories
Water gages, floats, gage glasses, warning whistles
Pressure gages, manometers, safety valves

Other: air cocks and blowout valves, zinks, steam collectors

Steam transmission and distribution
Piping

General; laws of flow, condensation, friction
Connections; mains, auxiliary piping
Valves
Stop, safety, reducing
Pressure regulators

Drains and traps
Receivers and distributing valves

Covering
Insulators

Nonconductors for high, low and medium temperatures

Joints and cements
Expansion joints

Utilization of exhaust steam
See also 697.5 Steam heating

Steam boiler and power plants
Central stations
See also building, 697.5 Steam heating; and Boiler, Boilers in Relativ index

General

Arrangement and housing of apparatus
Provision for enlargement

Care and management of steam apparatus

Boilers
Firing
Feeding
Put here general discussion of feeding and feedwater appliances,
For separate description of appliances see 621.197

Treatment of feed water: purification, softening

Scale prevention
Incrustation

Inspection
Tests
Rating

Engins: oiling, packing, adjusting

Duration
Wear

Corrosion

Steam plant accessories
Economic appurtenances

Feedwater appliances
Tanks, heaters, economizers, filters, purifiers, regulators

Pumps
Injectors
Return traps

Separators

Superheaters

Condensers and cooling towers
Surface condensers
Jet condensers
Cooling towers
Condenser accessories

Instruments
Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.
Hydraulic engines or motors

Industrial use of water as motiv power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors.

For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532.

Water wheels

Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts.

Overshot or bucket wheels, Brest wheels

Overshot wheels of low velocity

Overshot wheels of high velocity

Brest wheels, Fairbairn wheels

Sluice gate or Sagebien wheels

Undershoot or impulsion wheels and floating wheels

Ordinary undershot wheels

Wheels with curved vanes or buckets, Pelton wheel

Vertical impulse wheels

Current suspension wheels

Floating wheels

Turbins

See also 621.165 Steam turbines

General: parts (e.g. distributors, buckets, guide vanes) regulators

Reaction or pressure turbines

Outward flow

Early forms: Barker’s mill

Inward flow

Downward flow

Impulse or Girard turbines

Water pressure engines, Accumulators

Hydraulic pumps

Piping for high pressure

Accumulators

Hydraulic machinery and appliances

For theory see 532.81

Funicular engines, Hydraulic tackle

Hoists, Elevators, Cranes

Class preferably in 621.86; i.e. purpose outweighs motiv power

Special handling and lifting machinery for steel works, etc.

Presses, Forging and stamping machines

Accessories: injection pumps

Mining, tunneling and other hydraulic appliances

Hydraulic giant, Brandt’s hydraulic gun

Hydraulic rams

For theory see physics 532.83

Lifting rams, Montgolfier ram, Bolle ram, etc.

Pumping rams, Leblanc ram

See also 621.64 Pumps

Compressing rams, Sommelier ram

Flood gates, Dams, Mill sluices, Hed and tail races

Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering.
Electric engineering

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications; 004 Designs and drawings; 005 Executiv; 006 Working and maintenance; 007 Laws and regulations; 008 Patents; 009 Reports

May also be subdivided for form with 0 like 620.1-9

**SUMMARY**

621.31-.37 Heavy current engineering

.31 Generation of electricity
.311 General
.312 Central stations
.313 Dynamoelectric machinery
.314 Stationary induction apparatus
.315 Electrostatic apparatus
.316 Accessories and parts
.317 Control and central station wiring
.319 Transmission
.32 Electric lighting
.33 Electric traction
.35 Voltaic cells and batteries
.36
.37 Electric measurements and testing
.38 Weak current engineering
.383 Telegraphy
.384 Wireless communication
.385 Telephony
.39 Other applications of electricity

621.31-.37 Heavy current engineering

.31 Generation of electricity

Transformers

Transmission

General

.311 Central stations: metropolitan, rural

Divided by 001-009 like 621.3 with the following additions to 006:

006 Working and maintenance
4 Operation and running
5 Regulation and control
8 Testing
9 Repairs and renewal

Administratively point of view; a specific repair belongs with the part repaired

1 General central stations

Combined power, traction, light, etc. stations

132 Steam driven

133 Gas

134 Hydraulic

135 Composit

2 Stations for lighting only

Divided by source of power like 621.31213

3 Stations for traction only

Divided like 621.31213

5 Storage battery pressure regulating equipment

6 Substations

63 Transformer substations
64 Converter
65 Accumulator
Dynamoelectric machinery

1 General; construction, installation
2 Direct or continuous current machinery
21 Theory
22 General types
23 Continuous-current generators
231 Series wound
232 Shunt wound
233 Compound wound
24 Continuous current motors
241 Subdivided like 621.31323 above
242 Constant speed motors
243 Multispeed motors
244 Adjustable speed motors
245 Varying " " (railway motors)
25 Continuous-current converters
26 Dynamotors and motordynamos
27 Compensators or balancers
28 Continuous-current boosters
29 Other
291 Acyclic or homopolar machines

Alternating-current machinery

3 General types of alternating current machinery
321 Single phase machinery
322 " " "
323 " " "
324 Other polyphase machinery
4 Synchronous machinery
41 Theory
42 General types
43 Alternating-current converters
44 Synchronous motors
5 Alternating-current converters
51 Theory
52 General types Description
53 Synchronous converters
54 Phase converters
55 Frequency converters
56 Double-current generator.
57 Motor converters
6 Asynchronous machines
61 Theory
62 Induction generators
63 " " motors
64 Series alternating-current motors
65 Repulsion motors
66 Frequency converters
67 Phase converters
7 Rectifying apparatus
72 Mechanical rectifiers
73 Arc
74 Electrolytic "
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<td>Constant-potential transformers</td>
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<td>Phase-changing transformers</td>
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<td>Potential regulators</td>
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<td>Compensator potential regulators</td>
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<td>Magneto</td>
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<td>Electrostatic apparatus: condensers</td>
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<td>Details of electric machinery</td>
<td>Parts</td>
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<td>Control devices and switchboards</td>
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<tr>
<td>General</td>
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<tr>
<td>Panels</td>
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<td>Generator panels</td>
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<td>Feeder</td>
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<td>Transformer</td>
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<tr>
<td>Converter</td>
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<td>Lighting</td>
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<td>Accumulator</td>
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<td>Switches</td>
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<td>General</td>
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<td>Dial</td>
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<td>Plug</td>
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<td>Oil</td>
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<td>Circuit breakers</td>
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<td>Rheostats and control devices</td>
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<td>Signal devices</td>
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<td>Barriers and compartments</td>
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<tr>
<td>Station protective devices (fuzes, lightning arresters, etc.)</td>
<td></td>
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<tr>
<td>Manufacturing processes</td>
<td></td>
<td></td>
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<tr>
<td>Processes peculiar to electric machinery and apparatus: e.g. insulating, varnishing, baking, armature stamps and dies</td>
<td></td>
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</tr>
</tbody>
</table>
Transmission of electric energy

Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621.332

1 General

2 Systems

1 Direct or continuous current systems
   Including 2 wire systems
2 3 wire (or Edison) and other
3 Other direct current systems

3 Alternating current systems

4 Single phase systems

5 2 phase (or quarter phase) systems
   3 wire system
   4 " "
6 3 phase systems
   2 Delta or mesh connections
   3 Star or Y connections

7 Other polyphase systems

8 Composit systems
   Direct and alternating current combined

2 Lines and conductors

For local wiring see specific application; e.g. electric light wiring 621.328

1 General

2 Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light see 621.328, for telegraf see 621.382, for telefones see 621.385-7

3 Overhead or aerial lines

4 Systems

5 Poles: foundations, guys. etc.

6 Cross arms Pins

7 Towers

8 Underground lines

9 Systems

10 Conduits

11 Manholes

Cables and conductors Insulating materials

Uninsulated conductors Bare wire

Insulated Wire and cable

Cables

Insulating materials

Leakage Influence of chemic composition

1 Insulators

2 Protectiv devices

3 Line lightning arresters

For protection of central stations see 621.3178
621.32 Electric lighting Illumination

Class here works limited to electric lighting, but more general than any of the subheads below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319, for measuring see 621.37. For theory of electric light see 537.83 Electric lighting

### 621.321 General

#### 621.325 Arc lighting

Including systems and lamps

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General: efficiency, cost, etc.</td>
</tr>
<tr>
<td>2</td>
<td>Constant-current or series systems</td>
</tr>
<tr>
<td>3</td>
<td>Constant potential or parallel systems</td>
</tr>
</tbody>
</table>

#### 4-5 Arc lighting according to Type of arc

- If emphasis is on form of current, class under 621.3255

<table>
<thead>
<tr>
<th>Type</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td></td>
</tr>
<tr>
<td>Alternating</td>
<td></td>
</tr>
</tbody>
</table>

#### 5 Form of current

- If emphasis is on type of arc, class in 621.3254

<table>
<thead>
<tr>
<th>Form</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td></td>
</tr>
<tr>
<td>Alternating</td>
<td></td>
</tr>
</tbody>
</table>

#### 6 Composit electrode arcs

Flaming arcs. Carbide, Bremer magnetite, titanium oxid arcs

#### 7 Details Accessories

Arc light carbons

#### 8 Applications

For welding see physics 537.85, and metallurgy 669 therapeutic applications see 615.84 and 621.3915

#### 621.326 Incandescent lighting

Including lamps and systems

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General: efficiency, cost, etc.</td>
</tr>
<tr>
<td>2</td>
<td>Systems (Edison 3 wire system)</td>
</tr>
<tr>
<td>3</td>
<td>Carbon filament lamps</td>
</tr>
<tr>
<td>31</td>
<td>Metalized filaments</td>
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<tr>
<td>32</td>
<td>Other carbon filaments</td>
</tr>
<tr>
<td>4</td>
<td>Metal filament lamps</td>
</tr>
<tr>
<td>41</td>
<td>Platinum filaments</td>
</tr>
<tr>
<td>42</td>
<td>Tantalum</td>
</tr>
<tr>
<td>43</td>
<td>Tungsten</td>
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<tr>
<td>44</td>
<td>Osmium</td>
</tr>
<tr>
<td>45</td>
<td>Other metal filaments</td>
</tr>
<tr>
<td>5</td>
<td>Glowers of other materials</td>
</tr>
<tr>
<td>53</td>
<td>Nernst lamps</td>
</tr>
</tbody>
</table>

DECIMAL CLASSIFICATION
Incandescent vapor lighting and lamps

Vacuum or incandescent vapor lamps
Mercury vapor lamps
For mercury rectifiers see 621.3137
Carbon vapor lamps
Moore lamp
Vacuum lamps for special radiations: Crookes tubes, etc.

Apparatus at servis end of line
Underwriters requirements
National electric code
House wiring
Panels
Fuzes
Insulators, etc.
Meters
See also 621.37 Electric measurements and testing
Switches
Other apparatus

Electric traction
See 635 for construction of route; 656 for business management maintenance; 654 for communication and signals; 699 for car building; 735 3 for architecture of stations, terminals, carsheds, shops, round houses, etc.
This number is concerned properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

General
Systems
Systems according to current
Direct current
Alternating current
Single-phase
2 phase
3 phase
Others
Systems according to delivery of power
Trolley systems
Overhead trolley
Underground trolley
Third rail systems
Unprotected third rail
Protected
The line (including track)
General
Interaction of parallel lines, heat losses, etc., are better class in 621.3192
Feeders and return systems
Overhead wire
Trolley lines
Catenary suspension
Trackless trolley
Third rail
Underground conductor or contact
Accessories
Other types of line
Track
General
Deteriorating influences
Electrolysis Leakage
Rails
Bonding
Rolling stock
For nonelectric rolling stock see 656 for administration, 699 for construction.

Motor tramcars

Accessories and parts
Control systems
Motor, controller, current collecting devices, etc. Multiple unit control.

Locomotives and car wiring

Running gear and other nonelectric details.

Chemic electricity
Voltaic cells and generators
Primary and secondary

General
E.m.f, counter e.m.f, polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues.

Parts and accessories of cells and accumulators
Containers: jars, trofs, vats, etc.

Electrodes and their accessories: positiv and negativ plates or elements.

Grids, supporting frames, insulating rods, etc.

Diaphragms and partitions

Electrolytes
Depolarizers
Packing

Circulators
Condits and piping

Connections
Terminals
Binding posts

Regulating apparatus

Other apparatus

Primary cells
See also 537.5 Voltaic electricity; 541.37 Electrochemistry

General

Single fluid

Double " Heavy current cells

Open circuit or nondepolarized

Closed circuit or depolarized

Accessories and parts

Classification according to use or operating methods

Accumulators or storage batteries
Secondary cells and batteries

General

Care and handling of accumulators

Accessories and parts

Led accumulators

General

Care and handling

Naturally formd: Planté type

Artificially formd: Faure type

Combined Planté-Faure types

Other led accumulators

Complex oxid types

Led element accumulators

Copper led "

Zinc "

Cadmium "

Alkaline accumulators

Other types of accumulators

Thallium, gas, etc.

Other classifications of accumulators
According to use or operation

Other topics pertaining to chemic generation of electricity

Vacant for future use; perhaps for direct transformation of heat or fuel energy
Electric measurements, meters and testing

General
Tariffs may be classed here, the better put in 654

Standards Calibration of instruments

Meters General types
Recording meters. See also special meters, 621.374
Prepayment meters. See also special meters, e.g. 621.3745 Watt hour

Special meters and measurements
2 Resistance meters: inductance, capacity
Wheatstone bridges, ohmmeters, resistance boxes
3 Potential meters: voltage
Voltmeters, electrometers, standard cells
4 Intensity meters: current
Galvanometers, ammeters, coulometers, Ampère-hour meters
5 Quantity or work meters Watt-hour meters
6 Power meters Watt meters
7 Frequency meters Oscillographs
9 Other meters and measurements
91 Phase meters Power-factor meters Synchronizers

Other electric measuring instruments
For other than electric measurements; e.g. electric thermometers

Weak current engineering

Electric communication: telegraphy, telephony, wireless
Libraries have too much material classed in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries who prefer it, the detailed technical classification is developed here.
For overhead or underground lines see 621.3142

Telegraphy Systems
When systems and instruments conflict, classify according to systems.
For business administration, see 654; for wireless see 621.384

Codes
152 Morse
153 Continental
154 Phillips (press code)
2 A B C, dial, needle telegraf, etc.
21 Early experimental forms
22 A B C
23 Dial
24 Needle
25 Pointer
29 Other

Hand operated code telegraphy
31 Simplex
311 Open circuit
312 Closed circuit
32 Duplex
321 Differential duplex systems
322 Stearns duplex
323 Polar duplex
325 Bridge duplex systems
Quadruplex
Multiplex
Synchronous multiplex: Delany
Harmonic — Gray
Automatic code telegraphy High speed systems
Electrochemical automatic: Bain, Morse
Ink recording or embossing
Wheatstone
Pollak-Virag
Telepost (Delany)

Printing telegraph
Tape printing: stock tickets
Other tape printing: Hughes
Page printing: Buckingham, Murray, Baudot
Multiple page printing: Rowland

Writing telegraphy
Transmitting and recording characters while being written; Gray’s telautograph

Facsimile telegraphy
Sometimes called fototelegraphy

Submarine cable telegraphy

Other wire systems
Induction telegraphy: from moving trains, etc.
Combined telegraphy and telephony Fantom circuits

Telegraph instruments
Transmitting: keys, senders, etc.
Intermediate and accessory: relays, repeaters, switches
Relays
Differential relays
Polarized “
Repeaters, for simplex; Milliken, Ghegan, Toye, etc.
“ duplex or quadruplex
‘Half’ repeaters
Switches and distributing apparatus
Protective apparatus
Miscellaneous telegraph accessories

Receiving instruments
Sounders, recorders, etc. Subdivided, if wished, like 621.3824-8

Wireless electric communication: telegraphy, telephony

General
Wireless telegraphy Systems
Spark telegraphy; by free oscillations
Continuous-train telegraphy; by forced oscillations
Instruments
Sending apparatus
Antennae, aerials, and their substitutes
Receiving instruments and apparatus
Applications, adaptations, specific installations
Wireless telephony systems
Apparatus
Sending apparatus
Aerials, etc.
Receiving apparatus
Applications, adaptations, specific installations
Vacant for possible development of visual transmission by wireless
Telefony Systems
See also 621.3845 Wireless telefony

1 General

2 Party line
   When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails

22 Series

23 Bridging

24 Selectiv

3 Intercommunicating systems
   Without central switchboard

32 Common return systems; selectiv at each station

34 Radial common return systems; selectiv at one station only

36 2-wire systems; separate returns

4 Central switchboard systems
   Manual; for automatic see 621.3857

42 Local battery or magneto systems

46 Common battery or central energy systems

5 Multiple switchboard systems

6 Trunking Transfer systems

61 Trunking

63 Transfer system

7 Semiautomatic and automatic systems

72 Semiautomatic

75 Automatic

76 Strowger system (Automatic Electric Co)

8 Private exchanges

.386 Telefone instruments
   Terminal; subscriber's instruments

2 Transmitters

3 Receivers

4 Induction coils

5 Condensers

6 Hook or other switches

7 Call receiving apparatus

8 Call sending

9 Miscellaneous accessories

92 Coin collecting devices

94 Protective devices

96 Current supply (local batteries)

.387 Central switchboards and other station equipment

1 General

2 Switchboards, manual

22 Local battery or magneto

26 Common battery

3 Multiple switchboards

35 Divided multiple

4 Trunks. Transfer boards

41 Trunks and trunking

43 A boards

45 B boards

47 Multiple plug transfer

5 Switchboard parts and accessories
Power plant equipment and accessories

Accumulators

Charging generators

Ringing

Automatic and semiautomatic switchboards

Including accessories. Subdivided like 621.3857

Telephone transmission

For transmission common to other branches of electricity see 621.319

Put here only that peculiar to telefony

Long distance

Transposition

Telephone cable construction

Loading

Pupin coils

Other central station accessories

Distributing frames and racks; main

Protective devices

See also 621.3178 and 621.31982

Meters and counters

See also 621.3286 Electric light meters

Vacant for visual transmission by wire

Other electric communication

Other applications of electricity

Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to medicine 621.3915. This place is provided for specialists who prefer to mass all their material under 621.3. Libraries should class rather by purpose of the application; e.g. books on electric heating will be more useful in a general library under 697.7 with the question of heating than in 621.3997 with a general assortment of unrelated applications. References here show a library's resources on special applications

Air and gas engines, etc.

Hot air engines

Compressed or rarefied air or gas engines

Internal combustion engines

General theory of internal combustion engines

Cycles and systems of operation

4-cycle systems Otto cycle

2-cycle systems

Other and modified systems

Gas turbines

Internal combustion engines class by fuels

Engins for gaseous fuels

Engins for natural gas

" illuminating gas

" blast furnace gas

" producer gas. For gas producers see 665.8

Engins for acetylene gas

Engins for liquid fuels

Engins for gasoline

" kerosene

" other petroleum oils

" alcohol

Engins for solid fuels
ENGINEERING

621.436 Special engines or motors
Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alphabetically by name of machine

.437 Parts and accessories of internal combustion engines

.438 Special applications
3 Selfpropelled machinery
Engins for farm machinery, fire engins, roadrollers, etc. See also special machines

4 Selfpropelled vehicles
Class here only adaptation and application of internal combustion engins to motor vehicles. See also 629.4 for motor vehicles

5 Motors for small boats
6 " " large vessels
7 Airship motors
For airships see 629.15

.44 Binary vapor engins
.45 Windmills
.46 Animal motors Tredmills
.47 Solar engins
.49 Power plants and central stations

.5 Pneumatic machinery Mechanical refrigeration

.51 Air compressors
.515 Dry air compressors
.517 Wet " "

.52 Comprest air transmission and distribution
.532 Details of transmission Piping, mains, gages, etc. Designs of transmission

.54 Applications for comprest air
For pneumatic hoists, etc. see 621.86

.541 Comprest air motors

.542 Pneumatic tools: drills, hammers, etc.
See also 821.9 Machine tools

.543 Special applications in railway servis
.545 Comprest air locomotives
.546 Pumping by comprest air
.549 Other applications
Pneumatic cleaning, sandblasts, tubes

.55 Rarefied air and vacuum appliances
Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting

.56 Refrigeration
For cold storage see 664.8

.564 Refrigerating fluids
.565 Refrigerating systems and plants
1 Brine system
2 Direct expansion system

.566 Design Calculation of piping, refrigerating surface, etc.
621.57 Refrigerating machines
   .572 Ammonia compression machines
   .573 Ammonia absorption
   .574 Carbonic acid machines
   .575 Air machines, vacuum machines, etc.
   .579 Other
   .58 Icemaking
   .581 Can system
   .582 Plate system
   .6 **Blowing and pumping engines**
   .61 Piston blowers          Blast furnace blowing engines, etc.
   .62 Rotary blowers
   .63 Centrifugal blowers
      Including fans: exhaust and plenum
   .64 Power pumps and pumping engines
      Regardless of motive power
   .641 General theory • Design and construction
   .642 Tests of pumps and pumping engines
   .65 Direct acting pumps
   .652 Piston pumps
   .654 Plunger "
   .66 Rotary pumps
   .67 Centrifugal pumps
   .68 Fire engines
   .69 Other blowing and pumping devices
      Steam jets, ejectors, etc.
621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offices, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also 651. Offices methods and equipment 657 Accounting, costkeeping, estimates 658 Business methods 659 Advertising, etc. 670 Manufactures: articles, and methods and machines for making them

725.4 Architecture of factories

In 621.7 is considered the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep all his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g., a library would class material on spindles and looms in 670, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, the classification under the regular number will usually prove more satisfactory in all cases

.701 Location
With reference to supply of raw material, market for finished product, shipping facilities, relative cost of freight on material or product; e.g., the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

.704 Organization and administration
Managers and engineers, professional staff; artisans and laborers regarded as machine accessories; hours and shifts considered solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force, see 651

.705 Mechanics and laborers

.71 Drafting room
.711 General
.712 Arrangement
.713 Equipment
.714 Materials and supplies
.715 Methods and processes
.719 Other

.72 Woodworking shop Pattern shop
May be subdivided like 621.71

.73 Forge shop
May be subdivided like 621.71

.74 Foundry
May be subdivided like 621.71

.75 Machine shop
May be subdivided like 621.71

.76 Blast furnace
May be subdivided like 621.71

.77 Rolling and drawing mills
May be subdivided like 621.71

.78
621.79 Other shops and departments
.792 Boiler and sheet metal shops
  Stamping and punching May be subdivided like 621.71
.794 Special process shops
  Galvanizing, plating, etc. May be subdivided like 621.71
.795 Finishing shop
  Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71
.796 Storehouses
  2 Materials and supplies
  4 Explosives
  6 Products Shipping department
.798 Department turning out main product
  Processes and machines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leave vacant May be subdivided like 621.71
.799 Other minor shops and departments

.8 Principles of mechanism Power transmission

Hoisting and conveying machinery
.81 General Principles of mechanism Machine design
.82 Journals, shafting, etc.
.821 Journals
.822 Bearings: ball, roller, etc. Hangers Bearing metals
.823 Shafting
.8235 Flexible shafting
.825 Couplings and clutches Universal joints
  Friction clutches
.826 Shaft brakes
.83 Tooth gears and cams
.831 General: theory, forms of teeth, tooth curvs
.832 Efficiency of gears Tests Friction of gears
.833 Design of gears
  1 Spur gears
  2 Bevel and skew bevel gears
  3 Worm and spiral gears
  Screws for transmitting motion, endless screws
.834 Construction: gear cutting and casting
.835 Chain gearing
.837 Ratchet gearing: pawls, dogs
.838 Cams
.82 Valv motions and gears
  General, trade catalogs; for special valvs see subject
.846 Valvs and cocks
.85 Machinery and mill gearing
  Class here transmission by flexible connections
.852 Belt connection
.853 Hemp rope transmission
.854 Wire rope
.856 Pulleys Sheaves
.858 Friction gearing
Hoisting and conveying machinery

For dredges see hydraulic engineering. 627.7 Dredging, dredging machinery. See also 621.26 Hydraulic machinery. 621.1873 Fan and ash conveyers

.861 Hoists: blocks and tackle

.862 Mechanical tackle Chain blocks

.864 Chain blocks

.865 Winches Capstans Windlasses

.867 Power shovels

Conveyers Telferage

Belt or bucket conveyers

Belt: moving sidewalks

Bucket: escalators, moving stairs

Other conveyers: cash carriers, etc.

.868 Telfers

Selfpropelling

.869 Other: jacks, etc.

Cranes and elevators

.87 Derricks

.873 Revolving cranes

621.873-5 may be subdivided like 621.8771-5 by kind of power if wished; e.g. 3 Steam 4 Hydraulic 5 Electric

Traveling cranes

Locomotiv cranes

Elevators

Handpower

Belt driven

Steam, gasoline

Hydraulic

Electric

For special purposes

Passenger elevators

Freight

For mines see 622.17-.68

Dum waiters Book lifts

Lifts for small objects

Apparatus

Car and guides

Power transmitting devices

Counterbalancing weights and guides

Control devices

Safety

Accessories
621.88 Fastenings
.882 Screws and bolts Systems of screw threads
   For screws for transmitting motion see 621.833
.883 Keys and cotters
.884 Rivets Design of riveted joints
.89 Friction Lubrication Lubricants

.9 Machine tools
   Manipulation Discussion and catalogs of different kinds and makes of
   metalworking tools. For manufacture of various tools, see 672. For wood-
   working tools, see 674 Wood manufactures; also 684 Cabinet making, 694
   Carpentry, 736 Wood carving
   .91 Planing and milling machines
   .912 Metal planers, shapers, and slotters
   .92 Grinding and filing Abrasives
   .922 Cylinder and surface grinding machines
      Lapping machines
   .923 Emery wheels
   .924 Filing machines
   .93 Cutting and sawing
   .932 Metal sawing and cutting machinery
   .94 Turning
   .941 Metal turning lathes
   .942 Pipethreading machines
   .945 Boring mills
   .95 Perforating machinery
   .951 Drilling machinery Drills
   .953 Reamers
   .955 Tapping machines
   .96 Punching and shearing machinery
   .97 Hammers Riveting tools
   .98 Bending, straightening, and shaping
   .981 Bending machinery
   .983 Straightening machinery
   .984 Flanging and die press machinery

622 Mining engineering. See also 338.2 Mining products; 332.41 Coinage metals
May be subdivided like 620 and 620.0; e.g. Societies, 622.06; Reports, 622.03

.1 Exploration and Prospecting
.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19

.18 Mining Prospectuses. See 551

.2 Practical Mining.
.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.50

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and 4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.
622.4 Ventilation and lighting of mines

.41 Theory Gases met with, etc.
.42 Natural ventilation
.43 Furnaces Steam jets, etc.
.44 Fans See 621.62
.45 Airways Stoppings Regulators
.46 Measurement of ventilation
.47 Lighting Safety lamps, etc.

5 Drainage

.51 Theory of infiltration of water
.52 Natural drainage
.53 Cornish pumps See 621.6
.54 Steam pumps See 621.64
.55 Hoisting of water
.56 Dams and watertight linings See also 622.28, Timbering
.57 Acid waters

6 Extraction Hoisting and transportation

.61 Handling mineral in working place
.62 Underground roads
.63 Mine cars Trams, etc.
.64 Gravity roads and planes
.65 Tramming and animal haulage See 625.7
.66 Mechanical haulage
.67 Hoisting engines Drums Ropes Whims
.68 Cages Skips Buckets
.69 Surface transportation

Including mineral roads, wire ropeways, transhipment, loading and unloading, etc.

7 Mechanical preparation Ore dressing

.71 Theory Preliminary operations
.72 Hand dressing
.73 Crushing Stamping engines
.74 Screening
.75 Jigging Ore concentrators
.76 Slime treatment
.77 Magnetic separation
.78 Coal washing
.79 Dressing works

8 Dangers and accidents See also 613.6 Hygiene; 331.82 Laboring classes

.81 Explosions of firedamp
.82 Mine fires
.83 Crushing and fall of ground
.84 Flooding of mines
.85 Accidents to miners
.86 Rescue and relief

87
88
89
Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.2 Siege operations: mines, etc.
.3 Defensiv operations
.4 Ordnance and projectiles
.5 Gunnery
.6 Military roads and bridges
.7 Military signals: telegraf, ballooning, etc.
.8 Naval architecture
.9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent

.11 Principles of fortification
.111 Profiles
.112 Plans
.113
.114 Defilading
.115
.116 Details: bastions, curtains, glacis, etc.
.117 Accessory defenses

Flanking defenses; outworks, palisades: moats, obstacles etc.

.12 Construction of permanent fortifications

.122 Earthwork
.123 Masonry: concrete
.124 Armor
.13 Systems of forts

.131 Central fort
.132 Citadel
.133 Fortified positions
.134 Barrier forts

.15 Temporary fortifications Field works

.19 Special forts

Divided like 930–999; e.g. history of the fortress of Gibraltar 623.19468

.2 Siege operations Mines

Class here only engineering operations. For conduct of sieges, see 355.44

.21 Siege works

Investment, establishing camps

.22 Circumvallation and countervallation

.23 Establishing parallels and advancing batteries

.24 Zigzags Saps

Trenching, blindage, gabionades

.25 Breaching batteries Breaches

For assaults see 355.44

.26 Land mines and torpedoes

See also 623.9 Submarine torpedoes

.27 Other means of demolition

Firing and exploding devices
Defensive operations
For maneuvers see 355.44

Defense of trenches

" breaches

Countermines

Firearms, ordnance and projectiles
Arsenals
Including ammunition in general and fireworks. For manufacture of explosives see 662. For general history of war customs and weapons, and of ancient engines of war see 399. Class here weapons for gunpowder and similar explosives.

Artillery material
Clast according to use

Field artillery material

Mountain " "

Landing " "

Siege " "

Fortress " "

Including large guns (fortress, coast and naval) considered together

Coast artillery material

Naval " "

Guns according to form and construction
See also 623.5 Gunnery; 623.47 Gunmaking

Early forms: bombards, culverins, etc.
For blunderbuses and other early forms of small arms see 623.441

Guns proper or long cannon

Short cannon or howitzers (shell guns)

Mortars

Guns made in a single piece

Bilt up guns

Hoopt guns

Jacketed guns

Hoopt and jacketed guns

Wirewound guns

Guns according to mode of loading and operating

Muzzleloading guns

Breechloading "

Rapidfire guns

Machine "

Multiple tube guns

Gating guns, Hotchkiss revolving cannon

Single tube guns

Automatic and semiautomatic guns

Hotchkiss, Maxim, Colt

Form and interior arrangement of guns

General plan

Outside form

Hooping

Jacketing

Bore

Rifling

Chamber
Breech and firing mechanisms

1. Breech closing apparatus
   - Block
   - Wedge
   - Screw

2. Firing apparatus
   - Vent
   - Vent bushing
   - Firing pin

3. Safety apparatus: gas checks, etc.

Sighting attachments

- For detachable apparatus, see 623.452
- Backsight, sliding notch, eyehole, etc.
- Sight
- Foresight

Mounts and carriages

- Including their parts and accessories

Field and mountain mounts and carriages

1. Field mounts
2. Mountain mounts
3. Machine gun mounts
4. Caissons and limbers
5. Ammunition chests
6. Battery carriages (i.e. tenders)

Siege mounts and carriages

1. Siege gun mounts
2. Howitzer mounts
3. Mortar mounts
4. Siege carriages (i.e. tenders)

Fortress, coast and naval mounts

- For accessories see 623.435

肽. Casemate mounts
   - Pedestal and pivot mounts
2. Barbet mounts
3. Disappearing mounts
4. Turret mounts

Naval mounts

- For discussion limited to naval use

Mechanism of mounts

- Platforms, circular pintle block and pivots
1. Checks and transoms
2. Chassis and crosshead slides
3. Mechanism for maneuvering and going into battery: wheels, trucks, rollers
4. Sighting apparatus
5. Recoil checking mechanism
   - Breeching
   - Vent plug
6. Recoil mechanism
   - Brakes
   - Automatic friction recoil checks
   - Screw brakes
   - Hydraulic brakes
   - Pneumatic
65. Trail spades
7. Reactionary mechanism
   - Devices for restoring guns to firing position after recoil
71. Spring recuperators
72. Pneumatic recuperators
<table>
<thead>
<tr>
<th>DECIMAL CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>623.436 Maneuvering appliances</td>
</tr>
<tr>
<td>1 Levers, handspikes, roller handspikes</td>
</tr>
<tr>
<td>2 Breeching tackle</td>
</tr>
<tr>
<td>3 Shot barrows, shell barrows</td>
</tr>
<tr>
<td>4 Projectile hoists</td>
</tr>
<tr>
<td>See also 621.86 Hoisting and conveying machinery</td>
</tr>
</tbody>
</table>

**0.44 Small arms**

Mechanism and military efficiency
For small arms practis see 355.5
" manufacture of small arms see 683
" weapons prior to firearms see 399

**0.441 Primitiv forms of firearms**
Blunderbus, harquebus, etc.

**0.442 Rifles, muskets, carbines, musketoons**
Including also bayonet as part of the complete weapon
1 Single shot, muzzleloading
2 " breechloading
3 Repeating rifles
4 With magazine
32 " loader
4 Automatic guns

**0.443 Pistols and revolvers**
1 Single shot pistols
3 Automatic pistols
4 Revolvers

**0.444 Side arms Cutting arms**
For halberds, axes, dirks, poniards, and other antiquated forms see 399
2 Swords
3 Bayonets: saber bayonets, sword bayonets
4 Lances

**0.45 Ammunition and fireworks**
Kinds and relatív efficiency for military purposes. For details of manufacture of powder and explosives see 662

**0.451 Artillery projectiles**
Including exploder as part of projectil
1 Spheric projectiles
11 Solid shot
12 Bombs
13 Shells: early shrapnel
14 Grenades
2 Elongated projectiles
22 Case shot: canister and grape
25 Elongated bullets
3 Shells
4 Modern shrapnel
5 Segment and ring shell
6 Incendiary shells
6 For illuminating shells see 623.45446
7 Shells with high explosive Torpedo shells
8 Armorpiercing shells and other projectiles
623.452 Powders Explosivs
See also 662.2 Powder manufacture
1 Gunpowder
2 Other powders
9 Other explosivs
.453 Fixt ammunition
.454 Exploding devices and fireworks
See also 662 Pyrotechnics, explosivs, matches, etc.
1 Matches and fuzes
11 Slow matches and fuzes
12 Quick matches and fuzes
2 Exploders
21 Percussion caps
22 Primers
23 Projectil fuzes
24 " detonators
29 Other exploders, etc.
3 Fireworks, bombs, etc.
For torpedoes see 623.9
31 Incendiary devices
32 War rockets
33
34 Petards
35 Camoufllets
4 Illuminating fireworks
41 Links
42 Torches
43
44 Signal rockets
45
46 Illuminating projectils Star shells
.455 Small arms ammunition
For powder see 623.452
1 Spheric bullets
2 Elongated bullets Minie ball
3 Cartridges Fixt ammunition
32 Jacketed bullets
35 Prohibited bullets: dumdum or expanding; explosiv
Those prohibited by Hague conference
.46 Artillery accessories
.461 Battery tools
.462 Instruments
1 Sighting apparatus: rear sight, quadrants, elevating arcs, range scales
5 Range finders
463 Implements: rammers, swabs, levers
47 Arsenals
Subdivide like 621.7
<table>
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</tbody>
</table>
Military roads, bridges and buildings

From the special point of view of military service. For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, see 627. Hydraulic engineering

Military buildings

Duplicating 725.18 for military engineers. Libraries should use 725.18 and leave 623.61-.614 vacant; for construction of fortifications see 623.1

Barracks

Military establishments

Groups of buildings forming a unit; e.g. military schools, army posts

Magazines

Military roads and thoroughfares

See also 625.7 Construction of roads

Military railways

See also 625 Railway construction

Destruction of tracks

Military bridges

For permanent bridges see 624

Pontoon bridges

Trestle bridges

Other temporary bridges

Bridge material

Military signals

Aeronautics, etc.

Special military applications of science

Military topography

Special processes and instruments. See also 526 Topography in general

Photography

Reproductive processes applied to military art. See also 770 Photography

Signaling

Military telegraphy

Visual signals: heliografs, searchlights, etc.

Military telegraphy

Both wire and wireless. See also 621.382 and 654 Telegraphy

Military telephony

Both wire and wireless. See also 621.385 and 654.6 Telephony

Military aeronautics

For principles see 533.6 Aeronautics; for construction of airships see 629.13 Class here only military utility

Machines lighter than air

Free balloons

Dirigible balloons

Captiv balloons

Machines heavier than air: aeroplanes

Other

Military sanitation

Camp sites: soil, water, drainage, etc. For personal hygiene see 613.6,
623.8 Naval architecture Shipbilding

Including warship accessories. Class here comprehensive works on shipbuilding. Subdivide with 901-009 and 02-99 like 620. For ship design and theory see 623.81 Design; for principles of flotation see 532.3 Floating bodies

.81 General Design

Class here also separate discussion of such general questions as flotation, displacement, stability, strength, resistance, propulsion, and design; i.e., speed and power, coal endurance and steering radius, passenger or cargo capacity, etc.

.82 Types of ships and boats

.821 Primitiv and early forms

2 Rafts, catamarans, dugouts; galleys

.822 Modern sailing vessels

5 Caravels, sailing yachts, etc.

See also 797 Yachting; 623.824 Power yachts

.823 Engin driven vessels

Steam, internal combustion, electric, etc.

2 Tugs and lighters

4 Ferry boats: passenger, freight and train

.824 Passenger and cargo vessels

River, lake or ocean liners; power yachts, etc. For tugs, ferryboats, small motor boats, etc. see 623.823

.825 Warships

Fighting vessels: battleships, cruisers, gunboats, monitors, torpedo boats, submarines. For sailing men-of-war see 623.822

.826 Other government vessels

Transports, hospital ships, store and fuel ships (supply, food, refrigeration, ammunition ships; colliers, oilers, mineplaners, etc.) repair ships, lightships and lighthouse tenders, police boats, revenue cutters, fish commission boats, fireboats, etc.

.828 Other power vessels

Ships for cable laying, icebreakers, trawlers, etc. For dredges see 627.7

.829 Other boats

Flatboats, scows, lighters, canal boats, barges, rowboats and canoes, lifeboats, surf boats

.83 Appliances peculiar to shipbuilding

Model tanks and experiments, including also Froude's tests on full size ships; launching ways and launching; dry or graving docks; moldloft and scriveboard

.84 Hull and its accessories

Structural: watertight compartments; systems of construction (wood, composite, iron and steel), structural details (framing, bulkheads, etc.) Nonstructural: joinery, nonstructural decks

.85 Hull accessories: masts and spars; rudder and steering gear; drainage, etc.

Lighting, ventilating, heating, refrigerating; electric plant and lighting for ship installation only; see also 621.3 Electric engineering

Ship fittings: doors, hatches, etc.

.86 Equipment and outfit

Superadded, not built in, but necessary for effective use of ship Sails and rigging; anchors, chains, cables, hawsers; compasses, sounding machines, speed logs; boats, rafts, life preservers, buoys Furniture, saloon and cabin furnishings; table and galley (kitchen) outfit

See also domestic economy, 645

.87 Propelling machinery

Vibration and balancing. For theory of propulsion see 623.81

See also 621.12 Marine engine; 621.765 Steam turbines; 621.18 Boilers

.9 Armor and armament

Distribution, armoring; proper height, etc; battery

For manufacture of armor plate see metallurgy, 669.1 Iron and steel

.95 Torpedoes

Launching tubes and other accessories
Bridges and roofs Viaducts

Subdivide if wished like 620.1-9 and 620.0

1 General

1.2 Purpose
Highway, foot bridges, etc. regardless of structural type

1.3 Location Approaches

1.5 Foundations
General works Foundations of buildings are better class 721.1

1.51 Foundation bed Nature of soil

1.52 Excavation, timbering, shoring
624.153-157 may be subdivided like 721.13-17

1.53 Material for building foundations
For material for superstructure see 624.07

1.54 Pile foundations: general Material
" " methods of sinking

1.55 Platform foundations

1.56 Subaqueous foundations
Processes: cofferdam, caisson, freezing

1.6 Piers and abutments
Wood, masonry, metal. Subdivided like 620.1

1.7 Stresses and strains
General; if limited to a special type, class with that type

1.71 General Computation of stresses

1.72 Loads
Ded, live or moving loads

1.73 Highway

1.74 Railway

1.75 Wind pressure

1.76 Working stresses

2 Girders and girder bridges
Including floor systems; see .25 below

2.1 Girders
Continuous; discontinuous or independent

2.2 Solid beams

2.2.2 Wood

2.2.7 Metal

2.3 Plate girders Lattis girders

2.4 Trestles

2.5 Floor systems

2.7 Girder bridges

3 Trusses and trussed bridges
Constructed of systems of braced girders

3.1 Simple truss

3.2 Continuous truss

3.3 Cantilever truss Balance bridge

4 Tubular bridges Box-girder bridge
Suspension bridges
- Flexible Rope bridge
- Rigid Cables
- Towers or piers
- Anchorage

Arch bridges
- Wood
- Masonry: Stone, brick, concrete, reinforced concrete
- Metal: iron and steel
- Hinged arch

Compound structures
Structurally compound; e.g. plate girder and suspension, trussed arch

Movable bridges
- Drawbridges
  - Bascule: counterpoise, folding
  - Swing: pivot, swivel, turning
  - Lifting: Whole bridge lifted vertically
  - Rolling: Floating; see also 624.87

Aerial and other traveling bridges
- Pontoon bridges: floating, boat or raft

Roofs
For other relations see Roofs in Relative index

Railroad and road engineering
May be divided by 0 and 00 like 620. For railway operation see 656

Way and works
- Route
  - Reconnaissance, preliminary and location surveys; center lines; grades; curves; switchbacks
- Permanent way
  - Roadbed: Earthwork; surveys, computation, classification, cuts and fills. Drainage
- Structures: tunnels, culverts, snowsheds; Class here general works on tunnels; see also mining 622.26
  - For bridges and trestles see 624; for transportation bills see 725.3
- Track: ballast, ties and tieplates, strains
  - Including also rails and their accessories
- Monorail tracks
- Rails and accessories
  - Rail braces, rail joints, chairs, track bolts, nut locks, spikes
- Track accessories
  - Turnouts, switches, sidings, bumping posts; crossings; signals; turntables; ashpits, track tanks; cattle guards
- Road maintenance and repair
- Materials
- Road equipment
  - Fences, gates, platforms, track scales, yards, etc.
  - Stations, depots, shops, etc. considered as road accessories
  - For stations, depots, roundhouses, etc. see 725.3
  - For shops see 621.7

Other topics
623.2 Trains and accessories
  Interrelations of road and rolling stock; strain and wear
  For car building see 699 For time tables, traffic, etc. see 626

.21 Running gear
  Trucks, bogies and Bissell bogies; wheels, axles, tires, balancing; axle boxes
  and gards; lubrication
  Suspension, bearing springs

.22 Cars See also 699 car building
  Transverse section of car and track gage
  Effect of length of car in rounding curves

.23 Passenger cars

.24 Freight and combination cars

.25 Brakes Buffers and couplings

.26 Power requirements
  Length and weight of train. Speed
  See also 621.13 Steam engines; 621.3342 Electric engines; 621.43 Gas engines

.27

.28 Monorail rolling stock

3 Inclined and mountain railways

.32 Funicular railways

.33 Rack railways

.4 Elevated and underground roads, subways

.5 Cable roads

.6 Street railways, tramways
  See also 621.33 Electric traction; 625.4 Elevated and underground railways;
  625.5 Cable roads; 699 Carbild’ng

.7 Roads, highways, streets
  See also local government, 352.7 Streets, highways; for pavements see 625.8

.71 Road systems

.711 Rural

.712 Urban

.72 Location
  Preliminary and locating surveys Grades Curves

.73 Roadbed, foundation
  Earthwork Subsurface drainage

.74 Dirt roads Crowning Drainage

.75 Surfacing Oil and other binders

.76 Maintenance and repair

.77 Trees Park’ings

.78 Subsurface condtions, pipes, etc.
  Sewers; water, steam and gas pipes as affecting roads

.79 Other topics
625.8 Pavement
.S1 Flagstone
.S2 Stone blocks and brick
   Including cobblestone. Requirements of paving stones
   For vitrified brick see 625.87
.S3 Wood pavements Corduroy, plank, blocks
.S4 Concrete pavements
.S5 Asphalt
.S6 Stone roads
   Macadam, telford and other broken stone processes
.S7 Metal, vitrified brick, reinforced blocks
   For other brick pavements see 625.82
.S8 Sidewalks May be divided like 625.81-87
.S88 Curbs
.S9 Other topics
.9 Ship railways

626 Canal engineering
.1 Route
.2 Water supply
.3 Size and shape
.4 Locks
.5 Lifts and inclined planes
.6 Canal boats: size, shape, etc. See 623.829 Shipbuilding
.7 Towing; power, etc.
.8 Irrigation canals and other irrigation works
.9 Ship canals

627 River, harbor, and general hydraulic engineering. See also 624.157 and 721.17 Subaqueous foundations
.1 Rivers: force of water, discharge, bars
   River improvement
.2 Harbors Breakwaters
.3 Docks Piers Quays Shipping facilities
.4 Dikes and levees, embankments
.5 Other protection and reclamation of land from tides and
   waves, drainage For agricultural drainage see 631.6
.6 Jetties
.7 Dredging Dredging machinery
.8 Dams
.9 Lighthouses Buoys

628 Sanitary engineering Waterworks
.01 Theories, utility .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Study and teaching .08 Polygraphy .09 History and description of sanitation and general sanitary works. Divided geographically like 930-999
.1 Water supply of towns For isolated supply see 628.7
.11 Sources of water supply
   Lakes, rivers, springs, wells, and pumping
.12 Pumping vs gravitation systems
   Pump well, standpipe, high servis. Holley system
Storage and servis reservoirs

Condits, aqueducts, tunnels

Mains and servis pipes

Impurities and their removal: filter basins, etc.

