96-159

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Mojave Desert Ecosystem Initiative

Legacy Project Name:

Mojave Ecosystem Inventory and Data Bank Cooperative

September 1, 1996

Department of Geography and Earth Resources, College of Natural Resources

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Mojave Ecosystem Inventory and Data Bank Cooperative

Project Activity

Phase I (8 - 12 months)

Establishment of Internet Connectivity

Phase II (11 - 14 months)

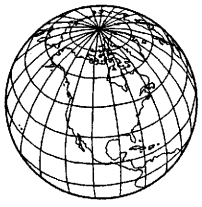
Annotated Bibliography

Phase III (18 months)

Data Validation and Digitizing

Phase IV (36 months)

Data Acquisition and Production of An Information System Package



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Phase I

Establishment of Internet Connectivity

Responsible Parties - United State Geological Survey (USGS)
Utah State University (USU)

Task A - Hold organizational meetings and define the scope and process for each task.

Task B - Provide site specific written recommendations for the Mojave Clearinghouse Network (MCN)

MCN Membership

Army	Ft. Irwin, CA
Navy	China Lake, CA
Air Force	Edwards AFB, CA
	Nellis AFB, NV
Marine Corps	Twenty Nine Palms, CA
	Logistic Base, Barstow, CA

- Install central server at Fort Irwin
- Install required software at each site
- Design and install a project "home page" for each site

Task C - Install spatial data catalog and database structure on the MCN

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Phase I

Phase I activity was primarily the responsibility of the U.S. Geological Survey under a separate contract between BLM and USGS. However, Utah State University provided direct financial support for Phase I activity by financing $52,000 of the USGS contract cost. Also, Utah State University provided purchasing services for the acquisition of the MDEI server. Additional support was provided in close collaboration with USGS in the installation and initial setup of the MDEI computer facility at Fort Irwin. Other activity in close collaboration with the USGS team includes both interactive support of system demonstrations at Fort Irwin and development of Internet links and prototype materials in Phase I. Phase II activity is described below.

Note that support required by Ft. Irwin for positions to provide technical assistance to the project coordinator and Lead Agent for the MDEI project at Fort Irwin was provided by Utah State also. This support includes salary for two positions at a cost estimated to be $200,000 over a two-year period. These costs in support of Phase I total some 15-20% of the total Utah State Budget.

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Phase II

Annotated Bibliography

USU will conduct a review of biological, physical and cultural resources data developed by DoD, DoI and other federal agencies, universities and other pertinent sources.

All spatial data will have metadata and will meet FGDS, FDTS and TSDS standards.

Task A - Define guidelines

Task B - Catalog data available from 27 listed agencies for
biological resources
physical resources
cultural resources

Task C - Analyze data system requirements
- provide goals, schedules, pointers for system use

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Phase II - Work Program

Spatially Annotated Bibliography for the Mojave Ecoregion.
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	Completion Target
1) Initial Project Definition (work plan)	
■ Circulate primary questionnaire	Done
■ Compile initial data from questionnaire	Done
■ Search on-line bibliographies;	Done
merge and edit to a single file	Done
■ Change file to format for spatial indexing	Done
■ Develop spatially indexed retrieval system	
2) Prepare Demonstration/Prototype	
■ Prototype spatially indexed bibliography on web	Done
■ Mojave bibliography on MCN in prototype	Done
■ Prepare spatially indexed retrieval system on CD-ROM with available Mojave References	Done
■ Visit all partners agencies and demonstrate CD-ROM	Done
■ Collect responses, and evaluate suggestions and recommendations	Done
3) Phase II Deliverables	
■ Enter additional bibliographic data	Ongoing
■ Deliver on-line bibliographic system for Mojave Ecoregion	September 1 (Delayed by data collection process)
■ Report on available data requiring digitizing	This report
■ Report on priorities for data on MCN	Herein

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Phase II

Annotated Bibliography (cont.)

Action:

1) Action under this phase of the contract has involved library staff, faculty, technical staff and graduate students.

The librarians of the Quinney Natural Resources Research Library have been responsible for electronic searches of on-line bibliographies and liaison with the Alexandria Digital Library Project over matters of format and data preparation. Assistance has been provided by other library staff as required.

Site visits and data collection have been coordinated by the Project Assistant and a report on these visits is included in Attachment 1.

Preparatory work for the spatially annotated bibliography was coordinated by Dr. R. Douglas Ramsey and, after Dr. Ramsey relocated to Santa Barbara, this role was assumed by Dr. Laura McCarthy.

A copy of release 1.0.0 of the spatially annotated bibliography written to CD-ROM is provided with this report. The network version of this can be accessed at http://www.nr.usu.edu/~mojave/geobib/index.html.

2) Dr. R. Douglas Ramsey relocated to UC Santa Barbara and is working with the Alexandria Digital Library Project to put Mojave bibliography on-line, develop spatially annotated bibliography software and build spatial (geographic) data sets as available.

3) The September 1 release of the spatially annotated bibliography is available but this could not be put on-line using the Ft. Irwin server because of technical limitations. CD-ROM copies available from USU will work on systems operating with SUN OS 2.3. Note that the network system requires the network demon and related operating protocols. A simplified version that will run in a stand-alone mode is available for UNIX operating systems from USU. A Windows 95 version is in development.

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Phase II

Annotated Bibliography (cont.)

Action:

4) The bibliography remains incomplete because:

i) Completeness requires knowledge of every published reference and we can never guarantee this because of continuous updating and loss of older documents.

ii) Visits to MDEI partners were confounded by unusual communication difficulties in May and June. Subsequent site visits were incomplete because personnel were either absent at the time of the scheduled visit (after providing approval for the visit) or documents that were intended for inclusion were unavailable.

iii) Follow-up visits are continuing and this process is expected to be complete by the end of the calendar year.

iv) documenting the material in many cases requires the preparation of an abstract and the delineation of the study area on a map. This process is more than 50% complete for data gathered from field visits.

(NOTE: Abstracts for all data currently collected are complete and a controlled vocabulary for key words is implemented. Georeferencing is more than 50% complete for all information from the field visits.)

5) As of September 1 hard copies of all data collected from each site visit to date were returned to the site for review and verification.

6) A summary of unpublished material gathered in site visits and the schedule of remaining visits as at September 21 is attached. (Attachment #1)

7) The bibliography (as of September 1) is being reviewed by the current President of the Ecological Society of America and his report will provide guidance for the final form for this product.

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Spatial Data

Data for the Mojave Ecoregion exist in several forms. The bibliography being compiled for this project gives insight into print material available in the literature. However, other data sources include tables of data as with the listing of maps available from state and federal agencies. A number of these listings are available on internet especially the listings of map products from the USGS National Mapping Division. Many of these products are available in digital form over the Internet.

Some of this material has been made accessible in Phase I activity by USGS as an activity under their direct contract. The listing of that material appears on the web pages for the Mojave with the following access address:

http://edcwww2.cr.usgs.gov//hompage/mojave.html

The "geospatial data" button links to the listing of available material under a heading of "Data and Internet Links". Groups of material available include:

Remotely Sensed Data
Biologic
Topographic
Cartographic
Hydrologic
Geologic
Cultural
Bibliographic

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These groups will be expanded and changed as work on this project continues. However, the data sets available are a considerable bonus being developed as part of Phase I activity to populate the server and make data sets accessible for demonstration purposes.

This activity provides access to existing internet sites that provide data relevant to the Mojave Ecoregion. Specifically, biological, physical and cultural resources data are listed in the appendices to this report. Other data sets provided by personnel at the partner sites visited are noted in the report on data collection for the bibliography (Attachment 1) or in the attachment directly listing map products (Attachment 2).

These data products together with the information made available by the existing prototype network provide a significant resource to users of the Mojave network. For both satellite image data and topographic base-map coverage the issue of concern is that the existing data are tiled by either map sheet or by satellite scene. In both cases this means that users can view individual scenes or maps only. In order to provide a continuous map of any chosen area it is necessary for these individual scenes or maps to be made into a mosaic.

In order to define standard areas such as national parks, military installations, countries, watersheds or other units, there is a need for a library of outlines that can be used to define satellite image or topographic data for further analysis. Thus, if an installation has the need for a map of a given watershed vegetation area, annual habitat or similar the system should be capable of providing it. To achieve this at the 1:24,000 scale is not practical for large areas. We recommend that this be made available at the 1:100,000 scale with tools that will compile the 1:24,000 maps or mosaics as required.

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The need for additional thematic data is clear. This varies from land ownership information to the flyways for migratory birds. Other items include desired maps of threatened and endangered species and water resources information. Specifically the following needs were identified by the initial survey. (see attachment #3)

1) Land Ownership and Land Use
2) Survey Marker Locations (map of monuments)
3) Topographic Map
4) Digital Orthophoto Quads
5) Desert Tortoise Distribution and Abundance Map
6) Desert Tortoise Habitat Preference in Regard to Soil Type and Texture
7) Groundwater Monitoring Map for the Mojave Desert
8) Wells Map
9) Wetlands and Riparian Areas
10) Seep and Spring Locations
11) Rare Animal Species Ranges
12) Rare Plant Species Ranges
13) Archaeological Sites and Ethnographic Areas
14) Paleontological Data and Areas
15) Map of Historic Structures in Mojave Desert
16) Neotropical Migratory Bird Flyways
17) Vegetation Maps

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In order for many of these items to be produced in a GIS compatible format it is essential that a standard base map be adopted and that a number of information layers be registered to this.

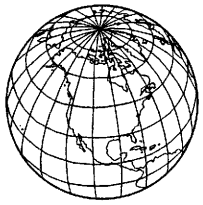
Important considerations include the projection and scale of the standard base map and the associated definitions of content by layer. This is fully available for the USGS National Mapping Division Topographic maps that are available at scales of 1:24,000, 1:100,000 and 1:125,000. Because of the varying needs of users there will be demand for maps at various scales. The most efficient solution to this problem appears to be:

i) Create a standard base map at 1:100,000 using USGS/NMD standard topographic maps projected to Universal Transverse Mercator, based on the North American Datum 1927 (NAD27) using the Clarke 1866 ellipsoid with its initial point of origin on Meades Ranch in Kansas. This should be a seamless data base available as a "roam-around" map on the internet.

ii) Provide access to the programs that convert the data set to other projections and datum points.

iii) Provide programs that will identify 1:24,000 scale map quads corresponding to a given study area selected from the 1:100,000 scale seamless data base and construct the 1:24,000 scale equivalent as required.

This provides several advantages. Primarily data layers will register to the standard maps of the area if they are registered to this data base. At the 1:100,000 scale the seamless data set is manageable in size and yet detailed enough for management purposes. At the 1:250,000 scale the data provide a useful general overview and at scales of 1:750,000 to 1:1,000,000 the data can be reduced to a map on a single sheet about 36"x32" or less.



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For environmental management at the ecoregion level (and at the military installation level) and for responses to NEPA compliance issues, the data layers required should include those of the standard topographic map. Map accuracy standards are defined by the National Mapping Standards for these maps. In addition, the items listed above as required by the respondents to the initial survey include maps of:

Land Ownership and Land Use
Digital Orthophoto Quads
Groundwater Monitoring Sites
Wetlands and Riparian Areas
Seep and Spring Locations
Wells

These can all be created in digital form from existing data records but should be seamless data sets in order to be useful for most purposes. In addition, the available data from the Natural Resources Conservation Service about soil type and soil property would be a useful resource. These layers, rendered in seamless data bases at scales of 1:100,000 would form a valuable dataset for the MDEI.

Costs of creating these seamless data sets at 1:100,000 scale are not trivial and in each case the metadata have to be assembled, edited and made available. In the overall design of this work as initially contracted the final product is intended to be a data set on CD-ROM that can be accessible over the internet. Each of these major data layers with its metadata, and accompanying tools will be ecosystem wide in coverage. Each will occupy one CD-ROM at present levels of data storage.

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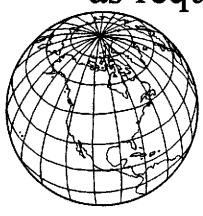
Currently the layers of greatest utility appear to be:

1) Topographic Base Map as Digital Line Graphs
2) Digital Elevation Model
3) NRCS Soil Data [STATSCO]
4) Hydrologic Data
5) Image Data - Landsat MSS
6) Image Data - Landsat TM
7) Image Data - Digital Orthophoto Quads
8) Vegetation Data - Gap Analysis [1:100,000 scale]
9) Climate Data
10) Geological Data - Bedrock/structure

Compiling seamless databases of these layers in digital form for internet use will utilize much of the time and money remaining in this contract. However, such a data base will be unique for an Ecoregion and will be an invaluable source for scientists in the MDEI. As an initial working resource for environmental managers available in both CD-ROM form and on the internet it will be a major contribution and an effective deliverable from the first legacy contract. It is a prototype for other major land management activity and follow-on work can be designed to create similar packages in net compatible CD-ROM format.

As a technical, note there is little point in providing network access to large data bases that do not change. The CD-ROM format allows users to access the information at any time and work on their own machine. Network access can be used for up-dating, compiling information in a management overview and defining problem areas and study needs. Detailed analysis requiring the use of the full analytical power of ARC/INFO or other GIS will NOT be possible on the net for large studies because of the transfer time required for large data sets. This type of analysis can be done most effectively on-site with ancillary data downloaded from the internet as required.



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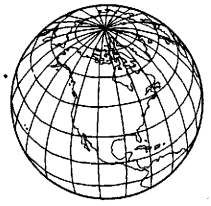
Spatially Annotated Bibliography

Status Report

Attachment #1

Field Data Collection
21 September 1996



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MDEI Phase II
Unpublished Documents Bibliography
Status Report - 21 October 1996

Installation/Agency	Estimated Number of Items Cataloged*	Est. % Completion [based upon relevant items shown to USU]	Draft Sent	Draft Returned With Comments	Notes
DOD: Ft. Irwin NTC	158	100%	+	–	some documents unavailable
DOD: Marine Corps Logistics, Barstow	0	100%	N/A	N/A	A. Gleason recommended B. Fisher at NavFac Div
DOD: MCAGCC, Twentynine Palms, CA	38	100%	+	+	staff provided docs except cultural; for cultural we were told to contact San Bernardino Co Historical Museum
DOD: China Lake NAWC	0	0	N/A	N/A	staff are currently re-evaluating all documents for a comprehensive resource management plan; will provide to USU on disk
DOD: Edwards AFB	150	100%	Nov 1		documents obtained through library and file search on-site; R. Norwood provided cultural references
DOD: SW Div Nav Fac Engineering Command	86	100%	+	–	documents tagged by B. Fisher; D. Lawson unavailable [veg]; J. Boggs unavailable
Nellis AFB	0	0	N/A	N/A	LMOG minutes indicate Nellis declined to participate; need confirmation of any subsequent status change; NTS provided by NBS Las Vegas Staff
Nevada Test Site	2500	unknown			
BLM, Riverside District	200	100%	+	–	some docs unavailable; all BLM cultural documents to be provided by R. Queen; list of NECO maps provided by R. Crowe & K. Mann; list of WMP maps provided by M. Brady
BLM, Barstow R.A.	25	100%	+	–	total number of documents brought to our attention
BLM, Needles R.A.	4	100%	+	–	total number of documents brought to our attention; a short list of maps was provided, but details scant
BLM, Palm Springs R.A.	85	100%	+	–	documents obtained from library
BLM, Ridgecrest R.A.	150	100%	Nov 1		documents provided by staff
BLM, Las Vegas District	44	100%	+	–	documents provided by staff

* Numbers change as duplicate entries are deleted or as additional entries are incorporated.

MDEI Phase II
Unpublished Documents Bibliography
Status Report - 21 October 1996

Installation/Agency	Estimated Number of Items Cataloged*	Est. % Completion [based upon relevant items shown to USU]	Draft Sent	Draft Returned With Comments	Notes
BLM, Arizona Strip District and R.A.	45	100%	Nov 1		documents provided by staff
NPS: Joshua Tree NP	140	100%	+	+	Supt. selected docs for cataloging; library sorted by USU personnel
NPS: Mojave NP	0	100%	N/A	N/A	none available fide staff; NEMO map list from D. Schramm
NPS, Death Valley NP	437	100%	Nov 1		documents photocopied for later entry
NBS: Riverside	250	100%	N/A	N/A	bibliography provided by K. Berry
NBS: Palm Springs	100	unknown	N/A	N/A	references from survey and bibliography by J. Lovich
NBS: Las Vegas	16	100%	+	–	P. Medica provided tortoise studies
CA DPR Mojave Sector	6	100%	+	–	documents provided by staff
CA DPR SD Service Center	0	100%	N/A	N/A	none available; suggested Mojave Sector
CDFG, NHD	30	100%	N/A	N/A	references provided by F. Hoover; none available SD-Imp-Riv regional office fide J. Dice
CALTRANS	28	100%	+	–	documents provided by staff
UC/CSU	49	unknown	+	+	annotated bibliography from L. McCarthy
UC Reserve System	77	100%	N/A	N/A	bibliography from Sweeney-Granite Mts Desert Research Center
Lake Mead NRA	250	100%	N/A	N/A	provided by J. Sealove
USFWS, Barstow	0	100%	N/A	N/A	none available fide staff

* Numbers change as duplicate entries are deleted or as additional entries are incorporated.

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Spatially Annotated Bibliography

Status Report

Attachment #2

Maps and map products catalogued and available for use in the MDEI Databank Cooperative from field data collection as of 21 September 1996.

