

LCSH subdivision classification and notation

Gary L. Strawn
Authorities Librarian, etc.
Northwestern University Library
mrsmith@nwu.edu

Introduction

The *Subject cataloging manual: subject headings* describes the type of headings under which each of the approximately 3,000 LCSH subdivisions may be used. These instructions can be extracted, sorted and arranged into a hierarchy or "classification" of mutually-exclusive categories recognized in the construction of LCSH strings.

A notation can be assigned to these categories. If this notation is in turn assigned to the authority records for headings and subdivisions, it can be used to evaluate the suitability of a particular heading/subdivision combination. If the classification and notation are constructed with care, then a computer program should in most cases be able to use this information to perform the validation of LCSH strings without human intervention.

The following is one attempt to classify the categories specified in SCM:SH, and to develop a flexible and hierarchical notation that will allow for the automated validation of LCSH strings. (This is based on, but vastly different from, the scheme I devised in or before 1987 for use in a PC program that demonstrated the possibility of a "coding" approach to subject string verification.) I have no doubt that others, better versed than I in the classification of information, and the construction of notations, can come up with something more comprehensive and flexible which would nonetheless achieve the same end.

The classification

I identified the categories latent in LCSH by reading sections H1095 to H1200 of SCM:SH. (These sections deal with the use of subdivisions.) I conflated categories called by different names by which represented, or seemed to represent, the same topic (e.g.: "religious topics" and "theological topics"; "types of animals" and "groups of animals"; "machines" and "machinery"), and shuffled the resulting categories about until reasonable groupings appeared.

The first-level grouping of the categories is perhaps the most obvious: the broadest categories represent headings assigned different MARC tags.¹ Within each of these five very broad groups, the categories are arranged into whatever pattern seemed most appropriate. It is important to keep in mind that this classification is based on the actual categories enumerated in LCSH, and does not proceed from any abstract principles. There is every intent to produce a set of categories amenable to automated manipulation, but there was no attempt to impose any kind of *a priori* taxonomic scheme or principles. I don't see the need to come up with an arrangement of all possible types of information, but rather only those in use. (We don't need to have a slot in our classification scheme for bicycle seats if we never get more specific than "wheeled vehicles.")

¹ For example, individual persons are assigned the "X00" tag group; individual corporate bodies are assigned the "X10" tag group. At a few points, clarity is better served by making exception to this general organizing principle, and including items with different tags in a single group. Therefore, deities, divine persons, etc. are included in group 1, because these "topcal" persons may receive the same set of subdivisions as "personal" persons.

In arranging several of the major categories, certain sub-categories resisted placement, because they seemed to apply to other sub-categories.² Also, a distinction is frequently made in SCM:SH between topical headings for “individual” members of a category, and headings for “groups” of items in a category (although it is not always clear what is meant by this distinction). I didn’t include these cross-category “aspects” (I hesitate to call them “facets”) in the regular classification, but made them into a separate group. The notation that corresponds to each of these “aspects” could be appended to the notation for any of the categories in the group; if multiple aspects apply to a heading, then multiple aspect codes should be used. I regard the definition of “aspects” outside the regular classification scheme as unfortunate but necessary; perhaps someone else can come up with another way to do this.

Content designation

The *USMARC authority format* provides two fields appropriate for subject category information of the type described here: field 072 for established headings (a repeatable field), and field 073 for subdivisions (which is not repeatable, although subfield \$a is repeatable). These fields were originally defined to contain MeSH subject category information, and seem tailored to the needs of MeSH to the exclusion of other subject heading systems. (It may be that NLM has ended up not using the fields exactly as defined.) In particular, it appears that MeSH requires more detail for main headings than for subdivisions, while the reverse appears to be true for LCSH. I think that for the coding of main headings, the 072 field may be adequate (this will depend largely on the notation used). However, the coding required for subdivisions is far too complex to fit into the simple repeatable subfield \$a allowed by MARC. With a notation similar to that proposed here, we would need to redefine the 073 field as follows.