Public (sprinkling, fire, flushing), manufacturing, and domestic use and waste; meters

Sewerage works

Combined system

Separate system

Liénur system

Shone system

Berlier system

Other systems

Outfall

Depth and alignment

Grade and velocity

Shape and size of sewers

Stormwater flow

Ordinary flow

Circular section

Ordinary eg shape

Other eg shapes

Other forms

Formulas for size

Ventilation of sewers

Openings in streets

Lamp posts

Flues in houses

Pipes on houses

House drains

Chimneys and furnaces

Charcoal and chemicals to deodorize sewer gas

Special mechanism

Special construction

Design and construction of sewers

Sewer appurtenances

Junctions

House connections

Manholes and lampholes

Flushing shafts and fixtures

Catch basins and inlets

Traps and ventilators

Valvs and penstocks

Overflows and regulators

Miscellaneous
628.26 River crossings
.27 Intercepting and outfall sewers
.28 Reservoirs and tank sewers
.29 Pumping stations
.3 Sewage and its disposal
.31 Physical properties of sewage
.32 Deodorization and disinfection of solids and liquids
   See also 628.237
.33 Subsidence
.34 Precipitation
  .341 Precipitation tanks
  .342 Mixing machinery
  .343 Filter presses
  .344 Precipitation by salts of alumina
  .345 By lime
  .346 By salts of iron
  .347 By other methods
  .348 Disposal of sludge
  .349 Miscellaneous
.35 Filtration
.36 Irrigation
  .361 Broad irrigation
  .362 Ridge and furrow irrigation
  .363 Flatbed irrigation
  .364 Subsurface irrigation
  .365 Intermittent downward filtration
  .366 Carriers and appurtenances
  .367 Drains and drainage of sewage farms
  .368 Filtration areas
  .369 Miscellaneous
.37 Sewage farming Required modifications of ordinary methods
   See also agriculture, 631.8425
.38 Sewage manures
.39 Discharge into sea, etc.
.4 Sanitation of towns
.41 Middens and privies
.42 Pail systems
.43 Earth closet systems
.44 Domestic ashes, garbage and refuse
.45 Public urinals and latrines
.46 Street cleaning and sprinkling
.47 Pavements and subways
.48 Trees in streets and squares
.49 Manufacture of fertilizers from town wastes
Industrial sanitation

Factories and trades

Prevention of dust and fumes

Protection of throat and eyes

Protection against infection

Special trades

Effluvium nuisances

Situation of works

Use of high chimneys

Condensation in water

Combustion in furnaces

Special trades

Smoke nuisance

From steam generators

From special industries

Disposal of solid and liquid wastes

Discharge into streams

Absorbing wells and burial

Clarification by subsidence

Chemical treatment

Filtration

Purification by the soil

Special methods and special trades

House drainage

Rural water supply: villages and country houses

Ventilation and heating

This is chiefly for ventilation. Most matter on heating goes in 697

See also Heating, Ventilation, in Relative index following tables

Lighting

For other relations and applications see Lighting in Relative index

Other branches of engineering

Automotive industries

Aerodynamics, bird flight, soaring

Meteorologic conditions; wind currents, etc.

Aerodromes, flying grounds, parks

Navigation

Atmospheric roads, airways; aerial maps, topography; airsickness; disasters

Laws, international and local
Aircraft lighter than air

Nondirigible
- Hot air balloons, montgolfières; pilot balloons; balloon sonde; kite and captiv balloons

.154 Dirigible
- Airships

.155 Rigid

.156 Semirigid

.157 Nonrigid

.16 Construction

.161 Gas envelop, material
- Balloon fabrics, netting, gas used, apparatus for inflation

.162 Car or basket, cabin, seats
- Method of attaching to gas envelop

.163 Motors
- See 621.4387

.164 Propellers

.165 Steering apparatus

.166 Balancing: gyroscope

.167 Landing apparatus: anchors, parachutes

Aircraft heavier than air

Aviation

.17 Kites

.172 Gliders

.173 Monoplanes

.174 Biplanes

.175 More than 2 planes

.176 Helicopters

.177 Ornithopters or orthopters

.179 Special adaptations: hydroaeroplanes, aviets

Construction

.181 Structure
- Planes, wings, ailerons, etc.

.182 Seats, cabin, etc.

.183 Motors
- See 621.4387

.184 Propellers

.185 Steering apparatus

.186 Stability, balancing apparatus

.187 Starting and landing apparatus

Applications of aeronautics

Motor vehicles, automobiles

Mechanically propälid and motor vehicles for highways: bicycles, motor cycles, etc. For highway vehicles for separate tractors (animal or mechanical) see 68
USEFUL ARTS

630 Agriculture

SUMMARY

631 Farmstead Soil
632 Hindrances
633 Field crops
634 Fruits Vinyards Forestry
635 Garden crops
636 Domestic animals
637 Dairy and dairy products
638 Bees, silkworms, etc.
639 Hunting, trapping, fish culture

.1 Rural life
   Rural exodus. Improvement of country life conditions

.2 Compend
   Agricultural physics
   " chemistry
   " botany
   " zoology
   Only for general treatises. Those relating to a special subject are classed with the subject: e.g. chemistry of milk 637.127

.3 Dictionaries, cyclopedias

.4 Essays

.5 Periodicals

.6 Societies, clubs, conferences
   Official institutions; government departments
   Voluntary associations
   Not under government control
   International (International institute of agriculture)
   Subdivided like 940-999: e.g. 630.623 Patrons of Husbandry, including state and local granges; Farmers alliance, etc.
   Societies of limited scope are classed with their subjects; e.g. horse breeders associations 636.706

.63 Congresses, conferences, temporary organizations

.7 Study and teaching
   For agriculture as a school subject see 373.63; for school gardens see 372.36
   Instruction, schools
   Colleges Alphabetic; but may be subdivided like 940-999 if preferred
   Schools Arranged like .711 colleges
   Short courses
   Summer
   Winter
   Correspondence courses
   Institutes Farmers institutes
   Courses in nonagricultural institutions
   Extension work
   County agent, boys and girls clubs
   Other instruction
   Research work Experiment stations
   Museums, exhibits
   Special pedagogic methods
   Normal training classes
   Competitions, prizes, etc.

.9 History, divided like 930-999
The farm, farmsted  Soil

SUMMARY

631.1 Farm economics
   .2  "  buildings
   .3  "  machinery and tools
   .4  Land, soil, soil chemistry
   .5  Tillage and farm operations
   .6  Drainage and reclamation
   .7  Irrigation and conservation of moisture
   .8  Fertilizers
   .9  Climate, roads, etc.

Geographic distribution of cultivation
   Zones and physical regions
   1  Arctic regions
   2  Temperate zone
   3  Tropics
   4  Mountains

631.1 Farm economics

Farm and estate management

.11 Selecting and acquiring a farm
   Land settlement guides
   Location: nearness to market; means of communication, by water, by land
   (railways, highways), climate and rainfall

.112 Purchase
   Cost, valuation, taxes

.113 Rent
   Share systems (Métayage)
   See also 631.1153

.115 Systems of working a farm
   1  Owner his own farmer
   2  By a manager
   3  Share system
      From owner's point of view
      See also 631.114 from worker's point of view
   4  Renting
      From owner's point of view
      See also 631.113 from renter's point of view

.116 Scale of farm
   1  Large farm
   2  Small farm (One-man farm)

.12 Laying out farm
   Located buildings, fields, farmsted, roads and lanes

.13 Types of farms

.14 Crop farm

.142 Vegetable farm

.143 Fruit

.144 Woodlands
   See 634.9 Forestry

.145 Stock farm
   See 636 Domestic animals; 637.113 Dairy farms

.146 Fish culture in ponds
   See 639 Hunting, trapping, fishing
631.16 Finances and accounts Bookkeeping records

Expenses

.17 Buying supplies Purchases

.171 Wages

.173 Insurance: bildings, stock, crop
   See also Insurance business 368.5

.175 Packing, shipment
   For methods see 631.564

.177 Returns Selling products
Marketing

.2 Farm bildings
   For architecture, see 728.67 Farm houses; 728.9 Outbildings

.21 Houses Dwellings

.22 Barns Poultry houses Stables

.23 Granaries Silos

.24 Carriage houses

.25 Machine sheds

.26 Other bildings

.27 Fences, walls, hedges

.28 Roads, bridges, etc.

.3 Farm machinery Tools, appliances, etc.
   Care and repair of farm machinery

.31 Clearing and soil working: general tools

.311 Digging tools, machines, etc.

1 Spade: turf, ditching, post, polisht-drain, longhandled garden spades
Shovel: prongd shovel For steam shovel see 621.865
Spud

2 Small too's
   Trowel, for mason's trowel see 693. Dibble, dibber or dibbler. See also seeders

3 Posthole digger
   Posthole auger or borer. Spudding bit

4 Forks; for digging, etc. Dung-fork
   For hay forks, pitchforks, see 631.3335

5 Digging machines
   Spaders, rotary spaders, horse shovel, road scraper

6 Crow or crowbar
   Pick. See also mining picks 622.
   Pickax, mattock, grubbing hoe, grubbing ax

7 Stump extractor or puller Stone gatherer Bush sithes

.312 Plows

1 Common plow; walking plow; hand plow

2 Riding plow; sulky plow
   Double plow, double-furrow plow, 2-furrow plow

3 Balanst plow Gang plow, multiple-furrow plow

Power plow
   Steam plow, traction engin, stationary engin; oil or gas engin; electric
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**Reversible plow, turning moldboard plow**
Sidehill or hillside plow, turn-wrest plow, one-way plow, drill plow, also sometimes called double plow and swing plow

**Breaking plow**
Paring plow, sod plow, prairie plow, skim plow

**Pulverizing plow, stubble plow, digging plow**
Subsoil plow, mole plow

**Double mold board plow, doublebrested plow**
Middle "buster" or burster, middle breaker

**Other special plows**
- Vinyard plow
- Seeding plow
- Scooter

**Disk plow**

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<tr>
<th><strong>Harrow</strong></th>
<th>Smoothing harrows</th>
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<tr>
<td>1</td>
<td>Bush harrows; plank-scraper; fixed and adjustable tooth, frame harrow</td>
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<td>2</td>
<td>Chain harrow</td>
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<td>3</td>
<td>Spring-tooth harrow</td>
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<td>4</td>
<td>Curved knife-tooth harrow, pulverizer</td>
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<tr>
<td>5</td>
<td>Revolving harrow</td>
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<tr>
<td>6</td>
<td>Disk harrow: full disk, cutaway</td>
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<tr>
<td>7</td>
<td>Spading harrow, scuffle harrow</td>
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<td>8</td>
<td>Special uses</td>
</tr>
<tr>
<td></td>
<td>Orchard disk harrow</td>
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</tbody>
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**Rollers, etc.**

| 1          | Rollers |
|            | Wood, stone, metal. Hand, horse, riding, power |
| 2          | Disk rollers |
| 3          | Clod crushers, clod breaker |
| 4          | Subsurface packer |
| 5          | Planker, plank drag |

**Hand gardening tools**

| 1          | Hoe |
|            | Draw, field, bayonet, garden |
| 2          | Thrust, Dutch, push, scuffle, D hoe |
| 3          | Scarifier or scraper |
| 4          | Weeder |

**Weed cutters**
Weed hook, weeding chisel, weeding shears

**Garden rakes: wood, iron**

**Cultivators**

| 1          | Wheel hoe, hand cultivator |
| 2          | Horse cultivators |

**Walking cultivators, horse hoe, shovel plow**
Scuffler, scooter, scuffer, hasp, sweep, grubber

**Riding or sulky cultivators**
Balance frame

**Surface or gofer cultivator**
Heel scrape, scrape

**Disk cultivator**

**Stalk cutter**
AGRICULTURE

631-33 Seeding and sowing machinery
  .331 Seed sowers, seeding machines
    1 Broadcast sowers, seeders
        Hand machines
      2 Walking
      3 Riding
    4 Land and row markers
    5 Furrow sowers  Drills
      6 Walking
      7 Riding
    8 Special sowers

  .332 Planters
    1 Hand, foot
    2 Walking
    3 Riding
    4 Check rowers
    8 Special planters

  .333 Fertilizer distributors
    1 Hand machines
    2 Walking
    3 Riding
    4 Liquid fertilizer
    5 Pulverized “
    6 Farmyard manure, manure spreders

  .334 Mixt spreders
      Both fertilizer and seed

  .335 Propagation apparatus
      Cutting benches, layering pots, etc.

  .336 Transplanters
    1 Ballers
    6 Tree conveyers

  .341 Equipment for care of plants, trees, etc.

  .341 Grafting, etc. implements and material
      Budding knife, grafting knife, grafting wax

  .342 Pruning
    1 Shears or pruner  Hedge trimmer
    2 Knife or hook
    3 Chisel
    4 Bil hook
    5 Ax or hatchet
    6 Saw
    7 Scraper

  .344 Protection and shelter
      See also 632.1 and 632.9
    1 Bel glasses
    2 Cold frames
    3 Hot beds
    4 Greenhouses
    5 Forcing houses
631.345 Supports
1 Vertical cords and wires
2 Poles, stakes, stays, props
3 Trellises, espaliers
4 Fruit walls
.346 Receptacles: pots, boxes, etc.
.35 Harvesting
.351 Hand tools, primitiv tools
1 Sickle, reaping hook, grass knife, grass hook
2 Sithe
3 Cradle, cradle sithe
.352 Mowers
7 Lawn mowers
.353 Other haying implements
1 Hay spreders, tedders
2 Hay rakes, gatherers, binders, windrowers
3 Hay loaders
4 Hay stackers
5 Hay forks and carriers
.354 Reapers
1 Self binders
2 Harvester	Combined harvester and thresher
3 Heders	Clover heders
.355 Corn harvesters
1 Corn shockers
2 Stubble cutters
3 Corn pickers
4 Strippers
5 Toppers
.358 Special crops
1 Fruits, nuts
2 Legumes, peas, beans, etc.
3 Root crops, etc.
4 Fiber crops: cotton, flax, hemp
5 Sugar cane
6 Other crops
8 Tree products

Maple (sap), pine (turpentine), gums, resins, gutta percha, etc.
631.36 Machinery, tools, etc. used in preparing for storage or transport

.361 Threshers, etc.
1 Primitiv tools
   Flails, drags, wain
2 Mechanical threshers
3 Huskers
4 Shellers

.362 Cleaning
1 Primitiv tools
   Shovel, siv, fan
2 Winnowers, fanning machines
3 Sorters, sifters
6 Washers for roots and tubers

.363 Silo machinery
   Ensilage cutters

.364 Packing for transportation or storage
1 Bundlers
2 Balers Baling presses
3 Bunchers
4 Packers: baskets, boxes
   See 631.3721

.37 Power, power transmission appliances

.371 Motiv power
1 Human power
2 Animal power
3 Water power
4 Windmils
5 Steam engins
6 Gas engins, oil and alcohol
7 Electricity

.372 Tractors
1 Steam
2 Gas, oil, alcohol
3 Electric

.373 Transport appliances
1 By carrying
   Baskets, boxes, bags, etc. handbarrows
2 On animals backs: packs, saddlebags, etc.
3 Drags Sleds Stoneboats
4 Hand-carts, wheelbarrows
5 Wagon Chute wagons Drays
   Dumping wagons, hayracks, lumber wagons, trucks
6 Motor trucks
9 Other vehicles

.374 Harness Saddles

.38 Implements for care of farm animals
631.4 Land, soil

.41 Soil chemistry
  Chemic properties and constitution of soil

.411 Composition according to geologic origin

.416 Inorganic chemistry

.417 Organic chemistry

.42 Analysis and experiments
  Methods of investigation: chemic, mechanical

.43 Soil physics

.431 Specific weight (gravity) of soil

.432 Humidity
  Water  Ground water
  Soil moisture: hygroscopic, capillary
  Permeability  Absorption

.433 Atmosphere: air, gases

.436 Temperature
  Warmth of soils

.44 Soil classification  Adaptability
  Alkali lands; soils for special crops, tobacco, etc.

.45 Soil fertility: maintenance, exhaustion
  See also 631.8 Fertilizers

.46 Soil bacteriology: microbes, ferments, sterilization

.47 Soil surveys

.49 History

.5 Tillage and farm operations

.51 Soil preparation and working

.511 Spading, diggin, forking

.512 Plowing, subsoiling

.513 Blasting, use of explosives

.514 Harrowing

.515 Rolling, planking

.516 Hoeing, raking, weeding

.517 Cultivating

.52 Selection, breeding, etc.

.521 Selection
  Seed selection
    " catal ogs
  Plant selection
  Nursery catalogs

.522 Plant breeding

.523 Hybrids  Crossing  Creation of new varieties

.524 Introduction of new kinds

.525 Acclimatization
AGRICULTURE

631.53 Methods of plant multiplication

- Seedage
  1. Sowing broadcast
  2. Drilling, in rows
  3. Planting in hils or separate seeds
  7. Spores

- Separation of growing plant
  1. Young bulbs, offsets
    Bulbs, bulbules or bulblet; separation of small from parent bulb
  2. Tubers
    Cutting into "sets" each with an eye
  3. Division or partition of tufted growing plants

- Detaching of separate plants
  1. 'Suckers, root suckers, stem suckers
  2. Runners, stolons
  3. Proliferous buds

- Layering
  1. Ordinary; each shoot makes one new plant
  2. Multiple, serpentine, or trench
  3. Mound or stool layering
    See also 631.532
  4. Circumposition, potted, aerial, air or Chinese layering
  6. Layering trees and shrubs
    v. vines

- Cuttings
  1. Choice of cutting
  2. Preparation for planting
  3. Plant'ng
  4. Branch or stem cuttings
  5. Short cuttings: cuttings of single eye or bud
  6. Root cuttings
  7. Leaf and bulb scale cuttings

- Transplanting
  For grafting and budding see 631.54

- Caring for plants
  For protection against injuries, see 632

- Grafting
  For bridge grafting, sometimes called bark grafting, see 632.8

- Selection of stock and scion, affinity
  2. Suitable age and season

- Methods of grafting
  31. Cleft grafting
  32. Splice
  33. Whip
  34. Saddle
  35. Veneer
  36. Bark
    In England and France called crown grafting, see 631.541.42; and
    sometimes used to mean bridge grafting, see 631.541

- Herbaceous grafting
<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
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<tbody>
<tr>
<td>631.5414</td>
<td>Grafting according to position of scion</td>
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<tr>
<td>41</td>
<td>Root grafting</td>
</tr>
<tr>
<td>42</td>
<td>Crown “</td>
</tr>
<tr>
<td>43</td>
<td>See also 631.54136, note</td>
</tr>
<tr>
<td>44</td>
<td>Stem grafting (on main stem or trunk)</td>
</tr>
<tr>
<td>5</td>
<td>Top “ (in top or branches)</td>
</tr>
<tr>
<td>6</td>
<td>Bud grafting Budding</td>
</tr>
<tr>
<td></td>
<td>Formerly called inoculation Flute grafting</td>
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</tbody>
</table>

**Grafting by approach, inarching**

**Binding and protecting grafts**

**Indoor grafting**

---

**Pruning**

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>1</td>
<td>Winter pruning</td>
</tr>
<tr>
<td>11</td>
<td>Theories of pruning</td>
</tr>
<tr>
<td>12</td>
<td>Methods of pruning</td>
</tr>
<tr>
<td>13</td>
<td>Heading in</td>
</tr>
<tr>
<td>14</td>
<td>Thinning of branches</td>
</tr>
<tr>
<td>15</td>
<td>Scraping</td>
</tr>
<tr>
<td>17</td>
<td>Time to prune</td>
</tr>
<tr>
<td>2</td>
<td>Summer pruning Work on green wood</td>
</tr>
<tr>
<td>21</td>
<td>Pinching in</td>
</tr>
<tr>
<td>22</td>
<td>Nipping off buds</td>
</tr>
<tr>
<td>23</td>
<td>Clipping</td>
</tr>
<tr>
<td>24</td>
<td>Ringing, girdling</td>
</tr>
<tr>
<td>27</td>
<td>Thinning fruit</td>
</tr>
<tr>
<td>3</td>
<td>Trimming (to secure definite shape)</td>
</tr>
</tbody>
</table>

---

**Forcing**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Bel glasses</td>
</tr>
<tr>
<td>2</td>
<td>Cold frames</td>
</tr>
<tr>
<td>3</td>
<td>Hotbeds</td>
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<tr>
<td>4</td>
<td>Greenhouses</td>
</tr>
<tr>
<td>5</td>
<td>Forcing houses</td>
</tr>
</tbody>
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---

**Retardation**

---

**Training**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Vertical, poles, stakes, cords</td>
</tr>
<tr>
<td>3</td>
<td>Espalier or trellis training</td>
</tr>
<tr>
<td>4</td>
<td>Wall training</td>
</tr>
<tr>
<td>5</td>
<td>Arbor training</td>
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<tr>
<td>6</td>
<td>Cordon training</td>
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</table>

---

**Stages of plant growth**

<table>
<thead>
<tr>
<th>Number</th>
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<tbody>
<tr>
<td>1</td>
<td>Seedling</td>
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<tr>
<td>2</td>
<td>Increase, growth</td>
</tr>
<tr>
<td>3</td>
<td>Maturity</td>
</tr>
<tr>
<td>4</td>
<td>Flowering</td>
</tr>
<tr>
<td>5</td>
<td>Fruitage</td>
</tr>
<tr>
<td>6</td>
<td>Ripening</td>
</tr>
</tbody>
</table>
AGRICULTURE

631.55 Harvesting, storage, preservation

These numbers treat of the material operations of harvesting. Class anything about a definite crop under its special number; e.g. 633.11 Wheat crop. See also 631.56 for preparation of crop for market, 636.085 for preparation of food for cattle, etc. For farther preparation of agricultural products not usually done by the farmer at the present day, see the various divisions of commerce, technology and manufactures.

.552 Mowing
.553 Hay making, stacking, etc.
.554 Reaping
.555 Corn harvesting
.556 Harvesting other special crops

For cutting and felling trees see 634.0 Forestry

1 Fruits, nuts, etc.
3 Legumes: peas, beans, etc.
4 Root crops and tubers
5 Fiber crops: flax, hemp, cotton picking
6 Sugar cane, etc.
7
8 Saps, gums, resins, etc.
9 Other crops

.56 Preparation for storage and transport

See note under 631.55

.561 Preparing grains
2 Threshing, etc.
3 Husking corn, etc.
4 Shelling corn

.562 Cleaning, etc.
2 Winnowing
3 Sorting, sifting
6 Washing (roots, tubers, etc.)

.563 Storing green fodder

Cutting, and filling silos

.564 Packing for transportation or storage
2 Baling
4 Packing in baskets, boxes and barrels

.57 Special methods

.581 Fallowing
.582 Crop rotation
.583 Intensiv farming
.584 Catch crop culture
.585
.586 Dry farming Deep soil culture
.587
.588 Application of special forces
1 Electro culture
2 Radio
### Decimal Classification

<table>
<thead>
<tr>
<th>631.6</th>
<th>Reclamation</th>
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<tr>
<td>.61</td>
<td>Drainage</td>
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<tr>
<td></td>
<td>Initial operations</td>
</tr>
<tr>
<td>.611</td>
<td>Prairies</td>
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<tr>
<td>.612</td>
<td>Waste lands: rocks and bushes</td>
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<tr>
<td>.613</td>
<td>Hilsides: terracing</td>
</tr>
<tr>
<td>.614</td>
<td>Forests</td>
</tr>
<tr>
<td>.615</td>
<td>Marshes Swamps</td>
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<tr>
<td>.616</td>
<td>Lands under water Polders</td>
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<tr>
<td>.617</td>
<td>Deserts</td>
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<tr>
<td></td>
<td>See 631.7 Irrigation</td>
</tr>
<tr>
<td>.62</td>
<td>Drainage methods</td>
</tr>
<tr>
<td></td>
<td>Ditches Drains (open, covered, tile)</td>
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<tr>
<td>.63</td>
<td>Drainage systems</td>
</tr>
<tr>
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<td>Plans, layouts</td>
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<tr>
<td>.64</td>
<td>Dikes and embankments</td>
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<td>.65</td>
<td>Water removal by machinery</td>
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<td>Pumps, windmills, etc.</td>
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<td>.7</td>
<td>Irrigation, water supply</td>
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<td>Conservation of moisture. Rainfall, streams</td>
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<td>.71</td>
<td>Source of water: wells, reservoirs</td>
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<td>.72</td>
<td>Irrigating canals</td>
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<td>.73</td>
<td>Systems of irrigation</td>
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<td>Plans, etc.</td>
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<td>.74</td>
<td>Measure and distribution of water</td>
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<td>.75</td>
<td>Cost of water</td>
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<td>.77</td>
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<td>.78</td>
<td>Machinery</td>
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<td>.79</td>
<td>Methods of conserving moisture</td>
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<tr>
<td></td>
<td>Mulching</td>
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<td>See also 631.586 Dry farming; 631.8 Fertilizers, amendment of soils</td>
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<tr>
<td>.8</td>
<td>Fertilizers</td>
</tr>
<tr>
<td>.81</td>
<td>History, nature, uses</td>
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<tr>
<td>.811</td>
<td>Nutrition of plants; necessary principles</td>
</tr>
<tr>
<td>.812</td>
<td>Production, preparation, collection, conservation</td>
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<tr>
<td>.813</td>
<td>Composition</td>
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<tr>
<td>.814</td>
<td>Loss of fertilizing principles</td>
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<tr>
<td>.815</td>
<td>Economic value</td>
</tr>
<tr>
<td>.816</td>
<td>Use Methods of application and distribution</td>
</tr>
<tr>
<td>.817</td>
<td>Purchase Transport Cost</td>
</tr>
<tr>
<td>.818</td>
<td>Frauds Adulterations Control; legislation, inspection, analysis</td>
</tr>
</tbody>
</table>

Any special fertilizer may be subdivided like 631.82; e.g.
- 631.8525 Economic value of bone as a fertilizer
- 631.8733 Composition of seaweed
### AGRICULTURE

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>631.82</td>
<td>Mineral amendments</td>
</tr>
<tr>
<td>631.821</td>
<td>Lime, gypsum, plaster</td>
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<tr>
<td>631.822</td>
<td>Marl</td>
</tr>
<tr>
<td>631.825</td>
<td>Sulfate of iron</td>
</tr>
<tr>
<td>631.83</td>
<td>Potash fertilizers</td>
</tr>
<tr>
<td>631.831</td>
<td>Wood ashes, vegetable ashes, burning turf</td>
</tr>
<tr>
<td>631.832</td>
<td>Chlorids</td>
</tr>
<tr>
<td>631.833</td>
<td>Sulfates</td>
</tr>
<tr>
<td>631.84</td>
<td>Nitrogen fertilizers</td>
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<tr>
<td>631.841</td>
<td>Ammonia</td>
</tr>
<tr>
<td>631.842</td>
<td>Nitrates</td>
</tr>
<tr>
<td>631.8421</td>
<td>Calcium cyanid</td>
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<tr>
<td>631.8425</td>
<td>Sewage</td>
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<tr>
<td>631.843</td>
<td>Animal industry residues: skin, etc.</td>
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<td>631.844</td>
<td>Slaughter house refuse. See also 831.852 Bone</td>
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<tr>
<td>631.845</td>
<td>Fish</td>
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<tr>
<td>631.846</td>
<td>Blood</td>
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<tr>
<td>631.847</td>
<td>Tankage</td>
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<td>631.847</td>
<td>Vegetable nitrogen fertilizers</td>
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<td>631.8471</td>
<td>Cotton seed meal, castor beans, pomace</td>
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<tr>
<td>631.848</td>
<td>Nitrifying crops</td>
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<tr>
<td>631.849</td>
<td>Soil inoculation Bacteria Nitrification</td>
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<tr>
<td>631.85</td>
<td>Azotin, ammonite, etc.</td>
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<td>631.851</td>
<td>Fosforic acid</td>
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<tr>
<td>631.852</td>
<td>Natural rock</td>
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<tr>
<td>631.853</td>
<td>Bone</td>
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<tr>
<td>631.854</td>
<td>Slags</td>
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<tr>
<td>631.855</td>
<td>Guano</td>
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<tr>
<td>631.856</td>
<td>Superfosfates</td>
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<td>631.86</td>
<td>Farmyard and stable manures, etc.</td>
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<td>631.862</td>
<td>Cow manure</td>
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<td>631.87</td>
<td>Vegetable manures</td>
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<td>631.871</td>
<td>Muck</td>
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<td>631.872</td>
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<td>631.873</td>
<td>Seaweed</td>
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<td>631.874</td>
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<td>Vegetable compost</td>
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<td>Residue from vegetable industries</td>
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<tr>
<td>631.88</td>
<td>Fertilizer experiments</td>
</tr>
<tr>
<td>631.89</td>
<td>Climate, roads, etc.</td>
</tr>
</tbody>
</table>
Hindrances: blights, pests, insects

Including those injurious to either plants or animals, but material relating to diseases of animals is better class in 619 or 636.089 and may attract all matter specially relating to animals.

<table>
<thead>
<tr>
<th>Decimal</th>
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<tbody>
<tr>
<td>.1</td>
<td>Elemental destruction Protection</td>
<td></td>
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<tr>
<td>.11</td>
<td>Low temperature, frost, freezing</td>
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<tr>
<td>.111</td>
<td>Methods of protection</td>
<td></td>
</tr>
<tr>
<td>.112</td>
<td>Warnings: wether bureau, thermometers</td>
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<td>.113</td>
<td>Covering</td>
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<tr>
<td>.114</td>
<td>Artificial clouds</td>
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<td>.115</td>
<td>Fires</td>
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<td>.116</td>
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<tr>
<td>.117</td>
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</tr>
<tr>
<td>.118</td>
<td>Repairing damages</td>
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</tr>
<tr>
<td>.12</td>
<td>Excessiv heat and drout</td>
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<td>.14</td>
<td>Hail</td>
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<td>.15</td>
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<td>.16</td>
<td>Wind and rain</td>
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<td>Floods, inundations</td>
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<td>.18</td>
<td>Fires: forest and prairie</td>
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<td>.19</td>
<td>Other destructive agents</td>
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<td></td>
<td>Earthquakes, fumes, gas, etc.</td>
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<td>Galls Cecidiology</td>
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<tr>
<td>.3</td>
<td>Bacteria and bacterial diseases</td>
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<td>.4</td>
<td>Fungi</td>
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<td>.5</td>
<td>Parasitic and injurious plants</td>
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<td>.58</td>
<td>Weeds</td>
<td></td>
</tr>
<tr>
<td>.59</td>
<td>Plants injurious or poisonous to animals</td>
<td></td>
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</tbody>
</table>
632.6 Injurious animals
Divided like 590, but class injurious insects in 632.7 instead of 632.657

.7 Injurious insects
Divided like 593.7

.71 Thysanura, etc.
Bristle tails or silver fish, spring tails

.72 Orthoptera
Grasshoppers, locusts, roaches, earwigs, leaf insects. See also 632.75 for leaf hoppers

.73 Pseudoneuroptera
Dragon flies, thrips

.74 Neuroptera
Lacewing flies, caddis flies

.75 Rhynchóta, hemiptera
Afids, biting lice, cicadas, grass flies, scale insects, chinch bug, squash bug, mealy bug, leaf hoppers. See also 632.72 for other leaf insects

.76 Coleoptera
Beetles, flat-hed and round-hed borers, weevils, wire worms

.77 Diptera
Flies, mosquitos, gnats, midges, fleas, root maggots, army worm, Hessian fly

.78 Lepidoptera
Butterflies, moths, caterpillars

.79 Hymenoptera
Ants, bees, wasps; saw, gall, and ichneumon flies

.8 Diseases and injuries
Other than covered by 632.2-7

.9 Means of protection
Other than covered by 632.1; e.g. netting and covers, screens, gards, scarecrows

.94 Methods and apparatus
Spraying, dusting, fumigating

.95 Preparations and materials

.951 Insecticides

.952 Fungicides

.953 Antiseptics

.96 Natural enemies of pests
May be subdivided like 590
### Field crops: grains, grasses, fibers, etc.

#### SUMMARY

<table>
<thead>
<tr>
<th>.1 Cereals, grains</th>
<th>.2 Grasses</th>
<th>.3 Legumes</th>
<th>.4 Root crops</th>
<th>.5 Fiber crops</th>
<th>.6 Sugar plants and starch</th>
<th>.7 Alkaloidal plants</th>
<th>.8 Perfumes, spices, condiments, etc.</th>
<th>.9 Other plants</th>
</tr>
</thead>
</table>

#### Cereals

<table>
<thead>
<tr>
<th>.11 Wheat</th>
<th>.12 Buckwheat</th>
<th>.13 Oats</th>
<th>.14 Rye</th>
<th>.15 Corn, maize</th>
<th>.16 Barley</th>
<th>.17 Millet, sorghum, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

#### Forage crops: grasses

For general treatises on forage crops, see Class 633.1 Cereals. Divided according to Haeckel.

<table>
<thead>
<tr>
<th>.21 Blue grass <strong>Poa</strong></th>
<th>.22 Orchard grass <strong>Dactylis</strong></th>
<th>.23 Red top, bent grass <strong>Agrostis</strong></th>
<th>.24 Timothy <strong>Phleum</strong></th>
<th>.25 Cereal grasses Divided like 633.1 Cereals</th>
</tr>
</thead>
<tbody>
<tr>
<td>.261 Bermuda grass <strong>Cynodon</strong></td>
<td>.262 Rye grass <strong>Lolium</strong></td>
<td>.263 Fescues <strong>Festuca</strong></td>
<td>.264 Oat grass <strong>Arrhenatherum</strong></td>
<td>.265 Paspalum</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AGRICULTURE

633.28 Other grasses
   Class here only such grasses as hav no specific number
   Divided like Hackel in 633.21-267
   .281 Maydeae
      Zoysicace
      Tristegineae
   .282 Andropogonae
   .283 Paniceae
   .284 Oryzeae
      Phalarideae
   .285 Agrostideae
   .286 Aveneae
   .287 Chlorideae
   .288 Festuceae
   .289 Hordeae
      Bambuseae

.3 Forage crops: legumes, etc.
   .31 Alfalfa Medicago
      Black medic, bur clover
   .32 Clovers, berseem Trifolium
   .33 Cowpeas Vigna
   .34 Soybean Glycine
   .35 Vetches Vicia

   .36 Sainfoin Onobrychis
   .37 Kidney vetch Anthyllis
   .38 Velvct bean Mucuna
   .39 Japan clover Lespedeza
   .365 Beggar weed Meibomia Desmodium
   .366 Sweet clover Melilotus

   .367 Lupin Lupinus
   .37 Other legumes
      .371 Sophoreae
      .372 Podalyrieae
      .373 Genisteae
      .374 Trifoliae
      .375 Loteae
      .376 Psoraleae
      .377 Galegeae
      .378 Hedysareae
      .377 Valbergiæae
      .378 Vicieae
      .379 Phaseoleae
   .38
   .39 Other forage crops
DECIMAL CLASSIFICATION

633.4 Root crops
These ar practically all also clas as vegetables in 635.1 and .2 and for con
venience of correspondence the same arrangement is followd here: 633.4 divided
like 635.1 and 633.40 divided like 635.2

.41 Beet  Beta vulgaris
See also 633.63 Sugar beet

.416 Half sugar mangel

.417 Mangel and mangel wurzel

.42 Turnip  Brassica rapa

.425 Hybrid turnip

.426 Rutabaga  Brassica campestris

.43 Carrot  Daucus carota

.44 Parsnip  Pastinaca sativa

.49 Tubers and bulbs

.491 Potato  Solanum tuberosum

.492 Sweet potato  Ipomaea batatas

.494 Jerusalem artichoke  Helianthus tuberosus

5 Textil fibers, cordage, plaiting, basket, etc.

.51 Cotton  Gossypium

.52 Flax  Linum

.53 Hemp  Cannabis
For other fibers known as hemp, see 633.56-.57. Brown and Indian hemp ar indefinit. For 'true Indian hemp' see 633.567

.54 Jute  Corchorus

.55 Ramie, China grass  Boehmeria

.56 Other soft fibers

.561 China jute  Abutilon

.562 Sunn hemp  Crotalaria
Bengal, Bombay, Conkanee, false, Konkan, Madras or Salsette hemp or Travancore flax; also incorrectly Dekkan or Ambari hemp. Jubbulpore or Jabbalpur hemp

.563 Ambari or Dekkan hemp  Hibiscus
Kanoff and Gambo hemp. Dekkan hemp also known in market as Bin
lipatam jute

.564 Majagua  Paritium  Hibiscus.titiaceus

.565 Olena  Touchardia

.566 Colorado river hemp  Sesbania

.567 Canada (or Indian) hemp  Apocynum
True Indian hemp; also called black Indian hemp

.57 Hard fibers

.571 Manila hemp, Abaca  Musa

.572 New Zealand hemp  Phormium

.573 Mauritius hemp  Furcraea

.574 Bowstring hemp  Sansevieria

.575 Bromelia fibers

.576 Pineapple fiber  Ananas
Agave fibers

1  Sisal, henequen  *Agave rigida*

2  Ixtle, istle, tampico *Agave heteracantha*
   Jaumave istle *Agave lophantha*
   Tulía istle *Agave Lechuguilla; also A. univalvata, A. caerulea*
   A. Kerchoefii
   Palm istle *Palma samandoca, Samuela carnerosana, Palma pito, Yucca treuleana*

3  Manila maguey *Agave Cantula*

4  Aloe fiber

5  Maguey fiber *Agave atrovirens, A. collina, A. Potosina, A. Tequilana, A. vivipara*

6  Zapupe: "zapupe verde", "zapupe azul"

.58  Fibers for plaiting, basket and wicker work; ruf weaving

.581  Coir, coconut fiber  Cocos

.582  Raffia  Raphia

.583  Esparto grass, alfa, halfa  *Stipa*

.584  Hat fibers
   Jipijapa plant  Carludovia  Panama hats
   Yaraw or hat palm  *Inodes*
   Straw, wheat, rye, barley, rice; in agricultural aspect better clast in 633.1

.585  Rushes and sedges  *Juncus*  Cyperaceae

.586  Reeds  *Arundo*

.587  Bamboo

.588  Osier, willow  *Salix*
   Other woods, splints, rattan

.59  Fibers for other industrial uses
   Filling or stuffing fibers, calking natural fibers; Cuba bast, etc. brush fibers,
   broom root, paper materials, usually better clast from agricultural standpoint;
   with other uses of the material

.6  Sugar plants and starch

.61  Cane  *Saccharum*

.62  Sorghum  *Andropozon sorghum*  *Brot. S. vulgare*  *Linn.*

.63  Sugar beets  *Beta*

.64  Maple  *Acer saccharum*  *Marsh*

.65  Palm

.66  Other sugar plants

.68  Starch
   Single plants usually better clast from agricultural standpoint with other uses
   of these plants; e.g. wheat, corn, rice, potatoes, etc.

.7  Alkaloidal plants
   For those chiefly medicinal see 633.88

.71  Tobacco  *Nicotiana*

.72  Tea  *Canellia thea*  *Link  Thea Linn.*

.73  Coffee  *Coffeea*

.74  Cacao, coco, chocolate  *Theobroma*

.75  Poppy (opium)  *Papaver*

.76  Kola or cola

.77  Maté  *Ilex*
   Brazil or Paraguay tea, Jesuits tea, yerba

.78  Chicory, succory  *Cichorium*
633.8  Perfumes, spices, condiments, etc.