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MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
CA: LANDSAT 3 classified landsystem imagery with 28 reflectance classes for vegetation; 1976	BLM, Ridgecrest: Harris	yes	yes		unknown	pre-MOSS format; on tape, Denver CO; JPL data analysis; + 2 sets negatives & positives; resolution: 1.5 acre pixel size
CA: 500 large scale, low level transect aerial photos	BLM, Ridgecrest: Harris original vegetation project lead: Dr. Hyrum Johnson, now with USDA-ARS, Temple, TX	no	yes	1:1,000	yes	these serve to verify the reflectance classes of the LANDSAT imagery; locations have coordinates and are mapped on 1:250,000 scale USGS quad maps
CA: Northern & Eastern Colorado Desert [NECO] Land Status	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO Road Network	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base; Infrastructure
CA: NECO Major Roads	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base; Infrastructure
CA: NECO Railroad Network	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base; Infrastructure
CA: NECO Routes of Travel	BLM, Riverside: Foote	yes	yes	unknown	unknown	Base; Infrastructure
CA: NECO Bridges, Inverted Siphons, Culverts	BLM, Riverside: Dorweiler	no	no	unknown	unknown	Base; Infrastructure
CA: NECO Dikes	BLM, Riverside: Mann	no	no	unknown	unknown	Base
CA: NECO 24K Quads	BLM, Riverside: Mann	yes	yes	1:24000	unknown	Base; Topography
CA: NECO 100K Quads	BLM, Riverside: Mann	yes	yes	1:100,000	unknown	Base; Topography
CA: NECO County Boundaries	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO State Boundary	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO District Boundary	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO BLM Resource Areas	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO BLM Planning Boundaries	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO NPS Boundaries	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO Military Boundaries	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO Public Land Survey System	BLM, Riverside: Mann	yes	yes	unknown	unknown	Base
CA: NECO BLM Management Land Use Plan	BLM, Riverside: Mann	yes	yes	unknown	unknown	Land Use Plan
CA: NECO NPS Management Land Use Plan	BLM, Riverside: Buono	yes	yes	unknown	unknown	Land Use Plan
CA: NECO USMC Management Land Use Plan	BLM, Riverside: Pearce	yes	yes	unknown	unknown	Land Use Plan
CA: NECO Wilderness Boundaries	BLM, Riverside: Mann	yes	yes	unknown	unknown	Land Use Plan
CA: NECO BLM ACECS	BLM, Riverside: Mann	yes	yes	unknown	unknown	Land Use Plan
CA: NECO BLM Closed Areas	BLM, Riverside: Mann	yes	yes	unknown	unknown	Land Use Plan
CA: NECO Military Targets	BLM, Riverside: Pearce	yes	yes	unknown	unknown	Land Use Plan
CA: NECO Adjacent Ownership Plans	BLM, Riverside: Crowe	no	yes	unknown	unknown	Land Use Plan
CA: NECO County/City Plans	BLM, Riverside: Crowe	no	no	unknown	unknown	Land Use Plan
CA: NECO Landforms	BLM, Riverside: Mann	yes	yes	unknown	unknown	Physical Resources; Landforms
CA: NECO Surface Hydrology	BLM, Riverside: Kamilli	no	yes	unknown	unknown	Physical Resources; Hydrology
CA: NECO Subsurface Hydrology	BLM, Riverside: Kamilli	no	yes	unknown	unknown	Physical Resources; Hydrology
CA: NECO Watersheds	BLM, Riverside: Mann	yes	yes	unknown	unknown	Physical Resources; Hydrology
CA: NECO Ecological Regions	BLM, Riverside: Mann	yes	yes	unknown	unknown	Physical Resources; Biological Resources
CA: NECO Lithology	BLM, Riverside: Kamilli	no	yes	unknown	unknown	Physical Resources; Geology

MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
CA: NECO Geohazards	BLM, Riverside: Kamilli	no	no	unknown	unknown	Physical Resources; Geology
CA: NECO Washes	BLM, Riverside: Kamilli	no	no	unknown	unknown	Physical Resources; Landforms
CA: NECO UCSB Plant Communities, Mojave	BLM, Riverside: Mann	yes	yes	unknown	unknown	Biological Resources; Vegetation; Plant Communities
CA: NECO UCSB Plant Communities, Sonoran	BLM, Riverside: Mann	yes	yes	unknown	unknown	Biological Resources; Vegetation; Plant Communities
CA: NECO Specialized Plant Communities	BLM, Riverside: Dorweiler	yes	yes	unknown	unknown	Biological Resources; Vegetation; Plant Communities
CA: NECO NDDB	BLM, Riverside: Nicol	yes	yes	unknown	unknown	Biological Resources; TES
CA: NECO Rare Plants	BLM, Riverside: Kobally	no	no	unknown	unknown	Biological Resources; Vegetation; TES
CA: NECO Unusual Plant Assemblages	BLM, Riverside: Mann	yes	yes	unknown	unknown	Biological Resources; Vegetation; Plant Communities
CA: NECO Water Sources	BLM, Riverside: Dorweiler	yes	yes	unknown	unknown	Biological Resources; Wildlife
CA: NECO Tortoise Critical Habitat	BLM, Riverside: Mann	yes	yes	unknown	unknown	Biological Resources; TES; Desert Tortoise
CA: NECO Tortoise Density	BLM, Riverside: Waln	no	yes	unknown	unknown	Biological Resources; TES; Desert Tortoise
CA: NECO Tortoise Study Plots	BLM, Riverside: Waln	no	no	unknown	unknown	Biological Resources; TES; Desert Tortoise
CA: NECO Tortoise Categories	BLM, Riverside: Mann	yes	yes	unknown	unknown	Biological Resources; TES; Desert Tortoise
CA: NECO Bighorn Sheep	BLM, Riverside: Nicol	yes	yes	unknown	unknown	Biological Resources; Wildlife
CA: NECO Deer	BLM, Riverside: Nicol	no	no	unknown	unknown	Biological Resources; Wildlife
CA: NECO Bats	BLM, Riverside: Nicol	no	no	unknown	unknown	Biological Resources; Bats
CA: NECO Raptor Eyries	BLM, Riverside: Mann	yes	yes	unknown	unknown	Biological Resources; Raptors
CA: NECO BLM, NPS, USMC Comm Sites	BLM, Riverside: Mann	yes	yes	unknown	unknown	Realty
CA: NECO Utility Corridors	BLM, Riverside: Mann	yes	yes	unknown	unknown	Realty; Infrastructure
CA: NECO Reclamation Withdrawals	BLM, Riverside: Kastoll	no	yes	unknown	unknown	Realty
CA: NECO Realty Sites	BLM, Riverside: Kastoll	no	yes	unknown	unknown	Realty
CA: NECO Linear Rights-of-Way	BLM, Riverside: Kastoll	no	yes	unknown	unknown	Realty
CA: NECO Mineral Material Sites	BLM, Riverside: Kastoll	no	yes	unknown	unknown	Realty; Physical Resources
CA: NECO Mineral Potential	BLM, Riverside: Downing	yes	yes	unknown	unknown	Physical Resources; Minerals
CA: NECO Current Mining Operations	BLM, Riverside: Downing	no	yes	unknown	unknown	Physical Resources; Minerals
CA: NECO Current Claims	BLM, Riverside: Downing	yes	yes	unknown	unknown	Physical Resources; Minerals
CA: NECO Mining Environmental Assessment	BLM, Riverside: Kamilli	no	no	unknown	unknown	Physical Resources; Minerals
CA: NECO Historical Mined Areas	BLM, Riverside: Downing	yes	yes	unknown	unknown	Physical Resources; Minerals
CA: NECO Hobby Collecting	BLM, Riverside: Downing	yes	yes	unknown	unknown	Physical Resources; Minerals
CA: NECO Grazing Lease Boundaries	BLM, Riverside: Madsen	no	yes	unknown	unknown	Biological Resources; Grazing

MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
CA: NECO Range Improvement Areas	BLM, Riverside: Madsen	no	yes	unknown	unknown	Biological Resources; Grazing
CA: NECO Range Improvement Lines	BLM, Riverside: Madsen	no	yes	unknown	unknown	Biological Resources; Grazing
CA: NECO Range Improvement Points	BLM, Riverside: Madsen	no	yes	unknown	unknown	Biological Resources; Grazing
CA: NECO Horse/Burro Management Areas	BLM, Riverside: Neibergs	no	yes	unknown	unknown	Biological Resources; Burros
CA:NECO Horse/Burro Retention Areas	BLM, Riverside: Neibergs	no	yes	unknown	unknown	Biological Resources; Burros
CA: NECO Horse/Burro Concentration Areas	BLM, Riverside: Neibergs	no	yes	unknown	unknown	Biological Resources; Burros
CA: NECO Horse/Burro Monitoring Sites	BLM, Riverside: Neibergs	no	yes	unknown	unknown	Biological Resources; Burros
CA: NECO Horse/Burro Trap Sites	BLM, Riverside: Neibergs	no	yes	unknown	unknown	Biological Resources; Burros
CA: NECO Horse/Burro Inventory Sites	BLM, Riverside: Neibergs	no	yes	unknown	unknown	Biological Resources; Burros
CA: NECO Recreation Areas	BLM, Riverside: Long	no	yes	unknown	unknown	Recreation
CA: NECO Recreation Trails	BLM, Riverside: Long	no	yes	unknown	unknown	Recreation
CA: NECO Recreation Points	BLM, Riverside: Long	no	yes	unknown	unknown	Recreation
CA: NECO Cultural Areas	BLM, Riverside: Mitchell	no	yes	unknown	unknown	Cultural Resources
CA: NECO Cultural Points	BLM, Riverside: Mitchell	no	yes	unknnown	unknown	Cultural Resources
CA: West Mojave Plan [WMP] Biological ACEC's	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Biological Resources
CA: WMP Astragalus albens point locations	BLM, Riverside: Egan	yes	yes	1:24,000	yes	Biological Resources; TES; Vegetation
CA: WMP Bat Location Records	BLM, Riverside: Foreman	yes	yes	1:24,000	yes	Biological Resources; Bats
CA: WMP Bighorn Sheep Use Areas	BLM, Riverside: Foreman	yes	yes	1:250,000	yes	Biological Resources; Wildlife
CA: WMP Carbonate Endemic Plant Habitat	BLM, Riverside: Egan	yes	yes	1:250,000	yes	Biological Resources; TES; Vegetation
CA: WMP Carbonate Rock Quarries, Prospects; Big Bear Quad	BLM, Riverside: Schulte	yes	yes	1:100,000	yes	Physical Resources; Geology
CA: WMP Carbonate Rock Quarries, Prospects; San Bernardino Quad	BLM, Riverside: Schulte	yes	yes	1:100,000	yes	Physical Resources; Geology
CA: WMP Carbonate Soils, Big Bear Quad	BLM, Riverside: Schulte	yes	yes	1:100,000	yes	Physical Resources; Soils
CA: WMP Carbonate Soils, San Bernardino Quad	BLM, Riverside: Schulte	yes	yes	1:100,000	yes	Physical Resources; Soils
CA: WMP Cattle Grazing Utilization in 1989	BLM, Riverside: Morgan	yes	yes	1:24,000; 1:62,500; 1:100,000	yes	Biological Resources; Grazing
CA: WMP City Limits and Spheres	BLM, Riverside: Chambers	yes	yes	1:100,000	yes	Base Map
CA: WMP Communication Sites and Solar Plants	BLM, Riverside: Williams	yes	yes	1:100,000	yes	Base Map; Infrastructure
CA: WMP Desert WildlifeMgmt Areas, Recovery Plan	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Biological Resources; TES; Wildlife
CA: WMP Desert Wildlife Mgmt Area for Joshua Tree	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Biological Resources; Vegetation; Plant Communities
CA: WMP Designated Camping Sites	BLM, Riverside: Butz	yes	yes	1:24,000	yes	Recreation
CA: WMP Disturbed Lands	BLM, Riverside: Chambers	yes	yes	1:62,500 1:100,000;	yes	Physical Resources
CA: WMP Drainages, Major	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Physical Resources; Landforms

MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
CA: WMP Dry Lake Beds	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Physical Resources; Landforms
CA: WMP Erigeron parishii Point Locations	BLM, Riverside	yes	yes	unknown	yes	Biological Resources; TES; Vegetation
CA: WMP Erigeron ovalifolium var. vineum Point Locations	BLM, Riverside	yes	yes	unknown	yes	Biological Resources; TES; Vegetation
CA: WMP Fences, Proposed and Existing	BLM, Riverside	yes	yes	unknown	yes	Base Map; Infrastructure
CA: WMP Fires from 1979-89	BLM, Riverside	yes	yes	unknown	yes	Biological Resources
CA: WMP Geothermal and Wind Power - Existing and Potential	BLM, Riverside	yes	YES	unknown	yes	Realty; Infrastructure
CA: WMP Grazing Allotments	BLM, Riverside	yes	yes	unknown	yes	Biological Resources; Grazing
CA: WMP Hunting Quality Index	BLM, Riverside	yes	yes	unknown	yes	Recreation
CA: WMP Inyo Brown Towhee Critical Habitat (buffered points and lines)	BLM, Riverside	yes	yes	unknown	yes	Biological Resources; TES; Birds
CA: WMP Joshua Tree Density	BLM, Riverside	yes	yes	unknown	yes	Biological Resources; Vegetation; Plant Communities
CA: WMP Land Exchanges Pending and Completed under LTA Land Ownership Changes between 1980 & 1994	BLM, Riverside	yes	yes	unknown	yes	Realty
CA: WMP Land Tenure Adjustment Areas	BLM, Riverside	yes	yes	unknown	yes	Realty
CA: WMP Land Tenure Adjustment Planning Area Boundary	BLM, Riverside	yes	yes	unknown	yes	Realty
CA: WMP Lands Owned by Catellus	BLM, Riverside	yes	yes	unknown	yes	Realty
CA: WMP Mohave Ground Squirrel Habitat Quality Index	BLM, Riverside	yes	yes	unknown	yes	Biological Resources; TES; WIldlife
CA: WMP Mohave Ground Squirrel Location Records	BLM, Riverside	yes	yes	unknnown	yes	Biological Resources; TES; WIldlife
CA: WMP Mohave Ground Squirrel Designated Range	BLM, Riverside	yes	yes	unknown	yes	Biological Resources; TES; WIldlife
CA: WMP No Survey Zone for Desert Tortoise	BLM, Riverside: Brady	yes	yes	1:24,000	yes	Biological Resources; TES; WIldlife
CA; WMP Off Highway Vehicle Areas	BLM, Riverside: Butz	yes	yes	1:24,000; 1:62,500	yes	Recreation
CA: WMP Range Improvements [lines]	BLM, Riverside: Morgan	yes	yes	1:100,000	yes	Biological Resources; Grazing
CA: WMP Range Improvements [polygons]	BLM, Riverside: Morgan	yes	yes	1:100,000	yes	Biological Resources; Grazing
CA: WMP Range Improvements [points]	BLM, Riverside: Morgan	yes	yes	1:100,000	yes	Biological Resources; Grazing
CA: WMP Raven Densities	BLM, Riverside: Morgan	yes	yes	1:100,000	yes	Biological Resources; TES; Desert Tortoise
CA: WMP Roads for the Base Map	BLM, Riverside: Zmudka	yes	yes	1:100,000	yes	Base Map; Infrastructure
CA: WMP Routes from the Desert Access Guides 100K Quad Maps	BLM, Riverside: Zmudka	yes	yes	1:100,000	yes	Base Map; Infrastructure
CA: WMP Rural Development	BLM, Riverside: Chambers	yes	yes	1:24,000; 1:62,500	yes	Base Map; Land Use
CA: WMP Sensitive Plant Locations	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Biological Resources; TES; Vegetation
CA: WMP Significant Ecological Areas, L.A. Co.	BLM, Riverside: Foreman	yes	yes	1:250,000	yes	Biological Resources
CA: WMP Special Status Animal Location Records (additions)	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Biological Resources; TES; Wildlife
CA: WMP Specialty Reserves <640 acres	BLM, Riverside: Foreman	yes	yes	various	yes	Biological Resources
CA: WMP Specialty Reserves > 640 acres	BLM, Riverside: Foreman	yes	yes	various	yes	Biological Resources

MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
CA: WMP Tortoise Density	BLM, Riverside: Foreman	yes	yes	1:62,500; 1:100,000; 1:250,000	yes	Biological Resources; TES; Desert Tortoise
CA: Joshua Tree NM Tortoise Density, Alice Karl	BLM, Riverside: Foreman	yes	yes	1:62,500	yes	Biological Resources; TES; Desert Tortoise
CA: WMP Tortoise Habitat Quality Index	BLM, Riverside: Foreman	yes	yes	1:250,000	yes	Biological Resources; TES; Desert Tortoise
CA; WMP Tortoise Range	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Biological Resources; TES; Desert Tortoise
CA: WMP Unusual Plant Assemblages	BLM, Riverside: Foreman	yes	yes	various	yes	Biological Resources; Vegetation; Plant Communities
CA: WMP Upper Respiratory Tract Disease Occurrence	BLM, Riverside: Foreman	yes	yes	1:100,000	yes	Biological Resources; TES; Desert Tortoise
CA: WMP Urban Areas	BLM, Riverside: Chambers	yes	yes	1:24,000; 1:100,000	yes	Base Map; Land Use
CA: WMP Utility Corridors	BLM, Riverside: Romoli	yes	yes	1:100,000	yes	Base Map' Infrastructure
CA: WMP Vegetation Communities	BLM, Riverside: Foreman	yes	yes	1:24,000; 1:62,500	yes	Biological Resources; Vegetation; Plant Communities
CA: WMP Wild Horse and Burro Mgmt Areas	BLM, Riverside: Sjasteed	yes	yes	1:250,000	yes	Burros
CA: WMP Planning Area Boundary	BLM, Riverside: Scrivner	yes	yes	1:100,000	yes	Base Map
CA: WMP 1995 Mgmt Unit Boundaries	BLM, Riverside	yes	yes	unknown	yes	Base Map
CA: BLM East Mojave, Human-caused impacts survyed along roads in WSA's	BLM, Needles RA: Sharpe	90%	yes	1:24,000; 1:62,500	yes	Physical Resources; Biological Resources
CA: BLM Needles RA, Wild Horse/Burro Mgmt Areas	BLM, Needles RA	no	no	unknown	no	Biological Resources; Burros
CA: BLM East Mojave, Vegetation Survey 1970's	BLM, Needles RA	no	no	1:62,500	no	Biological Resources; Vegetation; Plant Communities
CA: Vegetation, Black Mountains, Death Valley NM; D. Schramm 1982	NPS, Death Valley NP	no	yes	unknown	unknown	Biological Resources; Vegetation; Plant Communities
CA: Vegetation of the Cottonwood Mountains Death Valley NM; PM Peterson 1983	NPS, Death Valley NP	no	yes	unknown	yes	Biological Resources; Vegetation; Plant Communities
CA: Biological Resources Maps of the BLM Ridgecrest Resource Area	BLM Ridgecrest RA: Parker	no	variable	1:24,000 1:62,500	T/R/S	Biological Resources; Rare Plants; Rare Animals; TES; attributes are co-mingled on each topo map; 113-7.5' maps; 9-15' maps
CA: BLM Wilderness Case Files	BLM Resources Areas	variable;the 18 w/in Ridgecrest RA are completed, but not yet provided to GCDB as they are working only at the scale of 1:100,000	yes	1:24,000	yes	Physical Resources; Cultural Resources; Biological Resources; 69 throughout the Desert District; boundaries will be digitized; each has 7.5; paper topo quad maps with attributes located
AZ, NV, UT: NE Mojave Recovery Unit Proposed Desert Tortoise Mgmt Units	BLM, Arizona Strip DO	yes	yes	unknown	unknown	Biological Resources; TES; Desert Tortoise
UT, Washington County Map 1.1: General Location Map	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Base

MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
UT, Washington County Map 2A.1: Alternative A-Land Tenure Adjustments	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2A.2: Alternative A-Rights-Of-Way Avoidance and Exclusion Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2A.3: Alternative A-Proposed Withdrawals	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2A.4: Alternative A-Fluid Minerals Leasing Categories	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2A.5: Alternative A-Locatable Minerals Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2A.6: Alternative A-Mineral Materials Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2A.7: Alternative A-Vegetation Treatments	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; Vegetation; Plant Communities
UT, Washington County Map 2A.8: Alternative A-Forestry Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; Vegetation; Plant Communities
UT, Washington County Map 2A.9: Alternative A-Special Recreation Management Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 2A.10: Alternative A-Off-Highway Vehicle Designations	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 2A.11: Alternative A-Visual Resource Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Scenic Resources
UT, Washington County Map 2A.12: Alternatives A and C-Proposed Areas Of Critical Environmental Concern	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Land Use Plans
UT, Washington County Map 2B.1: Alternative B-Land Tenure Adjustments	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2B.2: Alternative B-Proposed Utility Corridors and Communication Site	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2B.3: Alternative B-Rights-Of-Way Avoidance and Exclusion Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2B.4: Alternative B-Proposed Withdrawals	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2B.5: Alternative B-Fluid Minerals Leasing Categories	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2B.6: Alternative B-Locatable Minerals Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2B.7: Alternative B-Mineral Materials Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2B.8: Alternative B-Forestry Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; Vegetation; Plant Communities
UT, Washington County Map 2B.9: Alternative B-Special Recreation Management Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation

MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
UT, Washington County Map 2B.10: Alternative B-Off-Highway Vehicle Designations	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 2B.11: Alternative B-Visual Resource Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Scenic Resources
UT, Washington County Map 2C.1: Alternative C-Land Tenure Adjustments	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2.C2: Alternative C-Proposed Utility Corridors and Communication Site	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2C.3: Alternative C-Rights-Of-Way Avoidance and Exclusion Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2C.4: Alternative C-Proposed Withdrawals	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2C.5: Alternative C-Fluid Minerals Leasing Categories	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2C.6: Alternative C-Locatable Minerals Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2C.7: Alternative C-Mineral Materials Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2C.8: Alternative C-Forestry Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; Vegetation; Plant Communities
UT, Washington County Map 2C.9: Alternative C-Special Recreation Management Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 2C.10: Alternative C-Off-Highway Vehicle Designations	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 2C.11: Alternative C-Visual Resource Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Scenic Resources
UT, Washington County Map 2D.1: Alternative D-Land Tenure Adjustments	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2.C2: Alternative D-Proposed Utility Corridors and Communication Site	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2D.3: Alternative D-Rights-Of-Way Avoidance and Exclusion Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2D.4: Alternative D-Proposed Withdrawals	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 2D.5: Alternative D-Fluid Minerals Leasing Categories	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2D.6: Alternative D-Locatable Minerals Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2D.7: Alternative D-Mineral Materials Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 2D.8: Alternative D-Forestry Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; Vegetation; Plant Communities

MAP TITLE	SOURCE: Contact	DIGITIZED	METADATA	ORIG SCALE	GEOREF	NOTES
UT, Washington County Map 2D.9: Alternative D-Special Recreation Management Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 2D.10: Alternative D-Off-Highway Vehicle Designations	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 2D.11: Alternative D-Visual Resource Management	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Scenic Resources
UT, Washington County Map 2D.12: Alternative D-Proposed Areas Of Critical Environmental Concern	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Land Use Plan
UT, Washington County Map 3.1: Affected Environment-Land Ownership	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Base Map
UT, Washington County Map 3.2: Affected Environment-Existing Rights-Of-Way	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 3.3: Affected Environment-Existing Withdrawals and Classification	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Realty
UT, Washington County Map 3.4: Affected Environment-Fluid Minerals Potential	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 3.5: Affected Environment-Locatable Minerals Potential	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 3.6: Affected Environment-Mineral Materials Potential and Existing Mineral Material Disposal Sites	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Minerals
UT, Washington County Map 3.7: Affected Environment-Saline, Gypsum and High Erosion Hazard Soils	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Soils
UT, Washington County Map 3.8: Affected Environment-Surface Waters and Potential Reservoir Sites	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Hydrology
UT, Washington County Map 3.9: Affected Environment-Navajo Aquifer, Municipal Watersheds and Critical Watersheds	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Hydrology
UT, Washington County Map 3.10: Affected Environment-Riparian Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Physical Resources; Biological Resources; Riparian
UT, Washington County Map 3.11: Affected Environment-Crucial Mule Deer and Elk Habitat	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; Wildlife
UT, Washington County Map 3.12: Affected Environment-Desert Tortoise Critical, Category I, II, and III Habitat	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; TES; Desert Tortoise
UT, Washington County Map 3.13: Affected Environment-Forestry Resources	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Biological Resources; Vegetation; Plant Communities
UT, Washington County Map 3.14: Affected Environment-Recreation Opportunity Spectrum Inventory Classes	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Recreation
UT, Washington County Map 3.15: Affected Environment-Wilderness Area &Wilderness Study Areas	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Land Use Plan; Wilderness
UT, Washington County Map 3.16: Affected Environment-Cultural/Paleontological Resource Sites	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Cultural Resources
UT, Washington County Map 3.17: Affected Environment-Eligible Wild and Scenic River Segments	1995 Dixie Resource Area RMP (Draft) BLM-Cedar City District	yes	yes	unknown	T/R/S	Land Use Plan

Utah State
UNIVERSITY

Spatially Annotated Bibliography

Status Report

Attachment #3

Items not in existence or not available in electronic form but desired for inclusion in MCN according to initial survey comments.

Department of Geography and Earth Resources, College of Natural Resources

MOJAVE DESERT ECOSYSTEM INITIATIVE DATA AND INFORMATION SURVEY RESPONSES FOR PRIORITY DATA TO ENTER INTO A DETAILED, SPATIALLY EXPLICIT CATALOG

ITEMS DESIRED BUT NOT IN EXISTENCE

SYSTEM 11
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired; hard copy
TI Desert tortoise distribution and abundance map
NT A single map for the desert [tortoise] should be available. Death Valley has some survey data.
SF first survey
$
SYSTEM 12
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired; Lotus computer files
TI Groundwater monitoring map for the Mojave Desert
NT A single database should be developed to show where groundwater monitoring is available or absent. Death Valley has some info for major springs near the park headquarters.
SF first survey
$
SYSTEM 18
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired
TI Land ownership and use
NT Land ownership and use including _history_ of parcel ownership and use
SF first survey
$
SYSTEM 10
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired; paper and GIS
TI Mojave Desert Vegetation Map
NT A single map for the Mojave should be developed, and use a single

classification scheme which would be useful for inventory and land management purposes. Death Valley has maps for 3 mountain ranges.
SF first survey
$
SYSTEM 17
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired
TI Rare Animal Species Range
NT Rare animal species range and siting records and collection records
SF first survey
$
SYSTEM 16
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired
TI Rare Plant Species Ranges
NT Rare plant species ranges and collection records
SF first survey
$
SYSTEM 20
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired
TI Survey Marker Locations (map of monuments)
NT Survey marker locations (map of monuments) for all agencies, all uses, with full data on history, techniques, and accuracy.
SF first survey
$
SYSTEM 19
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired; DLGs; DEMs, paper; acetate
TI Topography
NT Topography detailed
SF first survey
$
SYSTEM 15
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258

FMT desired
TI Vegetation type
NT Community and association--in detail
SF first survey
$
SYSTEM 14
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired
TI Wells map
NT Wells map (water, number exploration oil/gas) and data for each well, including drill records of rock strata.
SF first survey
$
SYSTEM 13
RSN Doug Threleff
RSO Death Valley National Park ; Death Valley Ca 92328
RST 619 786-3252; FAX 619 786-3258
FMT desired;
TI Wetlands and riparian areas
SF first survey
$
SYSTEM 7
RSN John Stark
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-3254; FAX 619 786-3258
FMT desired; electronic
TI Death Valley Park Springs
NT A list of springs in Death Valley National Park. (We have no data on the new areas of the park
SF first survey
$
SYSTEM 8
RSN John Stark
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-3254; FAX 619 786-3258
FMT desired; DLS, Arc/Info; GRASS
TI DLGs
PU Death Valley National Park and a control site
NT DLGs of all themes at 1:24,000 scale for all of the park area
SF first survey
$

SYSTEM 9
RSN John Stark
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-3254; FAX 619 786-3258
FMT desired; DOQ; Arc/Info
TI DOQs
PU Death Valley national Parks and central site
NT DOQs (digital orthographic quads) of all of the park area
SF first survey
$
SYSTEM 2
RSN Linda Greene, Cultural Resources Specialist
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-2331; FAX 619 786-3283
FMT desired; mixed; ProCite; Catalog Cards
TI Cultural Resources Bibiography
PU National Park Service, various locations, Washington, D.C., Death Valley, etc.
NT Consolidate Cultural Resources Bibliography, expand and update as necessary. Consolidate and continue to update. Consolidate w/ NPS (or other agency) bibiography softawat such @ PROCITE
SF first survey
$
SYSTEM 5
RSN Linda Greene, Cultural Resources Specialist
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-2331; FAX 619 786-3283
FMT desired; paper; raw data; oral tradiiton; GIS; database; bibliography
TI GIS Archaeological Sites and Ethnographic Areas
PU National Park Service; all parks, including Death Valley
NT Combine raw data maps and other info--of all Mojave. Pending restrictions on availability of sensitiave info--sites, areas should be GIS. Include Traditional Use areas for both subsistance and sacred/traditional use areas. (pending tribal approval)
SF first survey
$
SYSTEM 6
RSN Linda Greene, Cultural Resources Specialist
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-2331; FAX 619 786-3283
FMT desired; paper; hard copy reports; raw data; photographs; specimens; GIS;

database; bibliography
TI GIS Paleontological Data and Areas.
PU National Park Service, Death Valley National Park and other parks
NT Combine raw data, maps, and other info--of all Mojave. Pending restrictions on availibility of sensitive information. GIS areas for retrieval.
SF first survey
$
SYSTEM 4
RSN Linda Greene, Cultural Resources Specialist
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-2331; FAX 619 786-3283
FMT desired; database; GIS
TI List of Classified Structures
PU National Park Service, Western Regional Office, San Francisco, CA
NT Consolidate databases of LCS and other historic structures in Mojave Desert; Plug into GIS map. Need to continue to update LCS and GIS non-LCS eligible structures, buildings, and ruins.
SF first survey
$
SYSTEM 3
RSN Linda Greene, Cultural Resources Specialist
RSO National Park Service ; Death Valley National Park ; P.O. Box 579 ; Death Valley, CA 92328
RST 619 786-2331; FAX 619 786-3283
FMT desired; mixed; database; raw data; photographs; DBaseIII
TI Museum Collection Data, Archaeological
PU National Park Service, all parks and Washington, D.C.
NT Consolidate various agency museum collection data, specific towards archaeological collections. Consolidate museum collection databases--including NPS Automated National Catalog System (ANCS). Relate to existing GIS info or beign GIS program.
SF first survey
$
SYSTEM 55
RSN P. Kip Otis-Diehl
RST 619 830-7640; otis_diehlp@mqg-smtps.usmc.mil
FMT desired; GIS
TI Desert tortoise habita preference in regand to soil type and texture.
NT Much of the Mojave is jsut now being mapped by the NRCS (formerly SCS)--tortoises are absent from areas that appear to be acceptable habitat-- soil texture may be the limiting factor. Location: Currently most of the military lands have on-going soil surveys wihich are being digitized.
SF first survey
$

SYSTEM 58
RSN P. Kip Otis-Diehl
RST 619 830-7640; otis_diehlp@mqg-smtps.usmc.mil
FMT desired; database; GIS; paper
TI Ecosystem maps, Vegetation types/communities.
NT Information is available but not necessarily comparable--needs to be standardized. Location: most of the Federal agencies and state planning boards possibly.
SF first survey
$
SYSTEM 57
RSN P. Kip Otis-Diehl
RST 619 830-7640; otis_diehlp@mqg-smtps.usmc.mil
FMT desired; GIS; paper
TI Neotropical migratory bird flyways.
NT Waterfowl flyways are well defined and map have been available for years. This is _not_ true of neotropicals--this data is very important to protection efforts. Location: ? Universitites, museums.
SF first survey
$
SYSTEM 56
RSN P. Kip Otis-Diehl
RST 619 830-7640; otis_diehlp@mqg-smtps.usmc.mil
FMT desired; GIS
TI Seep and spring location.
NT Seeps and springs are critical to native wildlife and also may be surrounded by cultural resources, they need to be ID for protection and management. Location: ? USGS, Bureau of Mines, Water districts
SF first survey
$

Utah State
UNIVERSITY

Spatial Data

Status Report

Attachment #4

1:24,000 Digital Line Graphs
U.S.G.S. - N.M.D. Topographic Maps

Department of Geography and Earth Resources, College of Natural Resources

U.S. Geological Survey - National Mapping Information - EROS Data Center - GLIS -- Help

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Digital Line Graphs - Large Scale: Inventory Search Results

Report Generated on: Wed Oct 9 14:07:35 1996

Search Criteria

Geographic Coverage: RANGE, 33.5000, 37.5000, -119.0000, -113.0000

5456 metadata records matched your query.