073 Subdivision Usage (R)

Indicators

Undefined

Subfield codes

- |a Included subject category (NR)
- |b Excluded subject category (R)
- |g Category into which the use of this subdivision places the heading (NR)
- |h SCM:SH section³ (R)
- |i Indirect subdivision practice⁴ (NR)
- |v Verification version of heading⁵ (NR)
- |x Excluded heading information (R)
- |y Included heading information (R)
- |z Source (NR)

The subject category notation

The subject category notation used here for demonstration purposes reflects in coded form the placement of a category within the hierarchy of categories. The subject category notation contains one or more

² For example, individual persons in any field of activity might have been born before or after 1400; many different topics might be considered “merchandise.”

³ This is just the identifier for the section, without any text (e.g.: “H1095”). This subfield is purely for display and link to the full text; no automatic manipulation will be based on the contents of this subfield.

⁴ This is used when use of geographic subdivision varies with the type of heading. (For example, the subdivision “—Accreditation” is subdivided indirectly under headings for types of schools, but not under individual corporate bodies.)

⁵ This subfield attempts to specify the construction method for subdivisions which may be constructed on an *ad hoc* basis. The exact formulation of this subfield will be determined as coding of subdivisions proceeds. Here are possible examples:

- |v Siege, <year>
- |v Contributions in <topic>
- |v <national adjective> influences

segments, each separated from its neighbors by a comma; there is one segment in the notation for each level of indentation of the category within the hierarchy.

The category notation is entirely numeric. Within any segment, the notation is exclusive, and non-hierarchical. For the purposes of arrangement, the notation at any level may be assumed to be padded on the right with as many significant zeroes as are needed to make all notations at that level contain the same number of digits. (For example, the notation “62” would be used for a category that comes after a category with the notation “6” [which may be regarded as “60”]; however, the difference in the length of the notation implies no subordination of one category to the other.)

The notation for any subject category is assigned both to the subdivisions which are assigned to headings in that category, and for established headings in that category.

Included and excluded heading information

Subfields |y and |x may be used to specify the MARC tags, indicators, and subfield codes (and, where appropriate, the actual contents of subfields) which are required or forbidden for the members of a category.⁶

The basic notation is:

tag group(indicators)/subfield codes and subfield texts

- Give the tag group as “X” followed by the second and third digits of the tag: X00, X10, X51, etc.
- Give the indicators (which are only relevant for personal names) as one or more numerals within parentheses:
(012)
(3)
- Precede each subfield code with a slash:
/a/x/y
/y
If the text of a subfield must be specified, include it immediately after the subfield code:
/aUnited States
/a/xHistory/y

Each of the categories specified below (for example, “individual corporate bodies”) implies that only headings bearing certain MARC tags will be considered for inclusion--in other words, each of the categories carries with it implied subfields |y and |x. These implied subfields are specified in the notes for each category. The “missing” information will be generated automatically from the category codes.

Category into which the use of this subdivision places the heading

It happens in some circumstances that the addition of a subdivision to a heading of a particular type places the heading into a new category. For example, the addition of the subdivision “Officials and employees” to the heading “France” changes the category of the heading from “individual jurisdiction at the country

⁶ The tag and indicator portions of this information will be used principally during the initial (party automatic) assignment of categories to main headings. The subfield code and subfield content portion will have continuing value in the assessment of new headings.

level” to “occupational class of persons;” an additional subdivision may be added to this heading from those allowed under occupational classes of persons. The notation for the category into which the addition of a subdivision places a heading is given in subfield |g:

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073 |a 5,1,2,1,1 |g 4,74,2,2,5,3 |y X51  
180 |x Officials and employees
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The classification and its notation

|a * All subjects⁷

Group 1: personal names

flagged aspects:

/b flourishing before 1400

/a flourishing after 1400

a 1	individual persons ⁸
a 1,3 y t=X50	fictional characters (1095 --Collectibles, 1095 --Legends)
a 1,4 y t=X50	legendary persons/figures (1095 --Art)
a 1,5	literary authors (1155.4)
a 1,5,3	drama (1155.4 --Dramatic works)
a 1,5,3,2	comedy (1155.4 --Comedies)
a 1,5,3,7	tragedy (1155.4 --Tragedies)
a 1,5,3,8	tragicomedy (1155.4 --Tragicomedies)
a 1,5,5	poetry (1155.4 --Poetic works)
a 1,5,6	prose (1155.4 --Prose)
a 1,5,6,3	fiction (1155.4 --Fictional works)
a 1,6	non-literary (1110)
a 1,6,3	general "occupational" categories
a 1,6,3,3	divine persons, saints ... (1095 --Cult; 1110 --Cult)
a 1,6,3,3,3 ⁹	deities and other persons worshipped (1095 --Art; 1095 --Prophecies; 1095 --Cult)
a 1,6,3,6	philosophers (1110 --Philosophy)
a 1,6,3,7	theologians (1110--Religion)
a 1,6,6	persons in the arts (1110 --Appreciation)
a 1,6,6,2	creators of adaptable "objects" (1110 --Adaptations)
a 1,6,6,2,2	composers (1110 --Harmony)
a 1,6,6,2,8	visual artists, craftspersons (1110 --Catalogs)
a 1,6,6,6	performing artists (1110 --Performances)
a 1,3 y t=X00(3) x /t	individual families ¹⁰ (1095 --Tombs; 1120)
a 1 y t=X00(012)/t	works entered under personal name/title heading (1155.6)

Group 2: corporate names

a 2	individual corporate bodies (1105) ¹¹
a 2,4	governmental agencies (1105 --Officials and employees) ¹²
a 2,4,4	legislative bodies (1155) ¹³

⁷ The asterisk (*) in subfield |a means that a subdivision may be applied to all headings regardless of category.

⁸ Assumed under each, to specify these headings as "individual personal names which are not part of name/title headings," unless provided otherwise: |y t=X00(012) |x /t

⁹ With the following |y subfields, not show in the table for lack of room: |y t=X00(012) |x /t |y t=X50.

¹⁰ Includes dynasties, royal houses, etc. (1095 --Tombs)

¹¹ Assumed under each, to specify these headings as "individual corporate names which are not part of name/title headings," unless provided otherwise: |y t=X10 |x /t. This category does not include headings jurisdiction which stand alone; see "places."

¹² Including international agencies, and quasi-governmental agencies.

a 2,4,4,4	international (1095 --Privileges and immunities)
a 2,4,5	military services (1159)
a 2,4,5,2	Air forces (1159 --Air police)
a 2,4,5,3	Armies (1159 --Cavalry)
a 2,4,5,5	Navies (1159 --Commissariat)
a 2,4,5,6	Non-military operating "agencies" (1159, note 11)
a 2,5	nongovernmental, non-religious agencies and institutions (1105 in general; 1105 -- Employees)
a 2,5,3	educational institutions (1151)
a 2,5,4	exhibitions (1095 --Buildings)
a 2,5,6	political parties (1105 --Platforms)
a 2,5,7	secret societies (1105 --Rituals)
a 2,7	religious institutions
a 2,7,7	religions (1185) ¹⁴
a 2,7,7,3	Christian denominations (1187)
a 2,7,8	religious and monastic organizations (1186)

Group 3: uniform title headings

a 3	works entered under uniform title heading ¹⁵
a 3,4	general (1155.8)
a 3,7	sacred (1188)
a 3,7,2	Bible and its parts (1188 --Relation to Mathew, [Jeremiah, etc.])
a 3,7,2,5	New Testament and its parts (1188 --Relation to the Old Testament)
a 3,7,2,6	Old Testament and its parts (1188 --Quotations in rabbinical literature)

Group 4: topical headings

flagged aspects:

/in	individual
/gr	group
/ar	architectural headings (1095 --Designs and plans)
/co	commodities (types of: 1095 --Marketing; individual: 1095 -- Grading)
/et	ethical topics (1095 --Moral and ethical aspects)
/go	government headings (1095 --Government policy)
/hi	historical topics (1095 --Sources)
/id	industrial products (types of: 1095 --Storage)
/in	instruments (types of: 1095 --Testing)
/le	legal headings (1095 --Popular works; 1154.5)
/li	library materials (types of: 1095 --Conservation and restoration)

¹³ H1155 authorizes special subdivisions for U.S. Congress (1155 --Dissolution), as well as the House (1155 --Speaker) and Senate (1155 --Presiding officer); these are identified using subfield |y:

|a 2,3,1 |y /aUnited States/bCongress

|a 2,3,1 |y /aUnited States/bCongress/bHouse

|a 2,3,1 |y /aUnited States/bCongress/bSenate

¹⁴ For religions tagged 150, see under "topics"

¹⁵ Assumed under each, to specify these headings as "individual works entered under title," unless provided otherwise: |y t=X30.

/ma mass media headings (1095 --Reviews)
 /me merchandise (types of: 1095 --Inspection)
 /ob objects (types of: 1095 --Catalogs)
 /obna natural objects (types of: 1095 --Catalogs and collections;
 individual: 1095 --Drying)
 /obnape pests (1095 --Control)
 /obnapl plants¹⁶ (1180; 1095 --Control,¹⁷ 1095 --Nomenclature¹⁸;
 groups of: 1095 --Identification; individual: 1095 -
 -Inspection)
 /obnn non-natural objects (types of: 1095 --Collectors and
 collecting; individual: 1095 --Drying)
 /bnnma requiring maintenance and repair (types of: 1095 --
 Maintenance and repair)
 /obnnre requiring repair but not maintenance (types of: 1095 --
 Repairing)
 /pa patentable articles and processes (1095 --Patents)
 /pe performing arts headings (1095 --Reviews)
 /ph philosophical topics (1095 --Controversial literature)
 /po political topics (1095 --Political aspects)
 /pr products (types of: 1095 --Certification; individual: 1095 --
 Drying)
 /prpe perishable products (1095 --Preservation)
 /pp property (types of: 1095 --Valuation)
 /re religious topics¹⁹ (1189; 1095 --Controversial literature; 1095 --
 --Psychological aspects; 1095 --Psychology; 1095 --
 Moral and ethical aspects)
 /reli liturgy headings (1095 --Texts)
 /sc scientific and technical topics²⁰ (1095 --Atlases, 1095 --
 Popular works)
 /scsc scientific topics (1095 --Observations; 1095 --Observer's
 manuals)
 /scte technical topics (1095 --Drawings)
 /si situations to be avoided (1095 --Prevention)

|a 4,11 ability (types of: 1095 --Testing)
 |a 4,22 animals (1147; types of:²¹ 1095 --Nomenclature; individual: 1095 --Biography)
 |a 4,22,3 domestic animals²² (1095 --Equipment and supplies; types of: 1095 --Inspection,
 1095 --Name; individual: 1095 --Inspection)
 |a 4,24 art forms (1095 --Influence; individual: 1095 --Themes, motives)
 |a 4,242 art objects (types of: 1095 --Conservation and restoration)
 |a 4,243 art movements (1095 --Influence)
 |a 4,42 computers (types of: 1095 --Programming; individual: 1095 --Programming)
 |a 4,43 documents (types of: 1095 --Facsimiles)
 |a 4,43,6 publications²³ (types of: 1095 --Abstracts, 1095 --Illustrations, 1095 --Publishing)
 |a 4,43,6,3 books/non-books (1095 --Reviews)

¹⁶ Placed here because plants are not necessarily food.

¹⁷ Uncertain whether this is individual or group; cf. 1095 --Industrial applications.

¹⁸ This appears to be for groups of plants, but the statement in 1095 is ambiguous.

¹⁹ Assumed to be the same as "theological topics" (1189)

²⁰ Also called "scientific and technical headings"

²¹ Equivalent (?) to "groups of animals" (1095 --Identification)

²² Query has been sent to LC about the need for this category.