.81  Perfumery
    See also 668.5

.811  Floral: rose, jasmin, violet

.812  Herbal: lavendar, rosemary, geranium, patchouli

.813  Citrin: bergamot

.814  Woods: sandalwood, cedar

.815  Roots: orris, vetiver

.816  Balms and gums: myrrh, benzoin

.82  Flavoring

.821  Vanilla

.822  Mints  Mentha

.823  Wintergreen  Gaultheria

.824  Sassafras

.825  Ginger  Zingiber

.83  Spices
    See also 664.5

.831  Allspice

.832  Cloves

.833  Cinnamon

.834  Nutmeg

.84  Condiments

.841  Pepper  Piper

.842  Red pepper, paprika  Capsicum

.843  Chili  Capsicum, specially c. fastigatum

.844  Mustard

.845  Capers

.846  Horseradish

.85  Oil producing plants
    Usually better clast from agricultural standpoint with the purpose for which
    the oil or plant is used

.86  Vegetable dyes, dye plants

.861  Yellow

.862  Blue

.863  Red

.864  Green

.87  Tanning material
    Usually better clast from agricultural standpoint with the tree or plant from
    which the material is derived

.871  Sumac  Canaigre

.88  Medicinal plants

.89  Other
AGRICULTURE

634 Fruits, orchards, vinyards, forestry

SUMMARY
.1 Pomaceous fruits
.2 Drupaceous or stone fruits
.3 Citrous fruits: orange family, etc.
.4 Minor fruits
.5 Nut
.6 Palmaceous fruits
.7 Small fruits
.8 Grapes
.9 Forestry

1 Pomaceous or pome fruits
.11 Apple Pyrus malus
.12 Crab apple
.13 Pear Pyrus
.14 Quince Cydonia
.15 Medlar Mespilus
.16 Loquat, Japan plum Eriobotrya Japonica

2 Drupaceous or stone fruits Prunus
.21 Apricot Prunophora
.22 Plum Prunophora
.23 Cherry Cerasus
.24 Racemose cherries: wild cherry, choke cherry, padins, sand cherry
.25 Peach Amygdalus or Prunus Persica
.26 Nectarin (variety)

3 Citrous fruits: orange family, etc.
.31 Orange Citrus aurantium
.32 Varieties
.321 Trifoliate C. trifoliata
.322 Mandarin, tangerine, kid glove orange C. nobilis
.323 Grape fruit, pomelo, shaddock C. decumana
.324 Kumquat C. Japonica
.33 Citron group C. medica
.331 Citron var. genuina
.334 Lemon " limon
.337 Lime " acida or limetta
.34 Other
.341 Glycosmis G. aurantiaca
.342 Lime berry, bergamot lime Triphasia trifoliata or aurantiola
.343 White sapota, cochil sapota Casimiroa edulis
.36 Moraceous fruits Mulberry family
.37 Fig Ficus Carica
.38 Mulberry Morus
.39 Bred fruit Artocarpus incisa
### Minor fruits

<table>
<thead>
<tr>
<th>Decimal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.41</td>
<td>Anonaceous fruits, custard apple family</td>
</tr>
<tr>
<td>.411</td>
<td>Sour-sop <em>Anona muricata</em> or <em>Asiatica</em></td>
</tr>
<tr>
<td>.412</td>
<td>Sweet-sop, sugar apple <em>A. squamosa</em></td>
</tr>
<tr>
<td>.413</td>
<td>Cherimoya; Jamaica apple <em>A. cherimolia</em></td>
</tr>
<tr>
<td>.414</td>
<td>Pond apple; mamon <em>A. glabra</em> or <em>laurifolia</em></td>
</tr>
<tr>
<td>.415</td>
<td>Custard apple; bullocks hart <em>A. reticulata</em></td>
</tr>
<tr>
<td>.418</td>
<td>Northern papaw <em>Asimina triloba</em></td>
</tr>
<tr>
<td>.42</td>
<td>Myrtaceous fruits, myrtle family</td>
</tr>
<tr>
<td>.421</td>
<td>Guava <em>Psidium</em></td>
</tr>
<tr>
<td>.422</td>
<td>Rose apple; jamrosade <em>Eugenia jambos</em></td>
</tr>
<tr>
<td>.423</td>
<td>Surinam cherry: Cayenne cherry; pitanga <em>Eugenia uniflora</em> or <em>Michelii</em></td>
</tr>
<tr>
<td>.43</td>
<td>Sapotaceous fruits, star apple or sapodilla family</td>
</tr>
<tr>
<td>.431</td>
<td>Sapodilla, naseberry <em>Achras sapota</em></td>
</tr>
<tr>
<td>.432</td>
<td>Marmalade tree or plum <em>Mammae sapota</em>, <em>Lucuma mammosa</em></td>
</tr>
<tr>
<td>.433</td>
<td>Star apple <em>Chrysophyllum Cainito</em></td>
</tr>
<tr>
<td>.44</td>
<td>Anacardiaceous fruits, cashew family</td>
</tr>
<tr>
<td>.441</td>
<td>Mango <em>Mangifera Indica</em></td>
</tr>
<tr>
<td>.442</td>
<td>Jew plum, Pomme Cythere, sweet Otaheite apple <em>Spondias dulcis</em></td>
</tr>
<tr>
<td>.443</td>
<td>Spanish plum <em>Spondias purpurea</em></td>
</tr>
<tr>
<td>.45</td>
<td>Ebenaceous fruits; ebony family</td>
</tr>
<tr>
<td>.451</td>
<td>Kaki; Japan persimmon <em>Diospyros Kaki</em></td>
</tr>
<tr>
<td>.452</td>
<td>Persimmon <em>D. Virginiana</em></td>
</tr>
<tr>
<td>.46</td>
<td>Leguminous fruits; bean family</td>
</tr>
<tr>
<td>.461</td>
<td>Tamarind <em>Tamarindus Indica</em></td>
</tr>
<tr>
<td>.462</td>
<td>St Johns bred; carob; karoub; algaroba <em>Ceratonia siliqua</em></td>
</tr>
</tbody>
</table>

### Nut fruits Nuciculture

<table>
<thead>
<tr>
<th>Decimal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.51</td>
<td>Walnut <em>Juglars</em></td>
</tr>
<tr>
<td>.511</td>
<td>Persian or English walnut <em>J. regia</em></td>
</tr>
<tr>
<td>.512</td>
<td>Black walnut <em>J. nigra</em></td>
</tr>
<tr>
<td>.513</td>
<td>Japan walnut <em>J. Sieboldiara</em></td>
</tr>
<tr>
<td>.518</td>
<td>Butternut, white walnut <em>J. cinerea</em></td>
</tr>
<tr>
<td>.52</td>
<td>Hickory nut <em>Hicoria</em></td>
</tr>
<tr>
<td>.521</td>
<td>Pecan <em>H. pecan</em></td>
</tr>
<tr>
<td>.522</td>
<td>Shagbark or little shelbark hickory <em>H. ovata</em></td>
</tr>
<tr>
<td>.523</td>
<td>Big or bottom shelbark hickory <em>H. laciriosa</em></td>
</tr>
<tr>
<td>.524</td>
<td>Pignut <em>H. glebra</em></td>
</tr>
</tbody>
</table>
AGRICULTURE

Chestnut Castanea
European chestnut $C. \text{sativa or } \text{vesca}$
American chestnut $C. \text{americana}$
Japan chestnut $C. \text{crenata or } \text{Japonica}$
Chinkapin $C. \text{pumila}$
Filbert, hazelnut, cobnut Corylus
Almond Prunus
Almond $P. \text{amygdalus}$
Russian almond $P. \text{nama}$
Tropical almond Terminalia Catappa
Miscellaneous nuts
Litchi, Leechee Nephelium Litchi
Ginkgo G. biloba
Cashew Anacardium occidentale
Pistachio Pistacia vera
Peanuts Arachis hypogaea

Palmaceous fruits
Palm family and miscellaneous tree fruits
Coconut, coco palm Cocos nucifera
Date palm Phoenix dactylifera
Oliv Olea Europea
Pomegranate Punica granatum
Papaw; melon papaw, melon zapote Carica
Spanish lime Ginep Melicocca bijuga
Alligator or Avocado pear Persea gratissima
Aquacata, midshipman's butter
Mammee apple, S. Domingo apricot Mammea Americana
Hovenia
Jujube Zizyphus
Myrica
Seagrape; shore grape Coccoobra uvifera
Pigeon plum Coccoobra Floridara
Otaheite gooseberry Phyllanthus distichus
Strawberry tree Arbutus unedo

Small fruits, bush fruits and herblike fruits
Rubaceous, cane or bramble fruits Rubus
Raspberries
European Black cap Red
Oriental raspberries, wineberry, Japanese wineberry
Blackberry
Loganberry
Dewberry
Northern Southern Pacific
Ribaceous fruits  Groselles  Ribes

Currants

Garden or common currant  R. rubrum

European  R. nigrum

American  R. Americanum

California  R. bracteosum

Buffalo, Missouri, flowering or golden currant  R. aureum

Gooseberry

European  R. grossularia

American  R. oxycanthoides

Huckleberry, blueberry, etc.

Blue tangleberry or dangleberry  Gaylussacia frondosa

Black huckleberry  G. resinosa

Low or dwarf blueberry  Vaccinium Pennsylvanicum

Canadian blueberry  V. Canadense

Low or pale blueberry  V. vacillans

Swamp blueberry, high huckleberry  V. corymbosum

Miscellaneous bush fruits

Juneberry  Amelanchies

Buffalo berry  Lepargyraea argentea  Shepherdia argentea

Goumi  Elaeagnus longipes or multiflora

Caraunda  Christ's thorn  Carissa Carandas

Cranberry bush, high or tree cranberry  Viburnum opulus

Barberry  Berberis

Elderberry

Strawberry  Fragaria

Garden strawberry, pine strawberry  F. chiloensis

Hautbois strawberry  F. moschata

Alpin and perpetual strawberry  F. vesca

Scarlet or Virginia strawberry  F. Virginiana

Cranberry  Vaccinium macrocarp, etc.

Nonwoody or herblike fruits

Musacious fruits  Musa

Banana  Musa sapientium

Plantain banana, cooking banana, Adam's fig  var. paradisiaca

Pineapple  Ananas sativus

Cactaceous fruits

Prickly pear, tuna  Opuntia tuna

Indian fig  Opuntia ficus Indica

Barbados gooseberry, lemon vine, blad apple  Pereskia aculeata

Miscellaneous herblike fruits

Cyphomandra; tree tomato  Cyphomandra betacea

Ceriman  Monstera deliciosa
### Summary

1. Edible roots, including tubers and bulbs
2. Tubers and bulbs
3. Edible leaves or flowers
4. Greens, pot herbs
5. Salads
6. Edible seeds and fruits
7. Condimental and sweet herbs
8. Mushrooms, truffles
9. Floriculture

### Edible Roots

<table>
<thead>
<tr>
<th>Section</th>
<th>Item</th>
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</thead>
<tbody>
<tr>
<td>.1</td>
<td>Beet</td>
</tr>
<tr>
<td>.11</td>
<td>Beet</td>
</tr>
<tr>
<td>.12</td>
<td>Turnip</td>
</tr>
<tr>
<td>.126</td>
<td>Rutabaga</td>
</tr>
<tr>
<td>.127</td>
<td>Swedish turnip</td>
</tr>
<tr>
<td>.128</td>
<td>Turnip-rooted cabbage</td>
</tr>
<tr>
<td>.127</td>
<td>Navew, French turnip</td>
</tr>
<tr>
<td>.128</td>
<td>Celeriac, turnip-rooted celery</td>
</tr>
<tr>
<td>.13</td>
<td>Carrot</td>
</tr>
<tr>
<td>.136</td>
<td>Turnip-rooted chervil</td>
</tr>
<tr>
<td>.137</td>
<td>Chicory</td>
</tr>
<tr>
<td>.14</td>
<td>Parsnip</td>
</tr>
<tr>
<td>.15</td>
<td>Radish</td>
</tr>
<tr>
<td>.16</td>
<td>Salsify, oyster plant, vegetable oyster</td>
</tr>
<tr>
<td>.166</td>
<td>Scorzonera, black salsify</td>
</tr>
<tr>
<td>.167</td>
<td>Scolymus, Spanish salsify</td>
</tr>
<tr>
<td>.2</td>
<td>Edible tubers and bulbs</td>
</tr>
<tr>
<td>.21</td>
<td>Potato</td>
</tr>
<tr>
<td>.22</td>
<td>Sweet potato, Spanish potato, batata</td>
</tr>
<tr>
<td>.23</td>
<td>Yam</td>
</tr>
<tr>
<td>.24</td>
<td>Jerusalem artichoke, topinamber</td>
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<tr>
<td>.25</td>
<td>Onion</td>
</tr>
<tr>
<td>.26</td>
<td>Other plants of Allium family</td>
</tr>
<tr>
<td>.261</td>
<td>Leek</td>
</tr>
<tr>
<td>.262</td>
<td>Garlic</td>
</tr>
<tr>
<td>.263</td>
<td>Shallot, scallion</td>
</tr>
<tr>
<td>.264</td>
<td>Cibol, Welsh onion (French, ciboule)</td>
</tr>
<tr>
<td>.265</td>
<td>Cive, chive</td>
</tr>
</tbody>
</table>
Edible leaves, flowers and stems

- Asparagus
- Artichoke
- Cardoon, chardoon
- Sea kale
- Cabbage
- Kale or borecole
- Collards
- Kohlrabi
- Cauliflower
- Broccoli
- Brussels sprouts

Greens
- Spinach
- Chard, sea-kale beet, Swiss chard
- Orach, French spinach
- Mustard
- Sorrel
- Dock
- Dandelion
- Purslane (pusley)

Rubarb

Salads

Bitter salads
- Dandelion. See 635.46
- Cardoon. * 635.327

Lettuce *Lactuca sativa*

Celery *Apium graveolens*

Chicory or succory *Cichorium intybus*
- Also used as pot herb and root

Endive *Cichorium endivia*

Piquant or warm salads
- Class any species or variety with its genus; e.g. bitter cress, car damnus amara with 635.562

Water cress *Nasturtium officinale*

American water cress *Cardamine rotundifolia*

Garden cress *Lepidium sativum*

Winter cress *Barbaria vulgaris*

Swine cress *Senebiera coronopus*

Indian cress *Tropaeolum majus*
- For mustard see 635.44

Neutral salads
- Lamb's lettuce, corn salad, *fetticus*
AGRICULTURE

635.6 **Edible seeds and fruits**

.61 Melons

.611 Muskmelon: cantaloup, nutmeg, winter, etc.

.615 Watermelon: preserving or “citron”

.618 Zit kwa, wax gourd

Chinese preserving melon, Chinese watermelon

.62 Squashes

.621 Summer or bush squashes

Crooknecks, scallop or pattypan, pineapple

.622 Fall and winter, or longrunning squashes

Canada crookneck, Hubbard

.623 Vegetable marrow

.624 Pumpkins

.627 Luffa, rag gourd, dishcloth gourd, vegetable sponge

.63 Cucumbers Gherkins Martynia

.64 Tomato

.646 Egplant, guinea squash, aubergine

.647 Physalis, husk tomato, strawberry tomato

.648 Okra or gumbo

.65 Beans

.651 Broad bean

.652 Kidney bean: garden, snap and string bean; haricots

.653 Lima or sugar bean

.654 Dolichos

.655 Soy or soja bean See 633.34

.66 Peas

.667 Chick pea *Cicer arietinum*

.668 Lentils *Lens esculenta*

.67 Sweet corn

.677 Pop corn

.7 Condimental and sweet herbs

For the regular condiments of commerce see 633.84 and 664.5

.71 Seasoning leaves and flowers

.72 Garden mint, spearmint

.74 Flavoring for pickles, vinegar, etc.

Dil, tarragon, samfire, costmary

.75 Seeds for flavoring

Anis, coriander, caraway

.76

.77

.78 Garnishes: parsley, leaf chervil

.8 **Mushrooms, truffles**

.9 **Floriculture**
636 Domestic animals
.08 Zootechny

The breeding and keeping of animals in domestication

SUMMARY

.081 Selection Economics
.082 Formation of stock, races, breeding
.083 Care
.084 Feeding
.085 Food; general questions
.086 Foods; divided like 633
.087 Other foods
.088 Utilization and training
.089 Hygiene Diseases

081 Selection Economics, etc.

1 Selecting and acquiring stock

11 Capture

Of wild animals and of domesticated animals allowed to run wild.
" Round up " of western ranches

111 Capture by snares, traps, nets, etc.
112 " " weapons, guns, etc.
113 " " help of other animals, dogs, horses, ferrets, hawks, etc.

12 Purchase Original cost

13 Barter Horse trade

14 Standards of excellence Points

15 Soundness Imperfections Blemishes

16 Estimating age

2 Brands and branding and other marks of ownership

28 Catalogs of brands

3 Stock farms Ranches

31 Descriptions of individual farms

Alfabetic

6 Finances and accounts

7 Expenses

71 Supplies, food, etc.
73 Wages
75 Insurance

8 Returns, yield, profit

81 Weight tables
87 Stock farm catalogs
88 Catalogs of sales
## AGRICULTURE

### 636.082 Formation of stock
- Races, breeding, heredity, etc.
- Character of herd, flock, colony, etc.
- Species, races, breeds, strains; heredity, variation
- Herd books, stud books, flock books, etc.
- Composition of herd, flock, colony; sexes
  - Including notes and articles about the different kinds

| Male | Female | Neuter (of bees) |
| Castrated male | Gelding | female |

### 1 Breeding Reproduction
- Breeding in and in
  - Line breeding. Animals closely related by blood
- Cross breeding
  - Hybrid
  - Individuals of different species
- Métissage
  - Individuals of different races

### 2 Choice of parents
- Generation
  - Sexual excitement: heat, rut
  - Sexual union
  - Impregnation
    - Fusion of male and female element

### 3 Laying of eggs
- Nests

### 4 Incubation Hatching
- Natural
- Artificial Incubators

### 5 Care of animals
- Barding and installation
  - Stalls, boxstalls, pens, nests
- Care of stables or houses
  - Cleanliness, bedding
- Care of animals
  - Grooming, clipping
- Special care of young
  - Brooders 636.5
- Care of feet
  - Shoeing
- Care of animals outdoors
  - Shepherds, watch dogs, etc.
- Acclimatization
  - Protection from cold: blankets
  - " heat
  - " wind and rain
- Care of harnesses and accouterments
Feeding

1 Feeding of young
   11 Suckling
   12 Weaning
   13 Hand or artificial feeding

2 General methods of feeding
   21 In stables, houses, etc.
   22 In pasture
   23 Mountain pastures, ranches
   23 Special provisions: water, salt, etc.

4 Ordinary, rational feeding
   41 Rations Amount and proportion
   42 Kind and times of feeding
   45 Substitutions Variety

5 Feeding for special purposes
   51 For breeding time
   52 For increase production: milk, eggs, etc
   53 For work
   55 For fattening
   56 Forced feeding, cramming

Food

1 Composition
2 Nutritiv value
3 Food experiments
4 Commercial value
5 Different kinds of food
   For individual foods see 638.085 and .086
   51 Fresh or green fodder
   52 Ensilage
   54 Dry fodder
   Hay, straw, grains
   57 Prepared foods
   Industrial residues Cakes of oily grain or fruit

6 Preparation and use of food
9 Adulterations of foods for animals

Foods

Divided like 633
13 Oats
15 Corn
2 Forage crops, hay
25 Straw
255 Cornstalks
32 Clover
41 Beets
AGRICULTURE

636.087 Other foods

4 Fruits
  Divided like 634

5 Garden crops
  Divided like 635. Use only for material not covered by subdivisions of 633

6 Animal food

7 Mineral foods: salt, condiments

.088 Utilization and training of animals

1 For breeding purposes

2 For work

3 For production of food: meat, eggs, etc.

4 For animal products
  Wool, skins, feathers, etc.

6 Breaking, training, etc.

61 To saddle, etc. for carrying purposes

62 To harness, for work

66 Special training

661 Carrying messages

662 Hunting

.089 Hygiene, diseases, etc.

Hygiene is usually better class 614.0, and Diseases 619

1 Anatomy

2

3 Hygiene

5 Remedies, materia medica

6 Diseases

7 Surgical operations

.1 Horse

.11 Oriental horse
  Arabian, Persian, Tartar, Turkish, Barb

.12 Speed horse, race horse, light type, 'hot blooded'

.121

.122 English thoroughbred or running horse

.127 Other European

1 Russian Orloff trotters

.128 American trotter or pacer

1 Morgan

.13 Saddle horse
  Hunter; military (charger, cavalry horse, etc.), American saddle, Kentucky saddle, cob, park hack, palfrey
Coach or carriage horses

Harness horse

.142 English coach
  1 Cleveland bay
  2 Yorkshire coach
  3 Hackney

.143 German coach
  East Prussian or Trakehner, East Friesland, Rhenish Prussian, Mecklenburg, Schleswig, Hanoverian, Oldenburg, Holstein

.144 French coach, 'demisang'
.145 Italian: Corsican
.15 Draft horse, cart horse, heavy type, 'cold blooded'

.152 English
  1 Clydesdale
  2 Suffolk punch or draft
  3 Black or shire draft

.154 French and Belgian
  1 Norman, Percheron
  2 Ardennais
  3 Bouloannais
  4 Breton
  5 Nivernais
  8 Belgian draft, Flanders dray, Flemish horse

.158 American draft
  Conestoga

.16 Ponies

.161 Ponies for special purposes: polo

.162 Scotch, English and Welsh
  1 Shetland
  2 Galloway
  4 Exmoor
  5 Dartmoor
  6 New Forest
  9 Welsh

.168 American
  Mustang, bronco, Indian pony

.18 Allied animals

.182 Ass: jackass, donkey, burro
  Asiatic, Catalonian, Italian, Maltese

.183 Mule, hinny

.184 Zebra, quagga, etc.

.185 Zebrule, zebroid
636.2 Cattle Greater ruminants

May be divided like 636.081-.089, but for utilization use .21

.21 Uses
Subdivide like 636.088 See note above

.22 English cattle

.221 Old stocks
Forest cattle, wild white, Chillingham

.222 Beef breeds

1 Short horns
2 Durham
3 Teeswater
4 Lincolnshire
5 Red shorthorn
6 Hereford whitefaced
7 Polled Hereford
8 Sussex

.223 Scotch, Welsh and Irish beef breeds

1 Aberdeen Angus
Angus doddie, Buchan humbies, polled Aberdeen

2 Galloway
Blue gray

3 West highland: Kyloe

6 Black Welsh

.224 Dairy breeds

1 Channel island cattle
2 Alderney
3 Jersey
4 Guernsey

.225 Scotch and Irish dairy

1 Ayrshire
2 Dunlop
3 Cunningham

6 Kerry
Dexter Kerry, Dexter shorthorn

.226 Dual purpose breeds

1 Devon
North Devon, Rubies, South Devon

2 South Hams
Hammers

3 Polled Durham

4 Red polled
Norfolk

6 Suffolk

7 East Anglian

8 Longhorn (English)
Dishley
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<td>Allied animals</td>
<td>European bison</td>
</tr>
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AGRICULTURE

636.293 Buffalo or water buffalo *Bubalus*

- Bhains, mhains, arna, arni (Hindu)
- Moonding (Sudan)
- Karbo or Karbon (Malay)
- Carabao (Philippines)

.294 Deer, reindeer

.295 Camel: Arabian, Bactrian; dromedary

.296 Lama, llama, alpaca

.297 Yak

2 Gayal, gaur

636.3 Sheep, goats Smaller ruminants

May be divided like 636.081–089, but for utilization use .31

.31 Uses

- Subdivide like 636.088

.32 English breeds

.321 Longwool breeds (coarse wool)

1 Cotswold
2 Leicester
   - English Leicester, New Leicester or Dishley, Bakewell's Leicester
3 Border Leicester
   - Halfbred or Leicester-Cheviot or Cheviot-Leicester or Upland Leicester
4 Lincoln
5 Kent or Romney marsh
6 Wensleydale
   - Bluefaced Wensleydale, Wensleydale longwool, Wensleydale blueface, Teeswater
7 Devon longwool, Southam nolts, Bampton nolts
8 South Devon or South: Dum
9 Roscommon

.322 Shortwool breeds

- Medium-wool; middle-wool; down sheep; mutton sheep

1 Southdown, Sussex, Sussex down
   - Including Underhill and Upperdown
2 Hampshire down, improved Hampshire down, Wiltshire brook,
   - Berkshire knot, Wiltshire horned
3 Dorset or West country down, Dorset horn, horned Dorset
4 Oxford or Oxfordshire down
   - Before 1859 called Down-Cotswold
5 Suffolk down, old Norfolk, horned Norfolk
6 Shropshire down, Morfe common

.3241 Dorset and Somerset horn
2 Ryeland or Lempster
3 Clun Forest, Wicklow (Irish)
4 Kerry Hill (Irish)
5 Radnor
Mountain breeds

1. Cheviot
2. Blackfaced
   Scotch blackface or blackfaced Scotch, Linton Forest, Lammermuir, Tweeddale, blackfaced highland
3. Herdwick
4. Lonk or Lank
   Lancashire blackfaced
5. Penistone
6. Limestone, Limestone Crag
7. Ruf Swaledale
8. Shetland, Orkney, Hebrides

.3261
9. Derbyshire gritstone
2. Dartmoor
3. Exmoor
cornell horn

German and Dutch breeds
Swiss

.331
1. Low country or marsh sheep
   Hornless and short tailed
   Dutch Texel
   Friesian
   East and North Friesland, Eiderstedt, Ditmarsh, Butjading, Zealand

7. Northeast German
   Vaga, Elbingen

.333
1. Upland sheep, heath sheep (German heidsmucken)
   Pomeranian or Polish, Mecklenburg (Spiegelschaf)
   Hessian
   Bavarian or Zaupel
   Franconian (Frankenschaf)
3. Rhine
4. Hanoverian, Münster
5. Styrian or Carinthian

.34
1. French and Flemish breeds
   Central plateau breeds
   Auvergne
   La Marche
   Limousin
   Saintonge

.344
1. Loire basin and north France breeds
   Berrichonne (Crevant, Cher, Indre)
   Sologne (Sologne)
   Comtoise (Franche-Comté)
   Ardennes (Poitou)
   Percheron (Perche)
   Angevin (Anjou)
   Cotentin
   Bretagne
   Charmoise (Loir et Cher)
**AGRICULTURE**

636.346 Pyrenese breeds

1 Basquaise
2 Béarnaise
3 Landaise
4 Gasconne
5 Lauraguaise
6 Lot
7 Albigeois
8 Aveyron

Varieties: Larzac, Lacaune, Otempe, Cevennes, Causses

9 Barbarins

Varieties: Millery, Lahune, Marthold

.35 Italian

Neapolitan: long, broad or fat taill Bergamasker; Paduan; Italian or Sardinian, mountain

.36 Spanish breeds Merinos, etc.

.361 Escurial or Estramadura

.362 Guadaloupe

.363 Pavlar

.364 Infantado

.365 Nigretti

.366 Other Spanish

Aguirre, Atwood, Montares, Leonese, Churra

.367 Other European merino breeds

2 British

3 German

31 Prussian

32 Hanoverian

33 Saxon

34 Silesian

37 Hungarian

4 French: Rambouillet

8 Danish, Swedish, etc.

.368 Other merino breeds

1 American

2 Delaine

3

4 Australian

.37 Other European sheep

.371 Russian

.372 North Europe: Scandinavia, Iceland, Faroe islands

Ovis brachyura borealis

.373 Southeast Europe

Long tail, broad or fat tail: Macedonian or Clementine

Long tail and small tail, mixt wool: Cretan, Macedonian, Wallachian, Moldavian or Hungarian
DECIMAL CLASSIFICATION

636.38 Other countries
   .385 Asiatic
       Short tail, horned: Tartar, Kalmuck, Kinghir, Buriat fat rump (Ovis steatopyga); stump tail (Ovis brachycerca). See also 636.386
       Short tail, hornless: Mecca fat rump, Chinese (ongtischaf), Persian
       Long tail, broad or fat tail, dumba (Ovis platyura): Syrian, Anatolian, Karamanian or Levant, Persian, Bokhara
       Arabian or Bedouin
       Kabardian or Circassian

   .386 African sheep
       Long, broad or fat tail: Egyptian, Tunisian, Berber or Algerian
       Long and small tail, heavy fleece: Bischarin (Nubian), dinka (sheep with manes, Ovis africana), high leg or Guinea sheep (Konzo), Morvan (longipes), Libyan or Pezzan, Zun or Angola
       Stump tail (Ovis brachycerca). See also 636.385

   .39 Goats
       May be divided like 636.081-.089, but for utilization use .391

   .391 Uses
       Subdivide like 636.083. See note above

   .392 British goats
       Irish goat, longhaird
       English goat, shorthaird

   .393 German and Austrian goats
       Hartz mt, Hinterwald, Hungarian, Langensalza, Saxony, Schwarzwald, Starkenburg, Westphalian, Wiesental

   6 Swiss goats
       Alpine or common goat
       Blackneck Valais, Schwarzhals or Schwarztal, Glacier, saddle Guggisberg

   7 Toggenburg

   8 Appenzell or flat-heded

   9 Saanen or Sarnen, Gessenay or Gassenay

   .394 French goats: Tarentaise

   .395 Italian goats: Maltese

   .396 Spanish goats
       Hornless, Granada, Malaga
       Shorthaird reds, Spanish-Maltese

   .397 Other European goats

   .398 Other goats

   1 American goats

   5 Asiatic goats
       Tibet (China), Angora (Persia), Syrian

   54 India
       Kashmir (or shawl Tibet), Nepal (variety of Nubian), Surats, Tarh (shaggy brown Himalayan goat)

   6 African goats
       Abyssinian (or Nubian), Guinea

   62 Egypt
       Egyptian (or Nile), Theban, Zaraibi
636.4 Swine

May be divided like 636.081-.089, but for utilization use .41

Uses

May be divided like 636.088. See note above

.42 English breeds

.421 Small black breeds

Use also for small breeds in general

1 Essex
2 Sussex
3 Suffolk

.422 Small white breeds

1 Windsor
2 Small Yorkshire
3 Coleshill

.424 Large white breeds

1 Yorkshire
2 Lancashire
3 Cumberland
4 New Leicester
5 Lincolnshire
6 Suffolk

.426 Medium colored breeds

Use also for medium breeds in general

1 Black Berkshire
2 Red Tamworth
3 Red Berkshire

.427 Medium white breeds

1 Middle Yorkshire
2 " Suffolk

.43 German and Dutch breeds

Lowland breeds Southern Germany

Use this also as general number for short-ear swine

Bavarian Franconian Halle Suabian
Düsseldorf Glanschwein Luzern Württemberg

.432 Hungarian short ear

Carpathian, Bergschlag
Bakonyer or Bakouner
Szalontaer

.433 Western and Northern Germany

Use this also as general number for large-ear. Large Polish, Meissner

.434 German marsh swine, large ear

Danish Islands Holland Mecklenburg Schleswig-Holstein
Hanover Jutland Oldenburg Westphalia
French

Large-ear French Celtic breed
Northeastern France
Champagne

Northwestern France
Breton
Norman Auvergne
Craonnoise
Mancelle
Angevin

Southwestern France Spanish origin
French Perigord
Quercy
Limousin
Gasconne
Béarnaise

Southwestern France Spanish origin

Southeastern France
Provence
Roussillon
Languedoc
Bressane

Swiss
Grison Bündener

Italian, Neapolitan, Maltese, Tuscan, Romagnole

Spanish and Portuguese

Other European
Curly bristles Southeastern Europe

Serbian Syrmian
Mongolicza or Mangalicza
Curly-bristle Hungarian
Milos
Sumadia or Obrenovics

Croatian
Rumanian, Moldavian
Anatolian
Albanian

Russian

Other countries
American breeds
Poland-China
Red Jersey or Duroc-Jersey

Asiatic: Chinese, Tonkin, Siamese

Africa
Cape breeds, Sennaar, Guinea

Oceania
Papuan
Agriculture

636.5 Poultry

May be divided like 636.081-.089, but for utilization use .51.

.51 Uses

Subdivide like 636.088; e.g. 636.513 Capon. See note above.

.52 English breeds

.521 Dorking
.
.522 Sussex or Surrey
.
.523 Kent
.
.524 Orpington
.
.525 Redcap
.
.526 Other English

Lincolnshire buffs
.
.
.527 Scotch grays
.
.528 Other Scotch

Scotch bakers or dumpies Jumpers Dumbartonshire
.
.
.53 German and Dutch breeds

.531 Hamburg
.
.532 Lakenfelder
.
.533 Ramelsloher
.
.534 Styrian
.
.535 Bohemian
.
.536 Other

East Friesian, Westphalian, Thuringian, Alsatian, Nassau, Augsburg, etc.

Magyar
.
.
.54 French and Belgian breeds

.541 Crêvecoeur
.
.542 Houdan
.
.543 La Flèche Le Mans Caux
.
.544 La Bresse, Louhans, Bourg, Bourbourg, Barbézieux, Coussade, Courtes-pattes
.
.545 Faverolles
.
.546 Gournay, Pavilly, Caumont
.
.547 Other

Coucou, French cuckoo, Mantes, Estaires
.
.
.548 Belgian breeds

Campenes or Campines, or Brackel; Brabant, Huttenogen

Bredes or Guelders or Guilderlands. Coucou de Malines, Bruges
.
.
.55 Italian breeds

Use also as general number for Mediterranean breeds
.
.
.551 Leghorn
.
.552 Paduan or Polish (in England)

Also called Pompadour, Padouse, Polanders
.
.
.553 Polverara
.
.
.554 Ancona
636.56 Spanish breeds
   .561 Castilian
   .562 Minorcan
   .563 Black Spanish
   .564 Blue Andalusian
   .565 Prat

.57 Other European
   .571 Pavloff (Russian)
   .572 Siberian fetherfooted
   .573 Sultans

.58 Other countries
   .581 American breeds
      1 Dominican, Dominique, Dominiker
      2 Jersey blue
      3 Bucks county
      4 Java
      5 Buckeye
      6 Winnebago
   .582 Plymouth rock
   .583 Wyandotte
   .584 Rhode Island red

.585 Asiatic breeds
   1 Cochin China Shanghai
   2 Brahmaputra Brahma, Gray Chittagong
   3 Langshan
   4 Malay
   7 Japanese fowls
      White Yokohama Phoenix

.587 Special varieties
   1 Bantams
      11 Common
      12 Game
      13 Polish
      14 Asiatic
      15 Japanese

.588 Other
   1 Game
      11 Azeel or Aseel
      12 English game
      13 Sebright (a bantam only)
      14 Cornish Indian, or Indian (in England), or Cornish (in America)
      15 Malay
   2 Deform
      Rumless or tailless or Waltikiki; Turkey necks, naked necks, Gillikins, nude
      3 Silkies
      4 Frizzles
AGRICULTURE

636.59 Other fowls
   .592 Turkey
      1 Original species
         American, or N. American 'original' or wild turkey (meleagris Americana)
      11 Mexican wild turkey (meleagris Mexicana)
      12 Honduras wild turkey (meleagris ocellata)
      14 Crested turkey
      2 Bronze
         English Cambridge turkey
      3 Narragansett
      4 Buff
      5 Slate or Austrian whites (in England)
      6 White, or White Holland (in America)
      7 Black, or Norfolk or black Norfolk (in England)
      8 Bourbon red, or Bourbon butternut, or Kentucky red

.593 Guinea fowl
   .594 Fezant
   .595 Peacock
   .596 Pigeons
      1 High class fancy pigeons
         Pouters
         11 English carrier
         13 Runt
         14 Barb
         15 Shortface tumbler
      2 High class toy pigeons
         Fantail
         21 Owls
         23 Turbits
         24 Frilbacks
         25 Jacobins
         26 Trumpeters
         27 Scandaroons
         28 Florentine amalgamated, Hen
         31 Dragoon, Horsemans
         32 Priests
         33 Brunswick
         34 Oriental frils
         35 Homers, white homing, Antwerp
      4
      5 Other toy pigeons
DECIMAL CLASSIFICATION

636.597 Ducks
2 English breeds
21 Aylesbury
22 Indian runner
23 Blue Swedish
4 French breeds
Rouen, colord Rouen, also called Rhone and Roan
8 Other countries
81 American
82 Cayuga, black Cayuga
Also called Big black and Lake duck
83 Muscovy
Colord Muscovy, Musk duck, white Muscovy
85 Asiatic: Pekin, white Pekin
By Chinese called Mandarin

.598 Goose
3 German: Emden, white Emden
4 French: Toulouse, gray Toulouse
7 Sebastopol
8 Other countries
81 Wild or Canadian Gray wild
85 Chinese: white, brown
86 African
Also called Indian, gray African and Guinea
87 Egyptian Colord Egyptian
89 Spurwing (Australia)

.6 Birds
For poultry see 636.5. Here are clast domesticated birds useful for plumage or work, and pet birds

.61 Birds useful for their fethers
For geese see 636.598

.611 Ostriches

.62

.68 Song and ornamental birds
.681 Swan
.686 Cage and aviary birds

.7 Dogs
May be subdivided like 636.081—.089, but for uses see 636.72—.765

.71 Breeds
.72 Utility dogs
.73 Draft and other work dogs
.74 Watch dogs, herd dogs
.75 Hunting and sleuth dogs Carrier dogs
.76 Pet dogs
.765 Toy dogs
.77 Dogs in art
See also 758 Animal painting
.78 Dogs in literature
Essays, stories, biografy, etc.
.79 Other topics
### 636.8 Cats

**.81** Breeds

**.87** Cats in art  
See also 758 Animal painting

**.88** Cats in literature  
Essays, stories, etc.

**.9** Other: rabbits, guinea pigs, etc.

### 637 Dairy and dairy products

#### .1 Milk

##### .11 Economics

##### .113 Dairy farms  
Description of individual farms

##### .116 Finances and accounts

##### .117 Expenses

##### .118 Returns

##### .1185 Sale price

##### .12 Production and composition

##### .121 Choice of dairy cows

##### .122 Special food

##### .124 Milking  
Milk pails, milk stools, milking tube

##### .125 Artificial milkers

##### .127 Composition of milk

1. **Fat**

2. **Lactose, milk sugar, lactin; galactin**

3. **Casein**

6. **Milk testing**  
   - Creamometer
   - Lactobutyrometer
   - Lactodensimeter
   - Lactoscope
   - Lactocrite
   - Lactometer
   - Percent tube

7. **Milk analysis**

##### .13 Care of milk

##### .131 Bildings, dairies

##### .132 Installation, apparatus

1. **Refrigerating apparatus, milk cooler**

2. **Heating apparatus**

3. **Pasteurizers**

7. **Receptacles**  
   - Storage
   - Milk pans

##### .133 Preservation

1. **Chilling**

2. **Heating**

3. **Pasteurizing**

##### .135 Transportation and sale of milk  
Milk cars, milk wagons, bottles, cans
<table>
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<th>DECIMAL CLASSIFICATION</th>
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<td>Methods of packing Receptacles</td>
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<th>Utilization Consumption</th>
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<td>Including residues</td>
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| .247    | Buttermilk |

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<th>Alterations Diseases Impurities Adulterations</th>
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<td>Substitutes for butter</td>
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<td>Oleomargarin</td>
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<td>Economics</td>
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<td>.331</td>
<td>Cheese factories</td>
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<td>Installation, apparatus</td>
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<td>Curdling Rennet</td>
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<td>Milk sugar</td>
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<td>Whey butter</td>
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<td>Varieties</td>
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<td>.351</td>
<td>Rennet cheese from cow’s milk</td>
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<td>Soft cheese, fresh, unripened</td>
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<td>&quot; &quot; ripened</td>
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<tr>
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<td>English</td>
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<tr>
<td>3</td>
<td>German: Limburger</td>
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<td>French: Brie, Camembert, Neufchatel</td>
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<td>Italian: Gorgonzola</td>
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<td>Hard cheese</td>
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<td>English: Cheshire, Cheddar, Sage, Stilton</td>
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<td>German, Swiss, etc.: Emmental, Edam</td>
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<td>French: Gruyère, Gex</td>
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<td>Italian: Parmesan</td>
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<td>Rennet cheese from other than cow’s milk</td>
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<tr>
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<td>From sheep’s milk: Roquefort, Texel</td>
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<td>&quot; goat’s &quot;</td>
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<td>&quot; reindeer &quot;</td>
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<td>&quot; buffalo &quot;</td>
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<td>.356</td>
<td>Sourmilk cheese from cow’s milk</td>
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<td>Cottage cheese, Dutch cheese, pot cheese, smear-case</td>
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<td>.357</td>
<td>Sourmilk cheese from other than cow’s milk</td>
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638  Bees, silkworms, etc.

Insects whose products are useful for food or manufactures

.1  Bees, honey, wax

.2  Silkworms

.3  Cochineal

639  Hunting, trapping, fish culture, etc.

See also 799 for sporting side

.1  Hunting, trapping, game preserves, etc.

  Fox, skunk, etc. farms

.2  Fishing as an occupation

.3  Fish culture  Pisciculture

  Including turtle, terrapin, frogs

.4  Oysters and other mollusks  Shelfish

  Oyster, clam, mussel, snail, pearl fishing, scallop, quohog, cockle, winkle, periwinkle

.5  Crustaceans

  Lobsters, crabs, crawfish, shrimps, prawns

.6  Other sea food

  Sea urchin, echinus

.7

.8  Leeches
640 Domestic economy

Public as well as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offices and other commercial buildings, churches, theaters, railway stations, ships and other public gathering places.

For economics of consumption, including standards of living, see 339; for care of library buildings see 025.9. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes.

SUMMARY

641 Food, cookery
642 Serving entertainment
643 Shelter, house, home
644 Heat, light, ventilation
645 Furniture, furnishings Decoration
646 Clothing, toilet
647 Administration, household management
648 Sanitary precautions, cleaning
649 Nursery, sickroom

.1 Theories, utility, etc. .4 Essays
.2 Compends .5 Periodicals
.3 Dictionaries, cyclopedias .6 Societies
.7 Study and teaching
  Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07
  Schools and experiment stations See 630.7 Agricultural schools, farmers institutes: 630.6 Farmers associations, granges, etc; 371.42 Manual training courses: 371.6764 Laboratory equipment for home economics courses: 375.64 Place in curriculum; educational values. 640.711-74 may be used for keeping all phases of the subject in 640
  College and university courses and departments
    Schools of college grade
    Secondary courses; high school
    Elementary courses; below high school
    Extension work Courses for special needs: women's clubs, farmers' wives, etc.
    Research work: experiment stations, graduate courses
      For Sage foundation see 306
    Normal courses, teachers institutes, etc.
    Exhibits Museums

641 Food Cookery

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1

.01 Gastronomy Epicurism Pleasures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.91 and 613.25

.02 Compendes
.03 Dictionaries, cyclopedias
.04 Essays, addresses, lectures
.05 Periodicals
.06 Societies
.07 Study and teaching Cooking schools, classes and clubs
.08 Polygrafy

.09 History and description Divided like 930-999. Including foods characteristic of different peoples, but for preparation of specific dishes (i.e., recipes) peculiar to special countries see 641.59.
641.1 Food chemically considered Food values Tables
For methods of chemical analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 613.39; for dietetics see 613.2.
613.39 Treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury.
613.2 Treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods.
641.1 Translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods.

11 Organic food constituents
12 Proteids or nitrogenous foods
Meat, eggs, nuts, legumes, etc. See also 612.393
13 Carbohydrates or nonnitrogenous foods
Vegetables, cereals, fruits, sugar. See also 612.396
14 Fats, oils
See also 612.397
15 Inorganic food constituents
16 Water
17 Salts, mineral or ash constituents
3 Animal and vegetable foods
Class here also works dealing both with food material and its preparation.
Subdivided like 630 e.g. 641.33, Cereals, 641.34 Fruits
31 Prices Relativ cost
Quality and other factors in buying for table.
4 Food preservation Markets
Subdivide like 664 (not yet completed).
For commercial methods see Chemic technology 664.8-9; for transportation see 656 (subdivision not completed).
5 Cookery Cook books
General recipes, specific directions, in whatever form (books, cards, etc) for preparing food.
Distinction between 612.39, 613.2 and 641.5: in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary; in 613.2 class dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanced; in 612.39 class the scientific study of physiologic effects of various foods, regardless of benefit or injury.
See also 641.59 Recipes peculiar to special countries: 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composite dishes, ices, confectionery, beverages.
52 Breakfast
53 Luncheon, afternoon tea, supper
54 Dinner
55 Economic cookery
56 Special conditions
Under limitations of age, health, ethical or religious theories, etc.
562 Children
563 Invalids and aged Hospital cookery
564 Ethical limitations
565 Religious limitations
566 Seasons and days: Lent, fast days, etc.
567 Cults: Jews, Buddhists, etc.
DOMESTIC ECONOMY

641.57   Special situations

Adaptation to large numbers, large variety, and limitations of time, place or appliances

-572 Hotel and restaurant cooking
-573 Army and navy cooking
-574 See also 355
-575 Shipboard cooking
-576 Exclusiv of navy
-577 Camp and travel cooking
-578 Railway dining and buffet cars
-579 Itinerant companies; circuses, etc.

Methods of feeding large numbers en route or in temporary shelters

-578 Camp cooking
-579 Special utensils or fuels
-580 Cooking by oil
-581 Including oil and gas together
-582 Cooking by gas
-583 Cooking by alcohol   Chafing dish recipes
-584 Cooking by electricity
-585 Cooking by apparatus heated by steam or hot water
-586 Cooking by slowly applied heat
-587 Aladdin ovens, fireless cookers
-588 Cookery of special countries

Class here descriptions of national cookery or recipes for dishes character-

-591 Stic of special countries or regions
-592 Frigid zone and cold wether
-593 Tropics and hot wether

Divide farther like 930-999, using these numbers preferably only for reference and shelving books under 641.5-.578

.6 Cookery; clast by material

Subdivide like 641.3

.7 Cookery; clast by process

.71 Baking, roasting
-72 Braising
-73 Boiling, simmering   Soups
-74 Stewing
-75 Steaming
-76 Broiling, grilling
-77 Frying, sautering

.8 Composit dishes

Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper

.81 Entrées   Made dishes
-82 Salads
-83 Sandwiches
-84 Confectionery, candies, sweets, bonbons
-85 Ices: ice cream, sherbet, water ices, etc.
-86 Beverages   Soft drinks

See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing drinks; 613.3 Hygiene of beverages
642 Serving Table Entertaining

See also 395 Etiquet

.1 Home and family meals
  Breakfast, lunch, dinner, supper. Menus and service
  For tables of chemical constituents and calories see 641.1

.2 Refreshments
  Afternoon tea, sandwiches, ices, soft drinks

.3 Camp, picnic and travel lunches
  Lists of supplies; suitable food and dishes; packing and accessories.
  For recipes see 641.53; for camp cookery see 641.578

.4 Entertaining
  .41 Private entertainments
  .42 Small numbers
    Luncheons, dinners, etc.
  .43 Large numbers
    Receptions, balls, garden parties, etc.
  .45 Public entertainments
    Banquets, dinners, clambakes, etc.
    For history of banquets, eating, etc. see 394.1 under Public and social customs.
    For dining room see 643.4
  .48 Toasts Table anecdotes and conversation
    See also table talk in literary miscellany

.5 Table systems for large numbers
  .51 Table d'hôte
  .52 American plan
  .53 European plan, à la carte
  .54 Club: choice of combinations
    Harvard Memorial hall plan
    Harvard university plan of a fixed charge for essentials, and coupons (alimentary mileage) for extras
  .56 Mixt plan
    Table d'hôte and à la carte; table d'hôte and club
  .57 Lunch counters Cafeteria
  .58 School lunch rooms
    Management, prices, rules for payment, suitable food, freedom of choice, etc.
    See also 371.716 School meals

.6 Serving Carving
  Directions for setting table, changing courses, etc.

.7 Table furnishings
  Linen, china, glass, plate, etc. Preferably clast here, tho possible to be considered part of 645.66 Dining room furnishings

.8 Table decoration
  Selection and effective arrangement of flowers, colors, lights, centerpieces, etc.
Shelter: house, home

For types of houses and plans see 725, 727 and 723; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645.