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DL472020HY541044	BIG DUNE	NV	HY	24000
DL472020TR541046	BIG DUNE	NV	MT	24000
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DL472020TR541046	BIG DUNE	NV	RD	24000
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DL452390PL536139	BIG MARIA MOUNTAINS NW	CA	PL	24000
DL451060BD535837	BIG MARIA MOUNTAINS SE	CA,AZ	BD	24000
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DL452400PL536141	BIG MARIA MOUNTAINS SW	CA	PL 24000
DL462900PL538698	BIGHORN BASIN	CA	PL 24000
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DL480070HP543138	BIRD SPRING	CA	HP 24000
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DL480070MS543140	BIRD SPRING	CA	MS 24000
DL480070TR543143	BIRD SPRING	CA	MT 24000
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DL458800HY537659	BLACK HILLS	NV	HY 24000
DL458800MS537660	BLACK HILLS	NV	MS 24000
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DL460120TR537975	BLACK HILLS SW	NV	RD 24000
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DL480060SM543136	BLACKWATER WELL	CA	SM 24000
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DL458940PL537743	BLIND HILLS	CA	PL 24000
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DL460160HP538006	BLUE DIAMOND	NV	HP 24000
DL460160HY538007	BLUE DIAMOND	NV	HY 24000
DL460160MS538008	BLUE DIAMOND	NV	MS 24000
DL460160TR538011	BLUE DIAMOND	NV	MT 24000
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DL458840HY537695	BLUE DIAMOND SE	NV	HY 24000
DL458840MS537696	BLUE DIAMOND SE	NV	MS 24000
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DL448090PL535315	BLUE NOSE PEAK	NV	PL 24000
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DL451080HY535856	BLYTHE	CA,AZ	HY 24000

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DL451070HY535848	BLYTHE NE	CA,AZ	HY	24000
DL451070MS535849	BLYTHE NE	CA,AZ	MS	24000
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DL449530TR535566	BONELLI BAY	AZ	MT	24000
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DL453560HY536409	BOULDER BEACH	NV,AZ	HY	24000
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DL453570HY536418	BOULDER CITY	NV	HY	24000
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DL464220PL538992	BUDWEISER WASH	CA	PL	24000
DL819670BD560939	BULLFROG	NV,CA	BD	62500
DL819670PL560940	BULLFROG	NV,CA	PL	62500
DL446720BD535096	BUNKER PEAK	NV	BD	24000
DL446720PL535097	BUNKER PEAK	NV	PL	24000
DL490260BD545754	BURBANK	CA	BD	24000
DL490260HY545755	BURBANK	CA	HY	24000

DL490260PL545756	BURBANK	CA	PL 24000
DL492770BD546347	BURNT PEAK	CA	BD 24000
DL492770PL546348	BURNT PEAK	CA	PL 24000
DL458770BD537651	BURRO BASIN	NV	BD 24000
DL458770PL537652	BURRO BASIN	NV	PL 24000
DL470690BD540639	BUSTED BUTTE	NV	BD 24000
DL470690HP540640	BUSTED BUTTE	NV	HP 24000
DL470690HY540641	BUSTED BUTTE	NV	HY 24000
DL470690TR540643	BUSTED BUTTE	NV	MT 24000
DL470690PL540642	BUSTED BUTTE	NV	PL 24000
DL470690TR540643	BUSTED BUTTE	NV	RD 24000
DL470690TR540643	BUSTED BUTTE	NV	RR 24000
DL477490BD542557	BUTLER PEAK	CA	BD 24000
DL477490HP542558	BUTLER PEAK	CA	HP 24000
DL477490HY542559	BUTLER PEAK	CA	HY 24000
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DL477490SC542564	BUTLER PEAK	CA	SC 24000
DL477490SM542565	BUTLER PEAK	CA	SM 24000
DL461660HP538400	BUZZARD SPRING	CA	HP 24000
DL461660HY538401	BUZZARD SPRING	CA	HY 24000
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DL474880PL541889	CABAZON	CA	PL 24000
DL488940BD545379	CACHE PEAK	CA	BD 24000
DL488940HP545380	CACHE PEAK	CA	HP 24000
DL488940HY545381	CACHE PEAK	CA	HY 24000
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DL461600PL538389	CADIZ	CA	PL 24000
DL816460PL560850	CADIZ	CA	PL 62500
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DL460300PL538075	CADIZ LAKE	CA	PL 24000
DL815810PL560822	CADIZ LAKE	CA	PL 62500
DL458970PL537746	CADIZ LAKE NE	CA	PL 24000
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DL815820BD560823	CADIZ VALLEY	CA	BD 62500
DL815820PL560824	CADIZ VALLEY	CA	PL 62500
DL458990PL537748	CADIZ VALLEY NE	CA	PL 24000
DL460310HP538076	CADIZ VALLEY NW	CA	HP 24000
DL460310HY538077	CADIZ VALLEY NW	CA	HY 24000
DL460310PL538078	CADIZ VALLEY NW	CA	PL 24000
DL459000HP537749	CADIZ VALLEY SE	CA	HP 24000
DL459000HY537750	CADIZ VALLEY SE	CA	HY 24000
DL459000PL537751	CADIZ VALLEY SE	CA	PL 24000
DL460320PL538079	CADIZ VALLEY SW	CA	PL 24000
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DL818430PL560910	CADY MOUNTAINS	CA	PL 48000
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DL481460HY543514	CAJON	CA	HY 24000
DL481460MS543515	CAJON	CA	MS 24000

DL481460TR543518	CAJON	CA	MT	24000
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DL481460PL543517	CAJON	CA	PL	24000
DL481460TR543518	CAJON	CA	RD	24000
DL481460TR543518	CAJON	CA	RR	24000
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DL494060HP546657	CALABASAS	CA	HP	24000
DL494060HY546658	CALABASAS	CA	HY	24000
DL486450BD544679	CALIFORNIA CITY NORTH	CA	BD	24000
DL486450PL544680	CALIFORNIA CITY NORTH	CA	PL	24000
DL486460BD544681	CALIFORNIA CITY SOUTH	CA	BD	24000
DL486460PL544682	CALIFORNIA CITY SOUTH	CA	PL	24000
DL493920BD546560	CALIFORNIA HOT SPRINGS	CA	BD	24000
DL493920HP546561	CALIFORNIA HOT SPRINGS	CA	HP	24000
DL493920HY546562	CALIFORNIA HOT SPRINGS	CA	HY	24000
DL493920MS546563	CALIFORNIA HOT SPRINGS	CA	MS	24000
DL493920TR546566	CALIFORNIA HOT SPRINGS	CA	MT	24000
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DL493920PL546565	CALIFORNIA HOT SPRINGS	CA	PL	24000
DL493920TR546566	CALIFORNIA HOT SPRINGS	CA	RD	24000
DL493920TR546566	CALIFORNIA HOT SPRINGS	CA	RR	24000
DL493920SC546567	CALIFORNIA HOT SPRINGS	CA	SC	24000
DL493920SM546568	CALIFORNIA HOT SPRINGS	CA	SM	24000
DL452210BD536066	CALLVILLE BAY	NV,AZ	BD	24000
DL452210TR536068	CALLVILLE BAY	NV,AZ	MT	24000
DL452210PL536067	CALLVILLE BAY	NV,AZ	PL	24000
DL452210TR536068	CALLVILLE BAY	NV,AZ	RD	24000
DL452210TR536068	CALLVILLE BAY	NV,AZ	RR	24000
DL461610BD538390	CALUMET MINE	CA	BD	62500
DL461610PL538391	CALUMET MINE	CA	PL	62500
DL461620BD538392	CALUMET MOUNTAINS	CA	BD	62500
DL461620PL538393	CALUMET MOUNTAINS	CA	PL	62500
DL497700BD547646	CAMARILLO	CA	BD	24000
DL497700HP547647	CAMARILLO	CA	HP	24000
DL497700HY547648	CAMARILLO	CA	HY	24000
DL497700PL547649	CAMARILLO	CA	PL	24000
DL473500BD541529	CAMP ROCK MINE	CA	BD	62500
DL473500PL541530	CAMP ROCK MINE	CA	PL	62500
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DL482800PL543863	CANADA GOBERNADORA	CA	PL	24000
DL488910BD545345	CANE CANYON	CA	BD	24000
DL488910BD545346	CANE CANYON	CA	BD	24000
DL488910HP545347	CANE CANYON	CA	HP	24000
DL488910HY545348	CANE CANYON	CA	HY	24000
DL488910MS545349	CANE CANYON	CA	MS	24000
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DL488910NV545350	CANE CANYON	CA	NV	24000
DL488910PL545353	CANE CANYON	CA	PL	24000
DL488910PL545354	CANE CANYON	CA	PL	24000
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DL488910SC545356	CANE CANYON	CA	SC	24000
DL488910SM545357	CANE CANYON	CA	SM	24000
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DL442720PL534543	CANE SPRINGS	AZ	PL	24000
DL442730BD534544	CANE SPRINGS SE	AZ	BD	24000
DL442730PL534545	CANE SPRINGS SE	AZ	PL	24000
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DL490130NV545635	CANNELL PEAK	CA	NV	24000
DL490130PL545636	CANNELL PEAK	CA	PL	24000
DL490130TR545637	CANNELL PEAK	CA	RD	24000

DL490130TR545637	CANNELL PEAK	CA	RR	24000
DL490130SC545638	CANNELL PEAK	CA	SC	24000
DL490130SM545639	CANNELL PEAK	CA	SM	24000
DL492810HP546351	CANOGA PARK	CA	HP	24000
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DL449450BD535544	CARP	NV	BD	24000
DL449450PL535545	CARP	NV	PL	24000
DL473330BD541428	CARRARA CANYON	NV	BD	24000
DL473330HP541429	CARRARA CANYON	NV	HP	24000
DL473330HY541430	CARRARA CANYON	NV	HY	24000
DL473330TR541432	CARRARA CANYON	NV	MT	24000
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DL495090TR546864	CASE MOUNTAIN	CA	RR	24000
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DL440050BD534133	CASTLE PEAK	AZ	BD	24000
DL440050TR534134	CASTLE PEAK	AZ	MT	24000
DL440050TR534134	CASTLE PEAK	AZ	RD	24000
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DL457580PL537413	CASTLE PEAKS	CA	PL	24000
DL449650BD535575	CASTLE ROCK	AZ,CA	BD	24000
DL449650HP535576	CASTLE ROCK	AZ,CA	HP	24000
DL449650HY535577	CASTLE ROCK	AZ,CA	HY	24000
DL449650MS535578	CASTLE ROCK	AZ,CA	MS	24000
DL449650TR535581	CASTLE ROCK	AZ,CA	MT	24000
DL449650NV535579	CASTLE ROCK	AZ,CA	NV	24000
DL449650PL535580	CASTLE ROCK	AZ,CA	PL	24000
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DL449650TR535581	CASTLE ROCK	AZ,CA	RR	24000
DL449650SC535582	CASTLE ROCK	AZ,CA	SC	24000
DL449650SM535583	CASTLE ROCK	AZ,CA	SM	24000
DL473550BD541539	CATCLAW FLAT	CA	BD	24000
DL473550PL541540	CATCLAW FLAT	CA	PL	24000
DL470930BD540756	CATHEDRAL CITY	CA	BD	24000
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DL464010BD538945	CATTLE SPRING	NV	BD	24000
DL464010PL538946	CATTLE SPRING	NV	PL	24000
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DL469500PL540373	CAVE MOUNTAIN	CA	PL	24000
DL818420PL560908	CAVE MOUNTAIN	CA	PL	62500
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DL469500SC540375	CAVE MOUNTAIN	CA	SC	24000
DL469500SM540376	CAVE MOUNTAIN	CA	SM	24000
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DL493850TR546555	CEDAR GROVE	CA	RD	24000
DL493850TR546555	CEDAR GROVE	CA	RR	24000
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DL441310BD534349	CENTRAL WEST	UT	BD	24000
DL441310PL534350	CENTRAL WEST	UT	PL	24000
DL491350TR545934	CHAGOOPA FALLS	CA	MT	24000
DL491350TR545934	CHAGOOPA FALLS	CA	RD	24000
DL491350TR545934	CHAGOOPA FALLS	CA	RR	24000
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DL461450HY538297	CHARLESTON PEAK NE	NV	HY 24000
DL461450MS538298	CHARLESTON PEAK NE	NV	MS 24000
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DL461450TR538301	CHARLESTON PEAK NE	NV	RD 24000
DL461450TR538301	CHARLESTON PEAK NE	NV	RR 24000
DL461450SC538302	CHARLESTON PEAK NE	NV	SC 24000
DL461450SM538303	CHARLESTON PEAK NE	NV	SM 24000
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DL451000PL535818	CHEMEHUEVI PEAK	CA	PL 24000
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DL496320TR547214	CHICKENCOOP CANYON	CA	RD 24000
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DL487770BD545058	CHILAO FLAT	CA	BD 24000
DL487770PL545059	CHILAO FLAT	CA	PL 24000
DL819680BD560941	CHLORIDE CLIFF	CA,NV	BD 62500
DL819680PL560942	CHLORIDE CLIFF	CA,NV	PL 62500
DL480040BD543127	CHRISTMAS CANYON	CA	BD 24000
DL480040PL543128	CHRISTMAS CANYON	CA	PL 24000
DL458980PL537747	CHUBBUCK	CA	PL 24000
DL815840BD560827	CHUCKWALLA MOUNTAINS	CA	BD 62500
DL815840PL560828	CHUCKWALLA MOUNTAINS	CA	PL 62500
DL815190BD560805	CHUCKWALLA SPRING	CA	BD 62500
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DL461550PL538384	CIMA	CA	PL 24000
DL461540HP538376	CIMA DOME	CA	HP 24000
DL461540HY538377	CIMA DOME	CA	HY 24000
DL461540MS538378	CIMA DOME	CA	MS 24000
DL461540TR538381	CIMA DOME	CA	MT 24000
DL461540NV538379	CIMA DOME	CA	NV 24000
DL461540PL538380	CIMA DOME	CA	PL 24000
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DL490160HP545659	CLARAVILLE	CA	HP 24000
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DL490160TR545664	CLARAVILLE	CA	MT 24000
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DL469630PL540403	CLARK LAKE NE	CA	PL 24000
DL461520BD538358	CLARK MOUNTAIN	CA	BD 24000

DL461520HP538359	CLARK MOUNTAIN	CA	HP	24000
DL461520HY538360	CLARK MOUNTAIN	CA	HY	24000
DL461520MS538361	CLARK MOUNTAIN	CA	MS	24000
DL461520TR538364	CLARK MOUNTAIN	CA	MT	24000
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DL461640HP538395	CLARKS PASS	CA	HP	24000
DL461640HY538396	CLARKS PASS	CA	HY	24000
DL461640PL538397	CLARKS PASS	CA	PL	24000
DL464260BD538999	CLEGHORN LAKES	CA	BD	24000
DL464260PL539000	CLEGHORN LAKES	CA	PL	24000
DL497630BD547631	COAL OIL CANYON	CA	BD	24000
DL497630HP547632	COAL OIL CANYON	CA	HP	24000
DL497630HY547633	COAL OIL CANYON	CA	HY	24000
DL497630MS547634	COAL OIL CANYON	CA	MS	24000
DL497630TR547637	COAL OIL CANYON	CA	MT	24000
DL497630NV547635	COAL OIL CANYON	CA	NV	24000
DL497630PL547636	COAL OIL CANYON	CA	PL	24000
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DL497630SC547638	COAL OIL CANYON	CA	SC	24000
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DL470960PL540763	COLLINS VALLEY	CA	PL	24000
DL815790BD560817	COLTON WELL	CA	BD	62500
DL460250PL538070	COLTON WELL	CA	PL	24000
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DL460240PL538069	COLUMBIA MOUNTAIN	CA	PL	24000
DL444120BD534741	COLUMBINE FALLS	AZ	BD	24000
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DL444120TR534742	COLUMBINE FALLS	AZ	RD	24000
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DL478690HP542826	COPPER QUEEN CANYON	CA	HP	24000
DL478690HY542827	COPPER QUEEN CANYON	CA	HY	24000
DL478690TR542829	COPPER QUEEN CANYON	CA	MT	24000
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DL458810HY537668	CORN CREEK SPRINGS	NV	HY	24000
DL458810MS537669	CORN CREEK SPRINGS	NV	MS	24000
DL458810TR537672	CORN CREEK SPRINGS	NV	MT	24000
DL458810NV537670	CORN CREEK SPRINGS	NV	NV	24000
DL458810PL537671	CORN CREEK SPRINGS	NV	PL	24000
DL458810TR537672	CORN CREEK SPRINGS	NV	RD	24000
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DL458810SM537674	CORN CREEK SPRINGS	NV	SM	24000
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DL460130TR537984	CORN CREEK SPRINGS NW	NV	MT	24000
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DL460130PL537983	CORN CREEK SPRINGS NW	NV	PL	24000
DL460130TR537984	CORN CREEK SPRINGS NW	NV	RD	24000
DL460130TR537984	CORN CREEK SPRINGS NW	NV	RR	24000
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DL821660PL561006	COSO PEAK	CA	PL	62500
DL465630BD539325	COTTONWOOD BASIN	CA	BD	62500
DL465630HP539326	COTTONWOOD BASIN	CA	HP	24000
DL465630HY539327	COTTONWOOD BASIN	CA	HY	24000
DL465630PL539328	COTTONWOOD BASIN	CA	PL	62500
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DL460170HP538015	COTTONWOOD PASS	NV	HP	24000
DL460170HY538016	COTTONWOOD PASS	NV	HY	24000
DL460170MS538017	COTTONWOOD PASS	NV	MS	24000
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DL460170NV538018	COTTONWOOD PASS	NV	NV	24000
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DL460170SM538022|COTTONWOOD PASS          |NV      |SM |   24000
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DL464310HP539010|COTTONWOOD SPRING        |CA      |HP |   24000
DL464310HY539011|COTTONWOOD SPRING        |CA      |HY |   24000
DL464310PL539012|COTTONWOOD SPRING        |CA      |PL |   62500
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DL474840PL541881|COUGAR BUTTES            |CA      |PL |   24000
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DL459010HY537753|COXCOMB MOUNTAINS        |CA      |HY |   24000
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DL474790HY541867|COYOTE LAKE              |CA      |HY |   24000
DL474790MS541868|COYOTE LAKE              |CA      |MS |   24000
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DL474790SM541873|COYOTE LAKE              |CA      |SM |   24000
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DL472010HY541039|CRATER FLAT              |NV      |HY |   24000
DL472010TR541041|CRATER FLAT              |NV      |MT |   24000
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DL472010TR541041|CRATER FLAT              |NV      |RD |   24000
DL472010TR541041|CRATER FLAT              |NV      |RR |   24000
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DL457570PL537409|CRESCENT PEAK            |NV,CA   |PL |   24000
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DL488930BD545370|CROSS MOUNTAIN           |CA      |BD |   24000
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DL484080PL544172	DANA POINT	CA	PL	24000
DL815800BD560819	DANBY	CA	BD	62500

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DL815800PL560820	DANBY	CA	PL	62500
DL456360PL537113	DANBY LAKE	CA	PL	24000
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DL821650PL561004	DARWIN	CA	PL	62500
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DL497580HP547587	DEEPWELL RANCH	CA	HP	24000
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DL453540MS536392	DRY LAKE SE	NV	MS	24000
DL453540TR536395	DRY LAKE SE	NV	MT	24000
DL453540NV536393	DRY LAKE SE	NV	NV	24000
DL453540PL536394	DRY LAKE SE	NV	PL	24000
DL453540TR536395	DRY LAKE SE	NV	RD	24000
DL453540TR536395	DRY LAKE SE	NV	RR	24000
DL453540SC536396	DRY LAKE SE	NV	SC	24000
DL453540SM536397	DRY LAKE SE	NV	SM	24000
DL821630BD560999	DRY MOUNTAIN	CA	BD	62500
DL821630PL561000	DRY MOUNTAIN	CA	PL	62500
DL497560BD547568	DUCOR	CA	BD	24000
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DL497560HY547570	DUCOR	CA	HY	24000
DL497560MS547571	DUCOR	CA	MS	24000
DL497560TR547574	DUCOR	CA	MT	24000
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DL497560SC547575	DUCOR	CA	SC	24000
DL497560SM547576	DUCOR	CA	SM	24000
DL468120BD539980	DUMONT DUNES	CA	BD	24000
DL468120HP539981	DUMONT DUNES	CA	HP	24000