²³ Assumed to be the same as "types of published materials" (1095 --Publishing)

a 4,43,6,6	periodicals (types of: 1095 --Abbreviations of titles)
a 4,43,6,6,5	newspapers (types of: 1095 --Language)
a 4,43,6,7	printed materials ²⁴ (types of: 1095 --Facsimiles, 1095 --Specimens)
a 4,44	education (types of: 1095 --Curricula)
a 4,46	elementary particles (individual: 1095 --Stability)
a 4,47	equipment (types of: 1095 --Materials)
a 4,47,7	scientific equipment (1095 --Calibration)
a 4,47,8	technical equipment ²⁵ (1095 --Automatic control)
a 4,49	events ²⁶ (individual: 1095 --Collectibles, 1095 --Personal narratives; types of: 1095 --Names)
a 4,49,4	historic events (individual: 1095 --Anniversaries, etc.)
a 4,49,4,8	wars: 1120 ²⁷
a 4,49,5	historic and social movements (individual: 1095 --Anniversaries, etc.)
a 4,51	examinations ²⁸ (individual and types of: 1095 --Design and construction)
a 4,53	facilities (types of: 1095 --Energy conservation)
a 4,53,3	constructions (types of: 1095 --Air conditioning, 1095 --Heating and ventilation, 1095 --Materials, 1095 --Specifications)
a 4,53,3,4	engineering structures ²⁹ (types of: 1095 --Inspection)
a 4,53,3,4,2	architecture (types of: 1095 --Conservation and restoration)
a 4,53,3,4,2,2	buildings (types of: 1095 --Air conditioning)
a 4,53,3,4,2,2,5	with non-recreational functions (types of: 1095 --Recreational use)
a 4,53,3,4,2,2,5,4	factories (1095 --Automation)
a 4,53,3,4,2,2,5,5	industrial plants (types of: 1095 --Dust control)
a 4,53,3,4,2,7	rooms (1095 --Lighting, 1095 --Remodeling)
a 4,532	fields of endeavor (1095 --Vocational guidance)
a 4,533	fields of study (1095 --Scholarships, fellowships, etc.)
a 4,533,3	disciplines (1095 --Authorship)
a 4,533,3,7	scientific and technical disciplines (1095 --Instruments)
a 4,533,3,7,5	medical disciplines (1095 --Popular works)
a 4,534	film forms (1095 --History and criticism)
a 4,535	foods (types of: 1095 --Storage)
a 4,535,3	crops (1180; 1095 --Control)
a 4,535,3,4	farm produce ³⁰ (types of: 1095 --Moisture)
a 4,63	land (types of: 1095 --Recreational use)
a 4,632	landscape headings (1095 --Designs and plans)
a 4,633	languages (individual and group: 1154)
a 4,633,2	ancient (1154 --Metrics and rhythmic)
a 4,633,2,7	semitic (1154 --Vocalization)
a 4,633,3	artificial (individual: 1154 --Textbooks for English, French, etc.] speakers)
a 4,633,5	modern (1154 --Rhythm)
a 4,633,5,7	semitic (1154 --Vocalization)
a 4,634	law (systems of: 1095 --Sources)
a 4,635	literatures and literary forms/genres (1156; types of: 1095 --Sources)
a 4,635,5	literary forms/genres (1095 --Authorship, 1095 --Technique; individual: 1095 --Concordances)
a 4,635,5,2	American (1156 --Black authors)

²⁴ Assumed to be the same as "printed matter" (1095 --Specimens)

²⁵ Assumed to be the same as "technical devices used to further scientific advancement" (1095 --Scientific applications)

²⁶ Uncertain whether this is same as "historic events," or something separate.

²⁷ Subdivisions defined for use under headings for wars are marked with the following 073 field, which is omitted in the table for lack of room: |a 4,e8,1,1 |y t=X50 |y t=X51/a/xHistory/y.