.1 Location, site
Social and religious character of neighborhood; accessibility, railways, tramways, etc; nearness to churches, schools, markets, etc. Property increasing or decreasing in value
For hygiene of soil and grounds (city, village or country) see 614.77; for Sanitation, water supply and drainage see 628.

.2 Plan
Requirements of house for convenient and economic administration; relative situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detached rooms and buildings see 728.9; for furnishing see 615; for architectural aspect of structural parts of house (foundation, floors, walls, etc.) see 721; for wall finish see 729.31

.3 Kitchen and its equipment
.31 Plan: situation and arrangement
Relation to rest of house. Housekeeper’s requirements as guide to architect. Light. For plans see 728 Residences, and 728.93 Detacht kitchens
.32 Ventilation
Carrying off odors, etc.
.33 Stoves, ranges, cookers, hot tables, fuels
See also 641.58 Cooking by special utensils or fuels
.331 Fireplaces, open fires: turnspit, crane, etc.
.332 Coal and wood Stoves and ranges
.333 Oil and oil stoves
.334 Gas and gas stoves Stoves
Including natural gas and acetylene
.335 Alcohol and alcohol stoves Chafing dish
.336 Electricity and electric stoves
.337 Steam heated cooking appliances Steam tables
.338 Slow and fireless cookers Aladdin oven, Norwegian haybox. See also 641.588
.34 Machinery and laborsavers
.35 Utensils
.36 Pastry room
.37 Storeroom, larder Refrigerators
.38 Care of kitchen and accessory rooms
.39

.4 Dining room and adjuncts
.45 Serving room Butler’s pantry
.47 Other pantries
.48 Cupboards

.5 Other special rooms
.52 Baths, lavatories, toilets
.57 Sun rooms, solariums: sleeping balconies, etc.
.58 Laundry
Place in house; for equipment see 648. See also 728.03 Detacht laundries

.6 Laborsavers
General: bells, telephones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair
644 Heat Light Ventilation

.1 Systems of heating
Desiderata, relativ advantages for household
For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family harthstone
Open fire as household institution; mental influence
Sanitary advantages. See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 Fuels
Relativ cost; cleanness; labor involved, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood
.22 Coal
.23 Oil, gasoline, etc.
.24 Gas
.26 Electricity

.3 Systems of lighting
Fixtures, fittings, accessories. Class here general discussion covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium
See also Chemic technology 665

.311 Candles
.312 Oil
.313 Gas
.314 Acetylene
.315 Electricity
See also 621.32 Electric lighting

.319 Other

.32 Apparatus and accessories
Subdivide each, if wish, like 644.31

.321 Hand lamps Candlesticks
.322 Lanterns
.323 Table, banquet and piano lamps
.324 Standards
.325 Wall lamps Sconces
.326 Chandeliers Ceiling fixtures

.5 Ventilation
Most material belongs elsewhere; hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9. For advantages of fireplaces see 644.15
Furniture, carpets, upholstery  Decoration

For plan and furnishing treated together see 641
See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

Floor coverings: carpets, rugs
Window coverings
Window and door furnishings
Screens, shades, awnings, draperies, weather strips

General furniture
See also 645.6 Furnishings for special rooms

Chairs  Footstools
Couches  Settees
Tables
Desks
Cushions, pillows, etc.
Linen
Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

Ornaments
Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricab ac

Special rooms
For kitchen see 643.3; for laundry see 648

Hall and stairs
Hat racks, umbrella stands, etc.

Drawing room  Reception room  Parlor
Library
Study or offices
Living room
Class here furnishings of room used as combined reception room, library and living room

Dining room
For table equipment and decoration see 642.7-8

Bedrooms and nursery
Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649

Bathrooms  Lavatories  Toilets
Fittings and supplies. See also 646.7 Bathing

Other rooms
Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

Outdoor space
Verandas, balconies, roof gardens
For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors, seats, outlooks
646 Clothing Toilet
See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing a
related to economics of laboring classes 331.83; bleaching and dyeing 667.1-.3;
aCADEnatic costume 378.29; history of costume 391; clothesmaking 687; hygiene of
clothing 613.48; adulteration of textiles 614.37; for uniforms and liveries see
occupations to which they pertain.

.01 Psychology and economics of fashions
.02 Reasons for change of fashions; expense of fashionable dressing
.03 Compends
.04 Dictionaries, cyclopedias
.05 Essays, lectures, addresses
.06 Periodicals
.07 Societies
.08 Dress reform societies
.09 Study and teaching
.091 Polygrafi
.092 Adaptation to climate or season
.091 Clothing for cold weather and frigid zones
.092 " hot " " tropics
.1 Materials Textils and fibers
With reference to domestic use, or domestic use and hygiene combined. For
hygiene of materials see 613.481; for general works on textiles and fibers see
677 Manufacture of textiles
.11 Cotton
.12 Linen Flax Hemp
.13 Wool Mohair, alpaca, camel’s hair, rabbit’s hair, etc.
.14 Silk
.15 Lether
.16 Fur
.17 Other animal materials: feathers, hair, whalebone
.18 Other vegetable materials
.181 Rubber
.182 Paper
.183 Celluloid
.184
.185 Straw Raffia
.186 Other fibers: jute
.19 Other materials Tinsel, aluminum, asbestos, etc.
.2 Sewing Knitting Crochet
For fancywork see 746
.21 Plain sewing
Running, backstitching, hemming, overhanding, etc.
.24 Mending Darning
.26 Knitting and crochet Tatting
For machineknit goods see 677
.27 Crochet
.3 Clothing divided by wearers
Class here trade catalogs; e.g. Liliputian bazar catalog 646.36
See also 391 Costume; 687 Clothesmaking as a trade
.32 Clothing for men
.34 " women
.36 " children
DOMESTIC ECONOMY

646.4 Clothing divided by purpose

Including directions to amateurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42. Subdivisions .42-.48 may be farther divided by 2 Men, 4 Women, 6 Children.

.42 Underwear

.43 Outer house garments

Gowns or dresses, coats, trousers, etc.

.45 Outdoor garments

Cloaks, coats, overcoats, shawls, sweaters, etc. See also 646.5 Hedger, millinery; 646.48 Accessories: gloves, mufflers, etc.

.46 Outer footware

For hose see 646.42

.47 Garments for special purposes

Negligee, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 Accessories

Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc.

For outdoor hedgear see 646.5

.5 Millinery Outdoor hedgear

See 687 Millinery as a business

.52 Hats, caps, etc. for men

.54 Hats and bonnets for women

.55 Other outdoor hedgear for women

Hoods, scarfs, etc.

.56 Hedgear for children

.57 For boys

.58 " girls

.6 Cleaning Drycleaning

For laundry see 648.1

.7 Toilet Cosmetics Bathing

Care of hair, nails, teeth, etc.

For historic customs see 391.5-.6. See also hygiene, 613.4 care of body

647 Household organization and administration

.1 Household accounts; finances, cost

See also bookkeeping 657

.2 Personnel

Intelligence offices, employment bureau

Class here regular employees or assistants; for occasional employees see 647.29. For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 Manager

Superintendent, housekeeper, steward. See also 640.8

.22 Male employees

.23 Female "

.24 Foreign "

Races and nationalities: orientals, negroes, etc.
DECIMAL CLASSIFICATION

647.25 Indoor servis
   Cook, butler, waitress, parlor maid, lady's maid, chambermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3

.29 Other employees
   Emergency help, household registers

.3 Servis outside the house
   Coachman, gardener, laborers

.6 Wages Hours Duties

.9 Cooperative and collectiv housekeeping
   Hotels, clubs, apartments, commercial buildings, churches and other public and semipublic establishments or rooms
   See also 692.9 Bilding laws; 728 Residence architecture

.91 Tenements
   See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements

.92 Apartments, flats
   See also 728.2 Apartment house architecture

.93 Cooperative housekeeping
   See also 334.4 for economic aspect

.94 Hotels Clubs
   See also 728.4 Clubhouse architecture; 728.5 Hotel architecture

.95 Restaurants, tea rooms, etc.
   See also 642.5 Table systems for large numbers

.96 Public buildings Institutions
   General administration and care affecting health and convenience of occupants and public; janitor's duties. May be subdivided if wished like 735; e.g. 647.962 Administration of offices buildings, or 647.963 if so close classification is preferred
   See also 362 Hospitals, asylums, etc; 365 Prisons

.97 Cottage systems

648 Sanitary precautions: laundry, cleaning

.1 Laundry Washing
   Private, cooperative, public. For other processes of clothes cleaning see 646.6
   Dry cleaning. For sanitary precautions see 648.5-.6; for pests see 648.7

.11 Administration Accounts

.12 Marking

.14 Equipment
   Collectiv: specifications and cost. Class specific appliances with processes to which they belong

.15 Hand equipment

.16 Power "

.18 Supplies
   Soap, starch, bluing, powders, reagents

.2 Washing
   Requirements of temperature, ingredients, etc. for different materials Washing directions

.22 Washing by hand " machine

.25 Starching

.27 Bluing Tinting
DOMESTIC ECONOMY

648.3 Drying Driers Extractors Wringers
Confined or open air Temperature Effect on dyes of freezing, etc.

.4 Ironing
.42 By hand Sad irons
Electric and gas heated irons, etc.
.43 By machine Collar and shirt machines, fluting irons, etc.
.45 Power machinery Mangle

.5 Cleaning and sanitation of house or building
See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2

.52 Sweeping and dusting
Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.

.54 Washing
Porcelain, glass, windows, mirrors, paint, including table ware, bric-a-brac and fixtures. For washing textiles see 648.2

.55 Polishing
Silver, knobs, scuttleons, pipes and other metals

6 Disinfecting
Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public health, 614.48 Disinfecting apparatus

7 Pests; traps, poisons, insectifuges

649 Nursery Sickroom
This provides for persons requiring special adjustment of household administration: children and invalids

.1 Care of children
See also 136.7 Child study; 173.5 Duties of parents

.2 Rooms Nursery

.3 Food
See also 613.22 Diet of infants; 641.5 Cookery for children

.4 Clothing and care of body
See also 646.36 Children's clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing

.5 Exercise Recreation
See also 613.7 Hygiene of recreation; 790 Amusements

.55 Amusements: toys, dolls, games

.6 Manners Habits
See also 173.6 Duties of children

.8 Care of invalids and the infirm Sickroom
Communication Commerce

650 Communication Commerce
651 Offis equipment and methods
   See tentativ table in separate herewith
652 Writing; material, typewriters, cipher
653 Abbreviations Shorthand
   .01 Theories Available material Shading Position Detacht vowels
   .02 Practicability for general use Teaching in public schools
   For methods see 653.07
   .03 Speed See also 653.045, Verbatim reporting
   .04 Applications
   .041 Personal notes and records
   .042 Correspondence
   .043 Amanuensis work
   .044 Newspaper work
   .045 Shorthand job offises
   .046 Official-reporting, court and legislativ
   .047
   .05 Periodicals If strictly limited to one system, class with that system
   .06 Societies
   .07 Education Shorthand schools Teaching, privately or in classes
   .08
   .09 History Divided by countries like 930-999
   .1 Abbreviations Omissions of silent letters, vowels, etc.
      Covers desirability, dangers, lists, and all general matter about use of recognized
      abbreviations. See also 421.4 Phonetic spelling; 421.8 Abbreviations
   .2 Abbreviation systems
      Brief longhand. Fonoscribing, etc. For telegrafic codes, see 652
      Covers only systems of quick writing with common characters.
   .3 Stenografies
      Includes both discussions and systems with arbitrary signs and new characters
   .31 Before 1837
   .32 Gurney
   .33 Gabelsberger
   .34 Stolze (Dettmann)
   .35 Taylor (Baker; Harding; Odell)
   .36 Cross
   .37 Scovil
   .38 Duployé (Pernin, Sloan)
   .4 Phonetic shorthand Phonografies
      Limited to phonetic stenografy, i.e. brief sound writing. .5 and .6 include only
      systems using Isaac Pitman's consonants
   .41 Before Pitman (1837)
   .42 Bell
   .43 Jones
   .44 Williams
   .45
653-654

653.5 Pitman old vowel scale systems
   .51 Benn Pitman
   .52 Graham
   .53 Scott-Brown
   .54 Marsh
   .55 Thornton
   .56 Haven
   .57 Allen
   .58

   Pitman new vowel scale systems
   .61 Izaac Pitman
   .62 Munson
   .63 Longley
   .64 Burnz
   .65

   Connected vowel systems
   .71 Lindsley's takigrafy
   .72 Everett
   .73 Barrows
   .74 Bishop
   .75

   Foren systems
   .9 Divided by languages like 400

   The heads above are for English systems or (as in 653.3) foren systems adapted to
   and used for English. Other systems are grouped here by languages, but history
   of shorthand in special countries is in 653.99

654 Telegraf Cables Signals  
   .1 Telegrafic instruments
   .2 Duplex, quadruplex, multiplex telegraphs, etc.
   .3 Printing, perforating, dial telegraphs, etc.
   .4 Telegrafic construction; poles, wires, condits, etc.
   .5 Cables  Submarine
   .6 Telefones
   .7 Alarms; burglar, fire  Annunciators, bells
   .8 Speaking tubes  Pneumatic tubes
   .9 Signals  See also 534.83 Navigation signals; 623.7 Military signals
Printing Publishing Copyright

1 History of printing

11 Origin, invention

111 Claims of Gutenberg, Mainz

112 Claims of Coster, Haarlem

12 Celebrations, anniversaries

121 1640

122 1740

123 1823

124 1840

13-19 Printing in special countries

2 Type and typesetting

21 Type founding Tools of the art

22 Electrotyping and stereotyping, etc. Patent blocks

For Photoelectrotyping, see 777

23 Patent types, logotypes, etc.

24 Faces, sizes, styles Specimen books

25 Typesetting: composition, proofreading

Artistic composition: taste, display, job work

26 Imposition Locking up, etc.

27 Typesetting and distributing machines Linotype, monotype

28 Practical printing For Calico printing see 667.3

29 Printing presses

32 Press work: making ready Color printing Cuts

33 Drying: hydraulic pressing, etc.

34 Stamps, stencils, etc.

35 Machines: paging, numbering, addressing, etc.

See also 654.3 Printing telegraphs; 652 Typewriters

36 Nature printing from plants, etc.

37 Printing for blind see also 371.91 Education of blind

4 History of publishing and bookselling

Divided by countries like 930-999

5 Publishing and bookselling

51 Selection of mss

For freedom of press vs censorship, see 323; Morals of press 179.1

52 Relations to authors

Copyright payments, prices of mss bought

53 Format

Size, paper, type, illustrations, binding

54 Cost of manufacture

Retail prices and discounts to dealers

55 Advertising, press copies and notices See 659.1 Advertising

56 Retail bookselling Prices and discounts to buyers

57 Subscription book publishing, canvassing

58 Publishing societies

59 Publishing by governments, institutions, etc.
655.6 Copyright    Literary property
  .61 Perpetual or common law right
      Including ethics of copyright
  .62 Copyright in other matter than books
      Music, mss, lectures, trademarks
  .63 International copyright
      See also 341.5 International private law
  .64-.69 Copyright in special countries
      Divided like 940-999

656 Transportation: railroading, etc.
  Running of trains, train and boat timetables, luggage and freight handling, lists of
  sailings: crews and shifts, discipline, etc.
  For mechanical interrelations of track and rolling stock see 625.2
  For reports, government regulation, rate schedules, etc. see 385 for railroads, 386 for
  canal and 387 for river and ocean transportation

657 Bookkeeping Accounts

658 Business manuals   Methods   Tables
  See tentative table in separate hereafter

659 Other topics
  .1 Advertising

660 Chemic technology
  .1 Compendia    .2 Dictionaries, cyclopedias    .3 Periodicals
  .4 Essays    .5 Societies    .6 Study and teaching
  .7 History

661 Chemicals
  .1 Chemic elements
  .2 Acids: sulfuric, nitric, etc.
  .3 Alkalies: potash, soda, ammonia
  .4 Salts
      For common salt see 654.4
  .5 Ammonia salts
  .6 Sulfates and nitrates
  .7 Cyanids

662 Pyrotechnics    Explosivs, matches, etc.
  .1 Pyrotechnics
  .2 Explosivs
      See 622.23 Blasting; 673.4 Ordnance
  .3 Gunpowder
  .4 Fuses, percussion caps
  .5 Matches
  .6 Fuel: coal, peat, natural gas, etc.
      Charcoal, coke
      See also 644.22 Domestic economy  669.8 Metallurgy
  .7 Artificial fuel
      See also 644.2 Domestic economy  669.8 Metallurgy
663 Beverages

1 Fermented
2 Wine
3 Brewd
4 Beer
5 Distild
6 Artificial mineral waters: soda water
7
8 Mixing drinks Barkeepers manuals
9 Chocolate, coco Commercial mixing of teas, coffees, etc.

664 Foods

For Adulterations see 614.31 Public helth. See also 641 Domestic economy

1 Sugar, molasses, glucose, etc.
2 Starch, tapioca, sago, etc.
3 Artificial butter, oleomargarin Lard, compound lard
   For butter, milk, and cheese see 637 Dairy
4 Salt
5 Spices Condiments
6 Yeast Baking powder
   For bred see 641.631 Cookery
7
8 Methods of preservation: fruits and vegetables
9 Preservation of meat and fish

665 Oils Gases Candles Lamps

1 Candles Torches
2 Animal oils and fats See also 664.3 Foods
3 Vegetable oils and fats
4 Mineral oils: paraffin, ozocerite, asphaltum
   Petroleum, kerosene
5
6 Lamps See also 644.32 Domestic economy
7 Illuminating gases Calcium light
8 Other gases
9

666 Ceramics Glass, etc.

1 Glass See also 748 Staind glass
2 Enamel
3 Ceramics See also 738 Pottery, porcelain
4 Clay See also 553.61 Economic geology
5 Porcelain
6 Stoneware, earthenware, pottery
7 Bricks Tiles See also 691.4 Biling materials; 695.3 Roofing
8 Artificial stone See also 691.3 Biling materials
9 Cements Limes Mortars See also 691.5 Biling materials
USEFUL ARTS

667  Bleaching, dyeing, etc.
   1  Bleaching
   2  Dyeing  Artificial colors  Silk and wool
       Cotton dyeing and calico printing
   4  Inks: writing inks, indelible inks
   5  Printing inks
   6  Paints and pigments
      See also 608.1 House painting; 751 Fine arts
   7  Varnishes  Polish  Lacker
      See also 698.3 Varnishing

668  Other organic chemic industries
   1  Soap
   2  Glycerin
   3  Glue
   4  Gums and resins
   5  Essences, perfumery, essential oils and ethers, etc.
      See also 646.7 Toilet
   6  Fertilizers
      See also 631.8 Agriculture
   7  Distillation: coal tar, etc.

669  Metallurgy and assaying
       History of metals goes here, not in 533, 622, nor 671
   1  Iron and steel
   2  Gold and silver
   3  Copper
   4  Lead
   5  Zinc
   6  Tin
   7  Mercury and other metals
   8  Fuels and furnaces  Slags
   9  Assaying

670  Manufactures
       Specific topics go where of most interest. These beds are for the general subject of metal-wood, etc. manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e.g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churning with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether grouped by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general had is better; e.g. bells are for scores of distinct uses, but their manufacture is a unit; but all churning is for the dairy.
DECIMAL CLASSIFICATION

671 Articles made of metals
672 Of iron and steel; stoves, cutlery, etc.
673 Of brass and bronze; bells, etc. See also 739
674 Lumber and articles made of wood
675 Lether " " " lether
676 Paper " " " paper
677 Cotton, wool, silk, linen, etc.
678 Rubber and articles made of rubber
679 Celluloid and other

680 Mechanic trades Amateur manuals

681 Watch and instrument making
Catalogs of miscellaneous instruments. Class special instruments with their subjects
682 Blacksmithing
See also Zootechny, 636.0834 Shoeing

683 Lock and gun making
684 Carriage and cabinet making
Furniture. See also 749 Artistic furniture; 694.7 Fine joinery, interior finish. Highway vehicles for separate tractors, either animal or motor. For motor vehicles see 629.2

685 Saddlery and shoemaking Trunks
686 Bookbinding
687 Clothesmaking Hats
688
689 Other trades

690 Bilding
For Architectural construction, see 721

691 Material Processes Preservativs
Waterproofing See also 620.1 Strength of materials

Wood Creosoting, etc.
Natural stone Paraffining, etc.
Artificial stone Concrete
Bricks Tiles Other ceramic products
Lime Cement Plaster
Glass
Iron Steel Antirust processes
Other metals
Other materials
USEFUL ARTS

692 Plans Specifications, etc.
.1 General drawings
.2 Detail drawings
.3 Specifications
.4 Contracts Agreements Bids Advertisements
.5 Estimates Quantities Costs
.6 Superintendence
.7 Supervision of accounts
.8 Professional services Fees Commissions

680 - Manual arts

680 Manual arts
681 Primary handwork
682 Paper and cardboard
683 Weaving and basketry
684 Pottery and clay
685 Mechanic drawing
686 Woodwork
.1 Cabinet work
.2 Carving
687 Metal work
688 Book binding
689 Other manual arts
.1 Leather

.3 Strengthened beams See also 721.31
.4 Posts Columns See also 721.31
.5 Panelled and lattist construction
.6 Joinery, general For Finishing, varnish, polish, etc. see 698.3
.7 Ornamental joinery Cabinet work
For cabinetmaking see 684
.8 Stairbuilding See also 515.83 Stereotomy
.9 Other branches See also 721.87-89
671 Articles made of metals
672 Of iron and steel; stoves, cutlery, etc.
673 Of brass and bronze; bells, etc. See also 739
674 Lumber and articles made of wood
675 Lether " " " " lether
" " " " paper

691 Materials

.1 Wood Creosoting, etc.
.2 Natural stone Paraffining, etc.
.3 Artificial stone Concrete
.4 Bricks Tiles Other ceramic products
.5 Lime Cement Plaster
.6 Glass
.7 Iron Steel Antirust processes
.8 Other metals
.9 Other materials
USEFUL ARTS

692 Plans Specifications, etc.
1 General drawings
2 Detail drawings
3 Specifications
4 Contracts Agreements Bids Advertisements
5 Estimates Quantities Costs
6 Superintendence
7 Supervision of accounts
8 Professional services Fees Commissions
9 Biding laws Liabilities of architects, owners, and contractors

693 Masonry Plastering Fireproofing
1 Stone construction
11 Bonds of stone work
12 Cutting and dressing of stone
See 515.8 Stereotomy; 736 Stone carving
2 Brick construction
21 Bonds of brick work
22 Adobe or sundried brick, etc.
3 Terra cotta construction Tile
4 Hollow tile and porous terra cotta construction
5 Concrete and beton construction
6 Plastering
61 External plastering and stucco
62 Internal plastering
63 Ornamental plaster work
64 Scagliola
65 Wooden lath
66 Metal lath (Wire, etc.)
67 Mineral wool linings, etc.
7 Fireproofing
8

694 Carpentry: joinery, stairbuilding
1 Wood construction; general
2 Joints of woodwork Framing
3 Strengthened beams
4 Posts Columns See also 721.31
5 Panel and lattist construction
6 Joinery, general For Finishing, varnish, polish, etc. see 698
7 Ornamental joinery Cabinet work
For cabinetmaking see 684
8 Stairbuilding See also 515.8 Stereotomy
9 Other branches See also 721.87-89
695 Roofing: slating, tiling  
   For roof construction see 721.4
   .1 Wood: shingle
   .2 Slate
   .3 Tile
   .4 Metal: tin, copper, lead, zinc
   .5 Iron
   .6 Asphalt, Tar, Concrete (Melted)
   .7 Felt, Asbestos, Paper (In rolls)
   .8 Textile: duck, canvas
   .9 Thatch and other coverings

696 Plumbing  Gas and steam fitting, etc.
   .1 Plumbing  For principles of sanitation see 628
   .2 Gasfitting
   .3 Steamfitting
   .4 Rivets and riveted joints
   .5 Screws and screw joints
   .6 Rust or calked joints
   .7 Anchors  Band irons
   .8 Other branches
   .9 Plumbing laws  See also 614 Public health

697 Heating and ventilation
   See also sanitary engineering, 628.8; domestic economy, 644.  For lighting see 628.9
   .1 Fireplaces
   .2 Stoves
   .3 Furnaces
   .4 Hot water, high and low pressure
   .5 Steam, high and low pressure  
      For boilers, see 621.184; for power plants, see 621.19
   .6 Gas: coal gas, water gas, natural gas
   .7 Electric and other methods
   .8 Smoke flues and chimneys
   .9 Ventilation: air ducts, condits, fans

698 Painting  Glazing  Paperhanging
   .1 Painting  Oil
   .2 Distemper and fresco
   .3 Varnishing  Polishing
   .4 Other modes of protection
   .5 Glazing  For stained glass see 748
   .6 Paperhanging
   .7 Textile hangings: tapestry  
      For tapestry design, see 745
   .8 Relief work: lincursta, stampt lether, etc.
   .9 Other branches

699 Carbilding
   Railway and tramway cars, passenger and freight, with or without motors.  For highway cars see 629.2
**Fine Arts**

700 Fine arts

701 Philosophy: theories, utility, esthetics
702 Compendes, outlines
703 Dictionaries, cyclopedias
704 Essays, lectures, addresses
705 Periodicals, magazines, reviews
706 Societies: transactions, reports, etc.
707 Education: study and teaching of art
708 Art galleries and museums
   .1 American: Corcoran, Metropolitan, Boston
   .2 English: National, Hampton Court, Windsor
   .3 German: Dresden, Munich, Berlin, Vienna
   .4 French: Louvre, Luxembourg
   .5 Italian: Vatican, Sistine, Pitti, Medici, Borbonico
   .6 Spanish: Madrid, Seville
   .7 Russian: St Petersburg, Hermitage
   .8 Scandinavian: Copenhagen
   .9 Other countries
709 History of art in general

710 Landscape gardening

711 Public parks
712 Private grounds, lawns
713 Walks Drives
714 Water: fountains, lakes
715 Trees Hedges Shrubs
   See also 614.9 Forestry; 532 Botany
716 Plants Flowers
   .1 Plants .2 Flowers .3 Conservatories .4 Window gardens .5 Ferneries
717 Arbors Seats Outlooks
718 Monuments Mausoleums
719 Cemeteries

See also 393.1 Earth burial; 614.61 Public heilth.
## Architecture

### 720 Theories, esthetics, architectonics
- .1 Architectural

### 721 Architectural construction

#### .1 Foundations
- See also bridge engineering, 624.1

#### .11 Foundation bed
- Nature of soil
- Load on foundation

##### .12 Excavation:
- Timbering, shoring

##### .13 Material for building foundations
- Divided like 620.1

##### .132 Wood

##### .133 Stone, cement, concrete
- .2 Stone, dimension or rubble
- .5 Cement
- .6 Concrete

##### .134 Brick

##### .14 Pile foundations: general
- Material

##### .141 Sand piles

##### .142 Wood or timber piles

##### .143 Concrete piles

##### .147 Iron piles

##### .15 Pile foundations: method of sinking

##### .151 Piledriver

##### .152 Screw pile
- Boring anchor

##### .153 Disk pile

##### .154 Hydraulic pile

##### .155 Pneumatic pile

##### .16 Platform and other special foundations

##### .162 Timber platforms or gratings: plank foundations

##### .163 Concrete platforms

##### .164 Iron and concrete; reinforced concrete platforms

##### .165 Masonry platforms

##### .166 Concrete legs or stilts

##### .167 Cantilever foundations

##### .17 Subaqueous foundations

##### .171 Cofferdams

##### .172 Open crib or caisson
- Cylinder foundations

##### .173 Pneumatic caisson

##### .174 Freezing

##### .175 Pneumatic forcing

##### .176 Sunken wells: dredging thru wells

##### .177 Sunken tubes
721.2 Walls
.21 Wood and halftimberd
.22 Stone
.23 Artificial stone, concrete, pisé, etc.
.24 Brick
.25 Bases Water tables Belt courses
.26 Arcades Colonnades
.27 Cornises
.28 Gables and pediments See also 721.58 Gable roofs
.29 Other walls

Piers Columns
.31 Wood See also Carpentry 694.4
.32 Stone
.33 Concrete, artificial stone
.34 Brick, terra cotta
.35 Iron, steel
.36 Fireproof Protected

4 Archt constructions
See 624.6 Archt bridges; and 729.33 and 729.37 Elementary forms
.41 Arches, circular
.42 Arches, other forms
.43 Vaults, cylindric
.44 Vaults, groin
.45 Vaults, other forms
.46 Domes, circular
.47 Domes, other forms

5 Roofs See also 695 Roof coverings; 624.9 Engineering, roofs; 729.35 Roof design
.51 Wood
.52 Masonry
.53 Glass
.54 Metallic
.55 Windows Openings in roofs
.56 Roof decoration: cresting, repoussé work, colored tiles, etc. See also 695.3
.57 Spires and domes
.58 Gables See also 721.28 Gable walls
.59 Other forms of roofs

6 Floors and flooring
.61 Wood Construction and coverings
.62 Stone
.63 Brick and hollow tile
.64 Metallic Compound
.65 Composit
.66 Parquetry Coverings only
.67 Mosaics
.68 Tiles See 695.3 Roofing tile
.69 Other coverings
DECIMAL CLASSIFICATION

721.7  Ceilings
For vaulted ceilings, see 721.4 and 729.34

.71  Wood
.72  Stone
.73  Brick or tiles with iron
.74  Metallic
.75  Concrete  Plaster
.76
.77
.78
.79

.8  Doors  Gates  Grilles  Windows

.81  Doors, wooden
.82  Doors, metallic
.83  Doors, sash, lattis, screen, etc.
.84  Windows, external
.85  Windows, internal
.86  Inclosures of doors and windows
Architraves  Pilasters  Jams  Pediments  Lintels, etc.
.87  Shutters  Blinds  Screens  Grilles
.88  Fastenings  Locks
.89  Other details

.9  Iron and composit structures
For strength of materials, see Engineering, 620.11

.91  Cast iron
.92  Wrought iron
.93  Steel
.94  Composit.
.95  Iron and wood
.96  Iron and stone
.97  Iron and brick, tile, terra cotta  Reinforced concrete
.98  Iron and glass
.99  Wood and glass

722  Ancient and Oriental architecture (Pagan)
See also 571.8  Prehistoric dwellings

.1  Chinese  Japanese
.2  Egyptian
.3  Phenician  Tyrian  Jewish  Carthaginian  Cypriote
.4  Indian (Asiatic)
  Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian
.5  Chaldean  Assyrian  Babylonian  Ancient Persian  Sassanian
.6  Pelasgian  Etruscan
.7  Roman  See 729.32 for Roman orders
.8  Grecian  See 729.32 for Greek orders
.9  Other: Aztec, Peruvian, Maya, Yucatan, etc.
723 Medieval Christian Mohammedan

.1 Early Christian
.2 Byzantine Armenian Russian
.3 Mohammedan: Saracenic, Moorish, Persian, Turkish, Indian For Ancient Indian see 722.4

.4 Romanesque
.41 Scotch Irish
.42 English Saxon Norman
.43 German Austrian
.44 French Provençal Norman Angevin
.45 Italian Sicilian Norman
.46 Spanish Portuguese
.47
.48 Danish Swedish Norwegian
.49 Minor countries
.5 Gothic or pointed Divided like 723.4

724 Modern
All the subsections of 724 are subdivided geographically like 940-999

.1 Renaissance
.19 Baroque Rococo
.2 Grecian revival
.3 Gothic revival
.4 Victorian Gothic Tudor Elizabethan
.5 Queen Anne
.59 Georgian
.6 Néo-Grec
.7 Swiss Timber
.8 Romanesque revival
.9 Other styles

725 Public buildings

.1 Administrative Governmental
.11 Capitols Houses of parliament
.12 Ministries of war, state, etc.
.13 City and town halls Bureaus Public offices
.14 Custom houses Bonded warehouses Excise offices
.15 Court houses Record offices
.16 Post offices, general and special
.17 Official residences Palaces of rulers
.18 Barracks Armories Police stations
See also 623.61 Military buildings
.19 Engin houses Fire alarm stations
DECIMAL CLASSIFICATION

725.2 Business and commercial
   .21 Stores, wholesale and retail
   .22 Mixt store, offis, and apartment bildings
   .23 Offis bildings: telegraf, insurance
   .24 Banks: safe deposit, savings
   .25 Exchanges Boards of trade
   .26 Markets
   .27 Cattle markets Stock yards
   .28 Abattoirs
   .29 Other business bildings

3 Transportation and storage
   .31 Railway passenger stations
   .311 Small (country) stations
   .312 Large (city)
   .313 Union stations
   .314 Stations on 2 levels
   .315
   .316
   .317 Street-car stations
   .318 Elevated railway stations
   .319 Underground railway stations
   .32 Railway freight houses
   .33 Railway shops, roundhouses, car houses, tanks, stores
   .34 Dock bildings Wharf boats and houses
   .35 Warehouses Cold storage Safe deposit storage
   .36 Elevators, grain
   .37
   .38 Garages Livery stables
   For private stables and garages see 728.94
   .39 Other

4 Factories
   .41 Textil factories or mills: wool, cotton, silk
   .42 Breweries Malteries Distilleries
   .43 Foundries Machine shops Iron and steel works
   .44 Woodworking mills Furniture factories
   .45 Carriage and car factories
   .46 Paper mills
   .47 Mills for flour, meal, feed, etc.
   .48 Pottery, glass, terracotta, brick works
   .49 Other factories
Hospitals and asylums  See also 725.6 Reformatories
- Sick and wounded  Eye and ear  Incurables  Lying-in
- Insane
- Idiotic  Feebleminded
- Blind  Def and dum
- Paupers  Almshouses
- Aged
- Children  Orphans
- Foundlings
- Soldiers homes

Prisons and reformatories
- State prisons  Penitentiaries
- Jails  Cell houses
- Reformatories for adults  Houses of correction
- Reform schools
- Washingtonian homes  Inebriate asylums

Refreshment  Baths  Parks
- Cafés  Restaurants
- Saloons
- Baths: warm, medicated, turkish, russian
- Swimming baths
- Bildings for watering places, spas, etc.
- Bildings for parks

Recreation
- Music halls
- Theaters  Opera houses
- Halls for lectures, readings, etc.
- Bowling alleys  Billiard saloons
- Gymnasiums  Turn halls
- Skating rinks  Bicycle rinks
- Boat houses
- Riding halls and schools
- Shooting galleries

Other public bildings
- Exhibition halls
- Temporary halls  Tabernacles  Wigwams
- Workingmen's clubs and institutes
726 Ecclesiastic and religious
   .1 Temples
   .2 Mosques
   .3 Synagogues
   .4 Chapels Sunday school buildings
   .5 Churches
   .6 Cathedrals
   .7 Monasteries Convents Abbeys
   .8 Mortuary: cemetery chapels, receiving vaults, tombs
   .9 Other: Y. M. C. A. etc.

727 Educational and scientific
   .1 Schools
      Study and recitation rooms. Not including dormitory or boarding
   .2 Academies Seminaries Boarding schools
   .3 Colleges Universities
   .4 Professional and technical schools: law, theology, etc.
   .5 Laboratories: physical, chemic See 542.1 biologic, etc
      Zoologic and botanic gardens See also 590.7 and 580.7
   .6 Museums Herbariums See 580.7
   .7 Art galleries Studios
   .8 Libraries See 022 Library buildings
   .9 Other: learned societies, etc.

728 Residences
   .1 Tenement houses
   .11 City homes of poor
   .12 Country "
   .13 Cités ouvrières
   .2 Apartment houses Flats Family hotels
   .3 City houses Mansions Palaces
      Between party walls Stone
   .31 " " " Brick
   .32 " " " Partly wood
   .33 Semidetached, including end houses in city blocks Stone
   .34 " " " Brick
   .35 " " " Partly wood
   .36 " " "
   .37 Detached Stone
   .38 " " Brick
   .39 " Partly wood
   .4 Club houses Bildings for secret societies
   .5 Hotels Inns
      City hotels
   .51 Summer resorts
   .52 Country inns
728.6 Village and country homes
.61 Village dwellings; on small lots
.62 Stone
.63 Brick
.64 Concrete or stucco
.65 Part masonry, part wood
.66 All wood
.67 Farm houses
.68 Laborers cottages
.7 Seaside and mountain cottages Chalets
.8 Country seats
.81 Castles
.82 Chateaux
.83 Manor houses
.84 Villas
.9 Outbuildings
.91 Porters lodges
.92 Servants quarters
.93 Kitchens and laundries
.94 Stables Carriage houses Garages
   See also 725.38 Public garages and livery stables
.95 Barns Granaries
.96 Dairies
.97 Ice houses
.98 Conservatories Greenhouses Graperies
.99 Other

729 Architectural design and decoration
For decorative illumination see 745

.1 The elevation
.11 Composition
.12 Distribution
.13 Proportion
.14 Light and shade
.15 Perspectiv effect
.16
.17
.18
.19
For projection of shadows and gracies of light and shadow see 515.63 and 5137.

.2 The plan
.21 Elements required
.22 Distribution
.23 Proportion
DECIMAL CLASSIFICATION

729.3 Elementary forms

For construction of these forms see 721

.31 Walls Moldings Cornises
.32 Piers, columns, pilasters, pedestals and the orders Colonnades
.33 Arches and arcades
.34 Vaults and domes
.35 Roofs Spires Dormers
.36 Towers
.37 Gables and pediments
.38 Doors and windows Bays Oriels
.39 Stairs and balustrades

See also 515.83 Stereotomy; 694.8 Stairbuilding

.4 Painted decoration

See also 729.7 Mosaic

.41 Vegetable forms
.42 Animal forms
.43 Grotesque forms
.44 Conventional and geometric forms
.45 Painted moldings
.46 Painted friezes and panels
.47 Painted columns and pilasters
.48 Painted ceilings and vaults
.49 Painted walls

.5 Decoration in relief

For bas relief and figure carving see 730

.51 Vegetable forms
.52 Animal forms
.53 Grotesque forms
.54 Conventional and geometric forms
.55 Carved moldings
.56 Carved friezes and panels
.57 Carved columns and pilasters
.58 Carved ceilings and vaults
.59 Other carved ornament

.6 Incrustation and veneering

.61 Of external walls (in brick, stone, or marble, tiles. etc.)
.62 Of interiors
.63 Intarsia and inlay
.64 Niellowork
.65 Enamel decoration
.66
.67
.68
.69
Mosaic

- Mosaic ceiling
- Mosaic walls
- Mosaic floors
- Other mosaic designs

Stained glass design

For technical processes see 666.1; for history see 748.

- Geometric windows
- Medallion windows
- Canopy windows
- Figure windows
- Mosaic windows
- Other kinds of stained glass

Architectural accessories and fixtures furniture

- Altars
- Pulpits
- Tribunes
- Dais
- Thrones
- Buffets
- Mantels
- Overmantels
- Screens
- Rood screen
- Reredos

Sculpture

Materials and methods

Ancient

Greek and Roman

Medieval

Modern

Carving
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Numismatics
Coins
Medals

Artistic and historic side
See also 332.4
Coins and coinage, as money

Pottery
Porcelain

Bronzes
Brasses
Bricabrac
740 **Drawing**  **Decoration**  **Design**  
Arts and crafts

741 Freehand  Crayon  Sketching from nature  
Caricatures  Cartoons
Collections on any subject go with that subject with reference from 741

742 Perspectiv  See also 515.6

743 Art anatomy  Life school

744 Mathematic and scientific drawing  See 515

Instructions for architectural and other mathematical drawing, with demonstration
(if any) subsidiary.
Textbooks with mathematical demonstrations in scientific order are better in 515

745 Ornamental design: woven fabrics, carpets, wall paper, etc.

746 Art needlework  Fancy work

747 Interior decoration  Distemper  Fresco  
Polychrome

748 Staind and iridescent glass  For leading, see 698.5

749 Artistic furniture  Fireplaces  Frames, etc.

750 **Painting**

751 Materials and methods

752 Color  See also 535.6 Optics

753 Epic  Mythic  Idealistic  See 759.3 German school

754 Genre  Still life  See 759.4 French; and 759.6 Belgian

755 Religious, ecclesiastic  See 759.5 Italian; and 759.6 Spanish

See also 246 Ecclesiology

756 Historical, battle scenes

757 Portrait

758 Landscape and marine  Animals  Flowers

759 Various schools of painting

.1 American
.2 English
.3 German
.4 French
.5 Italian
.6 Spanish
.7 Slavic
.8 Scandinavian
.9 Other schools

Japanese

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760 Engraving

761 Wood
762 Copper and steel
763 Lithography
764 Chromolithography
765 Line and stipple
766 Mezzotint and aquatint
767 Etching  Dry point
768 Bank note and machine
769 Collections of engravings

770 Fotografy

771 Materials  Fotografic chemistry
772 Processes
   Silver: daguerreotype, talbotype
   Collodion: ambrotype, etc.
   Dry plate
   Color fotografy
   Gelatin and pigment: woodburytype
   Carbon: lambertype, autotype, etc.
773  Gelatin and printers ink
      Albrightype, héliotype, artotype, etc.
774 Fotolithography, etc.
775 Fotozincography, etc.
776 Fotoengraving and fotoelectrotyping
777 Special applications
      Moving pictures.  See also 522,63 Astronomy; 378 Microscopy
778 Collections of fotografas
Music

781 Theory of music

.1 Mathematical and physical
.2 Elementary and general
.3 Harmony and Thorobass
.4 Counterpoint
.5 Musical form
.6 Composition and instrumentation
.7 Oriental theories and forms
.8 Russian music
.9 Ancient Grecian theories, modes, and forms

782 Dramatic music

.1 Grand opera
.2 Epic and Wagnerian
.3 Other German grand opera
.4 French grand opera
.5 Italian grand opera
.6 Comic and satiric
.7 Opera bouffe
.8 Operettas and cantatas
.9 Pantomimes, masks, etc.

783 Sacred music

See 245 Hymnology, sacred poetry, for hymns alone; if with tunes they go in 783.9; 786.8 Organ; 246.7-8 Evangelistic use and Eucharistic music; 264.2 Public worship

.1 Organ and orchestral Accompaniment
.2 Cathedral services: masses, vespers, etc.
.21 Mass
.22 Common of the mass: kyrie, gloria in excelsis, credo, benedictus, Agnus Dei
.23 Proper of the season: offertory, sequence, gradual, tract
.24 Choral servis: antiphonal, responsiv
.25 Plain song
.26 Litanies
.27 Lenten and penitential: Good Friday, reproaches
.28 Festival: Christmas, Easter, etc.
.29 Processional and recessional
783.3 Oratorio Passion music
.4 Anthem Motet Sacred cantata
  Polyphonic school, Palestrina. 16th century
.5 Chant: Gregorian, Anglican
.6 Chorale Tune Carol
.7 Evangelistic: mission, revival Sunday school
.8 Choir: men and boys Quartet Chorus
.9 Congregational singing Psalmody Hymnody

784 Vocal music
.1 Glee Madrigal Round Catch
.2 Aria Cavatina Recitative e.g. in oratorio, mass, opera
.3 Ballad and song
  Romantic, idyllic, sentimental; e.g. modern German
.4 Popular ballads Volkslied; e.g. Irish, Scotch, etc.
.5 Festival; e.g. sängerbund, eisteddfod Competitive
.6 College, society songs, and choruses
.7 Negro minstrelsy, plantation songs
.8 Collected songs
  .81 Solos
  .82 Duets
  .83 Trios
  .84 Quartets
  .85 Other part songs
  .86 Choruses
  .87 Collections for male voices
  .88 Collections for female voices
  .89 Other special collections
.9 Vocal hygiene, culture, development, and methods Tonic sol-fa

785 Orchestral music
For dramatic orchestral music, see 782; sacred, 783.1
.1 Symphony
  Three or more movements; e.g. adagio, andante, allegro, allegretto, scherzo, finale, etc.
.2 Dramatic, illustrative, descriptive, program, imitative
  e.g. Mendelsohn’s Midsummer night’s dream
.3 Romantic, idyllic
.4
.5 Overture: e.g. Beethoven’s Leonores
.6 Concerto: orchestral with solo instrument
.7 Chamber music
.8 Suite
.9 Arrangements, transcriptions, potpourris
786 Piano and organ

1 Piano History

2 Manufacture Tuning Temperament

3 Instruction

4 Piano music General collections
   For piano concerto, see 785.6
   Sonata Sonata Rondo
   Fantasia Arabesque
   Nocturne Meditation Romantic Descriptiv
   Songs without words

4.1 March and march form Polonaise Polka Mazurka

4.4 Dance form: national, classic, idealized

4.6 Modern dance music Society, festiv

4.7 Etudes Artistic For études for instruction, see 786.3

4.8 Variations, transcriptions

4.9 Arrangements
   Four hands and more; e. g. orchestral music arranged for piano

5 Organ History

6 Bilding

7 Instruction

8 Organ music See also 783 Sacred music
   Sonata
   Fugue
   Preludes
   Interludes
   Postludes
   Offertories
   Voluntaries Improvisations

8.1 Organ and piano

8.4 Organ, piano, and orchestra

9 Cabinet organ Melodeon

787 Stringd instruments
   Including with each, history, manufacture, instruction, music, etc. Music for 2
   instruments is put with the one most prominent in the composition

Bowd

1 Violin

2 Viola

3 Violoncello

4 Double bass Contra bass
   Plectral

5 Harp

6 Guitar Lute Mandolin, etc.

7 Banjo

8 Zither

9 Other stringd instruments Harpsichord
Wind instruments
Including with each, history, manufacture, instruction, music, etc.