DL468120HY539982	DUMONT DUNES	CA	HY	24000
DL468120MS539983	DUMONT DUNES	CA	MS	24000
DL468120TR539986	DUMONT DUNES	CA	MT	24000
DL468120NV539984	DUMONT DUNES	CA	NV	24000
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DL470830TR540735	DUNN	CA	MT	24000
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DL464330SC539031	DURMID	CA	SC	24000
DL464330SM539032	DURMID	CA	SM	24000
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DL818380BD560899	EAGLE MOUNTAIN	CA	BD	62500
DL469410HP540301	EAGLE MOUNTAIN	CA	HP	24000
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DL818380PL560900	EAGLE MOUNTAIN	CA	PL	62500
DL469410TR540304	EAGLE MOUNTAIN	CA	RD	24000
DL469410TR540304	EAGLE MOUNTAIN	CA	RR	24000
DL469590BD540392	EAST DECEPTION CANYON	CA	BD	62500
DL469590HP540393	EAST DECEPTION CANYON	CA	HP	24000
DL469590HY540394	EAST DECEPTION CANYON	CA	HY	24000
DL469590PL540395	EAST DECEPTION CANYON	CA	PL	62500
DL456410PL537118	EAST OF AZTEC MINES	CA	PL	24000
DL472000BD541032	EAST OF BEATTY MOUNTAIN	NV	BD	24000
DL472000HP541033	EAST OF BEATTY MOUNTAIN	NV	HP	24000
DL472000HY541034	EAST OF BEATTY MOUNTAIN	NV	HY	24000
DL472000TR541036	EAST OF BEATTY MOUNTAIN	NV	MT	24000
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DL461630PL538394	EAST OF DALE LAKE	CA	PL	24000
DL469420HP540305	EAST OF DEADMAN PASS	CA	HP	24000
DL469420HY540306	EAST OF DEADMAN PASS	CA	HY	24000
DL469420TR540307	EAST OF DEADMAN PASS	CA	MT	24000
DL469420TR540307	EAST OF DEADMAN PASS	CA	RD	24000
DL469420TR540307	EAST OF DEADMAN PASS	CA	RR	24000
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DL472040HY541049	EAST OF ECHO CANYON	CA,NV	HY	24000

DL472040TR541051	EAST OF ECHO CANYON	CA,NV	MT	24000
DL472040PL541050	EAST OF ECHO CANYON	CA,NV	PL	24000
DL472040TR541051	EAST OF ECHO CANYON	CA,NV	RD	24000
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DL474770HP541848	EAST OF GOLDSTONE	CA	HP	24000
DL474770HY541849	EAST OF GOLDSTONE	CA	HY	24000
DL474770MS541850	EAST OF GOLDSTONE	CA	MS	24000
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DL474770PL541852	EAST OF GOLDSTONE	CA	PL	24000
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DL456280PL537106	EAST OF GROTTO HILLS	CA	PL	24000
DL453640BD536479	EAST OF HOMER MOUNTAIN	CA,NV	BD	24000
DL453640PL536480	EAST OF HOMER MOUNTAIN	CA,NV	PL	24000
DL472140BD541115	EAST OF LANGFORD WELL	CA	BD	24000
DL472140HP541116	EAST OF LANGFORD WELL	CA	HP	24000
DL472140HY541117	EAST OF LANGFORD WELL	CA	HY	24000
DL472140MS541118	EAST OF LANGFORD WELL	CA	MS	24000
DL472140TR541121	EAST OF LANGFORD WELL	CA	MT	24000
DL472140NV541119	EAST OF LANGFORD WELL	CA	NV	24000
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DL472140SM541123	EAST OF LANGFORD WELL	CA	SM	24000
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DL472110HY541090	EAST OF LEACH LAKE	CA	HY	24000
DL472110MS541091	EAST OF LEACH LAKE	CA	MS	24000
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DL472100MS541082	EAST OF OWL LAKE	CA	MS	24000
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DL472050TR541054	EAST OF RYAN	CA	RR	24000
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DL464230PL538994	EAST OF SIBERIA	CA	PL	62500
DL464270BD539001	EAST OF VALLEY MOUNTAIN	CA	BD	62500
DL464270PL539002	EAST OF VALLEY MOUNTAIN	CA	PL	62500
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DL449510TR535560	ECHO BAY	NV	MT	24000
DL449510PL535559	ECHO BAY	NV	PL	24000
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DL444060PL534734	ELBOW CANYON	AZ	PL	24000
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DL452120PL536049	ELGIN SW	NV	PL	24000
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DL490170HP545668	EMERALD MOUNTAIN	CA	HP	24000
DL490170HY545669	EMERALD MOUNTAIN	CA	HY	24000
DL490170MS545670	EMERALD MOUNTAIN	CA	MS	24000
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DL820350BD560963	EMIGRANT CANYON	CA	BD	62500

DL820350PL560964	EMIGRANT CANYON	CA	PL	62500
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DL478650HY542807	EMIGRANT PASS	CA	HY	24000
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DL457630PL537418	ESSEX	CA	PL	24000
DL815140PL560796	ESSEX	CA	PL	62500
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DL491390BD545936	FAIRVIEW	CA	BD	24000
DL491390HP545937	FAIRVIEW	CA	HP	24000
DL491390HY545938	FAIRVIEW	CA	HY	24000
DL491390MS545939	FAIRVIEW	CA	MS	24000
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DL462720BD538620	FALLOUT HILLS	NV	BD	24000
DL462720PL538621	FALLOUT HILLS	NV	PL	24000
DL462710BD538618	FALLOUT HILLS NW	NV	BD	24000
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DL452160PL536057	FARRIER	NV	PL	24000
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DL457610PL537416	FENNER HILLS	CA	PL	24000
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DL477480BD542548	FIFTEENMILE VALLEY	CA	BD	24000
DL477480HP542549	FIFTEENMILE VALLEY	CA	HP	24000
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DL477480MS542551	FIFTEENMILE VALLEY	CA	MS	24000
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DL477480NV542552	FIFTEENMILE VALLEY	CA	NV	24000
DL477480PL542553	FIFTEENMILE VALLEY	CA	PL	24000
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DL452250TR536080	FIRE MOUNTAIN	AZ,NV	MT	24000
DL452250PL536079	FIRE MOUNTAIN	AZ,NV	PL	24000
DL452250TR536080	FIRE MOUNTAIN	AZ,NV	RD	24000
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DL446770BD535106	FLAT TOP MESA	NV	BD	24000
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DL448290PL535341	FRANCONIA	AZ	PL	62500
DL470720BD540649	FRANKLIN WELL	CA,NV	BD	24000

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DL470720HY540651	FRANKLIN WELL	CA,NV	HY	24000
DL470720TR540653	FRANKLIN WELL	CA,NV	MT	24000
DL470720PL540652	FRANKLIN WELL	CA,NV	PL	24000
DL470720TR540653	FRANKLIN WELL	CA,NV	RD	24000
DL470720TR540653	FRANKLIN WELL	CA,NV	RR	24000
DL496440BD547361	FRAZIER MOUNTAIN	CA	BD	24000
DL496440PL547362	FRAZIER MOUNTAIN	CA	PL	24000
DL486420BD544673	FREEMAN JUNCTION	CA	BD	24000
DL486420PL544674	FREEMAN JUNCTION	CA	PL	24000
DL821060BD560989	FREMONT PEAK	CA	BD	62500
DL481390PL543493	FREMONT PEAK	CA	PL	24000
DL821060PL560990	FREMONT PEAK	CA	PL	62500
DL465380BD539282	FRENCHMAN LAKE	NV	BD	24000
DL465380PL539283	FRENCHMAN LAKE	NV	PL	24000
DL464060BD538955	FRENCHMAN LAKE SE	NV	BD	24000
DL464060PL538956	FRENCHMAN LAKE SE	NV	PL	24000
DL454890BD536729	FRENCHMAN MOUNTAIN	NV	BD	24000
DL454890HP536730	FRENCHMAN MOUNTAIN	NV	HP	24000
DL454890HY536731	FRENCHMAN MOUNTAIN	NV	HY	24000
DL454890MS536732	FRENCHMAN MOUNTAIN	NV	MS	24000
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DL454890TR536735	FRENCHMAN MOUNTAIN	NV	RD	24000
DL454890TR536735	FRENCHMAN MOUNTAIN	NV	RR	24000
DL454890SC536736	FRENCHMAN MOUNTAIN	NV	SC	24000
DL454890SM536737	FRENCHMAN MOUNTAIN	NV	SM	24000
DL465610HP539321	FRIED LIVER WASH	CA	HP	24000
DL465610HY539322	FRIED LIVER WASH	CA	HY	24000
DL461690BD538402	FRINK NE	CA	BD	62500
DL461690PL538403	FRINK NE	CA	PL	62500
DL463010BD538715	FRINK NW	CA	BD	24000
DL463010BD538716	FRINK NW	CA	BD	24000
DL463010HP538719	FRINK NW	CA	HP	24000
DL463010HP538720	FRINK NW	CA	HP	24000
DL463010HY538721	FRINK NW	CA	HY	24000
DL463010MS538722	FRINK NW	CA	MS	24000
DL463010TR538728	FRINK NW	CA	MT	24000
DL463010NV538723	FRINK NW	CA	NV	24000
DL463010PL538726	FRINK NW	CA	PL	24000
DL463010PL538727	FRINK NW	CA	PL	24000
DL463010TR538728	FRINK NW	CA	RD	24000
DL463010TR538728	FRINK NW	CA	RR	24000
DL463010SC538729	FRINK NW	CA	SC	24000
DL463010SM538730	FRINK NW	CA	SM	24000
DL473510BD541531	FRY MOUNTAINS	CA	BD	62500
DL473510PL541532	FRY MOUNTAINS	CA	PL	62500
DL819040BD560923	FUNERAL PEAK	CA	BD	62500
DL472070HP541060	FUNERAL PEAK	CA	HP	24000
DL472070HY541061	FUNERAL PEAK	CA	HY	24000
DL472070TR541062	FUNERAL PEAK	CA	MT	24000
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DL819690BD560943	FURNACE CREEK	CA	BD	62500
DL819690PL560944	FURNACE CREEK	CA	PL	62500
DL485200BD544401	GALILEO HILL	CA	BD	24000
DL485200PL544402	GALILEO HILL	CA	PL	24000
DL470870BD540740	GALWAY LAKE	CA	BD	24000
DL470870PL540741	GALWAY LAKE	CA	PL	24000
DL448080BD535312	GARDEN SPRING	NV	BD	24000
DL448080PL535313	GARDEN SPRING	NV	PL	24000
DL485180BD544397	GARLOCK	CA	BD	24000
DL485180PL544398	GARLOCK	CA	PL	24000
DL446840BD535123	GARNET MOUNTAIN NW	AZ	BD	24000

DL446840TR535124	GARNET MOUNTAIN NW	AZ	MT	24000
DL446840TR535124	GARNET MOUNTAIN NW	AZ	RD	24000
DL446840TR535124	GARNET MOUNTAIN NW	AZ	RR	24000
DL448170BD535333	GARRETT BUTTE	NV,AZ	BD	24000
DL448170TR535335	GARRETT BUTTE	NV,AZ	MT	24000
DL448170PL535334	GARRETT BUTTE	NV,AZ	PL	24000
DL448170TR535335	GARRETT BUTTE	NV,AZ	RD	24000
DL448170TR535335	GARRETT BUTTE	NV,AZ	RR	24000
DL457490BD537332	GASS PEAK	NV	BD	24000
DL457490HP537333	GASS PEAK	NV	HP	24000
DL457490HY537334	GASS PEAK	NV	HY	24000
DL457490MS537335	GASS PEAK	NV	MS	24000
DL457490TR537338	GASS PEAK	NV	MT	24000
DL457490NV537336	GASS PEAK	NV	NV	24000
DL457490PL537337	GASS PEAK	NV	PL	24000
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DL457490SC537339	GASS PEAK	NV	SC	24000
DL457490SM537340	GASS PEAK	NV	SM	24000
DL456180BD537016	GASS PEAK NE	NV	BD	24000
DL456180HP537017	GASS PEAK NE	NV	HP	24000
DL456180HY537018	GASS PEAK NE	NV	HY	24000
DL456180MS537019	GASS PEAK NE	NV	MS	24000
DL456180TR537022	GASS PEAK NE	NV	MT	24000
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DL456180SC537023	GASS PEAK NE	NV	SC	24000
DL456180SM537024	GASS PEAK NE	NV	SM	24000
DL457500BD537341	GASS PEAK SW	NV	BD	24000
DL457500HP537342	GASS PEAK SW	NV	HP	24000
DL457500HY537343	GASS PEAK SW	NV	HY	24000
DL457500MS537344	GASS PEAK SW	NV	MS	24000
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DL457500SC537348	GASS PEAK SW	NV	SC	24000
DL457500SM537349	GASS PEAK SW	NV	SM	24000
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DL446970HY535132	GENE WASH	CA,AZ	HY	24000
DL446970TR535134	GENE WASH	CA,AZ	MT	24000
DL446970PL535133	GENE WASH	CA,AZ	PL	24000
DL446970TR535134	GENE WASH	CA,AZ	RD	24000
DL446970TR535134	GENE WASH	CA,AZ	RR	24000
DL446970SC535135	GENE WASH	CA,AZ	SC	24000
DL446970SM535136	GENE WASH	CA,AZ	SM	24000
DL496290TR547211	GENERAL GRANT GROVE	CA	MT	24000
DL496290TR547211	GENERAL GRANT GROVE	CA	RD	24000
DL496290TR547211	GENERAL GRANT GROVE	CA	RR	24000
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DL495130HP546867	GIBBON PEAK	CA	HP	24000
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DL495130MS546869	GIBBON PEAK	CA	MS	24000
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DL495130TR546872	GIBBON PEAK	CA	RR	24000
DL495130SC546873	GIBBON PEAK	CA	SC	24000
DL495130SM546874	GIBBON PEAK	CA	SM	24000

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DL485280HY544418	GLENDORA	CA	HY 24000
DL485280TR544420	GLENDORA	CA	MT 24000
DL485280PL544419	GLENDORA	CA	PL 24000
DL485280TR544420	GLENDORA	CA	RD 24000
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DL493940HP546579	GLENNVILLE	CA	HP 24000
DL493940HY546580	GLENNVILLE	CA	HY 24000
DL493940MS546581	GLENNVILLE	CA	MS 24000
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DL469560BD540384	GOAT MOUNTAIN	CA	BD 24000
DL469560PL540385	GOAT MOUNTAIN	CA	PL 24000
DL446810BD535115	GOLD BUTTE	NV	BD 24000
DL446810TR535117	GOLD BUTTE	NV	MT 24000
DL446810PL535116	GOLD BUTTE	NV	PL 24000
DL446810TR535117	GOLD BUTTE	NV	RD 24000
DL446810TR535117	GOLD BUTTE	NV	RR 24000
DL479900BD543107	GOLD POINT	NV	BD 24000
DL479900PL543108	GOLD POINT	NV	PL 24000
DL481220BD543456	GOLD POINT SW	NV	BD 24000
DL481220PL543457	GOLD POINT SW	NV	PL 24000
DL473390BD541453	GOLD VALLEY	CA	BD 24000
DL473390HP541454	GOLD VALLEY	CA	HP 24000
DL473390HY541455	GOLD VALLEY	CA	HY 24000
DL473390TR541457	GOLD VALLEY	CA	MT 24000
DL473390PL541456	GOLD VALLEY	CA	PL 24000
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DL476090SC542214	GOLDSTONE	CA	SC 24000
DL476090SM542215	GOLDSTONE	CA	SM 24000
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DL819730PL560952	GOLDSTONE LAKE	CA	PL 62500
DL444010BD534727	GOLDSTRIKE	UT	BD 24000
DL444010PL534728	GOLDSTRIKE	UT	PL 24000
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DL460180HP538024	GOODSPRINGS	NV	HP 24000
DL460180HY538025	GOODSPRINGS	NV	HY 24000
DL460180MS538026	GOODSPRINGS	NV	MS 24000
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DL460180SC538030	GOODSPRINGS	NV	SC 24000
DL460180SM538031	GOODSPRINGS	NV	SM 24000
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DL497610HP547614	GOSFORD	CA	HP 24000
DL497610HY547615	GOSFORD	CA	HY 24000
DL497610MS547616	GOSFORD	CA	MS 24000
DL497610TR547619	GOSFORD	CA	MT 24000
DL497610NV547617	GOSFORD	CA	NV 24000