²⁸ Assumed to be the same as "tests" (individual and types of: 1095 --Interpretation)

²⁹ Assumed to be the same as "types of engineering" (1095 --Estimates, 1095 --Specifications) and "structures"

³⁰ Assumed to be the same as "farm products" (1095 --Composition)

a 4,636	machinery ³¹ (types of: 1095 --Reliability)
a 4,637	materials (1158; types of: 1095 --Corrosion; individual: 1095 --Drying)
a 4,638	medical conditions (1095 --Prevention)
a 4,638,3	diseases (1150)
a 4,638,5	mental conditions (types of: 1095 --Physiological aspects)
a 4,639	microprocessors (types of and individual: 1095 --Programming)
a 4,66	musical compositions (1160)
a 4,66,6	musical composition forms (1160 --Excerpts)
a 4,662	musical instruments (1161)
a 4,71	organs and regions of the body (1164)
a 4,74	class of person
a 4,74,1	no special class of person ³² (1100)
a 4,74,3	special class of persons
a 4,74,3,1	afflicted persons (1100 --Psychology)
a 4,74,3,1,3	persons dependent on others for care or assistance (1100 --Care)
a 4,74,3,1,4	persons with specific diseases (1100 --Hospitals)
a 4,74,3,2	age groups (1100 --Societies and clubs)
a 4,74,3,3	ethnic groups (1103)
a 4,74,3,3,5	nationalities (1103 --Diaries)
a 4,74,3,3,5,3	extant in modern times (1103 --Antiquities)
a 4,74,3,3,5,3,6	pre-literate groups (1103 --Industries)
a 4,74,3,3,6	other than nationalities [cf. 1103 --Diaries] ³³
a 4,74,3,3,6,3	extant in modern times (1103 --Antiquities)
a 4,74,3,3,6,3,3	ethnic groups in the United States (1103 --Newspapers) ³⁴
a 4,74,3,3,6,3,4	Jews (1103 --Ethnic identity)
a 4,74,3,3,6,3,6	pre-literate groups (1103 --Industries)
a 4,74,3,5	members of religious and monastic orders (1186)
a 4,74,3,6	occupational groups and types of employees (1100)
a 4,74,3,6,3	non-professional [cf. 1100 --Salaries, etc.]
a 4,74,3,6,4	professional (1100 --Fees; --Salaries, etc.)
a 4,74,3,6,5	public (1100 --Salaries, etc.)
a 4,74,3,6,6	non-public [cf. 1100 --Salaries, etc.]
a 4,74,3,6,7	literary authors (1155.2) ³⁵
a 4,74,3,7	sex groups (1100 --Societies and clubs)
a 4,75	phenomena
a 4,75,4	environmental phenomena (1095 --Physiological effect)
a 4,75,4,4	environmental conditions (1095 --Physiological effect)
a 4,75,7	scientific phenomena (1095 --Graphic methods)
a 4,77	processes (types of: 1095 --Automation; individual: 1095 --Management)
a 4,77,7	scientific processes (1095 --Calibration)
a 4,77,8	technical processes (types of: 1095 --Cold weather conditions; individual: 1095 --Automatic control)
a 4,77,8,8	used to further scientific advancement (1095 --Scientific applications)
a 4,77,9	technical operations ³⁶ (types of: 1095 --Finance)
a 4,772	programmable calculators (types of: 1095 --Programming; individual: 1095 --Programming)
a 4,78	substances

³¹ Assumed to be same as "types of machines" (1095 --Design and construction)

³² Does not include social classes; includes literary authors if no conflict.

³³ THIS IS UNCLEAR; MANY CAN BELONG TO MORE THAN ONE; ASPECTS?

³⁴ Jews--Newspapers is already handled via a reference to Jewish newspapers

³⁵ Equivalent to "groups of authors"; cf. 1095, --Manuscripts.