Brass

- 1 Trumpet: slide and valv
- 2 Trombone
- 3 Cornet
- 4 Horns and other brass wind instruments
  - 4.1 French horn
  - 4.2 Saxhorn
  - 4.3 Saxophone
  - 4.4 Euphonium
  - 4.5 Ophicleide
  - 4.6 Key bugle
  - 4.7 Valv bugle
  - 4.8 Bass Tuba and contrabass tuba Serpent
- 4.9 Other

Wood: flute group
- 5 Flute Waldflute Piccolo Fife Flageolet

Wood: reed group
- 6 Clarinet Bass clarinet Bassethorn
- 7 Oboe D'amore Da caccia Cor anglais
- 8 Bassoon Double bassoon Bombardon
- 9 Other reed wind instruments: bagpipe

Percussion and mechanical instruments

Percussion

- 1 Drum
- 2 Cymbals
- 3 Triangle
- 4 Tambourine Castanets Bones
- 5 Bells: chimes, carillon
- 6 Other percussion instruments: xylophone

Mechanical

- 7 Orchestron
- 8 Music box
- 9 Other mechanical instruments
Amusements

For ethics of amusements, see 175

791 Public entertainment
Concert, panorama, circus, menagerie, summer resort, garden, rink, museum fair, festival

792 Theater
Pantomime
Opera
Passion plays. Fotoplays. See also 782 Dramatic music

793 Indoor amusements
Private theatricals, tableaux, charades, dancing

794 Games of skill
Chess, checkers, billiards, bowling, bagatel

795 Games of chance
Cards, dice, backgammon, dominoes

796 Outdoor sports
Children's sports, athletic sports, coasting, skating, cycling, quoits, archery, croquet, lawn tennis

797 Boating and ball
Rowing, yachting, baseball, football, cricket, polo

798 Horsemanship and racing

799 Fishing, hunting, target shooting
The classification of literature is by language, not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assign to individual authors include only their literary works of that section and complete works which can not be divided. Books on other subjects go with their proper subjects, unless a 'special library' attracts all the authors' works, lives, etc. An author writing in 2 periods has all his books put in the one where most of them belong.

800 Literature: general works

801 Philosophy Theories Literary esthetics
802 Compends, outlines
803 Dictionaries, cyclopedias
804 Essays, lectures, addresses
805 Periodicals, magazines, reviews
806 Societies: transactions, reports, etc.
807 Study and teaching of literature
808 Rhetoric Treatises Collections

Divided .1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory, see also 784.9 Vocal culture .6 Letters, epistolography .7 Satire, humor .8 Collections, too general to go with any one language, e.g. a book of quotations from many languages.

These heads, and the same under 809, include only works about poetry, etc. regardless of language.

809 History of literature in general

Including general histories of books and knowledge; e.g. Hallam's Literature of the middle ages

Divided like 808 .1 Poetry .2 Drama .3 Fiction, etc.
810 American literature
Includes Canadian English, which may be kept separate by prefixing C; e.g. C 811
Canadian poetry

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811 American poetry

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| .12 | Bradstreet, Anne | 1612–72 |
| .13 | Wigginsworth, Michael | 1631–1705 |
| .14 | Green, Joseph | 1706–80 |
| .15 | Livingston, William | 1723–90 |
| .16 | Ferguson, Elizabeth | 1739–1801 |

2. Post-revolutionary 1776–1830

| .21 | Trumbull, John | 1750–1831 |
| .22 | Dwight, Timothy | 1752–1817 |
| .23 | Barlow, Joel | 1755–1812 |
| .24 | Freneau, Philip | 1752–1832 |
| .25 | Alsop, Richard | 1761–1841 |
| .26 | Pierpont, John | 1785–1866 |
| .27 | Dana, Richard Henry | 1787–1879 |
| .28 | Sprague, Charles | 1791–1875 |
| .29 | Minor poets | 1791–1875 |

3. Middle 19th century 1830–61

| .31 | Halleck, Fitz-Greene | 1790–1867 |
| .32 | Poe, Edgar Allan | 1809–49 |
| .33 | Bryant, William Cullen | 1794–1878 |
| .34 | Longfellow, Henry Wadsworth | 1807–82 |
| .35 | Read, Thomas Buchanan | 1822–72 |
| .36 | Whittier, John Greenleaf | 1807–92 |
| .37 | Lowell, James Russell | 1819–91 |
| .38 | Lowell, James Russell | 1819–92 |

4. Later 19th century 1861–1900

| .41 | Stoddard, Richard Henry | 1825–1903 |
| .42 | Hayne, Paul Hamilton | 1831–86 |
| .43 | Stedman, Edmund Clarence | 1833–1908 |
| .44 | Winter, William | 1836–1918 |
| .45 | Miller, Cincinnatius Hiner (Joaquin) | 1841–1913 |
| .46 | Taylor, Bayard | 1825–78 |

5. Early 20th century 1901–
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- Warren, Mercy 1728-1814
- Godfrey, Thomas 1736-63

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- Dunlap, William 1766-1839
- Hillhouse, James Abraham 1789-1841
- Ingersoll, Charles Jared 1782-1862

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- Ritchie, Anna Cora Mowatt 1818-70
- Mathews, Cornelius 1817-89
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- Rowson, Susanna 1762-1824
- Brown, Charles Brockden 1771-1810
- Cooper, James Fenimore 1789-1851
- Ware, William 1797-1852
- Neal, John 1793-1876

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- Kennedy, John Pendleton 1795-1870
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- Judd, Sylvester 1813-53
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### American satire and humor

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<td>Shillaber, B P (Mrs Partington)</td>
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<td>Saxe, John Godfrey</td>
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.62 Akenside, Mark 1721-70
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.72 Coleridge, Samuel Taylor 1772-1834
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.75 Moore, Thomas 1779-1852
.76 Byron, George Gordon Noel, 6th lord 1788-1824
.77 Shelley, Percy Bysshe 1792-1822
.78 Keats, John 1795-1821
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.82 Browning, Elizabeth Barrett 1809-61
.83 Browning, Robert 1812-89
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- .22 Udall, Nicholas  
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- .23 Bale, John  
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- .32 Marlowe, Christopher  
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- .33 Shakespeare, William  
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- .34 Jonson, Ben  
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- .35 Beaumont, Francis and Fletcher, John  
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- .36 Webster, John  
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- .37 Massinger, Philip  
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- .38 Ford, John  
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- .44 Wycherly, William  
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- .47 Vanbrugh, Sir John  
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- .48 Farquhar, George  
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- .49 Minor writers

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- .51 Dennis, John  
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- .52 Southerne, Thomas  
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- .53 Centlivre, Mrs Susannah (Freeman)  
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- .66 Sheridan, Richard Brinsley  
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- .72 Knowles, James Sheridan  
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- **Otfrid**
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- *Gudrun*, and minor folk epics
- **Heinrich von Veldeke**
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- **Gottfried von Strassburg**
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- **Walther von der Vogelweide**
- **Ulrich von Lichtenstein**

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- **Hadamur von Laber**
- **Hermann von Sachsenheim**
- **Bühler, Hans Die sieben weisen meister**
- **Kaspar von der Röhn Das heldenbuch**
- **Theuerdank**
- **Die Haimonskinder**
- **Mastersingers**

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- **Waldis, Burkard**
- **Alberus, Erasmus**
- **Sachs, Hans**
- **Ringwaldt, Bartholomäus**
- **Rollenhagen, Georg**
- **Andréa, Johann Valentin**

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- **Flemming, Paul**
- **Logau, Friedrich von**
- **Gerhardt, Paul**
- **Hofmannswalda, Christian Hofmann von**
- **Zesen, Philipp von**
- **Brockes, Barthold Heinrich**
- **Bodmer, Johann Jakob**
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Bürger, Gottfried August

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Voss, Johann Heinrich

Körner, Karl Theodor

Hölderlin, Johann Christian Friedrich

Platen Hallermünde, August, graf von

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Eichendorff, Joseph, freiherr von

Uhland, Johann Ludwig

Rückert, Friedrich

Heine, Heinrich

Niembsch von Strehlenau, Nikolaus

Auersperg, Anton Alexander, graf von [Anastasius Grün]

Freiligrath, Ferdinand

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Geibel, Emanuel

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Weise, Christian

Gottsched, Johann Christoph

Gottsched, Luise Adelgunde Victorie (Culmus)

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Schiller, Johann Christoph Friedrich

Klinger, Friedrich Maximilian

Ifland, August Wilhelm

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<td>Münch-Bellinghausen, Eligius Franz Joseph [Friedrich Halm]</td>
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<td>Laube, Heinrich</td>
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<td>Hebbel, Friedrich</td>
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#### Later 19th century 1856–1900

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<td>Benedix, Julius Roderich</td>
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<td>Mosenthal, Salomon Hermann</td>
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<td>Lindau, Paul</td>
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#### Early 20th century 1901–

#### German fiction

##### Period of imitation 1625–1750

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##### Classic period 1750–1830

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<td>Richter, Jean Paul Friedrich</td>
<td>1763–1825</td>
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<td>Hardenberg, Friedrich von [Novalis]</td>
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<td>Hoffmann, Ernst Theodor Wilhelm</td>
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<td>Chamisso, Adelbert von</td>
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##### Postclassic period 1830–56

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<td>.21 [Stricker, Der] Der Pfaffe Amis und Beispiele Salomon und Morolf</td>
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<td>.3 Period of decline 1300–1517</td>
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<td>.31 Reineke Vos See also 839.371</td>
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<td>.4 Reformation: new high 1517–1625</td>
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839 Minor Teutonic literatures

Subdivided by form, poetry, drama, etc. like 830

1 Low German
2 Frisian Old Saxon
3 Dutch literary Flemish

Dutch poetry

Middle ages 1200-1450
1 Jacob van Maerlant 1235-91 (2 Heinrije van Veldeke 1200, see 831.23) 3 Jan van Brabant 1250-94 4 Melis Stone 1310 5 Dirck Potter 1428

Chambers of rhetoric 1450-1600
1 Antonius de Rovere 1482 2 Anna Bijns 1500 3 Matthijs de Castel- lein 1488-1548 4 Cornelis Everaert 1530 5 Jan Baptist Houwaert 1533-99 6 Dirk Volkerszoon Coornhert 1522-90 7 Philipp Marnix 1538-98 8 Cornelis van Ghistele 1600 9 Minor writers

Period of the Republic 1600-1700
1 Jacob Cats 1577-1660 2 Joost van der Vondel 1587-1679 3 Marie Tasselschade Visscher 1594-1649 4 Constantijn Huyghe 1590-1687 5 Reyer Anso 1626-69 6 Geraert Brandt 1626-85 7 Jan Antonissen van der Goes (Antonides) 1647-84 9 Minor writers

Poetic societies
1700-1800
1 Lucas Rotgans 1654-1710 2 Hubert Corneliszoon Poot 1689-1733 3 Arnold Hoogvliet 1687-1703 4 Sybrand Feitama 1694-1758 5 Willem van Haren 1710-68 6 Jacob Bellamy 1757-86 7 Hieronymus van Alphen 1746-1803 9 Minor writers

Modern period 1800-
1 Willem Bilderdijk 1756-1831 2 Jan Frederik Helmers 1767-1813 3 Cornelis Loops 1768-1834 4 Hendrik Tollaens 1780-1856 5 Isaac da Costa 1798-1860 6 Jan Jacob Lodewijk ten Kate 1819-89 9 Minor writers

Dutch drama

Period of the Republic 1600-1700
1 Gerbrand Adriaenszoon Bredero 1585-1618 2 Corneliszoon Hooft 1581-1647 3 Samuel Costa 1580-1650 4 Jan Vos 1620-67 5 Guillelmus Opier 1619-89 6 Joachim Oudaan 1628-92 9 Other

Poetic societies
1700-1800
1 Pieter Langendijk 1683-1756 2 Andries Pels 3 Balbasar Huydecoper 1695-1778 4 Onno Zwier van Haren 1713-79 5 Jan Nomsz 1738-1803 9 Minor writers

Modern period 1800-
1 Samuel Iperussoen Wiselius 1769-1845 2 Helvetius van den Bergh 1795-1865 3 Hendrik Jan Schimmel 1825-1906

Dutch fiction

Poetic societies
1700-1800
1 Elisabeth Bekker Wolff 1738-1804 2 Agatha Deken 1742-1804 3 Rijnvis Pelt 1753-1824

Modern period 1800-
1 Adriana Loosjes 1761-1818 2 Jacob Vosmaer 1783-1834 3 Jan Frederik Oltmans 1800-54 4 Jacob van Lennep 1802-68 5 Hendrik Conscience 1812-83 6 Anna Louisa Geertruida Bosboom-Toussaint 1812-86

Dutch essays

Poetic societies
1700-1800
1 Justus van Effen 1684-1735

Modern period 1800-
1 Johannes Henricus van der Palm 1763-1840 2 Reitier Cornelis Bakhuizen van den Brink 1810-65 3 Everhardus Johannes Potgieter 1808-75 4 Nicolaas Beets 1814-1903 5 Coenraad Busken Huet 1826-86

Dutch satire and humor

Middle ages
Reinaert (van den vos Reinaerde) see 837.31

Poetic societies
1700-1800
1 Arend Simonszoon Fokke 1755-1812
Dutch miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge.

In classification, books are placed with their subjects, theology, history, etc.

Middle ages
Jan van Bocundal (Jan de Clerc) Chronicles, 1280-1365
1200-1450

Poetic societies
Simon Stijl, History, 1731-1804; Jan Wagenaar, History, 1700-73
1700-1800

Platt Deutsch

Scandinavian

Old Norse

Icelandic

Faroese

Swedish literature

Swedish poetry

Middle ages
1200-1520

Reformation
1. Olaus Petri 1496-1552 2. Laurentius Petri 1499-1573
1520-1640

Age of Stjernhjelm
1. Georg Stjernhjelm 1598-1672 2. Lars Johansson (Lucidor) 1640-74
1640-1740

Age of Dalin
1740-80

Age of Gustavus
1780-1800

Modern period
1800-

Swedish drama

Reformation
3. Andreas Johannis Prytz 1599-1653
1520-1640

Age of Stjernhjelm
Isak Bärk 1701
1640-1740

Age of Gustavus
1780-1800

Modern period
1800-

Swedish fiction

Age of Dalin
1. Jakob Henrik Mörk 1714-93 2. Jakob Vallenberg 1746-78
1740-1780

Modern period
1800-
Swedish essays

Modern period

1800-
1 Benjamin Karl Henrik Höijer 1797-1812
2 Lorenzo Hammarskjöld 1785-1827
3 Bernhard Elis Malmström 1816-65
4 Karl Julius Lénström 1811-93
5 Gustaf Hakan Jordan Ljunggren 1823-1905
6 Karl Rupert Nyblom 1832-1907

Swedish satire and humor

Modern period

1800-
1 Johan Anders Wadman 1777-1837
2 Erik Sjöberg (Vitalis) 1794-1828
3 Kristian Erik Fahlcrantz 1790-1866
4 Vilhelm August Detlof von Braun 1813-60
5 Gunnar Wennerberg 1817-1901

Swedish miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, theology, history, etc.

Middle ages

1200-1520
Canon Mattias, Bible translation, 1350; Peder Mänsson, Encyclopaedia, 1534

Reformation

1520-1640
1 Peder Andersson Svart, History, 1562
2 Erik Gøransson Tegel, History, 1580-1636
3 Ægidius Girs, History, 1580-1639
4 Gustavus Adolphus (king), History, 1594-1632

Age of Stenhamre

1640-1740
1 Olof Rudbeck, Medicin, 1630-1702
2 Urban Hjarne, 1641-1724
3 Johan Peringskjöld, History, 1654-1720
4 Anders Rydellius, Philosophy 1671-1738
5 Anders Celsius, Astronomy, 1701-44
6 Emanuel Swedenborg, Theology, 1688-1772

Age of Dalin

1740-1780
1 Karl Gustaf Tessin, History, 1695-1770
2 Karl von Linne, Botany 1707-78
3 Johan Iher, Philology, 1707-80
4 Sven Lagerbring, History, 1707-87
5 Anders Johan von Höpken, History, 1712-80
6 Olof Celsius, History, 1716-94
7 Anders af Botin, History, 1724-90
8 Torbern Olof Bergman, Chemistry, 1735-84
9 Karl Vilhelm Scheele, Chemistry, 1742-86

Modern period

1800-
1 Erik Gustaf Geijer, History, 1783-1847
2 Anders Magnus Strinzholm, History, 1786-1862
3 Anders Fryxell, History, 1795-1881
4 Frederik Ferdinand Carlson, History, 1811-87

Danish and Norwegian literature

Danish and Norwegian poetry

Middle ages

1100-1500
1 Anders Sunesen 2 Ballads (Kjæmpeviser)

Reformation

1500-1560
1 Hans Tassen 1494-1561

Learned period

1560-1700
1 Anders Arrebo 1587-1637
2 Anders Bording 1619-77
3 Peder Syv 1631-1702
4 Thomas Kingo 1634-1703
5 Peder Dass 1647-1708
6 Dorte Engelbrechtsdatter 1635-1716
7 Søren Terkelse 1661
8 Jacob Vorm 1642-93

Age of Holberg

1700-1750
1 Jørgen Sorterup 1662-1723
2 Tøger Reenborg 1656-1742
3 Kristian Falster 1690-1752
4 Hans Adolph Bronson 1694-1764
5 Plumbagin 1705-58
6 Kristian Frederik Wadskjær 1712-70

Period of enlightenment

1730-1800
1 Kristian Braumann Tullin 1728-65
2 Johannes Evald 1743-81
3 Johan Herman Vessel 1742-85
4 Edvard Storm 1749-94
5 Kristian Henriksen Pram 1756-1821
6 Jens Baggesen 1764-1826
7 Knud Lyne Ræbek 1760-1830
8 Malte Konrad Bruun 1775-1826
9 Minor writers

Modern period

1800-
1 Adam Gottlob Oehlenschläger 1779-1839
2 Bernhard Severin Inge- man 1789-1862
3 Nicolai Frederik Severin Grundtvig 1783-1872
4 Johannes Carsten Hauch 1790-1871
5 Henrik Wergeland 1808-45
6 Ludvig Bödcher 1793-1874
7 Frederik Paludan-Müller 1809-76
8 Carl Ploug 1813-94
9 Minor writers
Danish and Norwegian drama

Learned period 1560-1700
1 Hieronymus Justesen Rauch 1539-1607 2 Hans Kristensen Sthen 1544-1603 3 Peder Jensen Hegelund 1542-1614 4 Hans Thomsen Stege 1628 5 Jens Lønberg 1663-1700

Age of Holberg 1700-1750
1 Ludvig Holberg 1684-1754

Period of enlightenment 1750-1800
1 Charlotte Dorothea Biehl 1731-188 2 Johan Nordal Bruun 1745-1816 3 Ole Johan Samsøe 1759-1806 4 Enevold Falsen 1755-1808 5 Thomas Thaarup 1749-1821 6 Kristian Levin Sander 1756-1819 7 Olaf Kristian Olufsen 1764-1827 8 Peter Andreas Heiberg 1758-1841 9 Minor writers

Modern period 1800-

Danish and Norwegian fiction

Modern period 1800-
1 Thomasine Christine Gyllenbom-Ehrensald 1773-1856 2 Steen Steensens Blicher 1782-1848 3 Christian Winther 1796-1876 4 Hans Christian Andersen 1805-75 5 Meyer Aaron Goldschmidt 1819-87 6 Holger Drachmann 1846-1908 7 Bjørnstjerne Bjørnson 1832-1910

Danish and Norwegian essays

Period of enlightenment 1750-1800
Rasmus Nyerup 1759-1829

Modern period 1800-
1 Niels Mathias Petersen 1781-1862 2 Søren Aaby Kierkegaard 1813-55 3 Rudolph Keyser 1803-64 4 Peter Andreas Munch 1810-63 5 Johan Sebastian Cammermeyer Weihaven 1827-73 6 Georg Morris Cohen Brandes 1842-

Danish and Norwegian satire and humor

Period of enlightenment 1750-1800
1 Peder Magnus Troel 1743-96 2 Peder Kofoed Troel 1754-84 3 Thomas Kristoffer Bruun 1750-1834

Danish and Norwegian miscellany

The subdivisions of 8 show the leading writers in other branches of knowledge.
In classification, books are placed with their subjects, theology, history, etc.

Middle ages 1100-1500
1 Saxo (Longus) Grammaticus, History, -1208 2 Svend Aagesen, History

Reformation 1500-1560
1 Kristiern Pedersen (Father of Danish literature) 1480-1554 2 Povel Eliesen, Sermons, 1480- 3 Hans Mikkelsen, Bible translation, -1532 4 Peder Plade (Palladium) 1503-60 5 Henrik Smith, Medicin, -1563

Learned period 1560-1700

Age of Holberg 1700-1750

Gothic
840 French literature

840.1 Philosophy .2 Compends .3 Dictionaries .4 Essays, lectures, and addresses on French literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

841 French poetry

.02 Dramatic .03 Romantic and epic .04 Lyric, ballads .05 Didactic
.06 Descriptive .07 Satiric and humorous .08 Collections .09 History of French poetry

.1 Early French 842–1400

Chanson de Roland Chanson de geste
Wace, Robert
Marie de France
Chrestien de Troyes
Quesnes de Bethune
Thibaut 4, comte de Champagne
Rutebeuf
Roman de la rose
Guillaume de Lorris, Jean de Meung

.19 Minor poets

.2 Transition period 1400–1500

Chartier, Alain
Orléans, Charles duc d'
Coquillart, Guillaume
Baud, Henri
Villon, François

1386–1458
1391–1465
1421–1510
1430–95
1431–85

.29 Minor poets

.3 Renaissance 1500–1600

Daurat, Jean
Du Bellay, Joachim
Belleau, Remy
Ronsard, Pierre de
Thiard, Pontus de
Bail, Jean Antoine de
Saluste du Bartas, Guillaume de
Desportes, Philippe

1510–88
1524–60
1528–77
1524–85
1521–1605
1532–89
1544–90
1546–1606

.39 Minor poets

.4 Classic period 1600–1715

Malherbe, François de
Maynard, François
Racan, Honorat de Bueil, marquis de
Chapelain, Jean
La Fontaine, Jean de
Deshoulières, Antoinette (du Ligier de la Garde), Madame
Chaulieu, Guillaume Amfrye de

1555–1628
1582–1646
1589–1670
1595–1674
1621–95
1637–94
1639–1720

.49 Minor poets
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<td>18th century 1715-89</td>
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<td>Rousseau, Jean Baptiste 1670-1741, Racine, Louis 1692-1763, Pompignan, Jean Jacques de Franc, marquis de 1709-84, Delille, Jacques 1738-1813, Roucher, Jean Antoine 1745-94, Chénier, André Marie de 1762-94, Parry, Evariste Désiré Desforges, vicomte de 1753-1814</td>
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<td>842</td>
<td>Revolution and empire 1789-1815</td>
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<td>Lebrun, Ponce Denis Étouard 1729-1807, Fontanes, Louis, marquis de 1735-1821, Parseval Grandmaison, François Auguste 1759-1834, Luce de Lancival, Jean Charles Julien 1764-1810, Désaugiers, Marc Antoine Madeleine 1772-1827, Campenon, François Nicolas Vincent 1772-1843, Millevoye, Charles Hubert 1782-1816</td>
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<td>842.77</td>
<td>Early 20th century 1901-</td>
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Transition period 1400-1500

- Gresban, Arnoul
- Michel, Jean
- Gringoire, Pierre

Minor dramatists

Renaissance 1500-1600

- Le Coq, Thomas
- Baif, Lazare de
- La Peruse, Jean Bastier de
- Jodelle, Etienne
- Grévin, Jacques
- La Taille, Jean de
- Garnier, Robert
- Larivey, Pierre de

Minor dramatists

Classic period 1600-1715

- Corneille, Pierre
- Molière, Jean Baptiste Poquelin, called
- Cornelle, Thomas
- Boursault, Edme
- Racine, Jean
- Brueys, David Augustin de
- Dufresny, Charles Rivière
- Baron, Michel Boyron, called

Minor dramatists

18th century 1715-89

- La Motte, Antoine Houdart de
- Crébillon, Prosper Jolyot de
- Destouches, Philippe Néricault
- Marivaux, Pierre Carlet de Chamblain de
- Piron, Alexis
- Voltaire, François Marie Arouet de
- Sédaine, Michel Jean
- Beaumarchais, Pierre Augustin Caron de

Minor dramatists

Revolution and empire 1789-1815

- Ducis, Jean François
- Collin-Harleville, Jean François
- La Harpe, Jean François de
- Fabre d'Églantine, Philippe François Nazaire
- Andrieux, François Guillaume Jean Stanislas
- Chenier, Marie Joseph
- Picard, Louis Benoît
- Lemerrier, Louis Jean Népomucène

Minor dramatists
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61 St Pierre, Jacques Henri Bernardin de 1737-1814
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63 Constant de Rebecque, Henri Benjamin 1767-1830
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70 Constitutional monarchy 1815-48
71 Beyle, Marie Henri [de Stendhal] 1783-1842
72 Nodier, Charles 1790-1844
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75 Souvestre, Émile 1806-54
76 Dumas, Alexandre, the elder 1806-70 See 842.77
77 Gautier, Théophile 1811-72
78 Hugo, Victor Marie, comte 1802-85
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849 Provençal literature

Poetic in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixed. Country under rule of counts, nominally subject to emperor, really independent till 1486, then reunited to France.

Epic poetry
Boethius

Lyric poetry

Minor poetry Didactic

Golden age 1100-1300
Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important

Romances of chivalry
Girard de Rissional

Historical poetry
Croisade contre les Albigeois

Romans d'aventures
Flamenca

Lyric poetry

Bernart de Ventadorn, flourish about 1140-95

Born, Bertran de
Arnaut, Daniel
Bornell, Guiraut de

Minor poetry
Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours

Aftermath 1300-1500
Downfall of language and literature owing to lack of content and to political and social causes, specially the crusade against the Albigeos

Poets of school of Toulouse
Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a craft. Las Leys d'Amors is the code of poetic laws, by Guillem Moliner, chancellor of 'Consistory de la gaya sciensa' establisht at Toulouse 1324. First prize a golden violet. When in danger of perishing, consistory revived in 1484 and poetic exercises styled 'Jeux floraux'

La Noble Leyczon
Religious poetry of Waldenses

Minor poetry

Decadence 1500-
Provençal sinks to position of a dialect despité fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852

Goudouli, Pierre de
Despournins, Cyprien
Jasmin, Jacques
Roumanille, Joseph
Aubanel, Jos. Marie J. Baptiste Théodore
Mistral, Frédéric

Minor poetry
Catalan literature

Catalan poetry

1st period

1200-1350

Catalonia before 1137 ruled by French counts, then united to Aragon. Language is closely allied to Provençal, in which first poets wrote. MSS scattered; few as yet printed. Literature begins with James I (1213-76) who made Catalan the state language. For Ramon Muntaner see 849.9813

1 Raimon Lull 1225-1315 2 Febler 1250 9 Minor poets

2d period

1350-1450

Imitation of Neo Provençal, French and Italian, specially of Dante, Petrarch and Boccaccio. Some flashes of originality. Fra Rocaberti. Imitation of Dante

Age of perfection

1450-

From 16th century, Catalan literature merged in Spanish, tho some writers still employ idiom, e. g. 'Balaguer'

1 March, Ausias 1460, greatest of Catalan poets 2 Fenolla, Bernard 3 Jacme Roig (satiric) 4 Farrer 5 Serafi 6 Pujol 7 Garcia 9 Minor poets

Catalan fiction

Age of perfection

1450-

Joanet Martorel -1400. Tirant lo Blanch, a chivalric romance

Miscellany

1st period

1200-1350

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner

1 James I (The Conqueror) 1213-76 2 Desclot, Bernardo 3 Muntaner, Ramon 1265-1340 4 Ximenes 9 Minor authors

2d period

1350-1450

Prose resists foreign influences better than poetry. Many philosophic and theologic writings beside historical works

1 Tomich 2 Turell 9 Minor writers
Italian literature

850

850.1 Philosophy .2 Compendia .3 Dictionaries .4 Essays, lectures and addresses on Italian literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History

851

Italian poetry

.1 Early Italian Age of Dante -1375
To the death of Boccaccio, 1375

.11 Protonotario, Stefano -1250
.12 Arezzo, Guittone d' -1294
.13 Guincelli, Guido -1276
.14 Cavalcanti, Guido 1260-1300
.15 Alighieri, Dante 1265-1321
.16 Pistoia, Cino da 1270-1336
.17 Uberti, Fazio degli -1369
.18 Petrarcha, Francesco 1304-74
.19 Minor poets

.2 Period of classic learning 1375-1492
From the death of Boccaccio, 1375, to the death of Lorenzo il Magnifico, 1492

.21 Frezzi, Federigo -1416
.22 Bojardo, Matteo 1430-94
.23 Medici, Lorenzo dei (Il Magnifico) 1448-92
.24 Poliziano, Angelo 1454-94
.25 Benivieni, Girolamo 1453-1542 See 852.22
.26 Sannazzaro, Jacopo 1458-1530
.29 Minor poets

.3 Age of Leo the Tenth 1492-1542
From the death of Lorenzo il Magnifico, 1492, to the convocation of council of Trent, 1542

.31 Bembo, Pietro 1470-1547
.32 Ariosto, Lodovico 1474-1533
.33 Rucellai, Giovanni 1475-1526
.34 Molza, Francesco 1483-1544 See 853.33
.35 Tasso, Bernardo 1495-1569
.36 Alamanni, Luigi 1495-1556
.37 Guidiccioni, Giovanni 1500-41
.38 Casa, Giovanni della 1503-56
.39 Minor poets

.4 Later 16th century 1542-85
From the convocation of council of Trent, 1542, to the pontificate of Sixtus 5, 1585

.41 Costanzo, Angelo di 1507-91
.42 Rota, Bernardino 1509-75
.43 Tansillo, Luigi 1510-68
.44 Magno, Celio 1536-1602
.45 Guarini, Giovambattista 1537-1612
.46 Tasso, Torquato 1544-95
.47 Baldi, Bernardino 1553-1617
.49 Minor poets
Period of decline 1585–1748

From pontificate of Sixtus 5, 1585–90, to peace of Aix-la-Chapelle, 1748

.51 Chlabrera, Gabriele 1552–1637
.52 Marini, Giovambattista 1569–1625
.53 Testi, Fulvio 1593–1646
.54 Filicaia, Vincenzo 1642–1707
.55 Guidi, Alessandro 1659–1712
.56 Manfredi, Eustachio 1674–1738
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.59 Minor poets

Period of renovation 1748–1814

From peace of Aix-la-Chapelle, 1748, to congress of Vienna, 1814

.61 Paradisi, Agostino 1736–83
.62 Mascheroni, Lorenzo 1750–1800
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.64 Monti, Vincenzo 1754–1828
.65 Cassi, Francesco 1778–1846
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.67 Arici, Cesare 1782–1836
.68 Sestini, Bartolomeo 1792–1822
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Early 19th century 1814–59

From congress of Vienna, 1814, to war of independence, 1859

.71 Berchet, Giovanni 1783–1851
.72 Rossetti, Gabriello 1783–1854
.73 Manzoni, Alessandro 1785–1873 See 853.24
.74 Marchetti, Giovanni 1790–1852
.75 Leopardi, Giacomo 1798–1837
.76 Carrer, Luigi 1801–50
.77 Regaldi, Giuseppe 1809–83
.78 Prati, Giovanni 1815–84
.79 Minor poets

Later 19th century 1859–1900

From war of independence, 1859, to 1900

.81 Aleardi, Aleardo 1810–78
.82 Zanella, Giacomo 1820–88
.83 Gnoli, Domenico 1839–
.84 Carducci, Giosuè 1835–1907
.85 Fogazzaro, Antonio 1842–1911
.86 Rapisardi, Mario 1844–
.87 Guerrini, Olindo 1845–
.88 Minor poets

Early 20th century 1901–

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.1 Early Italian Age of Dante 1375
.2 Period of classic learning 1375–1492
.21 Belcari, Feo 1410–84
.22 Poliziano, Angelo 1454–94 See 851.24
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- Machiavelli, Niccolò 1469-1527 See also 854.31
- Dovizi, Bernardo (Cardinal Bibbiena) 1470-1520
- Trissino, Gian Giorgio 1478-1550
- Aretino, Pietro 1492-1556
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.7 Early 19th century 1814-59
.71 Giusti, Giuseppe 1809-50
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.81 Gubernatis, Angelo de 1840-
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.7 Satire and humor .8 Miscellany .9 Rumansh literature
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Spanish literature

860

860.1  Philosophy .2  Compendes .3  Dictionaries .4  Essays .5  Periodicals .6  Societies .7  Study and teaching .8  Collections .9  History

861  Spanish poetry

.02  Dramatic .03  Romantic and epic .04  Lyric, ballads .05  Didactic .06  Descriptive .07  Satiric and humorous .08  Collections .09  History of Spanish poetry

1 Early Spanish 1369

In 711 the Visigothic kingdom, founded in the 5th century, was overthrown by Arabs; 711-1492 Arabic period or Age of reconquest. Literature began in first half of 12th century. Earliest poetry, epic; subjects national, themes war and religion (861.11-12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312-50, thereafter reaction again toward didactic (861.16). Under Alfonso the Wise, 1252-84, a general intellectual awakening, but leading to greater results in prose than in poetry. Thru him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11  Primitiv monuments

.12  Poema de mio Cid

.13  Berceo, Gonzalo de 1196-1266

.14  Segura de Astorga, Juan Lorenzo 1250

.15  Yañez Ruy (Cronica del Rey Alfonso Onceno)

.16  Sem Tob, Rabbi 1350

.19  Minor poets

2 Age of imitation 1369-1516

Henry 2d to Carlos 1st, Charles 5th of Germany, 1479, Union of Castile and Aragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were 3 distinct schools:

1  Provençal, specially influential at court
2  Italian (Dante) or Allegoric, introduced by Francisco Imperial, a Genoese. (Mena, 861.22)
3  Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21)

.21  Lopez de Ayala, Pedro 1332-1407

.22  Mena, Juan de 1411-56

.23  Mendoza, Inigo Lopez de, Marqués de Santillana 1398-1458

.24  Manrique, Jorge 1449-79

.25  Los Cancioneros

.26  Los Romances  Collections of poetry

.27  Romancero del Cid

'Romances' popular poetry, peculiar to Spain, and generally anonymous period of production, from earliest times to 18th century. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492

.29  Minor poets
Golden age 1516-1700

Rule of House of Austria. Painting culminates in this period: Morales 1509-86; Coello 1515-90; Joanes 1523-79; The Herrera — 16th century; Ribera 1588-1656; Zurbaran 1598-1661; Velazquez 1599-1660; Cano 1601-67; Murillo 1618-82, etc. Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death. Great number of poets. Nothing notable in epic; lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500 (?)-1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of 3 schools follows in which the Italian wins the major influence. Thereafter appear 2 new schools:

1 Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2 Sicilian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of 'bad taste' appear (founder of school, Alonso de Ledesma 1552-1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. Bad taste consisted in artificialities, exaggerations, obscurities, etc.

Vega, Garcilaso de la 1503-36
Castillejo, Cristóbal de 1494-1596
Leon, Luis Ponce de 1528-91
Leon is equally important in prose
Los Argensolas: Lupercio 1563-1613
Bartolomé Leonardo 1564-1631
Herrera, Fernando de 1534-97
Mendoza, Diego Hurtado de 1593-75
Góngora y Argote, Luis de 1561-1627
Rioja, Francisco de 1600-59
Minor poets

18th century 1700-1800

At death of Carlos 2d (1700) war of succession resulted in firm establishment of house of Bourbon which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, 'bad taste' everywhere dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish academy, 1714) and doctrinal reform in French sense, proclaimed by Luyan (1792-94) in La poética, etc. Thereafter a kind of revival. 3 schools formed:

1 Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44)
2 Antique national, protesting against introduction of French taste. Huerta (861.43)
3 Salamanca school, an attempt to reconcile the first 2, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). 'Prosaisms' production of exaggerated opposition to Gongorism or 'bad taste' also characterizes period. Influence of French encyclopedism also manifests. Development of science checkt by religious (Inquisition) and political despotism. Rich development of fables and apolols in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty

Moratin (the Elder), Nicolás Fernandez de 1737-80
Cadalso, José de 1741-82
Huerta, Vicente Antonio García de la 1734-87
Samaniego, Félix María de 1745-1801
Yriarte, Tomás de 1750-91
Valdés, Juan Meléndez 1754-1817
Iglesias de la Casa, José 1748-91
Cienfuegos, Nicasio Alvarez de 1764-1809
Minor poets
19th century 1800–1900

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1870–73 Amadeo (Savoy house), 1873, Amadeo abdicates and republic proclaimed; monarchy restored with Alfonso 12th in 1875.


51 Quintana, Manuel José 1772–1857
52 Espronceda, José de 1810–42
53 Zorrilla y Moral, José 1817–90
54 Gutierrez, Antonio García 1812–84
55 Gil y Zárate, Antonio 1792–1861
56 Hartzembusch, Juan Eugenio 1806–80
57 Minor poets

Early 20th century 1901–

862. Spanish drama

.2 Age of imitation 1309–1516

Evidences of existence of 'mysteries' but no remains
.21 Enzina, Juan del (?)1468–1534
.22 Vicente, Gil (?)1450–1536

.3 Golden age 1516–1700

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 'Lope' had written 1500 dramas), 30,000 dramas composed by beginning of 18th century. At opening of period Church tried to check development of profane drama, placing nearly all in the Index, Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period.

Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.32); thereafter decadence

31 Vega Carpio, Lope Félix de 1562–1635
32 Castro y Belvis, Guillén de 1567–1621
33 Tellez, Gabriel (Tirso de Molina, pseud.) (?)1570–1648
34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639
35 Calderon de la Barca, Pedro 1600–81
36 Rojas y Zorrilla, Francisco de 1607–
37 Moreto y Cabaña, Agustin 1618–69
38 Minor dramatists

.4 18th century 1700–1800

Complete decadence of drama in last years of old monarchy. Revival in 18th century, following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National school voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of write. Comella (862.41) — Period of unrest; old ideas can not be reestablished, new can not be naturalized. For Moratin the elder, see 861.41; Huerta, 861.43

41 Comella, Luciano Francisco 1716–79
42 Moratin, Leandro Fernandez de 1760–1828
43 Cruz, Ramon de la (Light comedies) 1731–95
44 Minor dramatists

.5 19th century 1800–1900

Zorrilla (861.53), Gutierrez (861.54), and Rubi (862.52) represent 'romantic' movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56

51 Martinez de la Rosa, Francisco 1789–1862
52 Rodriguez Rubi, Tomás 1817–90
53 Bretón de los Herreros, Manuel 1795–1873
54 Minor dramatists

.6 Early 20th century 1901–

601 Contemporary drama
Immensely vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605]

Books of chivalry

Golden age 1516-1700

Real novel replaces old books of chivalry about 1500. 'Picaresca,' or 'rogue' novel characteristic of this period; a result of the state of society following wars of Charles 1st and Philip 2d, e.g. Mendoza's Lazarillo de Tormes. For Mendoza, see 861.36

Montemayor, Jorge de 1520-61

Cervantes Saavedra, Miguel de 1547-1616

Minor novelists

18th century 1700-1800

19th century 1800-1900

For Breton de los Herreros, see 862.53; and Rodriguez Rubl, 862.52

Larra, Mariano José de [Figaro] 1809-37

Mesonero y Romanos, Ramón de 1803-82

Arrom, Cecilia Boehl de [Fernan Caballero] 1797-1877

Minor writers

Early 20th century 1901-

Spanish essays

Spanish oratory

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrain'd. Sacred eloquence less employ'd by Spanish church than by French or English. Gongorism or 'bad taste' conquers here as elsewhere

Early Spanish -1369

Age of imitation 1369-1516

Golden age 1516-1700

For Luis de Leon, see 861.33; and Luis de Granada, 868.32

18th century 1700-1800

For Jovellanos, see 868.42; and Valdés, 861.46

19th century 1800-1900

Olozaga, Salustiano de 1803-73

Castelar, Emilio 1832-99

Early 20th century 1901-

Spanish letters

Golden age 1516-1700

Naturalness of old times changed with majestic court and rigid etiquet of Charles 5th. For Santa Teresa, see 868.33

Avila, Juan de 1502-69

Perez, Antonio 1549-1611

Minor writers
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<td>For Cadalso, see 861.42; and Moratin the younger, 862.42</td>
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<td>.41</td>
<td>Isla, José Francisco de (el Padre) 1703-81</td>
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<td>Age of imitation 1369-1516</td>
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<td>General and special histories, books of travel, works called forth by Boccaccio's Corvaccio, etc.</td>
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<td>.3</td>
<td>Golden age 1516-1700</td>
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<td></td>
<td>Didactic prose. Considerable development, tho less than poetry, owing in great measure to political and religious restraints. 'Bad taste' manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic school. For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3</td>
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<td>.31</td>
<td>Mariana, Juan de, founder of Spanish history 1536-1623</td>
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<td>Granada, Luis de 1504-88</td>
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<td>Teresa de Jesús, Santa 1513-82</td>
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<td>.34</td>
<td>Cruz, San Juan de la 1542-91</td>
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<td>.35</td>
<td>Rivadeneyra, Pedro de 1527-1611</td>
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<td>.36</td>
<td>Saavedra Fajardo, Diego de 1584-1648</td>
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<td>18th century 1700-1800</td>
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<td>Under Carlos 3d (1759-88) scientific studies took a fresh start, due largely to Feijóo, who attempted intellectual emancipation of Spain. Prose advances under French influence, Gallicisms introduced</td>
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<td>Feijóo y Montenegro, Benito Jerónimo 1676-1764</td>
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<td>For Hartzenbusch, J E, see 861.56</td>
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<td>Gayangos, Pascual de 1809-97</td>
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<td>Rios, José Amador de los 1818-78</td>
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<td>Medieval and modern Greek</td>
<td>Literature of minor languages</td>
</tr>
</tbody>
</table>
History

900 History in general

901 Philosophy, theories, etc. History of civilization

902 Compends, chronologies, charts, outlines

903 Dictionaries, cyclopedias, etc.

904 Essays, lectures, addresses

905 Periodicals, historical magazines

906 Societies, transactions, etc.

907 Education, methods of teaching, writing, etc.

See also 371.3

908 Polygrapic, collected works, extracts, etc.

909 Universal and general modern histories

For general Ancient histories, see 930

.1 A.D. 476—1199 .5 1500—1599

.2 1200—1299 .6 1600—1699

.3 1300—1399 .7 1700—1799

.4 1400—1499 .8 1800—1899

910 Geografy and travels

Including topography, maps, antiquities, descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and costumes

For directories, guidebooks, gazetteers, etc. of special countries or geographical sections

see under those sections, 914—919

.1 Traveler's manuals, guidebooks

.2 Dictionaries, gazetteers

.3 Circumnavigations, ocean travel, shipwrecks and disasters, piratic adventures

.5 Periodicals

.6 Societies

.7 Study and teaching of geografy: school map drawing

For primary teaching of geography see 372.89

.8 Collections of travels, etc.