DL497610PL547618	GOSFORD	CA	PL	24000
DL497610TR547619	GOSFORD	CA	RD	24000
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DL497610SC547620	GOSFORD	CA	SC	24000
DL497610SM547621	GOSFORD	CA	SM	24000
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DL453550HP536399	GOVERNMENT WASH	NV	HP	24000
DL453550HY536400	GOVERNMENT WASH	NV	HY	24000
DL453550MS536401	GOVERNMENT WASH	NV	MS	24000
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DL453550SC536405	GOVERNMENT WASH	NV	SC	24000
DL453550SM536406	GOVERNMENT WASH	NV	SM	24000
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DL442750PL534547	GRAND GULCH BENCH	AZ	PL	24000
DL474830PL541879	GRAND VIEW MINE	CA	PL	24000
DL437350BD533667	GRANITE PARK	AZ	BD	24000
DL437350TR533668	GRANITE PARK	AZ	MT	24000
DL437350TR533668	GRANITE PARK	AZ	RD	24000
DL437350TR533668	GRANITE PARK	AZ	RR	24000
DL457680PL537423	GRANITE PASS	CA	PL	24000
DL464180PL538989	GRANITE SPRING	CA	PL	24000
DL496430BD547359	GRAPEVINE	CA	BD	24000
DL496430PL547360	GRAPEVINE	CA	PL	24000
DL444130BD534743	GRAPEVINE CANYON	AZ	BD	24000
DL444130TR534744	GRAPEVINE CANYON	AZ	MT	24000
DL444130TR534744	GRAPEVINE CANYON	AZ	RD	24000
DL444130TR534744	GRAPEVINE CANYON	AZ	RR	24000
DL820330BD560959	GRAPEVINE PEAK	NV,CA	BD	62500
DL820330PL560960	GRAPEVINE PEAK	NV,CA	PL	62500
DL460140BD537987	GRAPEVINE SPRING	NV	BD	24000
DL460140HP537988	GRAPEVINE SPRING	NV	HP	24000
DL460140HY537989	GRAPEVINE SPRING	NV	HY	24000
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DL460140SC537994	GRAPEVINE SPRING	NV	SC	24000
DL460140SM537995	GRAPEVINE SPRING	NV	SM	24000
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DL438590PL533886	GRASS VALLEY	UT	PL	48000
DL438680BD533889	GRASSY MOUNTAIN	AZ	BD	24000
DL438680TR533890	GRASSY MOUNTAIN	AZ	MT	24000
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DL438680TR533890	GRASSY MOUNTAIN	AZ	RR	24000
DL462810BD538650	GREEN MONSTER MINE	NV,CA	BD	24000
DL462810HP538651	GREEN MONSTER MINE	NV,CA	HP	24000
DL462810HY538652	GREEN MONSTER MINE	NV,CA	HY	24000
DL462810MS538653	GREEN MONSTER MINE	NV,CA	MS	24000
DL462810TR538656	GREEN MONSTER MINE	NV,CA	MT	24000
DL462810NV538654	GREEN MONSTER MINE	NV,CA	NV	24000
DL462810PL538655	GREEN MONSTER MINE	NV,CA	PL	24000
DL462810TR538656	GREEN MONSTER MINE	NV,CA	RD	24000
DL462810TR538656	GREEN MONSTER MINE	NV,CA	RR	24000
DL462810SC538657	GREEN MONSTER MINE	NV,CA	SC	24000
DL462810SM538658	GREEN MONSTER MINE	NV,CA	SM	24000
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DL491500PL546057	GREEN VALLEY	CA	PL	24000
DL472060BD541055	GREENWATER CANYON	CA	BD	24000
DL472060HP541056	GREENWATER CANYON	CA	HP	24000
DL472060HY541057	GREENWATER CANYON	CA	HY	24000

DL472060TR541059	GREENWATER CANYON	CA	MT	24000
DL472060PL541058	GREENWATER CANYON	CA	PL	24000
DL472060TR541059	GREENWATER CANYON	CA	RD	24000
DL472060TR541059	GREENWATER CANYON	CA	RR	24000
DL453460BD536359	GREGERSON BASIN	NV	BD	24000
DL453460PL536360	GREGERSON BASIN	NV	PL	24000
DL462790BD538634	GRIFFITH PEAK	NV	BD	24000
DL462790HP538635	GRIFFITH PEAK	NV	HP	24000
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DL452380PL536137	GROMMET	CA	PL	24000
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DL465330BD539265	GROOM MINE NW	NV	BD	24000
DL465330BD539266	GROOM MINE NW	NV	BD	62500
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DL462700BD538616	GROOM RANGE SW	NV	BD	24000
DL462700PL538617	GROOM RANGE SW	NV	PL	24000
DL457590PL537414	GROTTO HILLS	CA	PL	24000
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DL442670BD534536	GUNLOCK	UT	BD	24000
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DL444100BD534737	GYP HILLS	AZ	BD	24000
DL444100TR534738	GYP HILLS	AZ	MT	24000
DL444100TR534738	GYP HILLS	AZ	RD	24000
DL444100TR534738	GYP HILLS	AZ	RR	24000
DL457600PL537415	HACKBERRY MOUNTAIN	CA	PL	24000
DL487620PL544957	HAIWEE PASS	CA	PL	24000
DL822290BD561023	HAIWEE RESERVOIR	CA	BD	62500
DL822290PL561024	HAIWEE RESERVOIR	CA	PL	62500
DL817090BD560867	HALLORAN SPRING	CA	BD	62500
DL817090PL560868	HALLORAN SPRING	CA	PL	62500
DL465500PL539302	HALLORAN SPRINGS	CA	PL	24000
DL483780BD544113	HANGING ROCK CANYON	CA	BD	24000
DL483780HP544114	HANGING ROCK CANYON	CA	HP	24000
DL483780HY544115	HANGING ROCK CANYON	CA	HY	24000
DL483780TR544117	HANGING ROCK CANYON	CA	MT	24000
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DL481280BD543468	HARRIS HILL	CA	BD	24000
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DL481280HY543470	HARRIS HILL	CA	HY	24000
DL481280TR543472	HARRIS HILL	CA	MT	24000
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DL478820TR542896	HARRISON MOUNTAIN	CA	MT	24000
DL478820NV542894	HARRISON MOUNTAIN	CA	NV	24000
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DL456270HP537098	HART PEAK	CA,NV	HP 24000
DL456270HY537099	HART PEAK	CA,NV	HY 24000
DL456270MS537100	HART PEAK	CA,NV	MS 24000
DL456270TR537103	HART PEAK	CA,NV	MT 24000
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DL456270TR537103	HART PEAK	CA,NV	RR 24000
DL456270SC537104	HART PEAK	CA,NV	SC 24000
DL456270SM537105	HART PEAK	CA,NV	SM 24000
DL473480PL541527	HARVARD HILL	CA	PL 24000
DL434560BD533214	HAT KNOLL	AZ	BD 24000
DL434560PL533215	HAT KNOLL	AZ	PL 24000
DL449660BD535584	HAVASU LAKE	CA,AZ	BD 24000
DL449660HY535585	HAVASU LAKE	CA,AZ	HY 24000
DL449660TR535587	HAVASU LAKE	CA,AZ	MT 24000
DL449660PL535586	HAVASU LAKE	CA,AZ	PL 24000
DL449660TR535587	HAVASU LAKE	CA,AZ	RD 24000
DL449660TR535587	HAVASU LAKE	CA,AZ	RR 24000
DL449660SC535588	HAVASU LAKE	CA,AZ	SC 24000
DL449660SM535589	HAVASU LAKE	CA,AZ	SM 24000
DL461560PL538385	HAYDEN	CA	PL 24000
DL816500BD560855	HAYFIELD	CA	BD 62500
DL462990HP538711	HAYFIELD	CA	HP 24000
DL462990HY538712	HAYFIELD	CA	HY 24000
DL816500PL560856	HAYFIELD	CA	PL 62500
DL456170BD537007	HAYFORD PEAK SE	NV	BD 24000
DL456170HP537008	HAYFORD PEAK SE	NV	HP 24000
DL456170HY537009	HAYFORD PEAK SE	NV	HY 24000
DL456170MS537010	HAYFORD PEAK SE	NV	MS 24000
DL456170TR537013	HAYFORD PEAK SE	NV	MT 24000
DL456170NV537011	HAYFORD PEAK SE	NV	NV 24000
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DL456170TR537013	HAYFORD PEAK SE	NV	RD 24000
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DL480110PL543159	HELENDALE	CA	PL 24000
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DL476220PL542251	HEMET	CA	PL 24000
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DL445420PL534919	HEN SPRING	NV,AZ	PL 24000
DL454900BD536738	HENDERSON	NV	BD 24000
DL454900HP536739	HENDERSON	NV	HP 24000
DL454900HY536740	HENDERSON	NV	HY 24000
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DL454900PL536743	HENDERSON	NV	PL 24000
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DL454900SM536746	HENDERSON	NV	SM 24000
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DL480130HY543171	HESPERIA	CA	HY 24000
DL480130MS543172	HESPERIA	CA	MS 24000
DL480130TR543175	HESPERIA	CA	MT 24000

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DL817150PL560874	HEXIE MOUNTAINS	CA	PL	62500
DL485240BD544409	HI VISTA	CA	BD	24000
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DL469550PL540383	HIDALGO MOUNTAIN	CA	PL	24000
DL464120BD538972	HIDDEN HILLS RANCH	NV	BD	24000
DL464120HP538973	HIDDEN HILLS RANCH	NV	HP	24000
DL464120MS538974	HIDDEN HILLS RANCH	NV	MS	24000
DL464120TR538977	HIDDEN HILLS RANCH	NV	MT	24000
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DL464120PL538976	HIDDEN HILLS RANCH	NV	PL	24000
DL464120TR538977	HIDDEN HILLS RANCH	NV	RD	24000
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DL464120SM538978	HIDDEN HILLS RANCH	NV	SM	24000
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DL476060MS542184	HIDDEN SPRING	CA	MS	24000
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DL457540MS537380	HIDDEN VALLEY	NV	MS	24000
DL457540TR537383	HIDDEN VALLEY	NV	MT	24000
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DL457540PL537382	HIDDEN VALLEY	NV	PL	24000
DL457540TR537383	HIDDEN VALLEY	NV	RD	24000
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DL457540SM537385	HIDDEN VALLEY	NV	SM	24000
DL469510PL540377	HIDDEN VALLEY EAST	CA	PL	24000
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DL468070PL539963	HIGH PEAK	NV,CA	PL	24000
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DL456250HP537080	HIGHLAND SPRING	NV	HP	24000
DL456250HY537081	HIGHLAND SPRING	NV	HY	24000
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DL456250SM537087	HIGHLAND SPRING	NV	SM	24000
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DL446830PL535122	HILLER MOUNTAINS	NV,AZ	PL	24000
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DL478760PL542851	HINKLEY	CA	PL	24000
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DL490270HY545758	HOLLYWOOD	CA	HY	24000
DL490270PL545759	HOLLYWOOD	CA	PL	24000

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DL454990PL536813	HOMER	CA	PL	24000
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DL454980PL536811	HOMER MOUNTAIN	CA	PL	24000
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DL814460PL560768	HOMER MOUNTAIN	CA,NV	PL	48000
DL481330PL543478	HOMEWOOD CANYON	CA	PL	24000
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DL452220PL536070	HOOVER DAM	NV,AZ	PL	24000
DL452220TR536071	HOOVER DAM	NV,AZ	RD	24000
DL452220TR536071	HOOVER DAM	NV,AZ	RR	24000
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DL455100PL536831	HOPKINS WELL	CA	PL	24000
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DL456260HY537090	HOPPS WELL	NV,CA	HY	24000
DL456260MS537091	HOPPS WELL	NV,CA	MS	24000
DL456260TR537094	HOPPS WELL	NV,CA	MT	24000
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DL456260PL537093	HOPPS WELL	NV,CA	PL	24000
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DL456260TR537094	HOPPS WELL	NV,CA	RR	24000
DL456260SC537095	HOPPS WELL	NV,CA	SC	24000
DL456260SM537096	HOPPS WELL	NV,CA	SM	24000
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DL453710PL536490	HORN SPRING	CA	PL	24000
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DL465420PL539291	HORSE SPRINGS	NV	PL	24000
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DL817070PL560864	HORSE THIEF SPRINGS	CA,NV	PL	62500
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DL469440HY540319	IBEX PASS	CA	HY	24000
DL469440MS540320	IBEX PASS	CA	MS	24000
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DL445460TR534929	ICEBERG CANYON	NV,AZ	RD	24000
DL445460TR534929	ICEBERG CANYON	NV,AZ	RR	24000
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DL819140PL560936	IDYLLWILD	CA	PL	48000
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DL468250PL540042	INDIAN COVE	CA	PL	24000
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DL462750BD538626	INDIAN SPRINGS NW	NV	BD	24000
DL462750PL538627	INDIAN SPRINGS NW	NV	PL	24000
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DL461440HP538287	INDIAN SPRINGS SE	NV	HP	24000
DL461440HY538288	INDIAN SPRINGS SE	NV	HY	24000
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DL453600MS536446	IRETEBA PEAKS	NV	MS	24000
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DL460370PL538085	IRIS PASS	CA	PL	62500
DL815160BD560799	IRON MOUNTAINS	CA	BD	62500
DL457670PL537422	IRON MOUNTAINS	CA	PL	24000
DL815160PL560800	IRON MOUNTAINS	CA	PL	62500
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DL472190PL541136	IRON RIDGE	CA	PL	62500
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DL460200HP538042	IVANPAH LAKE	CA,NV	HP	24000
DL460200HY538043	IVANPAH LAKE	CA,NV	HY	24000
DL460200MS538044	IVANPAH LAKE	CA,NV	MS	24000
DL460200TR538047	IVANPAH LAKE	CA,NV	MT	24000
DL460200NV538045	IVANPAH LAKE	CA,NV	NV	24000
DL460200PL538046	IVANPAH LAKE	CA,NV	PL	24000
DL460200TR538047	IVANPAH LAKE	CA,NV	RD	24000
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DL465350PL539274	JANGLE RIDGE	NV	PL	24000
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DL458860MS537714	JEAN	NV	MS	24000
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DL469580PL540391	JOSHUA TREE SOUTH	CA	PL	24000
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DL453630HP536471	JUNIPER MINE	NV,CA	HP	24000
DL453630HY536472	JUNIPER MINE	NV,CA	HY	24000
DL453630MS536473	JUNIPER MINE	NV,CA	MS	24000
DL453630TR536476	JUNIPER MINE	NV,CA	MT	24000
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DL453630PL536475	JUNIPER MINE	NV,CA	PL	24000
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DL492730HP546311	KEENE	CA	HP	24000
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DL477500MS542569	KELLER PEAK	CA	MS	24000
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DL480080PL543150	LOCKHART	CA	PL	24000
DL480080TR543151	LOCKHART	CA	RD	24000
DL480080TR543151	LOCKHART	CA	RR	24000
DL480080SC543152	LOCKHART	CA	SC	24000
DL480080SM543153	LOCKHART	CA	SM	24000
DL497660BD547642	LOCKWOOD VALLEY	CA	BD	24000
DL497660PL547643	LOCKWOOD VALLEY	CA	PL	24000
DL493870TR546557	LODGEPOLE	CA	MT	24000
DL493870TR546557	LODGEPOLE	CA	RD	24000
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DL482630PL543816	LONE BUTTE	CA	PL	24000
DL487590PL544954	LONE PINE	CA	PL	24000
DL545930BD560717	LONG BEACH	CA	BD	24000
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DL487630PL544958	LONG CANYON	CA	PL	24000
DL491440BD545981	LORAINE	CA	BD	24000
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DL491440HY545983	LORAINE	CA	HY	24000
DL491440MS545984	LORAINE	CA	MS	24000
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DL487810BD545072	LOS ALAMITOS	CA	BD	24000
DL487810PL545073	LOS ALAMITOS	CA	PL	24000
DL489030BD545437	LOS ANGELES	CA	BD	24000

DL489030HY545438	LOS ANGELES	CA	HY	24000
DL489030TR545440	LOS ANGELES	CA	MT	24000
DL489030PL545439	LOS ANGELES	CA	PL	24000
DL489030TR545440	LOS ANGELES	CA	RD	24000
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DL462800BD538641	LOST CABIN SPRING	NV	BD	24000
DL462800HP538642	LOST CABIN SPRING	NV	HP	24000
DL462800HY538643	LOST CABIN SPRING	NV	HY	24000
DL462800MS538644	LOST CABIN SPRING	NV	MS	24000
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DL817810PL560892	LOST HORSE MOUNTAIN	CA	PL	62500
DL485250BD544411	LOVEJOY BUTTES	CA	BD	24000
DL485250PL544412	LOVEJOY BUTTES	CA	PL	24000
DL456120BD536999	LOWER PAHRANAGAT LAKE	NV	BD	24000
DL456120PL537000	LOWER PAHRANAGAT LAKE	NV	PL	24000
DL457430BD537315	LOWER PAHRANAGAT LAKE NW	NV	BD	24000
DL457430PL537316	LOWER PAHRANAGAT LAKE NW	NV	PL	24000
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DL476160PL542239	LUCERNE VALLEY	CA	PL	24000
DL468200BD540029	LUDLOW	CA	BD	24000
DL468200PL540030	LUDLOW	CA	PL	24000
DL466880BD539702	LUDLOW SE	CA	BD	24000
DL466880PL539703	LUDLOW SE	CA	PL	24000
DL449440BD535542	LYMAN CROSSING	NV	BD	24000
DL449440PL535543	LYMAN CROSSING	NV	PL	24000
DL821610BD560995	MAGRUDER MOUNTAIN	NV,CA	BD	62500
DL821610PL560996	MAGRUDER MOUNTAIN	NV,CA	PL	62500
DL466930BD539714	MALAPAI HILL	CA	BD	24000
DL466930HP539715	MALAPAI HILL	CA	HP	24000
DL466930HY539716	MALAPAI HILL	CA	HY	24000
DL466930PL539719	MALAPAI HILL	CA	PL	24000
DL466930PL539720	MALAPAI HILL	CA	PL	62500
DL494070HP546659	MALIBU BEACH	CA	HP	24000
DL494070HY546660	MALIBU BEACH	CA	HY	24000
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DL478680HP542821	MANLY FALL	CA	HP	24000
DL478680HY542822	MANLY FALL	CA	HY	24000
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DL478680TR542824	MANLY FALL	CA	RR	24000
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DL820370BD560967	MANLY PEAK	CA	BD	62500
DL477360HP542507	MANLY PEAK	CA	HP	24000
DL477360HY542508	MANLY PEAK	CA	HY	24000
DL477360TR542510	MANLY PEAK	CA	MT	24000
DL477360PL542509	MANLY PEAK	CA	PL	24000
DL820370PL560968	MANLY PEAK	CA	PL	62500
DL477360TR542510	MANLY PEAK	CA	RD	24000
DL477360TR542510	MANLY PEAK	CA	RR	24000
DL442660BD534534	MAPLE RIDGE	UT	BD	24000
DL442660PL534535	MAPLE RIDGE	UT	PL	24000
DL821000BD560979	MARBLE CANYON	CA	BD	62500
DL821000PL560980	MARBLE CANYON	CA	PL	62500
DL481530BD543538	MARGARITA PEAK	CA	BD	24000