³⁶ Same as "technical processes"?

a 4,78,3	chemicals (1149; types of: 1095 --Testing; individual: 1095 --Analysis, 1095 --Toxicology)
a 4,78,3,3	drugs (individual: 1095 --Testing, 1149 --Administration; groups: 1149 --Administration)
a 4,78,3,5	non-drugs (individual: 1149 --Therapeutic use)
a 4,78,3,5,3	enzymes (individual: 1149 --Antagonists)
a 4,78,3,5,5	metals and metal compounds (individual and group: 1149 --Assaying)
a 4,78,3,5,5,5	metals (individual: 1149 --Assaying)
a 4,78,3,5,6	proteins (individual and group: 1149 --Denaturation)
a 4,78,6	natural substances of unfixed composition (1095 --Composition)
a 4,782	systems (types of: 1095 --Automation)
a 4,782,8	technical systems (types of: 1095 --Reliability)
a 4,95	undertakings (types of: 1095 --Planning)
a 4,95,2	activities (individual: 1095 --Rules; types of: 1095 --Equipment and supplies)
a 4,95,2,6	organized activities (types of: 1095 --Food service)
a 4,95,2,6,4	games ³⁷ (1095 --Rules)
a 4,95,2,7	special activities (1095 --Management)
a 4,95,3	corporate bodies (types of: --Automation)
a 4,95,3,2	business (types of: 1095 --Valuation)
a 4,95,3,3	Christian denominations (1187) ³⁸
a 4,95,3,4	educational institutions (types of: 1151.5)
a 4,95,3,5	government agencies (types of: 1095 --Officials and employees)
a 4,95,3,6	industries (1153; types of: 1095 --Automation)
a 4,95,3,7	religions (1185; individual: 1185 --Political aspects)
a 4,95,3,7,7	sects and denominations (1185 --Political aspects)
a 4,95,3,7,7,4	Judaism and its sects (1185 --Rituals)
a 4,95,3,7	transportation systems (types of: 1095 --Rates)
a 4,95,3,8	utilities (types of: 1095 --Defense measures)
a 4,95,32	construction activities ³⁹ (types of: 1095 --Cold weather conditions)
a 4,95,4	installations (types of: 1095 --Cold weather conditions)
a 4,95,42	institutions (types of: 1095 --Communication systems)
a 4,95,6	programs (types of: 1095 --Evaluation)
a 4,95,62	projects (types of: 1095 --Evaluation)
a 4,95,7	services (types of: 1095 --Accreditation; individual: 1095 --Accreditation)
a 4,96	vehicles (types of: 1095 --Fires and fire prevention)
a 4,96,5	land vehicles (1195)
a 4,97	vocal music (1095 --Texts)

Group 5: geographic headings

a 5	places (1140) ⁴⁰
	<i>flagged aspects:</i>
	/us of the United States (1140 --Charters)
	/no not of the United States (1140 --Charters, grants, privileges)
a 5,5	jurisdiction-type places
a 5,5,5	local places (cities and city sections) (1140 --Altitudes)

³⁷ Placed here even though some games--such as card games--are associated with physical objects.

³⁸ Only when tagged 150. See also under corporate bodies.

³⁹ This may possibly be the same as "constructions"; if so these are objects, not activities.

⁴⁰ Assumed under each, unless provided otherwise: |y t=X51.

|a 5,5,5,1 archaeological sites (1095 --Catalogs)
|a 5,5,5,1,1 ancient/early cities (1140 --Antiquities)
|a 5,5,6 non-local places (1140 --History, Local)
|a 5,5,6,3 countries (1140 --Armed Forces; 1140 --Colonies; see also 1149.5)
|a 5,6 non-jurisdiction-type places
|a 5,6,2 bodies of water, streams, etc (1145.5)
|a 5,6,3 celestial bodies (1095 --Stability)
|a 5,6,4 features (types of: 1095 --Recreational use)
|a 5,6,7 regions⁴¹ (1095 --Territories and possessions)
|a 5,6,8 volcanoes (1140 --Eruption, [date])

⁴¹ 1095--Territories and possessions. Probably same as "places larger than countries" (1140 --Economic integration; 1140 --Armed Forces)