.9 History of geografy, travels, explorations, etc.
911 Historic Growth and changes in political divisions, etc. Subdivided like 930-999

912 Maps, atlases, plans of cities, etc. Subdivided like 930-999

913 Antiquities, archeology, of special countries
See also 220.93 Biblical antiquities; 340.3 Legal antiquities; 571 Prehistoric archeology; 930 Ancient history; 350 Special customs. 913 is divided like 930-999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African

914 Europe 914-919 is subdivided like 940-999. Whenever these main geographic headings occur they may be subdivided exactly like History. The full list of subheads is printed only under 940-999. In assigning numbers to travels, use the history tables, insert 1 after the initial 9, and move the decimal point; e.g. Guide to N.Y. city is 917.471, for N.Y. city in history tables is 974.71

915 Asia

916 Africa

917 North America

918 South America

919 Oceanica and Polar regions

920 Biografy

Including autobiografy, diaries, personal narratives, eulogies, biografic dictionaries, etc. All biografy is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i.e. the biografy of science is divided like science itself, see 500-599. Lives of chemists are 923.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful. Another plan is to scatter biografy with the other books, leaving 920-928 blank, or using them only for general works, cross references, etc. This simply omits the first 2 figures 92, and the life of a botanist is 580 instead of 925.8, and goes with botanic books. Lives which will not go under any hed without 'forcing' are best put in a single alfabet under the 3 figures 920 for men and under 920.7 for women

General and collectiv by localities

Including only collected lives too general to go under any subject heding

.01 Universal

.02 Partial collections not limited to any special country or subject

.03 Ancient

.04 Of Europe

.05 " Asia

.06 " Africa

.07 " North America

.08 " South America

.09 " Oceanica
BIOGRAFY

920 Individual and collectiv by subjects
.1 Bibliografers
.2 Librarians
.3 Encyclopedists
.4 Publishers Booksellers
.5 Journalists
.6 Academicians
.7 Women Collected, and individual lives not clearly going with any subject
.8 Eccentrics, cranks, fools, insane, etc. See also 132.1 Insanity
.9 Other special classes not included in 921–928, e.g. phrenologists, somnambulists, mindreaders, magicians, etc.

921 Of philosophy
.1 American
.2 English Scotch
.3 German
.4 French
.5 Italian
.6 Spanish
.7 Slavic
.8 Scandinavian and other modern
.9 Ancient Oriental Patristic Scholastic See 180–189

922 Of religion: clergy, missionaries, preachers
922.1–922.88 may be subdivided for nationality like 930–999
.1 Primitiv apostles, fathers, etc. oriental, Greek, Russian
See 225.92 New Testament biografy
.2 Roman catholic: popes, cardinals, etc.
.21 Lives of popes
.3 Anglican and protestant episcopal
.4 Continental protestant: Lutheran, Huguenot
.5 Presbyterian and congregational
.6 Baptist Immersionist
.7 Methodist
.8 Unitarian, universalist and other
.81 Unitarian Universalist
.84 New church or Swedenborgian
.85 Christian science
.86 Quaker
.87 Mennonite
.88 Shaker
.89 Other minor Christian sects
922.9 Ethnic and other
.91 Atheists
.92
.93
.94 Brahman Buddhist
.95 Parsee
.96 Jews
.97 Mohammedan
.98 Mormon
.99 Minor nonchristian religions

923 Of sociology
923.1-923.8 may be subdivided for nationality, as in 930-999; e.g. the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551

.1 Chief rulers: kings, queens, emperors, presidents

.2 Political science: legislativ dep't, governors, politicians, statesmen, nobles, etc. For slaves, see 326.92

.3 Political economy: bankers, capitalists, financiers

.4 Law: judiciary dep't, lawyers, judges

.41 Criminals

.5 Administration: army and navy, civil servis

.6 Associations and institutions Philanthropists, etc.

.7 Education: teachers, school offisers, educators

.8 Commerce and communication: railway officials, merchants, etc.

.9 Manners and customs: society, travelers, discovery

924 Of philology

925 " science
926 " useful arts
927 " fine arts
928 " literature

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e.g. in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e.g. a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7

In adding figures for the subdivisions of literature, as in 810-899, class historians with miscellaneous authors as 8; i.e. Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet
BIOGRAFY

929  Genealogy and heraldry
         Genealogies
         Families
         Registers of births, baptisms, marriages, deaths
         Names of persons and places
         Epitafs
         Heraldry
         Peerage, precedence, titles of honor  Royal houses
         Orders of Knighthood
         St John of Jerusalem
         Templars
         Teutonic knights
         Garter
         Golden Fleece
         Holy Ghost
         Great Britain and Ireland
         Peerage  Royal houses
         Baronetage
         Knightage
         Dignities, precedence
         Landed gentry
         Visitations  Alphabed by counties
         Germany
         France
         Italy
         Spain
         Russia
         Scandinavia
         Minor countries
         Divided like 939.72
         Divided like 9:49; minor countries outside Europe are put together in 929.799
         Coats of arms, crests
         Flags

930  Ancient history  476 A.D.
    931  China
    932  Egypt
    933  Judea
    934  India
### Medo-Persia
- **.1** Chaldea
- **.2** Assyria Nineveh
- **.3** Media
- **.4** Babylonia
- **.5** Persia
- **.6** Parthia
- **.7** New Persian or Sassanian
- **.8** Mesopotamia
- **.9** Susiana

### Kelts

### Rome

#### Period divisions

| .01 | Kings | 753-509 B.C. |
| .02 | Republic | 509-31 |
| .03 | Conquest of Italy | 509-264 |
| .04 | Punic wars | 264-146 |
| .05 | Civil strife | 146-31 |
| .06 | Empire | 31 B.C.-476 A.D. |
| .07 | Constitutional Augustus—Illyrian emperors | 31-284 |
| .08 | Absolute | 284-476 |
| .09 | Division of empire | 395-476 |

#### Geografic divisions

- **.1** Liguria
- **.2** Gallia Cisalpina
- **.3** Venetia Istria
- **.4** Umbria Picenum Sabini, etc.
- **.5** Etruria
- **.6** Latium, Rome
- **.7** Southern Italy: Campania, Samnium, Apulia, etc.
- **.8** Sicily, Syracuse
- **.9** Sardinia Corsica

### Greece

#### Period divisions

| .01 | Mythical age | -776 B.C. |
| .02 | Growth of states | 775-500 |
| .03 | Persian wars Union of Greece | 500-479 |
| .04 | Athenian supremacy | 479-431 |
| .05 | Peloponnesian war | 431-404 |
| .06 | Spartan and Theban supremacy | 404-362 |
| .07 | Macedonian supremacy | 362-323 |
| .08 | Roman conquest of Greece | 323-146 |
| .09 | Greek subjection | 146 B.C.-323 A.D. |

Byzantine empire is clas 949.
<table>
<thead>
<tr>
<th>Region</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geografic divisions of Greece</td>
<td>Macedonia, Thessaly, Epirus, Acarnania, Aetolia, Locris, Doris, Phocis, Ithaca, Attica, Peloponnesus, Corinthia, Achaia, Elis, Arcadia, Argolis, Messenia, Laconia, Sparta</td>
</tr>
<tr>
<td>Minor countries</td>
<td>Grecian archipelago, Western Asia Minor, Eastern Asia Minor, Syria, Northwestern Asia, South Central Asia, Minor African countries, Southeastern Europe</td>
</tr>
<tr>
<td></td>
<td>Northern lands: Thasos, Lemnos, etc., Lesbos, Chios, Samos, Cyclades, Rhodes, Carpathos, Crete, Mysia, Troas, Lydia, Ionia, Caria, Bithynia, Phrygia, Pisidia, Lycia, Pamphylia</td>
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<td>Western Asia Minor: Mysia, Troas, Lydia, Ionia, Caria, Bithynia, Phrygia, Pisidia, Lycia, Pamphylia</td>
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<td>Eastern Asia Minor: Paphlagonia, Galatia, Pontus, Cappadocia, Cilicia, Commagene, Cyprus</td>
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<td></td>
<td>Syria: Upper Syria, Cappadocia, Commagene, Cyprus</td>
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<td></td>
<td>Northwestern Asia: Scythia, Sarmatia Asiatica, Colchis, Iberia, Armenia, Albania</td>
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<td>South Central Asia: Sogdiana, Hyrcania, Margiana, Bactriana, Ariana</td>
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<td>Minor African countries: Mauritania, Numidia, Africa Propria, Carthage, Cyrenaica, Marmarica, Libya, Ethiopia</td>
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<td></td>
<td>Southeastern Europe: Sarmatia Europa, Dacia, Vindelicia, Rhaetia, Noricum, Pannonia, Illyria, Moesia, Thracia</td>
</tr>
</tbody>
</table>
Modern history

940 Europe

From fall of the Western empire (Rome) A. D. 476

.1 Medieval Europe 476-1453
  For Byzantine empire see 949.5

.11 Rise of new nations 476-800

.14 Age of feudalism 800-1100
  See also 321.3 Feudalism (Political science)
  Charlemagne 768-814
  Norman conquests

.17 Age of chivalry 1100-1453
  To fall of Eastern empire (Constantinople) 1453

.18 Crusades 1096-1270
  See also church history, 270.4-.5
  1st crusade 1096 (Peter the Hermit)
  2d " 1147 (St. Bernard)
  3d " 1190 (Richard Coeur de Lion)
  4th " 1202 (Baldwin of Flanders)
  5th " 1212 (Children's crusade)
  6th " 1217 (Capture of Jerusalem)
  7th " 1228
  8th " 1248 (St. Louis)
  9th " 1270 "

.2 Modern Europe 1453-

.21 Renaissance period 1453-1517
  Discoveries and inventions

.22 Age of the reformation 1517-1789

.23

.24 30 years war 1618-48

.25

.26

.27 Napoleonic period 1789-1815

.28 19th century 1815-1914

.29

.3 Great war 1914-19

.31 Political history

.311 Causes

.312 Efforts to preserve peace
  See also 940.32 Diplomatic history

.313

.314 Results: terms of peace
MODERN HISTORY

940.315 Relations of special classes
Subdivided like the classification, using 9 for refugees, divided like 940-999 by country of origin. For classes not thus provided for see 940.316

2 Clergy
Church
Subdivide .3152-28 like 280, but use .315289 for sects in 289; e. g.
.31521 Greek catholic church
.31522 Roman " " Pope
.31523 Christian scientists
Use .31529 like 290; e. g.
.315296 Jews
.315297 Mohammedans Holy war

.316 Other special classes
1 Noncombatants
2 Pacifists
3 Enemy sympathizers

.318 Relations of special interests
Aspects
Divided generally like the classification

.32 Diplomatic history
See also 940.31-.314 Political history

.33 Groups of countries: allies and neutrals
As a body; for individual countries see 940.34-.39

.332 Entente
.334 Teuton allies, Central powers
.335 Neutrals
.34-39 Individual countries
Divided like 940-999
Under each country farther subdivision may be made with the following numbers, if its part in this war is class here insted of with the rest of its history:
01 Political history Causes
02 Diplomatic " "
03 Local (states, counties provinces, cities)
04 Military organization
Class operations in 940.4
05 Aspects: economic and other
06 Celebrations
07 Prisons, etc.
08 Personal narrativ
09 Illustrativ

.4 Military history
.405 Frightfulness, atrocities
As military expedient. For other relations see Atrocities in Relativ' index. But, since the avowd policy of one group of belligerents was 'frightfulness', it pervades all literature of this war.

.41 Land operations
.42-43 Special campaigns and battles
.44 Air warfare
.45 Naval history
.46 Celebrations, commemorations
Usually better class with event commemorated. For American patriotic societies of this war, see 369.186

.461 War meetings
.462
.463 Flag presentations
.464 Decorations: presentation
940.465  Monuments, memorials
   General, of the war or a country's part in it; but class memorials of a
   special event with that event
   By country  Divided like 940-999
   .467  Rolls of honor  Lists of dead

   Prisons, hospitals, charities

   .467  Prisons
       Divided like 940-999 and including internment camps
   .473  Exchange of prisoners

   .475  Medical department, surgeons, nurses
       See also 616 and 617
       By country maintaining  Divided like 940-999
   .476  Hospitals, hospital sketches
       By country in which located  Divided like 940-999
       By country maintaining

   .477  Welfare work
       1  Red Cross
       2  Salvation Army
       3  Y M C A
       4  Y W C A
       5  Knights of Columbus
       6  Young Men's Hebrew ass'n
       7  Other: college units, etc.
       8  By country conducting  Divided like 940-999
       9  By country in which conducted  Divided like 940-999

   .478  Religious life, chaplains, etc.

   .48  Personal narrativs, secret servis
       When relating to some special battle or event, class with subject
   .481  Entente allies
   .482  Central powers
   .483  Army life, Entente allies
   .484  "  Central powers
   .485  Secret servis, spies
   .486
   .487  German secret servis

   .488
   .489  Illustrativ material
       Subdivided like 973.79
       For special collections; but most material should be class with its subject:
       poetry, drama, etc. with the literatures to which they belong
   .49  Later 20th century
       Including works on 20th century as a whole
Scotland

Period divisions

- .01 Gaelic period
- .02 English period
  Struggle for national freedom
- .03 Independent kingdom
- .04 The Jameses
- .05 Reformation
- .06 Union of crowns and parliaments
- .07 Hanover
- .08 Later Hanoverian

Geographic divisions

- .1 Northern Scotland
  - .11 Shetland
  - .12 Orkney
  - .13 Caithness
  - .14 Sutherland
  - .15 Cromarty
  - .16 Ross
  - .17 Hebrides
- .2 North central Scotland
  - .21 Inverness
  - .22 Nairn
  - .23 Elgin
  - .24 Banff
  - .25 Aberdeen
  - .26 Kincardine
- .3 South central Scotland
  - .31 Forfar
  - .32 Perth
  - .33 Fife
  - .34 Kinross
  - .35 Clackmannan
  - .36 Sterling
  - .37 Dumbarton
  - .38 Argyll
  - .39 Bute
- .4 Southern Scotland
  - .41 Renfrew
  - .42 Ayr
  - .43 Lanark
  - .44 Linlithgow, Edinburgh
  - .45 Haddington, Berwick
  - .46 Peebles, Selkirk
  - .47 Roxburgh
  - .48 Dumfries
  - .49 Kirkcudbright, Wigton

Ireland

Period divisions

- .51 Early history
- .52 Separate kingdoms
  - Conquest by Henry II
- .53 Plantagenet
  - 1172-1399
- .54 Lancaster and York
  - 1399-1485
- .55 Tudors
  - 1485-1603
- .56 Stuarts
  - 1603-91
  - Closing with treaty of Limerick
- .57 Hanover
  - 1691-1801
  - Closing with the union
- .58 19th century
  - 1801-1900
- .59 Early 20th century
HISTORY

Geografic divisions of Ireland

941.6
Ulster
- .61 Antrim  .62 Londonderry  .63 Donegal  .64 Tyrone
- .65 Down  .66 Armagh  .67 Monaghan  .68 Fermanagh
- .69 Cavan

7
Connaught
- .71 Leitrim  .72 Sligo  .73 Mayo  .74 Galway  .75 Roscommon

8
Leinster
- .81 Longford, West Meath  .82 Meath, Louth  .83 Dublin
- .84 Wicklow  .85 Kildare  .86 King’s co.  .87 Queen’s co.
- .88 Carlow, Wexford  .89 Kilkenny

9
Munster
- .91 Waterford  .92 Tipperary  .93 Clare  .94 Limerick
- .95 Cork  .96 Kerry

942
England
Including works on Great Britain

Period divisions
For specially minute work the 6th figure printed for each soveren may be used; e.g. Henry 7 is 942.051

.01
Anglo-Saxon
Prehistoric, Roman, British, Danish

B. C. 55-A. D. 1066

Norman
- 1066-1154
- 1 William 1 1066-87  2 William 2 1087-1100  3 Henry 1
- 1100-35  4 Stephen 1135-54

Plantagenet
- 1154-1399
- 1 Henry 2 1154-89  2 Richard 1 1189-99  3 John 1199-1216
- 4 Henry 3 1216-72  5 Edward 1 1272-1307  6 Edward 2
- 1307-27  7 Edward 3 1327-77  8 Richard 2 1377-99

Lancaster and York
- 1400-85
Wars of the roses 1455-85 (Lancaster, red; York, white)
- 1 Henry 4 1399-1413  2 Henry 5 1413-22  3 Henry 6
- 1422-61  4 Edward 4 1461-83  5 Edward 5 1483  6 Richard 3 1483-85

Tudor
- 1485-1603
- 1 Henry 7 1485-1509  2 Henry 8 1509-47  3 Edward 6
- 1547-53  4 Mary 1553-58  See also 272.6  5 Elizabeth 1558-1603
- See also 272.7

Stuart
- 1603-1714
- 1 James 1 1603-25  2 Charles 1 1625-49  3 Commonwealth
- 1640-53  4 Oliver Cromwell 1653-58  5 Richard Cromwell
- 1658-59  6 Charles 2 1660-85  7 James 2 1685-88  8 William 3 1689-1702
- 9 Anne 1702-14

Hanover
- 1714-1837
- 1 George 1 1714-27  2 George 2 1727-60  3 George 3 1760-1820
- 4 George 4 1820-30  5 William 4 1830-37

Later Hanoverian
- 1837-
- 1 Victoria 1837-1901  2 Edward 7 1901-10  3 George 5 1910-
DECIMAL CLASSIFICATION

Geografic divisions

942.1 Middlesex London

.2 Southeastern
  .21 Surrey .23 Kent .25 Sussex .27 Hants .28 Isle of Wight .29 Berks

.3 Southwestern
  .31 Wilts .33 Dorset .34 Channel Islands .35 Devon .37 Cornwall .38 Somerset

.4 West Midland
  .41 Gloucester .43 Monmouth .44 Hereford .45 Salop .46 Stafford .47 Worcester .48 Warwick

.5 North and South Midland
  .51 Derby .52 Notts .53 Lincoln .54 Leicester, Rutland .55 Northampton .56 Huntingdon, Bedford .57 Oxford, Buckingham .58 Hertford .59 Cambridge

.6 Eastern
  .61 Norfolk .64 Suffolk .67 Essex

.7 Northwestern and Yorkshire
  .71 Cheshire .72 Lancashire .74 Yorkshire

.8 Northern
  .81 Durham .82 Northumberland .85 Cumberland .88 Westmorland .89 Isle of Man

.9 Wales
  .91 Anglesey .92 Carnarvon, Merioneth .93 Denbigh, Flint .94 Montgomery .95 Cardigan .96 Radnor, Brecknock .97 Glamorgan .98 Carmarthen .99 Pembroke
HISTORY

943 Germany and Austria

Period divisions

01 Formativ period
  Wars with Rome Charlemagne 800-814 Louis I 814-840
  Lothaire I 840-843

02 Empire before the reformation
  1 Carolingian 843-911: Louis II 843-876 Charles II 876-877
   Charles III 877-887 Arnulf 887-899 Louis III 900-911
  2 House of Franconia: Conrad I 911-918 House of Saxony,
   919-1024: Henry I 919-936 Otto I 936-973 Otto II 973-983
   Otto III 983-1002 Henry II 1002-1024
  3 House of Franconia 1024-1125: Conrad II 1024-39

03 House of Hohenstaufen 1137-97: Conrad II 1138-52 Frederick I 1152-90
  4 Henry VI 1190-97
  5 House of Hohenstaufen and Interregnum 1198-1272: Philip
   1198-1208 Otto IV 1208-12 Frederick II 1212-50
   6 Conrad IV 1250-54 William of Holland 1254-56
   Richard of Cornwall 1256-72

04 Houses of Hapsburg, Luxemburg, etc. 1273-1378: Rodolph I
   1273-91 Adolphus I 1291-98 Albert I 1298-1308
   7 Henry VII 1308-13 Louis IV 1313-47 Charles IV 1347-78
   8 Interregnum 1378-1437: Wenceslaus I 1378-1400
   9 Rupert 1400-10 Sigismund 1410-37

05 Albert II 1438-39 Frederick III 1440-93

06 Maximilian I 1493-1519

07 Reformation to 1618 1517-1618
  1 Charles V 1519-56 2 Ferdinand I 1556-64 3 Maximilian II
   1564-76 4 Rodolph II 1576-1612 5 Matthias 1612-19

08 Disintegration 1618-1705
  1 Thirty years' war 1618-48 2 Ferdinand II 1619-37 3 Ferdinand
   3 1637-57 4 Leopold I 1658-70

09 Rise of Prussia 1705-89
  1 Joseph I 1705-11 2 Charles VI 1711-40 3 1740-42
   4 Charles VII 1742-45 5 Francis I 1745-65 6 Seven years war
   1756-63 7 Joseph II 1765-90

10 Napoleonic wars 1789-1815
  Leopold II 1770-92 Francis II 1792-1806

11 Reorganization 1815-66

12 New German empire 1866-1918
  1 North German confederation 1866-71 2 Franco-German war
   1870-71 3 William I 1871-88 4 Frederick I 1888

13 German republic 1918-
Geographic divisions of Germany and Austria

**Prussia and Northern Germany**
By peace of Versailles, 1919, most of Posen (.12) and parts of East Prussia (.11) of West Prussia (.12) and Silicia (.14) were restored to Poland. Danzig (.12) as port of Poland made free city with 729 sq. mi. of territory.

.11 East Prussia .12 West Prussia, Danzig .13 Posen
.14 Silesia .15 Brandenburg .16 Pomerania .17 Mecklenburg and Lubeck .18 Prussian Saxony .19 Anhalt

**Central Germany**
.21 Saxony .22 Thuringia .23 Saxo-Weimar .24 Saxe-Altenburg .25 Saxe-Gotha-Coburg .26 Saxe-Meiningen .27 Schwarzburg .28 Reuss

**Bavaria**
.31 Upper Franconia .32 Middle Franconia .33 Lower Franconia .34 Upper Palatinate .35 Lower Bavaria .36 Upper Bavaria .37 Suabia

**Southern Germany**
In 1919 by peace of Versailles 382 sq. mi. of Rhenish Prussia (.42) including Moresnet, Malmédy and Eupen were ceded to Belgium, and 783 sq. mi. of Saar valley to France subject to plebiscit in 1934. Alsace (.44) and Lorraine (.45) taken from France in 1871 were restored. See 944.38

.41 Hesse Darmstadt .42 Rhenish Prussia .43 Rhenish Bavaria .44 Alsace .45 Lorraine .46 Baden .47 Wurttemburg .48 Black Forest and Danube .49 Hohenzollern

**Northwest Germany**
By peace of Versailles in 1919 part of Schleswig-Holstein (.51) was restored to Denmark

.51 Schleswig-Holstein and Hamburg .52 Oldenburg and Bremen .53 Hanover .54 Brunswick .55 Lippe .56 Westphalia .57 Waldeck .58 Hesse-Nassau

**Austria**
By peace of Versailles, 1919, Italia Irredenta, i. e. Tyrol (.64) Istria (.68) and part of Dalmatia (.69) were ceded to Italy; the rest of Dalmatia and all Carniola (probably) to Jugoslavia

.61 Lower Austria .62 Upper Austria .63 Salzburg .64 Tyrol .65 Styria .66 Carinthia .67 Carniola .68 Istria .69 Dalmatia

**Czechoslovakia**
.71 Bohemia .72 Moravia .73 Silesia .74 Galicia
.75 Bukowina

**Poland**
Including history before the division
Extinct as state from 3d partition in 1795 til 1919, when its sovereignty was restored by the peace of Versailles. See also 943.11-14, 943.33-74 and 947.4-5

**Hungary, etc.**
By the peace of Versailles 1919 the union of Transylvania (.92) with Rumania in 1918 was confirmed; Fiume (.94) was made independent, subject to plebiscit in 4 years; Slavonia (.93) Croatia (.94) Bosnia (.95) and Herzegovina (.96) were recognized as part of Jugoslavia (see 949.71)

.91 Hungary .92 Transylvania .93 Slavonia .94 Croatia.
Fiume .95 Bosnia .96 Herzegovina
### Early History
- **Ancient Kelts** -59 B.C.  Roman dominion 59 B.C.-418 A.D.
- **Merovingian dynasty** 428-752  Carolingian 752-987

### Capet and Valois

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>987-1589</td>
<td>House of Capet</td>
</tr>
<tr>
<td>1</td>
<td>Hugh Capet</td>
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<tr>
<td>2</td>
<td>Louis 6</td>
</tr>
<tr>
<td>3</td>
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<td>8</td>
<td>Charles 6</td>
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<td>11</td>
<td>John 2</td>
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<tr>
<td>1589-1789</td>
<td>Bourbon</td>
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<tr>
<td>13</td>
<td>Henry 4</td>
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<td>Second republic and second empire</td>
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<td>17</td>
<td>Charles 10</td>
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<td>Louis Philippe</td>
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<td>Napoleon 3</td>
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### Geographic divisions of France

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<thead>
<tr>
<th>Region</th>
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<tbody>
<tr>
<td>Brittany</td>
<td>Maine, Anjou</td>
</tr>
<tr>
<td>Normandy</td>
<td>Picardy</td>
</tr>
</tbody>
</table>

### Brittany
- Finistère
- Côtes du Nord
- Morbihan
- Loire
- Ille et Vilaine
- Sarthe
- Anjou: Maine et Loire

### Normandy
- Manche
- Calvados
- Orne
- Eure
- Seine
- Somme
- Artois: Pas de Calais
- Nord
DECIMAL CLASSIFICATION

944.3 Champagne Ile de France Lorraine
.31 Ardennes .32 Marne .33 Aube Haute Marne .34 Ile de France: Aisne .35 Oise .36 Seine et Oise, Paris .37 Seine et Marne .38 Lorraine (Alsace-Lorraine): .381 Meuse .382 Meurthe et Moselle .383 Alsace (But use .38 for Alsace and Lorraine together) See also 943.44-45 .39 Vosges

.4 Burgundy Franche Comté Savoy
.41 Yonne .42 Côte d’Or .43 Saône et Loire .44 Ain .45 Franche Comté: Haute Saône, Belfort .46 Doubs .47 Jura .48 Savoy: Savoie .49 Haute Savoie

.5 Orléans, etc. Auvergne
.51 Eure et Loir .52 Loiret .53 Loir et Cher .54 Touraine: Indre et Loir .55 Berry: Indre, Cher .56 Nièvre .57 Bourbonnais: Allier .58 Lyonnais: Loire, Rhône .59 Auvergne: Puy de Dôme, Cantal

.6 Poitou Limousin
.61 Vendée .62 Deux Sèvres .63 Vienne .64 Charente Inférieure .65 Charente .66 Limousin: Haute Vienne .67 Corrèze .68 Marche: Creuse

.7 Guienne Gascony
.71 Gironde .72 Dordogne .73 Lot .74 Aveyron .75 Tarn et Garonne .76 Lot et Garonne .77 Gascony: Landes. Gers .78 Hautes Pyrénées .79 Béarn: Basses Pyrénées

.8 Languedoc
.81 Haute Loire, Lozère .82 Ardèche .83 Gard .84 Hérault .85 Tarn .86 Haute Garonne .87 Aude .88 Foix: Ariège .89 Pyrénées Orientales

.9 Provence Dauphiny
.91 Bouches du Rhône .92 Vaucluse .93 Var .94 Alpes Maritimes, Monaco .95 Basses Alpes .96 Dauphiny .97 Hautes Alpes .98 Drôme .99 Isère

945 Italy

Period divisions
.01 Gothic and Lombard kingdoms 476–774
.02 Frankish emperors 774–961
.03 German emperors 962–1122
Hildebrand and papal supremacy
.04 Age of the communes 1100–1300
Free cities Strifes of Guelphs and Ghibelines
.05 Age of the despots 1300–1492
.06 Age of invasions 1492–1527
.07 Spanish-Austrian ascendancy 1527–1796
.08 Struggle for independence 1796–1870
.09 United Italy 1870–
Victor Emanuel, Cavour, Garibaldi
HISTORY

Geografic divisions of Italy

Piedmont and Liguria

Lombardy

Venetia

Emilia

Tuscany

Marches, Umbria and Latium

Naples

Abruzzo and Molise

Campania

Napoli

Salerno

Apulia

Lecce, Terra di Otranto

Basilicata, Potenza

Calabria

Reggio di Calabria

Sicily

Malta

Sardinia and Corsica

Spain

Period divisions

Early history Roman dominion Gothic kingdom 711

Moorish kingdom 711-1479

Ferdinand 5 and Isabella 1479-1516

Discovery—Expulsion of the Moors

Charles 1 and Philip 2 1516-98

Inquisition—War with the Netherlands Armada Charles 1 Philip 2 1556-98

Philip 3—Charles 4 1598-1808

Degeneration—Philip 3 1598-1621—Philip 4 1621-65

Charles 2 1665-1700—House of Bourbon: Philip 5 1700-46—Ferdinand 6 1746-59—Charles 3 1759-88

Charles 4 1788-1808

Peninsular war 1808-14

Joseph Bonaparte

Bourbon restoration 1814-68

Attempts at reform—Ferdinand 7 1814-33—Isabella 2 1833-68

Revolution and 2d restoration 1868—Revolution of 1868-70—Amadeus 1870-73—Republic 1873-75—Alfonso 12 1875-85—Alfonso 13 1886-

Geografic divisions of Spain

Galicia Asturias

Leon Estramadura

Old Castile

New Castile

Aragon

Basque provinces

Catalonia Balearic iles Valencia Murcia

Andalusia Canary iles

Portugal

Madeira Azores
Russia

Period divisions

.01 Primitiv Russia
.02 Varangian kingdom
   Conversion to Christianity
.03 Mongolian invasion
   Civil wars
.04 Ivan 3–Ivan 5
   Origin of serfdom
.05 Peter the Great
   Wars with Sweden and Turkey
.06 Catharine 1–Catharine 2
   Partition of Poland
.07 Paul 1–Nicholas 1
   War with Napoleon
   Insurrection of Poland
   Crimean war
   See also 942.08, 944.07, 945.08, 949.6
.08 Alexander 2
   Emancipation of the serfs
   Turko-Russian war
   Alexander 3
   Nicholas 2
   Revolution 1917

Geografic divisions of Russia

.1 Finland
   Lapland
.2 Northern Great Russia
   Archangel, Vologda, Olonetz, Novgorod
.3 Southern Great Russia
.4 Baltic provinces
   Courland, Livonia, Estonia, Petrograd (Petersburg)
.5 Russian Poland
   Partly restored to Poland by peace of Versailles 1919
   Lithuania
.6 West Russia
.7 Little Russia
   South Russia
   Ukraine
.8 East Russia
.9 Caucasia
HISTORY

948  Norway  Sweden  Denmark

Period divisions

.01  Legendary period  -800

.02  Consolidation  Migration  801-1397
Introduction of Christianity
Discovery of Iceland, Greenland, and America
Conquest of Britain and Normandy

.03  Union of the 3 kingdoms  1397-1523
Civilization  Foren relations

.04  The reformation  1523-1648
Edict of toleration  1527
30 years war  Gustavus Adolphus

.05  Decline  1648-1792
Wars vs Denmark, Poland, Russia
Political changes

.06  Napoleonic wars  1792-1818
Union of Norway and Sweden  1814

.07  Charles 14 (Bernadotte)  1818-
Peace  Internal reform

.08

Geografic divisions

.1  Norway
.2  Christiania
.3  Christiansand  Bergen
.4  Hamar  Throndhjem  Tromso

.5  Sweden
.6  Gothland
.7  Svealand
.8  Norrland
.9  Denmark

949  Minor countries of Europe

.1  Iceland  Faroe islands
01 Commonwelth -1264  02 Medievalism 1264-1551  03 Absolute rule, Decay 1551-1848  04 Modern Iceland 1848-

.2  Netherlands
01 Early history -1477  02 Austrian dominion 1477-1566
Wars for independence 1566-1648  04 Age of prosperity 1648-1705  05 Revolutionary 1705-1830  06 19th century 1830-1900  07 20th century 1901-

.3  Belgium

.4  Switzerland
01 Early history -1300  02 Struggle for independence 1300-1490  03 Reformation 1490-1648  04 Period of tranquility 1648-1780  05 Period of revolution 1780-1815  06 19th century 1815-1900  07 20th century 1901-
DEcratchal CLASSIFICATION

949.5 Byzantine empire and modern Greece
   01 Greek revival
   Constantine the great–Theodosius 3
   02 Byzantine prosperity
   Leo 3–Michael 6
   03 Byzantine decline
   Isaac 1–Latin conquest of Constantinople
   04 Greek survival
   Constantinople taken by the Turks, 1453
   05 Turkish power
   1453–1821
   06 Greek independence
   1821–

.6 Turkey in Europe Balkan states
  Also works covering Turkey in Asia
  07 Yugoslavia: Serbia, Montenegro Bulgaria
  .8 Rumania: Wallachia, Moldavia, Dobruja
  09 Islands of Greek archipelago
  Divided like 939.1

950 Asia

951 China
   .1 N. E. China, Peking
   .2 S. E. China, Canton, Hong Kong, Taiwan
   (Formosa)
   .3 S. W. China
   .4 N. W. China
   .5 Tibet
   .6 East Turkestan
   .7 Mongolia
   .8 Manchuria
   .9 Chosen (Korea)

952 Japan

953 Arabia
   .1 Sinai
   .2 Hejaz, Mecca
   .3 Yemen
   .4 Hadramaut, Mahrah
   .5 Oman
   .6 Hasa
   .7 Dahna
   .8 Nejd
   .9 Syrian desert

954 India
   .1 Bengal, Orissa, Assam, Bhotan
   .2 Northwest provinces, Oudh, Nepal
   .3 Central provinces
   .4 Rajputana
   .5 Punjab
   Delhi, Lahore
   .6 Kashmir
   .7 Bombay, Sind, Baroda
   .8 Madras, Mysore, Travancore, Ceylon
   .9 Hyderabad

955 Persia

956 Turkey in Asia See also 949.6
   .1 Khodavendigar
   .2 Aidin, Smyrna
   .3 Kastamuni, Angora
   .4 Konieh, Adana, Cyprus
   .5 Trebizond, Sivas
   .6 Armenia and Kurdistan: Erzerum; Mamuret el Aziz, Karput; Diarbekr; Bitlis;
   Van
   .7 Mesopotamia: Mosul; Bagdad; Basra
   .8 Aleppo
   .9 Syria, Damascus, Phenicia, Palestine

957 Siberia

958 Afghanistan Turkestan Baluchistan
   .1 N. E. Afghanistan, Kabul
   .2 South Afghanistan, Kandahar
   .3 N. W. Afghanistan, Herat
   .4 Turkistan
   .5 Kiva
   .6 Bokhara
   .7 Ferghana or Khokan
   .8 Baluchistan
### History

#### Africa

#### North Africa
- **.1** Tunis
- **.2** Tripoli
- **.3** Fezzan

#### Egypt
- **.1** Lower Egypt, Alexandria, Cairo
- **.2** Middle Egypt
- **.3** Upper Egypt, Thebes
- **.4** Nubia
- **.5** Dongola
- **.6** Egyptian Sudan: Katum
- **.7** Darfur
- **.8** Kordofan
- **.9** Sennaar

#### Abyssinia

#### Morocco

#### Algeria

#### North Central Africa
- **.1** Sahara
- **.2** Sudan
- **.3** Senegambia, Senegal
- **.4** Sierra Leone
- **.5** Upper Guinea
- **.6** Liberia
- **.7** Ashanti
- **.8** Dahomey, Togo
- **.9** Gold Coast

#### South Central Africa
- **.1** Lower Guinea, Kamerun
- **.2** Loango, French Kongo
- **.3** Portuguese West Africa, Angola, Benguela
- **.4** Interior
- **.5** Free State, Kongo basin
- **.6** Central lake region: British East Africa, Uganda
- **.7** Somali
- **.8** Zanzibar
- **.9** Mozambique, Portuguese East Africa

#### South Africa
- **.1** Sofala
- **.2** Transvaal
- **.3** Zululand
- **.4** Natal
- **.5** Orange Free State
- **.6** Kaffraria
- **.7** Cape Colony
- **.8** West Coast
- **.9** Interior: Rhodesia, Mashona

#### Madagascar, Mauritius
970 North America

.1 Indians, aborigines .2 Lives of Indians .3 Special tribes .4 Special states .5 Government relation and treatment .6 Special subjects: character, civilization, agriculture, etc.

See 371.975 Education; 572.97 Ethnology; 497 Languages

971 Canada British America

General works on Canada under British rule
For histories of special periods see 971.01-.054; of special provinces see 971.1-.9
For constitutional history see 342.71

Period subdivisions
For works not limited to any of the territorial subdivisions .1-.9 but dealing with a limited period
Class archives with their periods and segregate them if wished by booknumbers that will automatically locate them ahead of other histories having the same class number: e.g. A1-A9 if Cutter numbers are used for other works; Aa-Az if Cutter-Sanborn numbers are used

.01 French regime 1497-1763
From earliest time till cession to England

.011 Discovery and early settlement 1497-1632
Early explorations along Atlantic seaboard 1497-1533. Discovery and occupation of St Lawrence 1534-43. Rise of fur trade 1544-1612. Permanent colonization 1613-32

.016 Extension of English rule 1632-1763
Treaty of St Germain-en-Laye 20 Mar. 1632

.018 Struggle with England for supremacy
Peace of Utrecht 1713; Peace of Paris 1763. Seven years war 1755-63; 13 United States call French and Indian war. British supremacy dates actually from fall of Quebec, 1759; formally from peace of Paris, 10 Feb. 1763

.02 End of 7 years war to constitutional act 1791
Conspiracy of Pontiac 1763-64
Quebec act 1774

.024 American revolution United Empire loyalists
Canadian libraries will class here United Empire loyalists, but works on the revolution 1775-83 are better put in 973.3

.03 1792 to Union act 1841
See also 971.3 Ontario and 971.4 Quebec

.034 War of 1812
1812-15 in United States call also 2d war for independence Better class in 973.52 (United States history)

.038 Rebellion 1837-38

.039 Union act 10 Feb. 1840
Passage of Union act, closing the period under the Constitutional act. See also constitutional history, 342.719

.04 Union 1841 to Confederation 1867
Beginning with operation of Union act; Canadian parliament at Ottawa 13 June 1841. Class clergy reserves agitation in 971.3 Ontario; abolition of seigniories in 971.4 Quebec

.048 Fenian invasions

.049 British North America act, 29 March 1867

.05 Dominion of Canada 1867-
Canada under British North America act

.051 Red river (Riel's 1st) rebellion 1870

.054 Northwest (Riel's 2d) rebellion 1885
### Geografic divisions

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<tr>
<td>.2</td>
<td>Northwest Territories</td>
<td>Including former Hudson Bay territory</td>
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<tr>
<td>.21</td>
<td>Yukon</td>
<td>Klondike region Dawson (city)</td>
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<td>Mackenzie</td>
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<td>.28</td>
<td>Ungava</td>
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<td>.29</td>
<td>Franklin</td>
<td>See also 998 Arctic region</td>
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<td>-3</td>
<td>Ontario</td>
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<td>.31</td>
<td>North shore of Lake Superior and Lake Huron; Georgian bay</td>
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<tr>
<td>.311</td>
<td>Rainy River district</td>
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<td>.312</td>
<td>Thunder Bay district</td>
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<td>.314</td>
<td>Nipissing district</td>
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<td>.315</td>
<td>Parry Sound</td>
<td>Maganetawan districts</td>
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<td>Muskoka</td>
<td>Lake of Bays district</td>
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<td>Simcoe</td>
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<td>Grey</td>
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<td>Bruce</td>
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<tr>
<td>.322</td>
<td>Huron</td>
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<td>.324</td>
<td>Middlesex</td>
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<td>North shore of Lake Erie</td>
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<td>Essex</td>
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<td>Elgin</td>
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<td>Welland</td>
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971.34 West central
- 341 Dufferin
- 342 Wellington
- 343 Guelph (city)
- 344 Waterloo
- 345 Berlin (city)
- 346 Oxford
- 347 Brant
- 348 Brantford (city)

971.35 Southern
West and North shore of Lake Ontario
- 351 Lincoln
  St Catherine's (city)
- 352 Wentworth
  Hamilton (city)
- 353 Halton Peel
- 354 York
  Toronto (city)
- 355 Ontario
- 356 Durham
- 357 Northumberland
- 358 Hastings
- 359 Prince Edward
  Lennox and Addington

36 Central
- 361 Haliburton
- 362
- 363
- 364 Victoria
- 365
- 366
- 367 Peterborough
  Peterborough (city)
- 368
- 369

37 Southeastern
St Lawrence river counties
- 371 Frontenac
  Kingston (city)
- 372 Leeds
  Rideau lakes and canal
- 373 Grenville
- 374 Dundas
- 375 Stormont
- 376 Glengarry
- 377
- 378
- 379

38 Northeastern
Ottawa river counties
- 381 Renfrew
- 382 Lanark
- 383 Carleton
- 384 Ottawa (city)
- 385 Russell
- 386 Prescott
HISTORY

Quebec  St Lawrence river

Lower Canada or Canada East

From its cession by France to England in 1763 all Canada was one colony, the Province of Quebec, till 1791. In 1791 it was divided by the constitutional act into 2 provinces: Upper Canada (Ontario) and Lower Canada (Quebec). By the union act, 1840, the 2 provinces were reunited as the Province of Canada; union in 1867 by the British North America act again divided into the provinces of Ontario and Quebec. Quebec is from Caudebec (Normandy), home of many of its early settlers.