DL481530PL543539	MARGARITA PEAK	CA	PL	24000
DL492590TR546247	MARION PEAK	CA	MT	24000
DL492590TR546247	MARION PEAK	CA	RD	24000
DL492590TR546247	MARION PEAK	CA	RR	24000
DL462870PL538695	MARL MOUNTAINS	CA	PL	24000
DL469620BD540400	MARTINEZ MOUNTAIN	CA	BD	48000
DL469620PL540401	MARTINEZ MOUNTAIN	CA	PL	48000
DL455040PL536819	MARTINS WELL	CA	PL	24000
DL821020BD560983	MATURANGO PEAK	CA	BD	62500
DL821020PL560984	MATURANGO PEAK	CA	PL	62500
DL479990BD543120	MATURANGO PEAK NE	CA	BD	24000
DL479990HP543121	MATURANGO PEAK NE	CA	HP	24000
DL479990HY543122	MATURANGO PEAK NE	CA	HY	24000
DL479990TR543124	MATURANGO PEAK NE	CA	MT	24000
DL479990PL543123	MATURANGO PEAK NE	CA	PL	24000
DL479990TR543124	MATURANGO PEAK NE	CA	RD	24000
DL479990TR543124	MATURANGO PEAK NE	CA	RR	24000
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DL453750PL536498	MCCOY PEAK	CA	PL	24000
DL455090BD536828	MCCOY SPRING	CA	BD	24000
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DL452410SM536150	MCCOY WASH	CA	SM	24000
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DL457560HP537396	MCCULLOUGH MOUNTAIN	NV	HP	24000
DL457560HY537397	MCCULLOUGH MOUNTAIN	NV	HY	24000
DL457560MS537398	MCCULLOUGH MOUNTAIN	NV	MS	24000
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DL457560NV537399	MCCULLOUGH MOUNTAIN	NV	NV	24000
DL457560PL537400	MCCULLOUGH MOUNTAIN	NV	PL	24000
DL457560TR537401	MCCULLOUGH MOUNTAIN	NV	RD	24000
DL457560TR537401	MCCULLOUGH MOUNTAIN	NV	RR	24000
DL457560SC537402	MCCULLOUGH MOUNTAIN	NV	SC	24000
DL457560SM537403	MCCULLOUGH MOUNTAIN	NV	SM	24000
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DL456240HP537071	MCCULLOUGH MOUNTAIN NE	NV	HP	24000
DL456240HY537072	MCCULLOUGH MOUNTAIN NE	NV	HY	24000
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DL456240TR537076	MCCULLOUGH MOUNTAIN NE	NV	MT	24000
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DL457550HY537388	MCCULLOUGH PASS	NV	HY	24000
DL457550MS537389	MCCULLOUGH PASS	NV	MS	24000
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DL457550PL537391	MCCULLOUGH PASS	NV	PL	24000
DL457550TR537392	MCCULLOUGH PASS	NV	RD	24000
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DL457550SC537393	MCCULLOUGH PASS	NV	SC	24000
DL457550SM537394	MCCULLOUGH PASS	NV	SM	24000
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DL445470TR534932	MEADVIEW NORTH	AZ,NV	MT	24000
DL445470PL534931	MEADVIEW NORTH	AZ,NV	PL	24000
DL445470TR534932	MEADVIEW NORTH	AZ,NV	RD	24000
DL445470TR534932	MEADVIEW NORTH	AZ,NV	RR	24000
DL445480BD534933	MEADVIEW SOUTH	AZ	BD	24000
DL445480TR534934	MEADVIEW SOUTH	AZ	MT	24000
DL445480TR534934	MEADVIEW SOUTH	AZ	RD	24000
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DL466960PL539726	MECCA	CA	PL	24000
DL472200BD541137	MELVILLE LAKE	CA	BD	24000
DL472200PL541138	MELVILLE LAKE	CA	PL	24000
DL465390BD539284	MERCURY	NV	BD	24000
DL465390PL539285	MERCURY	NV	PL	24000
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DL464070PL538958	MERCURY NE	NV	PL	24000
DL464080BD538959	MERCURY SE	NV	BD	24000
DL464080PL538960	MERCURY SE	NV	PL	24000
DL484000BD544149	MESCAL CREEK	CA	BD	24000
DL484000PL544150	MESCAL CREEK	CA	PL	24000
DL461530BD538367	MESCAL RANGE	CA	BD	24000
DL816430BD560843	MESCAL RANGE	CA	BD	62500
DL461530HP538368	MESCAL RANGE	CA	HP	24000
DL461530HY538369	MESCAL RANGE	CA	HY	24000
DL461530MS538370	MESCAL RANGE	CA	MS	24000
DL461530TR538373	MESCAL RANGE	CA	MT	24000
DL461530NV538371	MESCAL RANGE	CA	NV	24000
DL461530PL538372	MESCAL RANGE	CA	PL	24000
DL816430PL560844	MESCAL RANGE	CA	PL	62500
DL461530TR538373	MESCAL RANGE	CA	RD	24000
DL461530TR538373	MESCAL RANGE	CA	RR	24000
DL461530SC538374	MESCAL RANGE	CA	SC	24000
DL461530SM538375	MESCAL RANGE	CA	SM	24000
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DL445410PL534917	MESQUITE	NV,AZ	PL	24000
DL461510BD538349	MESQUITE LAKE	CA,NV	BD	24000
DL461510HP538350	MESQUITE LAKE	CA,NV	HP	24000
DL461510HY538351	MESQUITE LAKE	CA,NV	HY	24000
DL461510MS538352	MESQUITE LAKE	CA,NV	MS	24000
DL461510TR538355	MESQUITE LAKE	CA,NV	MT	24000
DL461510NV538353	MESQUITE LAKE	CA,NV	NV	24000
DL461510PL538354	MESQUITE LAKE	CA,NV	PL	24000
DL461510TR538355	MESQUITE LAKE	CA,NV	RD	24000
DL461510TR538355	MESQUITE LAKE	CA,NV	RR	24000
DL461510SC538356	MESQUITE LAKE	CA,NV	SC	24000
DL461510SM538357	MESQUITE LAKE	CA,NV	SM	24000
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DL445400BD534911	MESQUITE NE	NV,AZ	BD	62500
DL445400PL534914	MESQUITE NE	NV,AZ	PL	24000
DL445400PL534915	MESQUITE NE	NV,AZ	PL	62500
DL446760BD535104	MESQUITE NW	NV	BD	62500
DL446760PL535105	MESQUITE NW	NV	PL	62500
DL496420BD547335	METTLER	CA	BD	24000
DL496420HP547338	METTLER	CA	HP	24000
DL496420HP547339	METTLER	CA	HP	24000
DL496420HY547342	METTLER	CA	HY	24000
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DL496420MS547346	METTLER	CA	MS	24000
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DL496420TR547353	METTLER	CA	MT	24000
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DL496420NV547348	METTLER	CA	NV	24000
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DL496420SC547356	METTLER	CA	SC	24000
DL496420SC547357	METTLER	CA	SC	24000
DL496420SM547358	METTLER	CA	SM	24000
DL815780BD560815	MID HILLS	CA	BD	48000
DL460230PL538068	MID HILLS	CA	PL	24000
DL815780PL560816	MID HILLS	CA	PL	48000
DL449520BD535561	MIDDLE POINT	NV,AZ	BD	24000
DL449520TR535563	MIDDLE POINT	NV,AZ	MT	24000
DL449520PL535562	MIDDLE POINT	NV,AZ	PL	24000
DL449520TR535563	MIDDLE POINT	NV,AZ	RD	24000
DL449520TR535563	MIDDLE POINT	NV,AZ	RR	24000
DL814510BD560777	MIDLAND	CA	BD	62500
DL814510PL560778	MIDLAND	CA	PL	62500
DL815150BD560797	MILLIGAN	CA	BD	62500
DL457660PL537421	MILLIGAN	CA	PL	24000
DL815150PL560798	MILLIGAN	CA	PL	62500
DL468020BD539957	MINE MOUNTAIN	NV	BD	24000
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DL468020TR539961	MINE MOUNTAIN	NV	RD	24000
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DL460210BD538050	MINERAL HILL	CA	BD	24000
DL460210HP538051	MINERAL HILL	CA	HP	24000
DL460210HY538052	MINERAL HILL	CA	HY	24000
DL460210MS538053	MINERAL HILL	CA	MS	24000
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DL492700BD546280	MIRACLE HOT SPRINGS	CA	BD	24000
DL492700HP546281	MIRACLE HOT SPRINGS	CA	HP	24000
DL492700HY546282	MIRACLE HOT SPRINGS	CA	HY	24000
DL492700MS546283	MIRACLE HOT SPRINGS	CA	MS	24000
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DL492700SM546288	MIRACLE HOT SPRINGS	CA	SM	24000
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DL450830PL535763	MOAPA EAST	NV	PL	24000
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DL452170BD536058	MOAPA WEST	NV	BD	24000
DL452170PL536059	MOAPA WEST	NV	PL	24000
DL450910BD535781	MOHAVE MINE	AZ	BD	24000
DL450910TR535782	MOHAVE MINE	AZ	MT	24000

DL450910TR535782	MOHAVE MINE	AZ	RD	24000
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DL453690PL536487	MOHAWK SPRING	CA	PL	24000
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DL488950BD545394	MOJAVE	CA	BD	24000
DL488950HP545397	MOJAVE	CA	HP	24000
DL488950HP545398	MOJAVE	CA	HP	24000
DL488950HY545401	MOJAVE	CA	HY	24000
DL488950HY545402	MOJAVE	CA	HY	24000
DL488950MS545405	MOJAVE	CA	MS	24000
DL488950MS545406	MOJAVE	CA	MS	24000
DL488950TR545415	MOJAVE	CA	MT	24000
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DL488950SC545419	MOJAVE	CA	SC	24000
DL488950SM545420	MOJAVE	CA	SM	24000
DL487700BD545025	MOJAVE NE	CA	BD	24000
DL487700HY545026	MOJAVE NE	CA	HY	24000
DL487700MS545027	MOJAVE NE	CA	MS	24000
DL487700TR545030	MOJAVE NE	CA	MT	24000
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DL487700SC545031	MOJAVE NE	CA	SC	24000
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DL490190HP545711	MONOLITH	CA	HP	24000
DL490190HP545712	MONOLITH	CA	HP	24000
DL490190HY545715	MONOLITH	CA	HY	24000
DL490190HY545716	MONOLITH	CA	HY	24000
DL490190MS545719	MONOLITH	CA	MS	24000
DL490190MS545720	MONOLITH	CA	MS	24000
DL490190TR545734	MONOLITH	CA	MT	24000
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DL453700PL536488	MOPAH PEAKS	CA	PL	24000
DL468210BD540031	MORGANS WELL	CA	BD	24000
DL468210PL540032	MORGANS WELL	CA	PL	24000
DL435930BD533443	MORIAH KNOLL	AZ	BD	24000
DL435930PL533444	MORIAH KNOLL	AZ	PL	24000
DL472230BD541143	MORONGO VALLEY	CA	BD	24000
DL472230PL541144	MORONGO VALLEY	CA	PL	24000
DL465640BD539329	MORTMAR	CA	BD	24000
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DL493890TR546559	MOSES MOUNTAIN	CA	MT	24000
DL493890TR546559	MOSES MOUNTAIN	CA	RD	24000
DL493890TR546559	MOSES MOUNTAIN	CA	RR	24000
DL444020BD534729	MOTOQUA	UT	BD	24000
DL444020PL534730	MOTOQUA	UT	PL	24000
DL465440BD539299	MOUND SPRING	NV,CA	BD	24000
DL465440PL539300	MOUND SPRING	NV,CA	PL	24000
DL493960BD546596	MOUNT ADELAIDE	CA	BD	24000
DL493960HP546597	MOUNT ADELAIDE	CA	HP	24000
DL493960HY546598	MOUNT ADELAIDE	CA	HY	24000
DL493960MS546599	MOUNT ADELAIDE	CA	MS	24000
DL493960TR546602	MOUNT ADELAIDE	CA	MT	24000
DL493960NV546600	MOUNT ADELAIDE	CA	NV	24000
DL493960PL546601	MOUNT ADELAIDE	CA	PL	24000
DL493960TR546602	MOUNT ADELAIDE	CA	RD	24000
DL493960TR546602	MOUNT ADELAIDE	CA	RR	24000
DL493960SC546603	MOUNT ADELAIDE	CA	SC	24000
DL493960SM546604	MOUNT ADELAIDE	CA	SM	24000
DL484020BD544153	MOUNT BALDY	CA	BD	24000
DL484020HY544154	MOUNT BALDY	CA	HY	24000
DL484020TR544156	MOUNT BALDY	CA	MT	24000
DL484020PL544155	MOUNT BALDY	CA	PL	24000
DL484020TR544156	MOUNT BALDY	CA	RD	24000
DL484020TR544156	MOUNT BALDY	CA	RR	24000
DL442710BD534540	MOUNT BANGS	AZ	BD	24000
DL442710PL534541	MOUNT BANGS	AZ	PL	24000
DL491330TR545932	MOUNT BREWER	CA	MT	24000
DL491330TR545932	MOUNT BREWER	CA	RD	24000
DL491330TR545932	MOUNT BREWER	CA	RR	24000
DL491320TR545931	MOUNT CLARENCE KING	CA	MT	24000
DL491320TR545931	MOUNT CLARENCE KING	CA	RD	24000
DL491320TR545931	MOUNT CLARENCE KING	CA	RR	24000
DL493820TR546552	MOUNT DARWIN	CA	MT	24000
DL493820TR546552	MOUNT DARWIN	CA	RD	24000
DL493820TR546552	MOUNT DARWIN	CA	RR	24000
DL452260BD536083	MOUNT DAVIS	AZ,NV	BD	24000
DL452260BD536084	MOUNT DAVIS	AZ,NV	BD	24000
DL452260TR536086	MOUNT DAVIS	AZ,NV	MT	24000
DL452260PL536085	MOUNT DAVIS	AZ,NV	PL	24000
DL452260TR536086	MOUNT DAVIS	AZ,NV	RD	24000
DL452260TR536086	MOUNT DAVIS	AZ,NV	RR	24000
DL440060BD534135	MOUNT DELLENBAUGH	AZ	BD	24000
DL440060TR534136	MOUNT DELLENBAUGH	AZ	MT	24000
DL440060TR534136	MOUNT DELLENBAUGH	AZ	RD	24000
DL440060TR534136	MOUNT DELLENBAUGH	AZ	RR	24000
DL493830TR546553	MOUNT GODDARD	CA	MT	24000
DL493830TR546553	MOUNT GODDARD	CA	RD	24000
DL493830TR546553	MOUNT GODDARD	CA	RR	24000
DL495030TR546858	MOUNT HENRY	CA	MT	24000
DL495030TR546858	MOUNT HENRY	CA	RD	24000
DL495030TR546858	MOUNT HENRY	CA	RR	24000
DL479890BD543105	MOUNT JACKSON	NV	BD	24000
DL479890PL543106	MOUNT JACKSON	NV	PL	24000
DL491340TR545933	MOUNT KAWEAH	CA	MT	24000
DL491340TR545933	MOUNT KAWEAH	CA	RD	24000
DL491340TR545933	MOUNT KAWEAH	CA	RR	24000
DL488830TR545307	MOUNT LANGLEY	CA	MT	24000
DL488830TR545307	MOUNT LANGLEY	CA	RD	24000
DL488830TR545307	MOUNT LANGLEY	CA	RR	24000
DL435950BD533447	MOUNT LOGAN	AZ	BD	24000
DL435950TR533449	MOUNT LOGAN	AZ	MT	24000
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DL435950TR533449	MOUNT LOGAN	AZ	RD	24000
DL435950TR533449	MOUNT LOGAN	AZ	RR	24000
DL452300BD536099	MOUNT MANCHESTER	CA,NV,AZ	BD	24000
DL452300HP536100	MOUNT MANCHESTER	CA,NV,AZ	HP	24000