Northern
- Mistassini
- Abitibi
- Lake St John
- Chicoutimi
- Saguenay  Anticosti island
- Ashuanipi

Western
- Ottawa river counties
  - Pontiac
  - Ottawa (former county)
    - Wright
    - Hull (city)
    - Labelle
  - Argenteuil
  - Terre Bonne
  - Two Mountains
  - Vaudreuil
  - Soulages
  - Laval
  - Hochelaga
    - Montreal (city)
  - Jacques Cartier

Southwestern
- South of the St Lawrence and west of Richelieu river
  - Huntingdon
  - Beauharnois
  - Chateaugay
  - La Prairie
  - Napierville
  - Verchères
  - Chambly
  - St Johns

North central
- North of St Lawrence from Montreal to Saguenay river
  - Montcalm
  - L'Assomption
  - Joliette
  - Berthier
  - Maskinonge
  - St Maurice
  - Champlain
  - Portneuf
  - Quebec
    - Quebec (city)
  - Montmorency
    - Île d'Orléans
  - Charlevoix
South Central

- Richelieu
- St Hyacinthe
- Bagot
- Rouville
- Yamaska
- Nicolet
- Drummond
- Arthabaska
- Wolfe
- Megantic
- Lotbinière
- Levis

Southern

- Iberville
- Missisquoi
- Shefford
- Brome
- Richmond
- Sherbrooke
- Stanstead
- Compton
- Lake Megantic

Southeastern

- Beauce
- Dorchester
- Bellechasse
- Montmagny
- L'Islet
- Kamouraska
- Temiscouata
- Rimouski
- Matane
- Bonaventure
- Gaspé
- Magdalen Islands

New Brunswick

- Northern
  - Restigouche
  - Gloucester
- Eastern
  - Northumberland
  - Kent
  - Westmoreland
    - Moncton (city)
HISTORY

971-53  Southern
   -531  Albert
   -532  St John
       St John (city)
   -533  Charlotte
       Grand Manan island

   -54  Central
   -541  Kings
   -542  Queens
   -543  Sunbury

   -55  Western
   -551  York
       Fredericton (city)
   -552  Carleton
   -553  Victoria
   -554  Madawaska

   .6  Nova Scotia
   .61  Northern
   .611  Cumberland
   .612  Colchester
   .613  Pictou
   .614  Antigonish

   .62  Southern
   .621  Guysborough
   .622  Halifax co. and city
   .623  Lunenburg
   .624  Queens
   .625  Shelburne

   .63  Western
   .631  Yarmouth
   .632  Digby
   .633  Annapolis
   .634  Kings
   .635  Hants

   .69  Cape Breton (island)
   .691  Inverness
   .693  Victoria
   .695  Cape Breton
       Sydney (city)
   .698  Richmond

   .7  Prince Edward Island
   .71  Prince
   .74  Queens
       Charlottetown (city)
   .77  Kings

   .8  Newfoundland

   .9  Labrador

For Moravian missions see 206.40
Period divisions

Ancient civilization
1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya

Discovery and Spanish rule
1 516-1810

Independence
1810-1822

First empire Iturbide 1 Pronunciamientos
1822-1845

War with United States. See also 973.6
1845-1848

Constitution of '57 Reform
1848-1861

French intervention
1861-1867

Later history
1867-

Geografic divisions

Free zone and Northern states
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango

Lower California and islands

Central Pacific states
Sinaloa, Jalisco, Colima, Michoacan

Interior states
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato
Querétaro, Hidalgo, Puebla, Tlaxcala, Morelos

Mexico Federal district

Southern Gulf states
Vera Cruz, Tabasco, Campeche, Yucatan

Southern Pacific states
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

Central America

Guatemala
British Honduras Belize
Honduras
San Salvador
Nicaragua
Costa Rica

West Indies

Cuba
Jamaica
Santo Domingo
Hayti
Porto Rico
Bahamas
Leeward islands
Windward islands Barbados
Bermudas
HISTORY

973 United States

SUMMARY OF 973

.|.2 Colonial | 1607—1775
.|.3 Revolution | 1775—1789
.|.4 Constitutional | 1789—1809
.|.5 War of 1812 | 1809—1845
.|.6 War with Mexico | 1845—1861
.|.7 Civil war | 1861—1865
.|.8 Later 19th century | 1865—1901
.|.9 Early 20th century | 1901—

See also 342.73 U. S. constitutional law and history; 328.73 U. S. legislative bodies and annals; 329 Political parties; 353 U. S. government

.1 Discovery

From earliest times to settlement of Jamestown

See also 970.1—6 American Indians; 913.7 American antiquities; 571.91 Mounds and mound builders; 571.85 Pueblos

.11 Precolombian

For precolombian claims of Chinese, Norse, Welsh, etc. see .12 to .18 below

Arabs
Jews
Africans
Irish
Chinese
Norse
Gunnbiorn
Eric the Red
Leif Ericson
Welsh
Prince Madoc

.15 Columbus

Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497—1504
Gaspar and Miguel Cortereal 1500—2 Labrador
Juan Ponce de Leon 1513—21 Florida
Vasco Nuñez de Balboa 1513 Pacific ocean
Hernando Cortés 1518—40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518—21 Magellan straits
Francisco Pizarro 1524—41 See also 985 History of Peru
Hernando de Soto 1539—42 Mississippi river
Francisco Vasquez de Coronado 1540—42 New Mexico, Arizona, Colorado

.17 English

John and Sebastian Cabot 1497—1530
Sir John Hawkins 1562—69
Sir Francis Drake 1570—80
Sir Martin Frobisher 1576—78
Sir Humphrey Gilbert 1578—83
Sir Walter Ralegh 1578—1602
John Davis 1585—87
Bartholomew Gosnold 1602—07
French
Giovanni da Verrazano 1524
Jacques Cartier 1534–44 Canada
Jean Ribault 1562–65 Florida
René de Laudonnière 1564–66 Florida
Samuel de Champlain 1603–35 See also 971 History of Canada

Other nations

Colonial Period 1607–1775
See also histories of separate colonies

Virginia settlement 1607–20
Settlement of Jamestown 13 May 1607 See 975.5 Virginia history
Hudson’s voyage 1609 See also 974.7 N. Y. history

New England settlement 1620–43
Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636–37 Connecticut

New England confederacy 1643–64
United colonies of New England 19 May 1643
Commonwealth 1640–63
Oliver Cromwell 1653–58
Richard Cromwell 1660–68

Conquest of New Netherlands 1664–89
King Philip’s war 1675–76 Massachusetts
War with eastern indians 1675–78 Maine
Sir Edmund Andros, governor of New England 1686–89
Charles 2 1660–85

Early French wars 1689–1732
Witchcraft in New England See 133.4
King William’s war 1689–97
Sometimes called in Europe ‘War of the Palatinate’
Queen Anne’s war 1702–13
Known in Europe as War of the Spanish succession
William 3 1689–1702
Anne 1702–14
George 1 1714–27

Extension of English rule 1732–63
Settlement of Georgia 1732 See 975.3 Georgia history
King George’s war 1744–48
Known in Europe as War of the Austrian succession
Albany convention assembled 19 June 1754
French and Indian war 1755–63
Known in Europe as Seven years war
Braddock’s defeat 9 July 1755
Crown Point and Ticonderoga 1758–59
Capture of Louisburg 27 July 1758
Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
Peace of Paris 10 Feb. 1763
George 2 1727–60

Last years of the colonies 1763–75
See also specially 973.311 Causes of the Revolution
Conspiracy of Pontiac 1763–64
Bouquet’s expedition 1763–64
Lord Dunmore’s war Ap.–Oct. 1774 Virginia
George 3 1760–1821
973.3 Revolution and confederation

SUMMARY OF 973.3

.31 Political history
   Political history
   .32 Diplomatic history
   Diplomatic history
   .33 Special campaigns and battles
   Special campaigns and battles
   .34 General military history
   General military history
   .35 Naval history
   Naval history
   .36 Celebrations
   Celebrations
   .37 Prisons, hospitals
   Prisons, hospitals
   .38 Personal narratives
   Personal narratives
   .39 Illustrative material
   Illustrative material

.31 Political history; causes, results

For financial history see 336.73

.311 Causes 1775
   1 Stamp act 1765
   2 Navigation acts; mercantil policy
      Burning of the Gaspé 17 June 1772
   3 Boston massacre 5 Mar. 1770
   4 Taxation and representation
   5 Tax on tea 1767 Boston tea party 16 Dec. 1773
   6 Boston port bill 1774

.312 Political history 1775–83
   Continental congress See 328.73 U.S. legislative bodies
   Declaration of independence 4 July 1776 See also 973.361
      Mecklenburg declaration 20 May 1775
   Loyalists, Tories See also 973.381 Treason and traitors
   Relations of special classes to the Revolution
      Clergy and churches
      Lawyers
      College graduates

.316 Treaty of peace 1783
   Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783–89
   Shay’s rebellion 1786–87 Massachusetts
   Cession of western territory to United States

.319 Diplomatic history; relations with other nations
   Divided like 940; e.g. 973.324 Relations with France; 973.326 Relations with Spain

.33 Special campaigns and battles

.331 Campaigns of 1775
   1 Lexington and Concord 19 April See also 973.362
   2 Bunker Hill 17 June See also 973.366
   3 Siege of Boston June 1775–March 1776
   4 Ticonderoga 10 May
   5 Crown Point 12 May
   6 Canadian expeditions
      Montgomery
   7 Arnold
   8 Events in the south
Campains of 1776
1 Campain for the Hudson
2 Battle of Long Island 27 Aug.
3 British occupation of New York
4 American retreat Sep.-Nov. 1776
   Harlem Hights 16 Sep.
   Fort Washington 16 Nov.
5 Washington in the Jerseys Dec. 1776-Jan. 1777
6 Trenton 26 Dec.
   Princeton 3 Jan. 1777
7
8 Events in the south
   North Carolina
   Fort Moultrie, Sullivan's island 28 June

Campains of 1777
1 Events in Connecticut and Rhode Island
2 Burgoyne's campain
   Ticonderoga evacuated 6 July
   Hubbardton, Vt 7 July
   Bennington, Vt 16 Aug.
3 Freeman's farm or Bemis Hights or Stillwater 19 Sep.
   Bemis Hights or Saratoga 7 Oct.
   Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2-22 Aug.
5 Clinton's advance up the Hudson
   Forts Clinton and Montgomery 6 Oct.
6 Howe's campain
   Brandywine 11 Sep.
   Paoli 20 Sep.
7 Philadelphia taken by British 22 Sep.
   Germantown 4 Oct.
   Forts on the Delaware
   Red Bank, or Fort Mercer 22 Oct.
   Mud island, or Fort Mifflin 10-16 Nov.
8 Events in south Including Kentucky

Campains of 1778
1 Washington at Valley Forge 1777-78
2 Events in middle states
   Battle of Monmouth 28 June
   Evacuation of Philadelphia June
3 Indian depredations See also 973.343
   Wyoming 1-4 July
   Mohawk valley
   Cherry valley 11 Nov.
   Brant See also 970.2 Indian biography
4
5 Rhode Island campain, August See also 973.354 Naval history
6 Events in the south
   Capture of Savannah 29 Dec.
7 Events in northwest 1778-79
   Clark's expedition
   Vincennes, Ind. 2 Jan. and 20 Feb. 1779
### Campains of 1779

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Events in New England</td>
<td></td>
</tr>
<tr>
<td>Tryon in Connecticut</td>
<td>July</td>
</tr>
<tr>
<td>Penobscot expedition</td>
<td>Aug. and Sep.</td>
</tr>
<tr>
<td>Events in middle states</td>
<td></td>
</tr>
<tr>
<td>Minisink</td>
<td>19 July</td>
</tr>
<tr>
<td>Wayne at Stony Point</td>
<td>16 July</td>
</tr>
<tr>
<td>Paulus Hook</td>
<td>19 Aug.</td>
</tr>
<tr>
<td>Sullivan's expedition</td>
<td>July–Sep.</td>
</tr>
<tr>
<td>Events in the south</td>
<td></td>
</tr>
<tr>
<td>Briar creek</td>
<td>3 Mar.</td>
</tr>
<tr>
<td>Siege of Savannah</td>
<td>23 Sep. and 18 Oct.</td>
</tr>
</tbody>
</table>

### Events in northwestern states

See 973.334

### Campain of 1780

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern campains</td>
<td></td>
</tr>
<tr>
<td>Waxhaws, N. C.</td>
<td>29 May</td>
</tr>
<tr>
<td>Ramsour Mills, N. C.</td>
<td>20 June</td>
</tr>
<tr>
<td>Leslie's expedition into Virginia</td>
<td>Oct</td>
</tr>
<tr>
<td>Siege of Charleston</td>
<td>Mar.–May</td>
</tr>
<tr>
<td>Kings mountain, S. C.</td>
<td>7 Oct.</td>
</tr>
<tr>
<td>Events in middle states</td>
<td></td>
</tr>
<tr>
<td>Springfield, N. J.</td>
<td>23 June</td>
</tr>
<tr>
<td>Bull's Ferry, N. Y.</td>
<td>21 July</td>
</tr>
<tr>
<td>Northern invasion</td>
<td></td>
</tr>
</tbody>
</table>

### Campains of 1781

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern campains</td>
<td></td>
</tr>
<tr>
<td>Guilford, N. C.</td>
<td>15 Mar.</td>
</tr>
<tr>
<td>Events in Carolinas</td>
<td>May–Dec.</td>
</tr>
<tr>
<td>Fort Ninety-Six, S. C.</td>
<td>May–June</td>
</tr>
<tr>
<td>British in Virginia</td>
<td></td>
</tr>
<tr>
<td>Siege of Yorktown</td>
<td>Sep.–Oct.</td>
</tr>
<tr>
<td>Surrender of Cornwallis</td>
<td>19 Oct.</td>
</tr>
<tr>
<td>Events in the north</td>
<td></td>
</tr>
<tr>
<td>Arnold in Connecticut</td>
<td>Sep.</td>
</tr>
</tbody>
</table>

### Campains of 1782

### Events of 1783

- British evacuation of New York 25 Nov.

See also 973.363
<table>
<thead>
<tr>
<th>DECIMAL CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>973-34 General military history</td>
</tr>
<tr>
<td>.341 English side</td>
</tr>
<tr>
<td>.342 Mercenaries; Hessians</td>
</tr>
<tr>
<td>.343 Indians</td>
</tr>
<tr>
<td>.344 American side</td>
</tr>
<tr>
<td>Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1-A19 for official publications, A2 for lists of revolutionary soldiers</td>
</tr>
<tr>
<td>1 New Hampshire</td>
</tr>
<tr>
<td>2 Vermont Not then a state, admitted 1791</td>
</tr>
<tr>
<td>4 Massachusetts</td>
</tr>
<tr>
<td>5 Rhode Island</td>
</tr>
<tr>
<td>6 Connecticut</td>
</tr>
<tr>
<td>7 New York</td>
</tr>
<tr>
<td>8 Pennsylvania</td>
</tr>
<tr>
<td>9 New Jersey</td>
</tr>
<tr>
<td>.345 Southern states</td>
</tr>
<tr>
<td>1 Delaware</td>
</tr>
<tr>
<td>2 Maryland</td>
</tr>
<tr>
<td>5 Virginia</td>
</tr>
<tr>
<td>6 North Carolina</td>
</tr>
<tr>
<td>7 South Carolina</td>
</tr>
<tr>
<td>8 Georgia</td>
</tr>
<tr>
<td>.346 American auxiliaries</td>
</tr>
<tr>
<td>.347 French</td>
</tr>
<tr>
<td>.348</td>
</tr>
<tr>
<td>.349 Special topics</td>
</tr>
<tr>
<td>Conway cabal 1777-78</td>
</tr>
<tr>
<td>Mutiny of Pennsylvania line Jan. 1781</td>
</tr>
<tr>
<td>Newburg addresses 1782-83</td>
</tr>
<tr>
<td>.35 Naval history</td>
</tr>
<tr>
<td>.351 Events of 1775</td>
</tr>
<tr>
<td>Capture of the Margareta June 12</td>
</tr>
<tr>
<td>.352 Events of 1776</td>
</tr>
<tr>
<td>Escape of British sloop of war Glasgow 6 Ap.</td>
</tr>
<tr>
<td>.353 Events of 1777</td>
</tr>
<tr>
<td>Lexington and Alert 20 Sep.</td>
</tr>
<tr>
<td>.354 Events of 1778</td>
</tr>
<tr>
<td>French fleet at Newport</td>
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<tr>
<td>.355 Events of 1779</td>
</tr>
<tr>
<td>Bon Homme Richard and the Serapis 23 Sep.</td>
</tr>
<tr>
<td>.356 Events of 1780</td>
</tr>
<tr>
<td>Trumbull and Watt 2 June</td>
</tr>
<tr>
<td>.357 Events of 1781</td>
</tr>
<tr>
<td>Alliance and British brigs Atalanta and Trepassey 28 May</td>
</tr>
<tr>
<td>.358 Privateers</td>
</tr>
</tbody>
</table>
HISTORY: UNITED STATES

973.36 Celebrations, anniversaries, commemorations

These should usually be class with the special event commemorated, but some
anniversaries are of such general character as to be better class here. For Patriotic
societies of the revolution see 369.13

.361 Fourth of July See also 973.313
.362 19th of April See also 973.3311
.363 Evacuation day, New York See also 973.339
.364
.365 Monuments, memorials See also 718
.366 Bunker Hill monument See also 973.3312
.367 Washington's various headquarters
   Newburg, N. Y.
   Morristown, N. J.

.37 Prisons, hospitals, etc.

.371 English prisons
   1 Jersey prison ship
   2 Sugar house prison

.372 American prisons

.373 Exchange of prisoners

.374 Medical dep't; surgeons, nurses, etc.
   Hospitals

.375

.376

.377

.378

.379

.38 Personal narratives, vindications, secret servis

.381 Treason and traitors See also 973.314 Loyalists, tories

.382 Benedict Arnold

.383 Charles Lee

.384

.385 Secret servis, spies
   American side: Nathan Hale
   British side: Major John André

.386

.39 Illustrative material

These numbers should be used mainly for references. Poems, dramas etc. should
usually be class under their own numbers, 811, 812, etc. but special collections
should be class here

.391 Poetry

.392 Drama

.393 Fiction

.394 Addresses

.395 Sermons

.396 Humor

.397 Pictures
   Paintings, drawings, caricatures, engravings, photographs, sculpture

.398 Music

.399 Maps
Constitutional period 1789-1809

George Washington
Born 22 Feb. 1732; died 14 Dec. 1799
Sworn into office 30 Apr. 1789
National bank established 25 Feb. 1791 See 332.11
Vermont admitted, 14th state 4 Mar. 1791 See 974.3
Kentucky admitted, 15th state 1 June 1792 See 976.9

Indian wars
Harmar's expedition 1790
St Clair's expedition 1791

Washington's 2d term 4 Mar. 1793-4 Mar. 1797
Neutrality proclamation 22 Ap. 1793 See also 341.3
Whisky insurrection July-Nov. 1794
Wayne's expedition, Oct.-Nov. 1794, and treaty, 3 Aug. 1795
Jay's treaty 28 Oct. 1795 See also 341.2
Treaty with Spain 27 Oct. 1795 See also 341.2
Tennessee admitted, 16th state 1 June 1796 See 976.8

John Adams
Born 31 Oct. 1735; died 4 July 1826
Alien act 25 June 1798 See 341.5
Sedition act 14 July 1798 See 323
Removal of capitol to Washington

Troubles with France
Naval battles; Constellation and L'Insurgent 9 Feb. 1800

Thomas Jefferson
Born 2 Ap. 1743; died 4 July 1826
Ohio admitted, 17th state 19 Feb. 1803 See 977.1
Purchase of Louisiana 2 May 1803
Wars with Barbary states
Jefferson's second term 4 Mar. 1805-4 Mar. 1809
Aaron Burr's conspiracy 1806
See also 923.47 lives of Burr; and 343.1 Trials
Embargo act 22 Dec. 1807

War of 1812 1809-45

James Madison
Born 16 Mar. 1751; died 28 June 1836
Engagement between ships President and Little Belt 16 May 1811
Defeat of Indians by Gen. Harrison at Tippecanoe 7 Nov. 1811
Louisiana admitted, 18th state 30 Apr. 1812 See 976.3
Indiana admitted, 19th state 11 Dec. 1816 See 977.2
### History: United States

#### War of 1812

- War declared 18 June 1812. Treaty of peace 24 Dec. 1814

#### Political history; causes, results

- Hartford convention

#### Diplomatic history

#### Special campaigns and battles

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1      | Campain in northwest  
        | Includes all west of New York  
        | Surrender of Detroit  16 Aug. 1812 |
| 2      | Events in northwest  1813-14 |
| 3      | Campain in New York, New England and Canada  
        | Battle of Queenstown  13 Oct. 1812 |
| 4      | Events in New York and New England  1813  
        | Capture of Fort Niagara  19 Dec. |
| 5      | Events in Canada  1813  
        | Capture of Fort George  27 May  
        | Battle of Thames  5 Oct. |
| 6      | Events in New York and New England  1814  
        | Bombardment of Stonington, Conn.  9-12 Aug. |
| 7      | Events in Canada  1814  
        | Capture of Fort Erie  3 July  
        | Battle of Chippewa  5 July  
        | Battle of Lundy's lane  25 July |
| 8      | Campain in the south  
        | Battle of Bladensburg  24 Aug. 1814  
        | Burning of Washington  24 Aug. 1814  
        | Bombardment of Fort McHenry  13 Sep. 1814 |
| 9      | Events in Louisiana  
        | Battle of New Orleans  22 Dec. 1814-8 Jan. 1815 |

#### General military history

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>English side</td>
</tr>
<tr>
<td>2</td>
<td>Indian allies</td>
</tr>
</tbody>
</table>
| 3      | American side in general  
        | Divided like 974. Under the number for each state use the book numbers  
        | A1-A19 for official publications, A2 for lists of soldiers |
| 4      | South Atlantic states  
        | Divided like 975 |
| 5      | Gulf states  
        | Divided like 976 |
| 6      | Lake states  
<pre><code>    | Divided like 977 |
</code></pre>
<table>
<thead>
<tr>
<th>973.525</th>
<th>Naval history</th>
</tr>
</thead>
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### Martin Van Buren

Born 5 Dec. 1782; died 24 July 1862  
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### William Henry Harrison

Born 9 Feb. 1773; died 4 Apr. 1841  
Dorr's rebellion: May–June 1842 See 974.5  
Ashburton treaty, northeast boundary: 1842  
Texas annexation resolution: 28 Feb. 1845  
Florida admitted, 27th state: 3 Mar. 1845

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1845–61

### James Knox Polk

Born 2 Nov. 1795; died 15 June 1849  
Texas annex, 28th state: 29 Dec. 1845 See 976.4  
Wilmot proviso adopted by house: 8 Aug. 1846 See also 973.7113  
Iowa admitted, 29th state: 28 Dec. 1846 See 977.7  
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Free soil party; Buffalo convention: Aug. 1848 See 329.6

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1845–48  
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Zachary Taylor  5 Mar. 1849–9 July 1850
Born 24 Sep. 1784; died 9 July 1850
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29 Jan. 1850  See also 326.973 and 973.7113

Millard Fillmore  9 July 1850–4 Mar. 1853
Born 7 Feb. 1800; died 7 Mar. 1874
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Born 23 Nov. 1804; died 8 Oct. 1869
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James Buchanan  4 Mar. 1857–4 Mar. 1861
Born 23 Ap. 1791; died 1 June 1868
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.72 Diplomatic history
.73 Special campaigns and battles
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Born 12 Feb. 1809; died 15 Apr. 1865
1st term 4 Mar. 1861—4 Mar. 1865; 2d term 4 Mar. 1865—15 Apr. 1865

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3 Compromises
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5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.
6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
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7 North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
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2 Kentucky, Tennessee, north Alabama, southwest Virginia
   19 Nov. 1861-4 March 1862
   Capture of Fort Henry, Tenn. 6 Feb.
   Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861-10 Apr. 1862
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4 Southeastern Virginia 11 Jan.-17 Mar.
   Battle of Merrimac and Monitor See 973.752
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5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia
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   Siege of Corinth, Miss. 29 Apr.-10 June
6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Apr.
7 Peninsular campaign, Va. 17 Mar.-2 Sep.
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    Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
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8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
    Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
    Second battle of Bull Run or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W.

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    Second battle of Bull Run or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian Territory, Dep't of N. W.

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1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862-11 June 1863
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8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania
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1 South Carolina, Georgia, middle and east Florida 12 June–31 Dec.

2 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania
   4 Aug.–31 Dec.

3 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.–19 Oct.


7 Knoxville, Tenn. campain 4 Nov.–23 Dec.

8 Siege of Knoxville, Tenn. 17 Nov.–4 Dec.

9 Chattanooga-Ringgold campain 23–27 Nov.
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1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 Jan.–30 Apr.
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   Capture of Fort Pillow, Tenn. 12 Apr.

   Engagement at Morton's Ford, Va. 6–7 Feb.
   Kilpatrick's expedition against Richmond, Va. 28 Feb.–4 Mar.

3 Louisiana, trans-Mississippi 1 Jan.–30 June
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4 South Carolina, Florida, Georgia coast 1 Jan.–13 Nov.
   Charleston, S. C. harbor and vicinity
   Florida expedition 5–22 Feb.
   Engagement at Olustee or Ocean Pond, Fla. 20 Feb.

5 Southeastern Virginia, North Carolina 1 May–12 June
   Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12–16 May
   Operations on the Bermuda Hundred, Va. front 17 May–2 June
   Engagement at Petersburg, Va. 9 June

6 Battle of the Wilderness, Va. 5–7 May

7 Operations about Spottsylvania Court-House, Va. 8–21 May

8 Operations at and about Cold Harbor, Va. 31 May–12 June

9 Northern Virginia, West Virginia, Maryland, Pennsylvania
   1 May–3 Aug.
   Engagement at New Market, Va. 15 May
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   Richmond, Va. campaign
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5  Southeastern Virginia, North Carolina  1 Aug.–31 Dec.
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6  Northern Virginia, West Virginia, Maryland, Pennsylvania
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7  Shenandoah valley campain, Va.  7 Aug.–28 Nov.
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9  Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama
   north Georgia  14 Nov.–23 Jan. 1865
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   Battle of Nashville, Tenn.  15–16 Dec.

.738  Campain of 1865

1  Northern and southeastern Virginia, North Carolina, West Virginia,
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2  Richmond, Va. campain  1 Jan.–3 Apr.
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5  North Carolina, South Carolina, southern Georgia, east Florida
   1 Jan.–30 June
   Campain of the Carolinas  1 Jan.–26 Apr.
6  Louisiana, trans-Mississippi  1 Jan.–30 June
7  Kentucky, southwestern Virginia, Tennessee, northern and central
   Georgia, Mississippi, Alabama, west Florida  1 Jan.–30 June
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     B whole state, C county, D town
     E Histories of cavalry regiments
     F Hevy artillery
     G Light artillery
     J-L Infantry
        J regiments 1-99
        K regiments 100-199
        L regiments 200-299
        The individual regiment is marked by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments 0 must be prefixed to the number for the 1st 10 regiments, J09 9th regiment of infantry
        For the border states which also had regiments on the confederate side use similarly P-S
     O Special brigades
     P Cavalry
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Andrew Johnson 15 Ap. 1865–4 Mar. 1869
Born 29 Dec. 1808; died 31 July 1875
13th amendment abolishing slavery, adopted 18 Dec. 1865
See also 326.8 and 342.739
Fenian invasion of Canada 31 May–2 June 1866 See also 971
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14th amendment guaranteeing citizenship, adopted 28 July 1868
See 347.739
973.82 Ulysses Simpson Grant 4 Mar. 1869-4 Mar. 1877

Born 27 Apr. 1822; died 23 July 1885
Treaty for annexation of Santo Domingo, signed 29 Nov. 1869; rejected by Senate 30 June 1870 See also 973.93
15th Amendment guaranteeing suffrage, adopted 30 Mar. 1870 See 324.1 and 347.739
First provision for civil service reform 3 Mar. 1871 See also 351.6
Geneva arbitration award 14 Sep. 1872 See 341.6; 973.722; 973.757
Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator 23 Oct. 1872
Credit mobilier investigation Dec. 1872-Feb. 1873
Coinage Act 12 Feb. 1873 See 332.47
Modoc war, California Nov. 1872-June 1873
Financial panic 19-30 Sep. 1873 See 332
Virginious incident Oct.-Dec. 1873
Whisky ring 1872-75 See 336.73
Civil rights act 1 Mar. 1875
Colorado admitted, 38th state 1 Aug. 1876 See 978.8
Centennial exposition, Philadelphia 10 May-10 Nov. 1876 See 606
Electoral commission Feb. 1877

.83 Rutherford Birchard Hayes 4 Mar. 1877-4 Mar. 1881

Born 4 Oct. 1822; died 17 Jan. 1893
Halifax fishery award 23 Nov. 1877
Bland silver act 28 Feb. 1878 See 332.47
Resumption of specie payment 1 Jan. 1879 See 332.5 and 336.73

.84 James Abram Garfield 4 Mar. 1881-19 Sep. 1881

Born 19 Nov. 1831; died 19 Sep. 1881
Chester Alan Arthur 19 Sep. 1881-4 Mar. 1885

Born 5 Oct. 1830; died 18 Nov. 1886
International cotton exposition 5 Oct.-31 Dec. 1881 See 606
Edmund Act to suppress polygamy 22 Mar. 1882 See also 293
Pendleton civil service reform act 11 Jan. 1883 See 351.6

.85 Grover Cleveland 4 Mar. 1885-4 Mar. 1889

Born 18 Mar. 1839; died 24 June 1908
Act regulating the presidential succession 19 Jan. 1886 See 333.03
Mexican war pension act 29 Jan. 1887 See 351.5
Act creating Interstate commerce commission 4 Feb. 1887 See 383
Dependent pension bill vetoed 11 Feb. 1887 See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15-17 Sep. 1887
Act to establish the Labor dep't 13 June 1888 See 331
Fisheries treaty, signed 15 Feb. 1888; rejected by Senate 21 Aug. 1888
See 333.9 and 341.273
Act to make Agriculture dep't an executive dep't 9 Feb. 1889
See also 630.6 and 333.8
Benjamin Harrison

4 Mar. 1889–4 Mar. 1889

4 Mar. 1893–4 Mar. 1897

4 Mar. 1897–14 Sep. 1901

973.86

Born 20 Aug. 1833; died 13 Mar. 1901

Opening of Oklahoma 2 Ap. 1889 See 976.6
North Dakota admitted, 39th state 2 Nov. 1889 See 973.4
South Dakota admitted, 40th state 2 Nov. 1889 See 973.3
Montana admitted, 41st state 8 Nov. 1889 See 978.6
Washington admitted, 42d state 11 Nov. 1889 See 979.7
International American conference 2 Oct. 1889–19 Ap. 1890 See 341.1

Idaho admitted, 43d state 3 July 1890 See 979.6
Wyoming admitted, 44th state 10 July 1890 See 978.7
Sherman silver act, repealing silver act of 1878 14 July 1890

McKinley tariff act 1 Oct. 1890 See 337.3
Controversy with Chile Oct. 1891–July 1892 See 983
Geary Chinese exclusion act 5 May 1892 See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate, 15 Feb. 1893; withdrawn, 9 Mar. 1893 See 996.9

Utah admitted, 45th state 4 Jan. 1896 See 979.2

9891

Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898
Acquisition of Philippines and Porto Rico

9892

Diplomatic history

9893

Special campaigns and battles
Siege of Santiago 22 June–17 July 1898
Battle of El Caney 1 July 1898

9894

General military history
May be subdivided like 973.74

9895

Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera’s squadron 3 July 1898

9896

War meetings, celebrations, anniversaries

9897

Prisons, hospitals, etc.

9898

Personal narratives

.899

Illustrative materials
Early 20th century

Theodore Roosevelt
Born 27 Oct. 1858; died 6 Jan. 1919

William Howard Taft
Born 15 Sep. 1857

Woodrow Wilson
Born 28 Dec. 1856
War with Germany 1917-19

1901-
14 Sep. 1901-4 Mar. 1909
4 Mar. 1909-4 Mar. 1913
4 Mar. 1913-
### Northeastern or North Atlantic

#### New England

**Maine**
- Admitted 15 Mar. 1820 as 23rd state
- Area 33,040 sq. mi. 16 counties
- Population 743,371 in 1910
- Sobriquets: Pine tree state, Polar Star state
- Capital: Augusta

<table>
<thead>
<tr>
<th>County</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>Aroostook</td>
<td>74 664</td>
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<tr>
<td>Somerset</td>
<td>36 301</td>
</tr>
<tr>
<td>Piscataquis</td>
<td>19 887</td>
</tr>
<tr>
<td>Penobscot</td>
<td>85 285</td>
</tr>
<tr>
<td>Washington</td>
<td>42 905</td>
</tr>
<tr>
<td>Hancock</td>
<td>35 575</td>
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<tr>
<td>Waldo</td>
<td>23 383</td>
</tr>
<tr>
<td>Knox</td>
<td>28 981</td>
</tr>
<tr>
<td>Lincoln</td>
<td>18 216</td>
</tr>
<tr>
<td>Kennebec</td>
<td>62 863</td>
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<tr>
<td>Franklin</td>
<td>19 119</td>
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<tr>
<td>Oxford</td>
<td>36 256</td>
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<tr>
<td>Androscoggin</td>
<td>59 822</td>
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<tr>
<td>Sagadahoc</td>
<td>18 574</td>
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<tr>
<td>Cumberland</td>
<td>112 014</td>
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<tr>
<td>Portland</td>
<td></td>
</tr>
<tr>
<td>York</td>
<td>68 526</td>
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</table>

**New Hampshire**
- Area 9341 sq. mi. 10 counties
- Population 430,572 in 1910
- Sobriquet: Granit state
- Capital: Concord

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<tbody>
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<td>Grafton</td>
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<tr>
<td>Carroll</td>
<td>16 316</td>
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<td>Belknap</td>
<td>21 304</td>
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<tr>
<td>Strafford</td>
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<tr>
<td>Rockingham</td>
<td>52 188</td>
</tr>
<tr>
<td>Merrimac</td>
<td>53 335</td>
</tr>
<tr>
<td>Sullivan</td>
<td>19 337</td>
</tr>
<tr>
<td>Hillsboro</td>
<td>126 072</td>
</tr>
<tr>
<td>Cheshire</td>
<td>30 659</td>
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**Vermont**
- Area 9564 sq. mi. 14 counties
- Population 355,956 in 1910
- Sobriquet: Green Mt state
- Capital: Montpelier

<table>
<thead>
<tr>
<th>County</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>Grand Isle</td>
<td>3 761</td>
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<tr>
<td>Franklin</td>
<td>29 866</td>
</tr>
<tr>
<td>Chittenden</td>
<td>42 447</td>
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<tr>
<td>Orleans</td>
<td>23 337</td>
</tr>
<tr>
<td>Essex</td>
<td>7 384</td>
</tr>
<tr>
<td>Caledonia</td>
<td>26 031</td>
</tr>
<tr>
<td>Lamoille</td>
<td>12 585</td>
</tr>
<tr>
<td>Washington</td>
<td>41 702</td>
</tr>
<tr>
<td>Addison</td>
<td>20 010</td>
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<tr>
<td>Orange</td>
<td>18 703</td>
</tr>
<tr>
<td>Windsor</td>
<td>33 681</td>
</tr>
<tr>
<td>Rutland</td>
<td>48 139</td>
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<tr>
<td>Bennington</td>
<td>21 378</td>
</tr>
<tr>
<td>Windham</td>
<td>26 932</td>
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</table>
Massachusetts

Area 8266 sq. mi. 14 counties
Population 3,366,416 in 1910
Sobriquet: Bay state Capital: Boston

Population in 1910

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
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<tbody>
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<td>105 259</td>
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<tr>
<td>Franklin</td>
<td>43 600</td>
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<tr>
<td>Hampshire</td>
<td>63 327</td>
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<tr>
<td>Hampden</td>
<td>231 369</td>
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<tr>
<td>Worcester</td>
<td>399 657</td>
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<tr>
<td>Middlesex</td>
<td>669 915</td>
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<tr>
<td>Essex</td>
<td>436 477</td>
</tr>
<tr>
<td>Suffolk</td>
<td>731 388</td>
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<tr>
<td>Boston</td>
<td>670 585</td>
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<tr>
<td>Norfolk</td>
<td>187 506</td>
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<tr>
<td>Plymouth</td>
<td>144 337</td>
</tr>
<tr>
<td>Bristol</td>
<td>318 573</td>
</tr>
<tr>
<td>Barnstable</td>
<td>27 542</td>
</tr>
<tr>
<td>Dukes</td>
<td>4 504</td>
</tr>
<tr>
<td>Nantucket</td>
<td>2 962</td>
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</table>

Rhode Island

Area 1248 sq. mi. 5 counties
Population 542,610 in 1910
Sobriquet: Little Rhody Capital: Providence

Population in 1910

<table>
<thead>
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<th>City</th>
<th>Population</th>
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<tbody>
<tr>
<td>Providence</td>
<td>424 353</td>
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<tr>
<td>Providence (city)</td>
<td>224 326</td>
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<tr>
<td>Pawtucket</td>
<td>51 622</td>
</tr>
<tr>
<td>Kent</td>
<td>36 378</td>
</tr>
<tr>
<td>Bristol</td>
<td>17 602</td>
</tr>
<tr>
<td>Newport</td>
<td>39 335</td>
</tr>
<tr>
<td>Newport (city)</td>
<td>27 149</td>
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<tr>
<td>Block Island</td>
<td></td>
</tr>
<tr>
<td>Washington</td>
<td>24 942</td>
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</tbody>
</table>

Connecticut

Area 4965 sq. mi. 8 counties
Population 1,114,736 in 1910
Sobriquet: Wooden Nutmeg state Capital: Hartford

Population in 1910

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
</tr>
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<tbody>
<tr>
<td>Litchfield</td>
<td>70 260</td>
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<tr>
<td>Hartford</td>
<td>250 182</td>
</tr>
<tr>
<td>Hartford (city)</td>
<td>98 915</td>
</tr>
<tr>
<td>Tolland</td>
<td>26 459</td>
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<tr>
<td>Windham</td>
<td>48 361</td>
</tr>
<tr>
<td>New London</td>
<td>91 253</td>
</tr>
<tr>
<td>Middlesex</td>
<td>45 637</td>
</tr>
<tr>
<td>New Haven</td>
<td>337 282</td>
</tr>
<tr>
<td>New Haven (city)</td>
<td>133 605</td>
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<tr>
<td>Fairfield</td>
<td>245 322</td>
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</tbody>
</table>
New York

Area 49,204 sq. mi.  61 counties (exclusive of Bronx)
Population 9,113,614 in 1910
Sobriquet: Empire state  Capital: Albany

Population in 1910

New York (city)  4,766,883
Vicinity of New York city

Long Island

Kings county 1,634,351
Brooklyn 1,634,351

Queens county 284,041
Nassau 83,930
Suffolk 96,138
Richmond  85,969
Westchester  283,055
Bronx boro (and county)  430,980

Rockland county 46,873

Southeast counties

Orange, West Point 116,001
Putnam 14,665
Dutchess 87,661
Ulster 91,769
Sullivan 33,808
Delaware 45,575
Green 30,214
Catskill mts
Columbia 43,658

Middle east counties

Rensselaer 122,276
Troy 76,813
Albany 173,666

Albany (city) 100,253
Schenectady 88,235
Schoharie 23,855
Montgomery 57,567
Fulton 44,534
Saratoga 61,917
Washington 47,778

Northern counties

Warren 32,223
Lake George
Hamilton 4,373
Schoharie 23,855
Essex 33,458
Adirondaks
Clinton 48,230
Lake Champlain
Franklin 45,717
St Lawrence 89,005
Jefferson 80,382
Thousand Islands
Lewis 24,849
### New York

<table>
<thead>
<tr>
<th>Region</th>
<th>Counties</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>North central counties</td>
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<tr>
<td></td>
<td>Herkimer</td>
<td>56 356</td>
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<tr>
<td></td>
<td>Oneida</td>
<td>154 157</td>
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<tr>
<td></td>
<td>Utica</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Madison</td>
<td>39 289</td>
</tr>
<tr>
<td></td>
<td>Onondaga</td>
<td>200 298</td>
</tr>
<tr>
<td></td>
<td>Syracuse</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oswego</td>
<td>71 664</td>
</tr>
<tr>
<td></td>
<td>Cayuga</td>
<td>67 106</td>
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<tr>
<td></td>
<td>Seneca</td>
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<tr>
<td>South central counties</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Tompkins</td>
<td>33 647</td>
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<tr>
<td></td>
<td>Cortland</td>
<td>29 249</td>
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<td></td>
<td>Chenango</td>
<td>35 575</td>
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<tr>
<td></td>
<td>Otsego</td>
<td>47 216</td>
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<td></td>
<td>Broome</td>
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<tr>
<td></td>
<td>Binghamton</td>
<td>48 443</td>
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<tr>
<td></td>
<td>Tioga</td>
<td>25 624</td>
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<td></td>
<td>Chemung</td>
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<td></td>
<td>Elmira</td>
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<tr>
<td>West central counties</td>
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<td></td>
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<td>Yates</td>
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<td>Steuben</td>
<td>83 362</td>
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<td></td>
<td>Alleghany</td>
<td>41 412</td>
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<td></td>
<td>Livingston</td>
<td>38 037</td>
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<td></td>
<td>Ontario</td>
<td>52 286</td>
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<tr>
<td></td>
<td>Wayne</td>
<td>50 179</td>
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<td></td>
<td>Monroe</td>
<td>283 212</td>
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<td>Rochester</td>
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<td>Western counties</td>
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<td></td>
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<td>105 126</td>
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<td>Erie</td>
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<td></td>
<td>Buffalo</td>
<td>423 715</td>
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<td></td>
<td>Niagara</td>
<td>92 036</td>
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<tr>
<td></td>
<td>Niagara Falls</td>
<td>30 445</td>
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Pennsylvania

Area, 45,126 sq. mi. 68 counties
Population, 7,665,111 in 1910
Sobriquet: Keystone state  Capital: Harrisburg

<table>
<thead>
<tr>
<th>.81</th>
<th>Southeast counties</th>
<th>Philadelphia and Chester group</th>
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<tbody>
<tr>
<td>.811</td>
<td>Philadelphia (co. and city)</td>
<td>5,489,008</td>
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<tr>
<td>.812</td>
<td>Montgomery</td>
<td>169,590</td>
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<tr>
<td>.813</td>
<td>Chester</td>
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<td>.814</td>
<td>Delaware</td>
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<td>.816</td>
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<table>
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<th>Bucks group</th>
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<td>.824</td>
<td>Pike</td>
<td>8,033</td>
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<tr>
<td>.825</td>
<td>Monroe</td>
<td>22,941</td>
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<tr>
<td>.826</td>
<td>Carbon</td>
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<td>Lehigh</td>
<td>118,832</td>
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<table>
<thead>
<tr>
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<th>Northumberland group</th>
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<td>.834</td>
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<td>.835</td>
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<td>.836</td>
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<td>259,570</td>
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<td>.838</td>
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<th>.84</th>
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<th>Cumberland group</th>
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<td>.841</td>
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<td>Mifflin</td>
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<td>Union</td>
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<td>.849</td>
<td>Snyder</td>
<td>16,800</td>
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<th>East Lycoming group</th>
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<td>Potter</td>
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Pennsylvania

Northwest central counties  West Lycoming group
974.86  Clearfield  974.86  West Lycoming
.861  Jefferson  63 090
.862  McKeen  47 868
.863
.864
.865  Elk  35 871
.866  Cameron  7 644
.867  Warren  39 573
.868  Forest  9 435
.869  Clarion  36 638
.87  Southwest central counties  Bedford group
.871  Bedford  38 879
.872  Fulton  9 703
.873  Huntington  38 304
.874
.875  Blair  108 858
.876  Altoona  52 127
.877  Cambria  166 131
.878
.879  Somerset  67 717
.88  Southwest counties  Westmoreland group
.881  Westmoreland  231 304
.882  Washington  143 680
.883  Greene  28 882
.884  Fayette  167 449
.885  Allegheny  1 018 763
.886  Pittsburg
.887  Allegheny City  Annexed to Pittsburg in 1907
.888  Armstrong  67 880
.889  Indiana  66 210
.89  Northwest counties  Allegheny group
.891  Butler  72 689
.892  Beaver  78 353
.893  Lawrence  70 032
.894
.895  Mercer  77 699
.896  Venango  56 359
.897  Crawford  61 565
.898
.899  Erie  115 517
.9  New Jersey

Area 8,224 sq. mi.  21 counties
Population 2,557.167 in 1910
Sobriquet: Jersey Blue state  Capital: Trenton

East Jersey

Northern counties
.91  Bergen  138 002
.92  Passaic  215 902
.93  Paterson  125 600
.94  Hudson  537 231
.95  Jersey City  267 779
.96  Hoboken  70 324

Population in 1910
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<td>Cape May</td>
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Southeastern or South Atlantic
Including general works on the South

Delaware
Area 1965 sq. mi.  Population 202,322 in 1910  3 counties  Sobriquets: Blue Hen state, Diamond state
Capital: Dover  Population in 1910
Newcastle  123 188
Wilmington  87 411
Kent  22 721
Sussex  46 413

Maryland
Eastern Maryland
Worcester  21 841
Somerset  26 455
Wicomico  26 815
Dorchester  28 669
Caroline  19 216
Talbot  19 620
Queen Anne  16 839
Kent  16 957
Cecil  23 759
Southern Maryland
St Mary  17 030
Calvert  10 325
Charles  16 386
Prince George  36 147
Anne Arundel  39 553
Annapolis  8 609
Baltimore (city)  558 485
North central
Baltimore  122 349
Harford  27 965
Carroll  33 934
Howard  16 106
Montgomery  32 689
Frederick  52 673
Frederick (city)  10 411
Western
Washington  49 617
Hagerstown  15 507
 Allegany  62 411
Cumberland  21 839
Garrett  20 105
District of Columbia, Washington (city)
Area 70 sq. mi.  Population (Washington) 331,069 in 1910
West Virginia

19 June 1863 admitted as 35th state
Area 24,780 sq. mi.
Population 1,221,119 in 1910

Sobriquet: Panhandle state
Capital: Charleston

OUTLINE

Ohio valley

Northern Panhandle

Little Kanawha valley

Kanawha valley

Southwestern border counties

Guyandotte valley

Tug valley

Central plateau

Monongahela valley

Central counties

Elk valley

Gauley valley

New River valley

Alleghany crest

Mountain counties

Cheat valley

Greenbrier valley

Eastern Panhandle

Potomac valley

Ohio valley

Northern Panhandle

Population 1910

Hancock 10,465
Brooke 11,068
Ohio 57,572
Wheeling 41,641
Marshall 32,388
Wetzel 23,855
Tyler 16,211

Little Kanawha valley

Pleasants 8,074
Wood 38,001
Parkersburg 17,842
Ritchie 17,875
Wirt 9,047
Gilmer 11,379

Kanawha valley

Jackson 20,956
Mason 23,019
Putnam 18,587
Roane 21,543
Kanawha 81,457
Charleston 22,996
Boone 10,331

Central plateau

Monongahela valley

Central counties

Elk valley

Gauley valley

New River valley

Alleghany crest

Mountain counties

Cheat valley

Greenbrier valley

Eastern Panhandle

Potomac valley
West Virginia: Ohio valley

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<td>White Sulphur Springs</td>
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West Virginia
975.49 Eastern Panhandle Potomac valley
.491 Pendleton 9 349
.492 Grant 7 838
.493 Hardy 9 163
.494 Mineral 16 674
.495 Hampshire 11 694
.496 Morgan 7 848
.497 Berkeley 21 999
.498
.499 Jefferson 15 889

976 South Central or Gulf
1 Alabama
1702 settled by French
14 Dec. 1819 admitted as 22d state
11 Jan. 1861 seceded; 25 June 1868 readmitted Area 51,279 sq. mi.
Population 2,138,093 in 1910 67 counties
Sobriquet: Land of Flowers Capital: Montgomery

2 Mississippi
7 Ap. 1798 organized as territory; 10 Dec. 1817 admitted as 20th state
9 Jan. 1861 seceded; 17 Feb. 1879 readmitted Area 45,362 sq. mi.
Population 1,797,114 in 1910 79 counties
Sobriquet: Bayou state Capital: Jackson

3 Louisiana
1699 settled by French
30 Ap. 1803 bought of France 1 Oct. 1804 organized as Territory of Orleans
8 Ap. 1812 Louisiana admitted as 18th state
26 Jan. 1861 seceded; 25 June 1868 readmitted Area 45,409 sq. mi.
Population 1,656,388 in 1910 60 parishes
Sobriquets: Pelican state, Creole state Capital: Baton Rouge
**HISTORY: UNITED STATES**

976 South Central or Gulf

**Texas**
- 20 Dec. 1835 independence from Mexico declared; 2 Mar. 1836 republic formed
- 29 Dec. 1845 annexed as 28th state
- 1 Feb. 1861 seceded; 30 Mar. 1870 readmitted
- Population 3,896,542 in 1910
- Area 262,398 sq. mi.
- 245 counties
- Sobriquet: Lone Star state
- Capital: Austin

**Indian Territory**

**Oklahoma**
- 30 June 1834 assigned to Indians (part of Louisiana purchase)
- Area 30,790 sq. mi.
- Population 800,000 in 1906
- Oklahoma organized as separate territory 2 May 1890
- 16 Nov. 1907 admitted as 46th state
- Area 69,414 sq. mi.
- Dobriquet: Sooner state
- Capital: Guthrie

**Arkansas**
- 4 June 1812 included in Missouri territory; 2 Mar. 1819 organized as Arkansas territory
- 15 June 1836 admitted as 25th state
- 6 May 1861 seceded; 22 June 1868 readmitted
- Area 52,525 sq. mi.
- Population 1,574,449 in 1910
- 75 counties
- Sobriquet: Bear state
- Capital: Little Rock

**Tennessee**
- 1779 settled from Virginia; 14 Dec. 1784 organized by settlers as state of Franklin (or Frankland)
- 1 June 1796 admitted as 16th state
- 8 June 1861 seceded; 24 July 1866 readmitted
- Area 41,687 sq. mi.
- Population 2,184,789 in 1910
- 96 counties
- Sobriquet: Big Bend state
- Capital: Nashville

**Kentucky**
- 1775 settled by Daniel Boone; 29 May 1790 territory organized
- 1 June 1792 admitted as 15th state
- Area 40,181 sq. mi.
- Population 2,289,905 in 1910
- 119 counties
- Sobriquet: Blue Grass state
- Capital: Frankfort

977 North Central or Lake

**Ohio**
- 19 Feb. 1803 admitted as 17th state
- Area 40,760 sq. mi.
- Population 4,767,121 in 1910
- 88 counties
- Sobriquet: Buckeye state
- Capital: Columbus

**Northwest counties**

<table>
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<th>Population 1910</th>
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<td>Lucas</td>
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<td>Toledo</td>
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<td>Defiance</td>
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<tr>
<td>Henry</td>
<td>25 119</td>
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<tr>
<td>Wood</td>
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<td>Paulding</td>
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## Ohio

### Central north counties

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### Northeast counties

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### Central west counties

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<td>Central counties</td>
<td>Population 1910</td>
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### Ohio

#### Central south counties

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#### Southeast counties

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**Indiana**

1809 Indiana territory with present boundaries established
11 Dec. 1816, Indiana admitted as 19th state
Population 2,700,876 in 1910 92 counties Area 36,350 sq. mi.
Sobriquet: Hoosier state Capital: Indianapolis

### Southeast counties

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Jeffersonville 10,412

Floyd 30,293
New Albany 20,629

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### Southwest counties

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Evansville 69,647

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Terre Haute 58,157

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Indiana

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Population 1910

- Indianapolis: 233,650
- Anderson: 22,476
- Richmond: 22,324
- Muncie: 24,005
- Fort Wayne: 63,933
- South Bend: 53,684
### Indiana

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### Illinois

1809 Illinois territory formed  3 Dec. 1818 Illinois admitted  
Area 56,043 sq. mi.  Population 5,038,591 in 1910  102 counties  
Sobriquet: Prairie state  Capital: Springfield

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## Illinois

### Southeast counties

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### Southwest counties

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**Alton**

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<tr>
<td>St Clair</td>
<td>119,870</td>
</tr>
</tbody>
</table>

**Belleville**

<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Bond</td>
<td>17,075</td>
</tr>
<tr>
<td>2 Clinton</td>
<td>22,832</td>
</tr>
<tr>
<td>3 Washington</td>
<td>18,759</td>
</tr>
<tr>
<td>4 St Clair</td>
<td>119,870</td>
</tr>
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</table>

### Southern counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
</tr>
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<tbody>
<tr>
<td>Monroe</td>
<td>13,508</td>
</tr>
<tr>
<td>Randolph</td>
<td>29,120</td>
</tr>
<tr>
<td>Perry</td>
<td>22,088</td>
</tr>
<tr>
<td>Franklin</td>
<td>25,943</td>
</tr>
<tr>
<td>Hamilton</td>
<td>18,227</td>
</tr>
<tr>
<td>White</td>
<td>23,052</td>
</tr>
<tr>
<td>Gallatin</td>
<td>14,628</td>
</tr>
<tr>
<td>Hardin</td>
<td>7,015</td>
</tr>
<tr>
<td>1 Pope</td>
<td>11,215</td>
</tr>
<tr>
<td>2 Saline</td>
<td>30,204</td>
</tr>
<tr>
<td>3 Williamson</td>
<td>45,098</td>
</tr>
<tr>
<td>4 Jackson</td>
<td>35,143</td>
</tr>
<tr>
<td>5 Union</td>
<td>21,856</td>
</tr>
<tr>
<td>6 Johnson</td>
<td>14,331</td>
</tr>
<tr>
<td>7 Massac</td>
<td>14,200</td>
</tr>
<tr>
<td>8 Pulaski</td>
<td>15,650</td>
</tr>
<tr>
<td>9 Alexander</td>
<td>22,741</td>
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**Cairo**

<table>
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<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cairo</td>
<td>14,540</td>
</tr>
</tbody>
</table>
Michigan

Organized as separate territory 1805
Admitted 1837

Area 78,015 sq. mi.
Population 2,810,173 in 1910

83 counties

Sobriquets: Wolverine, Lake state

Capital: Lansing

**Lower Peninsula**

<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
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</thead>
<tbody>
<tr>
<td>Berrien</td>
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</tr>
<tr>
<td>Cass</td>
<td>20,624</td>
</tr>
<tr>
<td>Van Buren</td>
<td>33,185</td>
</tr>
<tr>
<td>Allegan</td>
<td>39,819</td>
</tr>
<tr>
<td>Ottawa</td>
<td>45,301</td>
</tr>
<tr>
<td>Barry</td>
<td>22,633</td>
</tr>
<tr>
<td>Kalamazoo</td>
<td>60,427</td>
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<tr>
<td>St Joseph</td>
<td>25,499</td>
</tr>
<tr>
<td>Branch</td>
<td>25,605</td>
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<tr>
<td>Calhoun</td>
<td>56,638</td>
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<tr>
<td>Eaton</td>
<td>30,490</td>
</tr>
<tr>
<td>Clinton</td>
<td>23,129</td>
</tr>
<tr>
<td>Shiawassee</td>
<td>33,246</td>
</tr>
<tr>
<td>Ingham</td>
<td>53,310</td>
</tr>
<tr>
<td>Lansing</td>
<td>31,229</td>
</tr>
<tr>
<td>Jackson</td>
<td>53,426</td>
</tr>
<tr>
<td>Hillsdale</td>
<td>29,673</td>
</tr>
<tr>
<td>Lenawee</td>
<td>47,907</td>
</tr>
<tr>
<td>Monroe</td>
<td>32,917</td>
</tr>
<tr>
<td>Wayne</td>
<td>53,159</td>
</tr>
<tr>
<td>Detroit</td>
<td>46,766</td>
</tr>
<tr>
<td>Washtenaw</td>
<td>44,714</td>
</tr>
<tr>
<td>Livingston</td>
<td>17,736</td>
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<tr>
<td>Genesee</td>
<td>64,555</td>
</tr>
<tr>
<td>Oakland</td>
<td>49,576</td>
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<tr>
<td>Macomb</td>
<td>32,606</td>
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<tr>
<td>St Clair</td>
<td>52,341</td>
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<tr>
<td>Lapeer</td>
<td>26,033</td>
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<tr>
<td>Sanilac</td>
<td>33,930</td>
</tr>
<tr>
<td>Huron</td>
<td>34,758</td>
</tr>
<tr>
<td>Tuscola</td>
<td>34,913</td>
</tr>
<tr>
<td>Saginaw</td>
<td>89,290</td>
</tr>
<tr>
<td>Saginaw (city)</td>
<td>50,510</td>
</tr>
<tr>
<td>Bay</td>
<td>68,238</td>
</tr>
<tr>
<td>Bay City</td>
<td></td>
</tr>
<tr>
<td>West Bay City</td>
<td>45,166</td>
</tr>
<tr>
<td>Midland</td>
<td>14,005</td>
</tr>
<tr>
<td>Gratiot</td>
<td>28,820</td>
</tr>
</tbody>
</table>

Annex to Bay City in April 1905
### Michigan

#### Southwest central counties

| .451 | Isabella       | 23 029 |
| .452 | Mecosta        | 19 466 |
| .453 | Montcalm       | 32 069 |
| .454 | Ionia          | 33 550 |
| .455 | Kent           | 159 145 |
| .456 | **Grand Rapids**  | 112 571 |
| .457 | Muskegon       | 40 577 |
|       | Muskegon (city) |        |
| .458 | Newaygo        | 19 220 |
| .459 | Oceana         | 18 379 |

#### Northwest central counties

| .461 | Mason          | 21 832 |
| .462 | Manistee       | 26 688 |
|       | Manistee (city)|        |
| .463 | Benzie         | 10 638 |
|       | Leelanau       | 10 608 |
| .464 | Grand Traverse | 23 784 |
| .465 | Kalkaska       | 8 097  |
| .466 | Missaukee      | 10 606 |
| .467 | Wexford        | 20 769 |
| .468 | Lake           | 4 939  |
| .469 | Osceola        | 17 889 |

#### Northeast central counties

| .471 | Clare          | 9 240  |
| .472 | Gladwin        | 8 413  |
| .473 | Arenac         | 9 640  |
| .474 | Iosco          | 9 755  |
| .475 | Ogemaw         | 8 907  |
| .476 | Roscommon      | 2 274  |
| .477 | Crawford       | 3 934  |
| .478 | Oscoda         | 2 027  |
| .479 | Alcona         | 5 703  |

#### Northern counties

| .481 | Alpena         | 19 965 |
| .482 | Presque Isle   | 11 249 |
| .483 | Montmorency    | 3 755  |
| .484 | Otsego         | 6 552  |
| .485 | Antrim         | 15 692 |
| .486 | Charlevoix     | 19 157 |
| .487 | Cheboygan      | 17 872 |
| .488 | Emmet          | 18 561 |
| .489 | Manitou        |        |

*Annexed to Charlevoix and Leelanau in 1896*
### Michigan

<table>
<thead>
<tr>
<th>Section</th>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>977-49</td>
<td>Upper peninsula</td>
<td></td>
</tr>
<tr>
<td>.491</td>
<td>Chippewa</td>
<td>24,472</td>
</tr>
<tr>
<td>.492</td>
<td>Mackinac</td>
<td>9,249</td>
</tr>
<tr>
<td></td>
<td>Luce</td>
<td>4,004</td>
</tr>
<tr>
<td>.493</td>
<td>Alger</td>
<td>7,675</td>
</tr>
<tr>
<td></td>
<td>Schoolcraft</td>
<td>8,681</td>
</tr>
<tr>
<td>.494</td>
<td>Delta</td>
<td>30,108</td>
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<td>.495</td>
<td>Menominee</td>
<td>25,648</td>
</tr>
<tr>
<td></td>
<td>Menominee (city)</td>
<td>10,507</td>
</tr>
<tr>
<td>.496</td>
<td>Dickinson</td>
<td>20,524</td>
</tr>
<tr>
<td>.497</td>
<td>Baraga</td>
<td>6,127</td>
</tr>
<tr>
<td></td>
<td>Iron</td>
<td>15,164</td>
</tr>
<tr>
<td>.498</td>
<td>Gogebic</td>
<td>23,333</td>
</tr>
<tr>
<td></td>
<td>Ontonagon</td>
<td>8,650</td>
</tr>
<tr>
<td>.499</td>
<td>Houghton</td>
<td>88,098</td>
</tr>
<tr>
<td></td>
<td>Keweenaw</td>
<td>7,156</td>
</tr>
<tr>
<td></td>
<td>Isle Royale</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Annexed to Keweenaw in 1897</td>
<td></td>
</tr>
</tbody>
</table>

### Wisconsin

- Wisconsin was organized as a territory in 1836 and admitted as a 30th state on May 29, 1848. The population was 2,333,860 in 1910, across 71 counties.

#### Northwest counties

<table>
<thead>
<tr>
<th>Section</th>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>.51</td>
<td>Douglas</td>
<td>47,422</td>
</tr>
<tr>
<td>.511</td>
<td>Superior</td>
<td>40,384</td>
</tr>
<tr>
<td>.512</td>
<td>Bayfield</td>
<td>15,987</td>
</tr>
<tr>
<td>.513</td>
<td>Burnett</td>
<td>9,026</td>
</tr>
<tr>
<td>.514</td>
<td>Washburn</td>
<td>8,196</td>
</tr>
<tr>
<td>.515</td>
<td>Sawyer</td>
<td>6,227</td>
</tr>
<tr>
<td>.516</td>
<td>Polk</td>
<td>21,367</td>
</tr>
<tr>
<td>.517</td>
<td>Barron</td>
<td>29,114</td>
</tr>
<tr>
<td>.518</td>
<td>Rusk (formerly Gates)</td>
<td>11,160</td>
</tr>
<tr>
<td></td>
<td>Name changed from Gates to Rusk in 1905. Gates organized from Chippewa in 1901</td>
<td></td>
</tr>
</tbody>
</table>

#### Central north counties

<table>
<thead>
<tr>
<th>Section</th>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>.52</td>
<td>Ashland</td>
<td>21,965</td>
</tr>
<tr>
<td>.521</td>
<td>Ashland (city)</td>
<td>11,594</td>
</tr>
<tr>
<td>.522</td>
<td>Iron</td>
<td>8,306</td>
</tr>
<tr>
<td>.523</td>
<td>Vilas</td>
<td>6,019</td>
</tr>
<tr>
<td>.524</td>
<td>Price</td>
<td>13,795</td>
</tr>
<tr>
<td>.525</td>
<td>Oneida</td>
<td>11,433</td>
</tr>
<tr>
<td>.526</td>
<td>Taylor</td>
<td>13,641</td>
</tr>
<tr>
<td>.527</td>
<td>Lincoln</td>
<td>19,064</td>
</tr>
<tr>
<td>.528</td>
<td>Clark</td>
<td>30,074</td>
</tr>
<tr>
<td>.529</td>
<td>Marathon</td>
<td>55,054</td>
</tr>
<tr>
<td></td>
<td>Wausau</td>
<td>16,560</td>
</tr>
</tbody>
</table>
## Wisconsin

### Northeast counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest</td>
<td>6,782</td>
</tr>
<tr>
<td>Florence</td>
<td>3,381</td>
</tr>
<tr>
<td>Marinette</td>
<td>33,812</td>
</tr>
<tr>
<td>Langlade</td>
<td>17,062</td>
</tr>
<tr>
<td>Shawano</td>
<td>31,884</td>
</tr>
<tr>
<td>Oconto</td>
<td>25,657</td>
</tr>
<tr>
<td>Waupaca</td>
<td>32,782</td>
</tr>
<tr>
<td>Outagamie</td>
<td>49,102</td>
</tr>
<tr>
<td><strong>Appleton</strong></td>
<td><strong>14,610</strong></td>
</tr>
</tbody>
</table>

### Central west counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>St Croix</td>
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<tr>
<td>Pierce</td>
<td>22,079</td>
</tr>
<tr>
<td>Dunn</td>
<td>25,260</td>
</tr>
<tr>
<td>Chippewa</td>
<td>32,103</td>
</tr>
<tr>
<td>Eau Claire</td>
<td>32,721</td>
</tr>
<tr>
<td><strong>Eau Claire (city)</strong></td>
<td><strong>18,310</strong></td>
</tr>
<tr>
<td>Pepin</td>
<td>7,577</td>
</tr>
<tr>
<td>Buffalo</td>
<td>16,006</td>
</tr>
<tr>
<td>Trempealeau</td>
<td>22,928</td>
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</table>

### Central counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jackson</td>
<td>17,075</td>
</tr>
<tr>
<td>Wood</td>
<td>30,583</td>
</tr>
<tr>
<td>Portage</td>
<td>30,945</td>
</tr>
<tr>
<td>Monroe</td>
<td>28,881</td>
</tr>
<tr>
<td>Juneau</td>
<td>19,569</td>
</tr>
<tr>
<td>Adams</td>
<td>8,604</td>
</tr>
<tr>
<td>Waushara</td>
<td>18,886</td>
</tr>
<tr>
<td>Marquette</td>
<td>10,741</td>
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<tr>
<td>Green Lake</td>
<td>15,491</td>
</tr>
</tbody>
</table>

### Central east counties

<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown</td>
<td>54,098</td>
</tr>
<tr>
<td><strong>Green Bay (city)</strong></td>
<td><strong>25,236</strong></td>
</tr>
<tr>
<td>Kewaunee</td>
<td>16,784</td>
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<tr>
<td>Door</td>
<td>18,711</td>
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<tr>
<td>Winnebago</td>
<td>62,116</td>
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<tr>
<td><strong>Oshkosh</strong></td>
<td><strong>33,062</strong></td>
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<tr>
<td>Calumet</td>
<td>16,701</td>
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<tr>
<td>Manitowoc</td>
<td>44,978</td>
</tr>
<tr>
<td><strong>Manitowoc (city)</strong></td>
<td><strong>13,027</strong></td>
</tr>
<tr>
<td>Fond du Lac</td>
<td>51,610</td>
</tr>
<tr>
<td><strong>Fond du Lac (city)</strong></td>
<td><strong>18,797</strong></td>
</tr>
<tr>
<td>Sheboygan</td>
<td>54,888</td>
</tr>
<tr>
<td><strong>Sheboygan (city)</strong></td>
<td><strong>26,398</strong></td>
</tr>
</tbody>
</table>
## Wisconsin

<table>
<thead>
<tr>
<th>Code</th>
<th>Region</th>
<th>City</th>
<th>Population 1910</th>
</tr>
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<tbody>
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<td>977.57</td>
<td>Southwest counties</td>
<td>La Crosse</td>
<td>43,996</td>
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<td></td>
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<td>30,417</td>
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<tr>
<td>.572</td>
<td></td>
<td>Vernon</td>
<td>28,116</td>
</tr>
<tr>
<td>.573</td>
<td></td>
<td>Crawford</td>
<td>16,288</td>
</tr>
<tr>
<td>.574</td>
<td></td>
<td>Richland</td>
<td>18,809</td>
</tr>
<tr>
<td>.575</td>
<td></td>
<td>Sauk</td>
<td>32,869</td>
</tr>
<tr>
<td>.576</td>
<td>Grant</td>
<td>39,007</td>
<td></td>
</tr>
<tr>
<td>.577</td>
<td>Iowa</td>
<td>22,497</td>
<td></td>
</tr>
<tr>
<td>.578</td>
<td>La Fayette</td>
<td>20,075</td>
<td></td>
</tr>
<tr>
<td>.579</td>
<td>Central south counties</td>
<td>Columbia</td>
<td>31,125</td>
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<tr>
<td>.581</td>
<td></td>
<td>Dodge</td>
<td>47,436</td>
</tr>
<tr>
<td>.582</td>
<td></td>
<td>Dane</td>
<td>77,435</td>
</tr>
<tr>
<td>.583</td>
<td>Madison</td>
<td>25,531</td>
<td></td>
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<tr>
<td>.584</td>
<td>Jefferson</td>
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<td></td>
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<tr>
<td>.585</td>
<td>Green</td>
<td>21,641</td>
<td></td>
</tr>
<tr>
<td>.586</td>
<td>Rock</td>
<td>55,538</td>
<td></td>
</tr>
<tr>
<td>.587</td>
<td>Janesville</td>
<td>13,894</td>
<td></td>
</tr>
<tr>
<td>.588</td>
<td>Beloit</td>
<td>15,125</td>
<td></td>
</tr>
<tr>
<td>.589</td>
<td>Walworth</td>
<td>29,614</td>
<td></td>
</tr>
<tr>
<td>.59</td>
<td>Southeast counties</td>
<td>Washington</td>
<td>23,784</td>
</tr>
<tr>
<td>.591</td>
<td></td>
<td>Ozaukee</td>
<td>17,123</td>
</tr>
<tr>
<td>.592</td>
<td></td>
<td>Waukesha</td>
<td>37,100</td>
</tr>
<tr>
<td>.593</td>
<td></td>
<td>Milwaukee</td>
<td>433,187</td>
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<tr>
<td>.594</td>
<td>Milwaukee (city)</td>
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</tr>
<tr>
<td>.595</td>
<td></td>
<td>Racine</td>
<td>57,424</td>
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<td>Racine (city)</td>
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<tr>
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<td></td>
<td>Kenosha</td>
<td>32,929</td>
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<td>.598</td>
<td>Kenosha (city)</td>
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</tr>
<tr>
<td>.599</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Minnesota

3 Mar. 1849, organized as territory from Northwest territory and Louisiana purchase.
11 May 1858, east part admitted as 32nd state; west part merged in Dakota territory 1861.
Population 2,075,708 in 1910. Area 80,858 sq. mi. 86 counties.

## Iowa

12 June 1838, organized as a territory.
28 Dec. 1846, admitted as 29th state. Area 56,025 sq. mi.
<table>
<thead>
<tr>
<th>County</th>
<th>Population 1910</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lyon</td>
<td>14,624</td>
</tr>
<tr>
<td>Osceola</td>
<td>8,956</td>
</tr>
<tr>
<td>Dickinson</td>
<td>8,137</td>
</tr>
<tr>
<td>Emmet</td>
<td>9,816</td>
</tr>
<tr>
<td>Sioux</td>
<td>25,248</td>
</tr>
<tr>
<td>O'Brien</td>
<td>17,262</td>
</tr>
<tr>
<td>Clay</td>
<td>12,766</td>
</tr>
<tr>
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### History: United States

**Iowa**

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### Missouri

7 Dec. 1812, organized as a territory 10 Aug. 1821, admitted as 24th state

Population 3,293,335 in 1910 114 counties and St. Louis


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| 5      | Holt               | 14 539          |
| .812   | Nodaway            | 28 833          |
| 6      | Andrew             | 15 282          |
| .813   | Buchanan           | 93 020          |
| .813   | St Joseph          | 77 403          |
| 5      | Platte             | 14 429          |
| .814   | Worth              | 8 007           |
| 5      | Gentry             | 16 820          |
| .815   | Dekalb             | 12 531          |
| 5      | Clinton            | 15 297          |
| .816   | Clay               | 20 302          |
| .817   | Harrison           | 20 466          |
| .818   | Daviess            | 17 605          |
| 5      | Caldwell           | 14 605          |
| .819   | Ray                | 21 451          |

### Northwest counties

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| 5      | Grundy             | 16 744          |
| .822   | Livingston         | 19 453          |
| 5      | Carroll            | 23 098          |
| .823   | Putnam             | 14 308          |
| 5      | Sullivan           | 18 598          |
| .824   | Linn               | 25 253          |
| .825   | Chariton           | 23 503          |
| .826   | Schuyler           | 9 062           |
| 4      | Adair              | 22 700          |
| .827   | Macon              | 30 868          |
| .828   | Randolph           | 26 182          |
| .828   | Moberly            | 10 923          |
| 5      | Howard             | 15 653          |
| .829   | Boone              | 30 533          |</p>
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DECIMAL CLASSIFICATION

978 Western or Mountain

Including general works on 'the West'

1 Kansas
1541 explored by Spanish
30 May 1854 organized as separate territory, after successively included in Louisiana and Missouri territories
20 Jan. 1861 admitted as 34th state
Area 81,774 sq. mi. Population 1,690,949 in 1910 195 counties
Sobriquet: Garden of the west  Capital: Topeka

2 Nebraska
30 May 1854 territory organized out of Missouri territory
1 Mar. 1867 admitted as 37th state
Area 76,808 sq. mi. Population 1,192,214 in 1910 92 counties
Sobriquet: Blackwater state   Capital: Lincoln

3 South Dakota   Including works on Dakota as a whole
2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 76,868 sq. mi. Population 583,885 in 1910 68 counties
Sobriquet: Coyote state   Capital: Pierre

4 North Dakota
2 Nov. 1889 admitted as 40th state (Dakota ter. organized 2 Mar. 1861, divided into North and South Dakota)
Area 70,183 sq. mi. Population 577,056 in 1910 52 counties
Sobriquet: Flickertail state   Capital: Bismarck

5 Montana
26 May 1864 territory organized. Name means Mountain land
8 Nov. 1889 admitted as 41st state
Area 146,201 sq. mi. Population 376,053 in 1910 28 counties
Sobriquet: Treasure state   Capital: Helena

6 Wyoming
25 July 1868 Wyoming territory organized
16 July 1890 admitted as 44th state
Area 97,594 sq. mi. Population 145,965 in 1910 15 counties
Sobriquet: Stub Toe state   Capital: Cheyenne

7 Colorado
28 Feb. 1861 Colorado territory organized
1 Aug. 1876 admitted as 38th state
Area 102,658 sq. mi. Population 799,024 in 1910 60 counties
Sobriquet: Centennial state   Capital: Denver

8 New Mexico
2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized; enlarged 1853 by Gadsden purchase
6 Jan. 1912 admitted as 47th state
Area 125,503 sq. mi. Population 327,301 in 1910 26 counties
Sobriquet: Santa Fé

979 Pacific

1 Arizona
2 Feb. 1848 ceded by Mexico, and enlarged by Gadsden purchase
24 Feb. 1863 territory organized
14 Feb. 1912 admitted as 48th state
Area 113,810 sq. mi. Population 204,354 in 1910 13 counties
Sobriquets: Valentine, Hassayampa state   Capital: Phoenix

2 Utah
2 Feb. 1848 ceded by Mexico
9 Sep. 1850 territory organized
4 Jan. 1896 admitted as 45th state
Area 82,184 sq. mi. Population 373,351 in 1910 27 counties
Sobriquet: Salt Lake state   Capital: Salt Lake City

3 Nevada
2 Mar. 1861 territory organized
31 Oct. 1864 admitted as 36th state
Area 109,821 sq. mi. Population 81,875 in 1910 15 counties
Sobriquet: Carson
**California**

Admitted 9 Sep. 1850, as 31st state  
Area 155,652 sq. mi.  
Population 2,377,549 in 1910  
58 counties  
Sobriquet: Golden state  
Capital: Sacramento

**Northern or Superior California**

Use 970.41 as a general number, including 41-43

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<tr>
<td>Napa</td>
<td>19,800</td>
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**Northeast counties**

<table>
<thead>
<tr>
<th>Counties</th>
<th>Population in 1910</th>
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<tbody>
<tr>
<td>Siskiyou</td>
<td>18,801</td>
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<tr>
<td>Modoc</td>
<td>6,191</td>
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<tr>
<td>Shasta</td>
<td>18,920</td>
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<td>Lassen</td>
<td>4,802</td>
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<tr>
<td>Tehama</td>
<td>11,401</td>
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<tr>
<td>Plumas</td>
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**North central counties**

<table>
<thead>
<tr>
<th>Counties</th>
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<tr>
<td>Glenn</td>
<td>7,172</td>
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<tr>
<td>Butte</td>
<td>27,301</td>
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<tr>
<td>Colusa</td>
<td>7,732</td>
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<tr>
<td>Sutter</td>
<td>6,328</td>
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<tr>
<td>Yuba</td>
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<tr>
<td>Sierra</td>
<td>4,098</td>
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<td>Nevada</td>
<td>14,955</td>
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<tr>
<td>Placer</td>
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**Central California**

Use 979.44 as a general number, including 44-48

**East central counties**

<table>
<thead>
<tr>
<th>Counties</th>
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<tbody>
<tr>
<td>El Dorado</td>
<td>7,492</td>
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<tr>
<td>Amador</td>
<td>9,086</td>
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<tr>
<td>Alpine</td>
<td>309</td>
</tr>
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<td>Calaveras</td>
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<td>Tuolumne</td>
<td>9,979</td>
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<td>Mariposa</td>
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<tr>
<td>Yosemite</td>
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<tr>
<td>Mono</td>
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**Central counties**

<table>
<thead>
<tr>
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<th>Population in 1910</th>
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<tr>
<td>Yolo</td>
<td>13,926</td>
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<td>Solano</td>
<td>27,559</td>
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<td>Sacramento</td>
<td>67,806</td>
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<tr>
<td><strong>Sacramento (city)</strong></td>
<td>44,696</td>
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<tr>
<td>San Joaquin</td>
<td>50,731</td>
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<tr>
<td><strong>Stockton</strong></td>
<td>23,253</td>
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<td>Stanislaus</td>
<td>22,522</td>
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<tr>
<td>Merced</td>
<td>15,148</td>
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<td>Decimal Classification</td>
<td>County or City</td>
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<td>------------------------</td>
<td>-------------------------</td>
</tr>
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<td>979.46</td>
<td>West central counties</td>
</tr>
<tr>
<td>461</td>
<td>San Francisco co. and city</td>
</tr>
<tr>
<td>462</td>
<td>Marin</td>
</tr>
<tr>
<td>463</td>
<td>Contra Costa</td>
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<tr>
<td>465</td>
<td>Alameda</td>
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<tr>
<td>466</td>
<td>Oakland</td>
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<tr>
<td>467</td>
<td>Berkeley</td>
</tr>
<tr>
<td>469</td>
<td>San Mateo</td>
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<tr>
<td>47</td>
<td>Coast range counties, south</td>
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<tr>
<td>471</td>
<td>Santa Cruz</td>
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<tr>
<td>473</td>
<td>Santa Clara</td>
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<td>474</td>
<td>San José</td>
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<td>San Benito</td>
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<td>476</td>
<td>Monterey</td>
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<td>478</td>
<td>San Luis Obispo</td>
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<td>48</td>
<td>South central counties</td>
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<tr>
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<td>Madera</td>
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<td>482</td>
<td>Fresno</td>
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<td>483</td>
<td>Fresno (city)</td>
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<td>Tulare</td>
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<td>488</td>
<td>Kern</td>
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<td>49</td>
<td>Southern California</td>
</tr>
<tr>
<td>491</td>
<td>Santa Barbara</td>
</tr>
<tr>
<td></td>
<td>Islands: San Miguel, Santa Rosa, Santa Cruz, Santa Barbara</td>
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<tr>
<td>492</td>
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<td></td>
<td>Islands: Anacapa, San Nicholas</td>
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<tr>
<td>493</td>
<td>Los Angeles</td>
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<td>Islands: Santa Catalina, San Clemente</td>
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<tr>
<td>494</td>
<td>Los Angeles (city)</td>
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<tr>
<td>495</td>
<td>San Bernardino</td>
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<td>496</td>
<td>Orange</td>
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<td>497</td>
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<td>498</td>
<td>San Diego</td>
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<td></td>
<td>San Diego (city)</td>
</tr>
<tr>
<td>499</td>
<td>Imperial</td>
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</tbody>
</table>
979.5 Pacific States

Oregon
14 Aug. 1848 territory organized  14 Feb. 1859 admitted as 33d state
Area 96,607 sq. mi.  Population 672,765 in 1910  34 counties
Sobriquet: Beaver state  Capital: Salem

Idaho
3 Mar. 1863 territory organized.  Part of Louisiana purchase.  First
included in Oregon, later in Washington territory
3 July 1890 admitted as 43d state
Area 83,354 sq. mi.  Population 325,594 in 1910  23 counties
Sobriquet: Gem state  Capital: Boise

Washington
2 Mar. 1853 territory organized; earlier, part of Oregon territory
11 Nov. 1889 admitted as 42d state
Area 66,836 sq. mi.  Population 1,141,990 in 1910  38 counties
Sobriquet: Evergreen state  Capital: Olympia

Alaska
30 Mar. 1867 ceded by Russia  24 Aug. 1912 organized as territory
Area 590,884 sq. mi.  Population 64,356 in 1910  Capital: Sitka
<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>982</td>
<td>Argentina</td>
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<tr>
<td>983</td>
<td>Patagonia</td>
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<tr>
<td>984</td>
<td>Chile</td>
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<td>985</td>
<td>Bolivia</td>
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<td>986</td>
<td>Peru</td>
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<tr>
<td>987</td>
<td>U. S. of Colombia</td>
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<tr>
<td>988</td>
<td>Panama</td>
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<td>New Granada</td>
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<td>995</td>
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<tr>
<td>996</td>
<td>Polar regions</td>
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<tr>
<td>999</td>
<td>Isolated islands</td>
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<tr>
<td>999</td>
<td>Arctic regions</td>
</tr>
<tr>
<td></td>
<td>Antarctic regions</td>
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</tbody>
</table>

### Detailed List:

- **980 South America**
  - 981 Brazil
  - 982 Argentina, Patagonia
  - 983 Chile
  - 984 Bolivia
  - 985 Peru
  - 986 U. S. of Colombia, Panama, New Granada, Ecuador
  - 987 Venezuela
  - 988 Guiana
  - 989 Paraguay, Uruguay

- **990 Oceanica Polar regions**
  - 991 Malaysia
    - .1 Borneo
    - .2 Celebes
    - .3 Moluccas or Spice islands
    - .4 Philippine islands
  - 992 Sunda
    - .1 Sumatra
    - .2 Java
  - 993 Australasia
    - .1 New Zealand
    - .2 New Caledonia
    - .3 Loyalty islands
    - .4 New Hebrides
    - .5 Solomon islands
    - .6 New Britain, New Ireland
    - .7 Admiralty islands
  - 994 Australia
    - .1 Western Australia
    - .2 South Australia
    - .3 Queensland
    - .4 New South Wales
    - .5 Victoria
    - .6 Tasmania
  - 995 New Guinea
  - 996 Polynesia
    - .1 Fiji, Friendly and Navigator islands
    - .2 Society, Austral and Cook's islands
    - .3 Marquesas islands and Low Archipelago
    - .4 Minor Polynesian islands
    - .5 Micronesia
    - .6 Caroline and Pelew islands
    - .7 Ladrone islands
    - .8 Marshall and Gilbert islands
    - .9 Hawaii

- **997 Isolated islands**
- **998 Arctic regions**
  - General number for Polar regions
- **999 Antarctic regions**
RELATIV SUBJECT INDEX
**INDEX ABBREVIATIONS**

Cutter forename abbreviations  Most common forenames of men are denoted by initial and colon; of women by initial and double period.

<table>
<thead>
<tr>
<th>Initial(s)</th>
<th>Forename(s)</th>
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Other abbreviations exclisiv of common geographic abbreviations and others selfexplanatory; e. g. those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

<table>
<thead>
<tr>
<th>Abbreviation</th>
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<tr>
<td>Eccles.</td>
<td>ecclesiastic</td>
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</table>
| Econ.        | economic-
| Elec.        | electric-
| Eng.         | engineering|
| Eth.         | ethical, ethics|
| Exp.         | expedition|
| Fest.        | festival|
| Fic. or      | fiction|
| Gov. or      | government|
| Histol.      | histology|
| Hist.        | historic-
| Hum.         | humor|
| Hyg.         | hygiene|
| Instr.       | instrument|
| Lang.        | language|
| Lib.         | library-
| Lig.         | ligament|
| Lit.         | literature|
| Loc.         | local-
| Mach.        | machine-
| Manuf.       | manufactures|
| Mech.        | mechanic|
| Ment.        | mental|
| Meth.        | methods|
| Mfg          | manufacturing|
| Mil.         | military|
| Min.         | mineral|
| Min.         | mining|
| Misc.        | miscellany|
| Mon.         | monastic|
| Nat.         | natural, nature|
| Nonchr.      | nonchristian|
| Ord.         | order, orders|
| Ordn.        | ordnance|
| Org.         | organ -ic|
| Orig.        | origin-
| Phil.        | philosopher-
| Philo.       | philosophy|
| Phot.        | photographic-
| Phys.        | physical|
| Physiol.     | physiologic-
| Poet.        | poetry|
| Pol. or      | political or|
| Polit.       | politics|
| Prac.        | practical|
| Pres.        | presidency|
| Pres.        | president|
| Prob.        | probabilities|
| Prot.        | protection|
| Psych.       | psychologic-
| Pub.         | public|
| Reg.         | region|
| Relig.       | religion, -ous|
| Rit.         | ritual|
| Sat.         | satire|
| Sci.         | science, -tific|
| Serm.        | sermons|
| Soc.         | social, society|
| Stat.        | statutes|
| Subj.        | subject|
| Tech.        | technology|
| Theol.       | theologic-
| Theor.       | theoretic|
| Therap.      | therapeutics|
| Wks          | works|
HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i.e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e.g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 33c, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.
in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

**IT DOES NOT INCLUDE**

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives *no names of persons* as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.
Relativ Subject Index

A B C telegraf elec. eng. 621.38222
A L A publishing board 020.627
A là carte table system 642.53
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Abacus arithmetic 511.2
Abandoned children, see Dependents
Abattoirs
architecture 725.28
public helth 614.741
sanitary engineering 628.549
Abbassides history 956
Abbéville, treaty inter. law 341.2
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nerv anatomy 611.8316
eye 612.8466
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digitl quinti brevis 611.73776
hallucis 611.7389
of thumb, long 611.73767
short 611.73773
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Abelard medieval philos. 189.4
Abelian functions 517.36
Aberdeen, Scot. history 941.25
travels 914.125
Angus cattle 636.2231
Aberration
astronomy corrections 522.94
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mental disease 616.8
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Topics in black face type are subdivided. Superior figures refer to the tables at the end of this index.
# INDEX TABLES

**Table 1 — Geografic Divisions**

The following subjects may all be divided geografically by adding the geografic numbers: i.e., Europe; Asia; Africa; North America; South America; Oceania. These can be farther subdivided as minutely as wishd, like the history, 910–999, which see for full table; e.g., England; United States; New South Wales; New York City, etc.

The geografic numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below: e.g. Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942. Mints in England. Colleges are 378; N. Y. state, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. state.

A number of unimportant topics, e.g. minor religious sects, which may be divided geografically, are omitted from this table.

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Table 2 — Form Divisions

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygrafy, Collectiv works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alfabetic list of these divisions, and the figures prefixt should be added to the number of the subject to be subdivided; e.g., Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

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Table 3 — Languages

The table below includes all languages mentioned in the classification, except those in 491—499, not yet subdivided.

Any language in this table may be subdivided like 420, English.

Any philologic topic in the index may be transferd to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e.g., Syntax, English language, in the index is 445.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to subdivide the language is to prefix the language figures as given in this table to the philologic numbers given in Table 4.

All three methods give the same result.

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### Table 4. — Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e.g.:

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| Modern Greek verbs. | 489.68 |
| Danish. | 430.868 |
| Armenian. | 491.515 |
| Inflection of English nouns. | 445.15 |
| Anglo-Saxon nouns. | 429.515 |
| Hebrew. | 492.4515 |
| Welsh. | 491.6625 |

<p>| 2 | Derivation of words. |
| 7 | Dialects. |
| 3 | Dictionaries. |
| 25 | Diminutives, derivation. |
| 12 | Diphthongs. |
| 17 | Diplomatics. |
| 701 | Early forms of language. |
| 86 | Elementary readers. |
| 53 | Ellipsis. |
| 52 | Enallage. |
| 83 | Errors of speech. |
| 2 | Etymology, derivation. |
| 51 | Inflection. |
| 89 | Examination papers. |
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| 25 | Genitive case, etymology. |
| 55 | &quot; syntax. |
| 7 | Glossaries, dialects. |
| 3 | &quot; language. |
| 83 | Grammatical errors. |
| 65 | Hexameters. |
| 64 | Hiatus. |
| 54 | Hypothetical sentences. |
| 31 | Idioms. |
| 88 | Individual authors, texts. |
| 28 | Infinitive mood, etymology |
| 58 | &quot; syntax. |
| 51 | Inflection. |
| 516 | &quot; of adjectives. |
| 515 | &quot; nouns. |
| 517 | &quot; pronouns. |
| 518 | &quot; verbs. |
| 17 | Inscriptions. |
| 29 | Interjections, etymology. |
| 59 | &quot; syntax. |
| 29 | Interrogatives, etymology |
| 59 | &quot; syntax. |
| 21 | Laws of language. |
| 1 | Letters, alphabet. |</p>
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**Table 5. — Literatures.**

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellaneous; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e.g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 83 Anglo-Saxon is much more convenient.

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<td>891.63</td>
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Biscoe time and Olin biografiy book numbers

Biscoe time numbers This scheme provides for arranging books by years from 1000 B C–2000 A D. Each number consists of a single initial letter followed by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book publisht in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followed by 3 figures; thus a book issued in 1472 would be numberd C472.

**Table of Biscoe numbers**

<table>
<thead>
<tr>
<th>Letter</th>
<th>Initial Year</th>
<th>Final Year</th>
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<tbody>
<tr>
<td>A</td>
<td>B.C. 1830-1839</td>
<td>S 1920-1929</td>
</tr>
<tr>
<td>B</td>
<td>A.D. 1-999</td>
<td>T 1930-1939</td>
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<tr>
<td>C</td>
<td>1000-1499</td>
<td>U 1940-1949</td>
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<td>D</td>
<td>1500-1599</td>
<td>V 1950-1959</td>
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<td>E</td>
<td>1600-1699</td>
<td>W 1960-1969</td>
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<td>F</td>
<td>1700-1799</td>
<td>X 1970-1979</td>
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<td>H</td>
<td>1810-1819</td>
<td>Z 1990-1999</td>
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<tr>
<td>I</td>
<td>1820-1829</td>
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</tbody>
</table>

American books take their numbers from the last copyright date; English and other foren books, from date of publication: e. g. Dana’s *Text book of geology*, Phil. 1864, copyright '63 has as its booknumber M3; edition 2 of the same book publisht and copyrighted in 1874 is N4. Weller’s *Portable atlas of physical geography*, London 1873, is N3.

A series or set takes its number from the first volume, even tho that may be lacking in the library set; e. g. *Popular science monthly*, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e. g. Bradbury & Emery’s *Academic algebra*, Sensenig’s *Numbers universalized*, and Well’s *Short course in higher algebra* all publisht in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Sensenig, O9b. In a closely clast library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in dout, an approximate date may be used and corrected later when full information is acquired. Hunting down obscure dates consumes a
great deal of time and in the average library is not worth what it costs. L alone would mean a book published somewhere in the '50s of the present century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1. Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determine and the number of books in any subject in a single decade small.

Alternatives are:

2. Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.

3. Use actual B. C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

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<tr>
<th>Year B. C.</th>
<th>Complementary decade (1)</th>
<th>Complementary year (2)</th>
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<td>A955</td>
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</table>

Olin book numbers The best means of separating collective from individual biography is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into A followed immediately by figures, they precede the first Cutter number, Aar and thus automatically shelve biographic compilations before the cutterd individual lives; e.g. Strickland's *Queens of England* would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether clast 920 or 923.1.

See next page for table.
### Table of Olin numbers

From *Library journal* 18:144

<table>
<thead>
<tr>
<th>Name</th>
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<th>Name</th>
<th>Number</th>
<th>Name</th>
<th>Number</th>
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<tbody>
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<td>Forr</td>
<td>A34</td>
<td>Lod</td>
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<td>Ges</td>
<td>A36</td>
<td>McT</td>
<td>A58</td>
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</table>

If Cutter-Sanborn tables (in which vowels like consonants are followed by figures) are used, mark collected biography with A followed by a shortened Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case letter; e.g. Strickland’s *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being S917, would be marked As9 or Johnston’s *Leading American soldiers*, the number for Johnston being J73, would be Aj7.
Tatoes: differentiated by the dash and numeral and then by initial genus or comp., if necessary.

see Mrs. Coldrens' Special Scheme.