DL452300HY536101	MOUNT MANCHESTER	CA,NV,AZ	HY	24000
DL452300MS536102	MOUNT MANCHESTER	CA,NV,AZ	MS	24000
DL452300TR536105	MOUNT MANCHESTER	CA,NV,AZ	MT	24000
DL452300NV536103	MOUNT MANCHESTER	CA,NV,AZ	NV	24000
DL452300PL536104	MOUNT MANCHESTER	CA,NV,AZ	PL	24000
DL452300TR536105	MOUNT MANCHESTER	CA,NV,AZ	RD	24000
DL452300TR536105	MOUNT MANCHESTER	CA,NV,AZ	RR	24000
DL452300SC536106	MOUNT MANCHESTER	CA,NV,AZ	SC	24000
DL452300SM536107	MOUNT MANCHESTER	CA,NV,AZ	SM	24000
DL450920BD535783	MOUNT PERKINS	AZ	BD	24000
DL450920TR535784	MOUNT PERKINS	AZ	MT	24000
DL450920TR535784	MOUNT PERKINS	AZ	RD	24000
DL450920TR535784	MOUNT PERKINS	AZ	RR	24000
DL491310TR545930	MOUNT PINCHOT	CA	MT	24000
DL491310TR545930	MOUNT PINCHOT	CA	RD	24000
DL491310TR545930	MOUNT PINCHOT	CA	RR	24000
DL484010BD544151	MOUNT SAN ANTONIO	CA	BD	24000
DL484010PL544152	MOUNT SAN ANTONIO	CA	PL	24000
DL493860TR546556	MOUNT SILLIMAN	CA	MT	24000
DL493860TR546556	MOUNT SILLIMAN	CA	RD	24000
DL493860TR546556	MOUNT SILLIMAN	CA	RR	24000
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DL465410PL539289	MOUNT STIRLING	NV	PL	24000
DL492570TR546245	MOUNT THOMPSON	CA	MT	24000
DL492570TR546245	MOUNT THOMPSON	CA	RD	24000
DL492570TR546245	MOUNT THOMPSON	CA	RR	24000
DL435940BD533445	MOUNT TRUMBULL	AZ	BD	24000
DL435940PL533446	MOUNT TRUMBULL	AZ	PL	24000
DL434570BD533216	MOUNT TRUMBULL NE	AZ	BD	24000
DL434570PL533217	MOUNT TRUMBULL NE	AZ	PL	24000
DL434580BD533218	MOUNT TRUMBULL SE	AZ	BD	24000
DL434580PL533219	MOUNT TRUMBULL SE	AZ	PL	24000
DL490070TR545619	MOUNT WHITNEY	CA	MT	24000
DL490070TR545619	MOUNT WHITNEY	CA	RD	24000
DL490070TR545619	MOUNT WHITNEY	CA	RR	24000
DL490060TR545618	MOUNT WILLIAMSON	CA	MT	24000
DL490060TR545618	MOUNT WILLIAMSON	CA	RD	24000
DL490060TR545618	MOUNT WILLIAMSON	CA	RR	24000
DL450890BD535777	MOUNT WILSON	AZ	BD	24000
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DL487780TR545063	MOUNT WILSON	CA	MT	24000
DL487780PL545062	MOUNT WILSON	CA	PL	24000
DL487780TR545063	MOUNT WILSON	CA	RD	24000
DL487780TR545063	MOUNT WILSON	CA	RR	24000
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DL442700PL534539	MOUNTAIN SHEEP SPRING	AZ	PL	24000
DL461480BD538322	MOUNTAIN SPRINGS	NV	BD	24000
DL461480HP538323	MOUNTAIN SPRINGS	NV	HP	24000
DL461480HY538324	MOUNTAIN SPRINGS	NV	HY	24000
DL461480MS538325	MOUNTAIN SPRINGS	NV	MS	24000
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DL461480PL538327	MOUNTAIN SPRINGS	NV	PL	24000
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DL461480SC538329	MOUNTAIN SPRINGS	NV	SC	24000
DL461480SM538330	MOUNTAIN SPRINGS	NV	SM	24000
DL821670BD561007	MOUNTAIN SPRINGS CANYON	CA	BD	62500
DL482610PL543814	MOUNTAIN SPRINGS CANYON	CA	PL	24000
DL821670PL561008	MOUNTAIN SPRINGS CANYON	CA	PL	62500
DL477430PL542518	MUD HILLS	CA	PL	24000
DL452200BD536064	MUDDY PEAK	NV	BD	24000

DL452200PL536065	MUDDY PEAK	NV	PL	24000
DL495070TR546862	MUIR GROVE	CA	MT	24000
DL495070TR546862	MUIR GROVE	CA	RD	24000
DL495070TR546862	MUIR GROVE	CA	RR	24000
DL457460BD537321	MULE DEER RIDGE	NV	BD	24000
DL457460PL537322	MULE DEER RIDGE	NV	PL	24000
DL456140BD537003	MULE DEER RIDGE NE	NV	BD	24000
DL456140PL537004	MULE DEER RIDGE NE	NV	PL	24000
DL457450BD537319	MULE DEER RIDGE NW	NV	BD	24000
DL457450PL537320	MULE DEER RIDGE NW	NV	PL	24000
DL456150BD537005	MULE DEER RIDGE SE	NV	BD	24000
DL456150PL537006	MULE DEER RIDGE SE	NV	PL	24000
DL451090BD535861	MULE WASH	AZ,CA	BD	24000
DL451090PL535862	MULE WASH	AZ,CA	PL	24000
DL478870BD542907	MURRIETA	CA	BD	24000
DL478870PL542908	MURRIETA	CA	PL	24000
DL441370BD534355	MUSTANG KNOLL	AZ	BD	24000
DL441370PL534356	MUSTANG KNOLL	AZ	PL	24000
DL469600BD540396	MYOMA	CA	BD	24000
DL469600PL540397	MYOMA	CA	PL	24000
DL476120BD542232	NEBO	CA	BD	24000
DL476120PL542233	NEBO	CA	PL	24000
DL450980BD535802	NEEDLES	CA,AZ	BD	24000
DL450980HY535803	NEEDLES	CA,AZ	HY	24000
DL450980TR535805	NEEDLES	CA,AZ	MT	24000
DL450980PL535804	NEEDLES	CA,AZ	PL	24000
DL450980TR535805	NEEDLES	CA,AZ	RD	24000
DL450980TR535805	NEEDLES	CA,AZ	RR	24000
DL450980SC535806	NEEDLES	CA,AZ	SC	24000
DL450980SM535807	NEEDLES	CA,AZ	SM	24000
DL450970BD535799	NEEDLES NE	AZ	BD	24000
DL450970TR535801	NEEDLES NE	AZ	MT	24000
DL450970PL535800	NEEDLES NE	AZ	PL	24000
DL450970TR535801	NEEDLES NE	AZ	RD	24000
DL450970TR535801	NEEDLES NE	AZ	RR	24000
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DL452310HP536109	NEEDLES NW	AZ,CA	HP	24000
DL452310HY536110	NEEDLES NW	AZ,CA	HY	24000
DL452310MS536111	NEEDLES NW	AZ,CA	MS	24000
DL452310TR536114	NEEDLES NW	AZ,CA	MT	24000
DL452310NV536112	NEEDLES NW	AZ,CA	NV	24000
DL452310PL536113	NEEDLES NW	AZ,CA	PL	24000
DL452310TR536114	NEEDLES NW	AZ,CA	RD	24000
DL452310TR536114	NEEDLES NW	AZ,CA	RR	24000
DL452310SC536115	NEEDLES NW	AZ,CA	SC	24000
DL452310SM536116	NEEDLES NW	AZ,CA	SM	24000
DL452320BD536117	NEEDLES SW	CA,AZ	BD	24000
DL452320HP536118	NEEDLES SW	CA,AZ	HP	24000
DL452320HY536119	NEEDLES SW	CA,AZ	HY	24000
DL452320MS536120	NEEDLES SW	CA,AZ	MS	24000
DL452320TR536123	NEEDLES SW	CA,AZ	MT	24000
DL452320NV536121	NEEDLES SW	CA,AZ	NV	24000
DL452320PL536122	NEEDLES SW	CA,AZ	PL	24000
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DL452320TR536123	NEEDLES SW	CA,AZ	RR	24000
DL452320SC536124	NEEDLES SW	CA,AZ	SC	24000
DL452320SM536125	NEEDLES SW	CA,AZ	SM	24000
DL492760BD546345	NEENACH SCHOOL	CA	BD	24000
DL492760PL546346	NEENACH SCHOOL	CA	PL	24000
DL453590BD536434	NELSON	NV	BD	24000
DL453590HP536435	NELSON	NV	HP	24000
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DL453590MS536437	NELSON	NV	MS	24000
DL453590TR536440	NELSON	NV	MT	24000
DL453590NV536438	NELSON	NV	NV	24000
DL453590PL536439	NELSON	NV	PL	24000

DL453590TR536440	NELSON	NV	RD	24000
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DL453590SC536441	NELSON	NV	SC	24000
DL453590SM536442	NELSON	NV	SM	24000
DL474760BD541838	NELSON LAKE	CA	BD	24000
DL474760HP541839	NELSON LAKE	CA	HP	24000
DL474760HY541840	NELSON LAKE	CA	HY	24000
DL474760MS541841	NELSON LAKE	CA	MS	24000
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DL474760PL541843	NELSON LAKE	CA	PL	24000
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DL474760SM541846	NELSON LAKE	CA	SM	24000
DL483830BD544123	NELSON RANGE	CA	BD	24000
DL483830HP544124	NELSON RANGE	CA	HP	24000
DL483830HY544125	NELSON RANGE	CA	HY	24000
DL483830TR544127	NELSON RANGE	CA	MT	24000
DL483830PL544126	NELSON RANGE	CA	PL	24000
DL483830TR544127	NELSON RANGE	CA	RD	24000
DL483830TR544127	NELSON RANGE	CA	RR	24000
DL454940BD536774	NELSON SW	NV	BD	24000
DL454940HP536775	NELSON SW	NV	HP	24000
DL454940HY536776	NELSON SW	NV	HY	24000
DL454940MS536777	NELSON SW	NV	MS	24000
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DL454940TR536780	NELSON SW	NV	RD	24000
DL454940TR536780	NELSON SW	NV	RR	24000
DL454940SC536781	NELSON SW	NV	SC	24000
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DL462960PL538706	NEW DALE	CA	PL	24000
DL437230BD533653	NEW HARMONY	UT	BD	48000
DL437230PL533654	NEW HARMONY	UT	PL	48000
DL822270BD561019	NEW YORK BUTTE	CA	BD	62500
DL822270PL561020	NEW YORK BUTTE	CA	PL	62500
DL819090BD560933	NEWBERRY	CA	BD	48000
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DL473490PL541528	NEWBERRY SPRINGS	CA	PL	24000
DL496490BD547367	NEWBURY PARK	CA	BD	24000
DL496490HP547368	NEWBURY PARK	CA	HP	24000
DL496490HY547369	NEWBURY PARK	CA	HY	24000
DL496490PL547370	NEWBURY PARK	CA	PL	24000
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DL465400BD539286	NIAVI WASH	NV	BD	24000
DL465400PL539287	NIAVI WASH	NV	PL	24000
DL458890PL537738	NIPTON	CA,NV	PL	24000
DL485210BD544403	NORTH EDWARDS	CA	BD	24000
DL485210PL544404	NORTH EDWARDS	CA	PL	24000
DL466810BD539666	NORTH OF BAKER	CA	BD	24000
DL466810HY539667	NORTH OF BAKER	CA	HY	24000
DL466810MS539668	NORTH OF BAKER	CA	MS	24000
DL466810TR539671	NORTH OF BAKER	CA	MT	24000
DL466810NV539669	NORTH OF BAKER	CA	NV	24000
DL466810PL539670	NORTH OF BAKER	CA	PL	24000
DL466810TR539671	NORTH OF BAKER	CA	RD	24000
DL466810TR539671	NORTH OF BAKER	CA	RR	24000
DL466810SC539672	NORTH OF BAKER	CA	SC	24000
DL466810SM539673	NORTH OF BAKER	CA	SM	24000
DL497590BD547595	NORTH OF OILDALE	CA	BD	24000
DL497590HP547596	NORTH OF OILDALE	CA	HP	24000
DL497590HY547597	NORTH OF OILDALE	CA	HY	24000
DL497590MS547598	NORTH OF OILDALE	CA	MS	24000

DL497590TR547601	NORTH OF OILDALE	CA	MT	24000
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DL497590PL547600	NORTH OF OILDALE	CA	PL	24000
DL497590TR547601	NORTH OF OILDALE	CA	RD	24000
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DL466770MS539636	NORTH OF TECOPA PASS	CA	MS	24000
DL466770TR539639	NORTH OF TECOPA PASS	CA	MT	24000
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DL466770SM539641	NORTH OF TECOPA PASS	CA	SM	24000
DL492580TR546246	NORTH PALISADE	CA	MT	24000
DL492580TR546246	NORTH PALISADE	CA	RD	24000
DL492580TR546246	NORTH PALISADE	CA	RR	24000
DL479980HP543117	NOVA CANYON	CA	HP	24000
DL479980HY543118	NOVA CANYON	CA	HY	24000
DL479980TR543119	NOVA CANYON	CA	MT	24000
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DL466670HY539622	OAK SPRING	NV	HY	24000
DL466670TR539624	OAK SPRING	NV	MT	24000
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DL466660BD539618	OAK SPRING BUTTE	NV	BD	24000
DL466660PL539619	OAK SPRING BUTTE	NV	PL	24000
DL466970BD539727	OASIS	CA	BD	24000
DL466970PL539728	OASIS	CA	PL	24000
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DL496390HP547257	OIL CENTER	CA	HP	24000
DL496390HP547258	OIL CENTER	CA	HP	24000
DL496390HY547261	OIL CENTER	CA	HY	24000
DL496390HY547262	OIL CENTER	CA	HY	24000
DL496390MS547265	OIL CENTER	CA	MS	24000
DL496390MS547266	OIL CENTER	CA	MS	24000
DL496390TR547275	OIL CENTER	CA	MT	24000
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DL497600PL547609	OILDALE	CA	PL	24000
DL497600TR547610	OILDALE	CA	RD	24000
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DL492720HP546299	OILER PEAK	CA	HP	24000
DL492720HY546300	OILER PEAK	CA	HY	24000
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DL492720TR546304	OILER PEAK	CA	MT	24000
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DL817100PL560870	OLD DAD MOUNTAIN	CA	PL	48000
DL470780BD540685	OLD IBEX PASS	CA	BD	24000
DL470780HY540686	OLD IBEX PASS	CA	HY	24000
DL470780MS540687	OLD IBEX PASS	CA	MS	24000
DL470780TR540690	OLD IBEX PASS	CA	MT	24000
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DL457640PL537419	OLD WOMAN STATUE	CA	PL	24000
DL484030BD544157	ONTARIO	CA	BD	24000
DL484030HY544158	ONTARIO	CA	HY	24000
DL484030TR544160	ONTARIO	CA	MT	24000
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DL454950SM536791	SEARCHLIGHT	NV	SM	24000
DL814450BD560765	SEARCHLIGHT	NV,CA	BD	48000
DL814450PL560766	SEARCHLIGHT	NV,CA	PL	48000
DL453620BD536461	SEARCHLIGHT SE	NV	BD	24000
DL453620HP536462	SEARCHLIGHT SE	NV	HP	24000
DL453620HY536463	SEARCHLIGHT SE	NV	HY	24000
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DL453620PL536466	SEARCHLIGHT SE	NV	PL	24000
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DL453620SM536469	SEARCHLIGHT SE	NV	SM	24000
DL480030BD543125	SEARLES LAKE	CA	BD	24000
DL480030PL543126	SEARLES LAKE	CA	PL	24000
DL448190BD535339	SENATOR MOUNTAIN NE	AZ	BD	24000
DL449540BD535567	SENATOR MOUNTAIN NW	AZ	BD	24000
DL470920BD540752	SEVEN PALMS VALLEY	CA	BD	24000
DL470920HP540753	SEVEN PALMS VALLEY	CA	HP	24000
DL470920HY540754	SEVEN PALMS VALLEY	CA	HY	24000
DL470920PL540755	SEVEN PALMS VALLEY	CA	PL	24000
DL465510PL539303	SEVENTEENMILE POINT	CA	PL	24000
DL496300TR547212	SHADEQUARTER MOUNTAIN	CA	MT	24000
DL496300TR547212	SHADEQUARTER MOUNTAIN	CA	RD	24000
DL496300TR547212	SHADEQUARTER MOUNTAIN	CA	RR	24000
DL482710BD543838	SHADOW MOUNTAINS	CA	BD	24000
DL482710PL543839	SHADOW MOUNTAINS	CA	PL	24000
DL482720BD543840	SHADOW MOUNTAINS SE	CA	BD	24000
DL482720PL543841	SHADOW MOUNTAINS SE	CA	PL	24000
DL497440BD547565	SHARKTOOTH PEAK	CA	BD	24000
DL497440HY547566	SHARKTOOTH PEAK	CA	HY	24000

DL497440TR547567	SHARKTOOTH PEAK	CA	MT	24000
DL497440TR547567	SHARKTOOTH PEAK	CA	RD	24000
DL497440TR547567	SHARKTOOTH PEAK	CA	RR	24000
DL457650PL537420	SHEEP CAMP SPRING	CA	PL	24000
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DL457480SC537330	SHEEP PEAK	NV	SC	24000
DL457480SM537331	SHEEP PEAK	NV	SM	24000
DL461500BD538340	SHENANDOAH PEAK	NV,CA	BD	24000
DL816410BD560839	SHENANDOAH PEAK	NV,CA	BD	62500
DL461500HP538341	SHENANDOAH PEAK	NV,CA	HP	24000
DL461500HY538342	SHENANDOAH PEAK	NV,CA	HY	24000
DL461500MS538343	SHENANDOAH PEAK	NV,CA	MS	24000
DL461500TR538346	SHENANDOAH PEAK	NV,CA	MT	24000
DL461500NV538344	SHENANDOAH PEAK	NV,CA	NV	24000
DL461500PL538345	SHENANDOAH PEAK	NV,CA	PL	24000
DL816410PL560840	SHENANDOAH PEAK	NV,CA	PL	62500
DL461500TR538346	SHENANDOAH PEAK	NV,CA	RD	24000
DL461500TR538346	SHENANDOAH PEAK	NV,CA	RR	24000
DL461500SC538347	SHENANDOAH PEAK	NV,CA	SC	24000
DL461500SM538348	SHENANDOAH PEAK	NV,CA	SM	24000
DL473400BD541458	SHORE LINE BUTTE	CA	BD	24000
DL473400HP541459	SHORE LINE BUTTE	CA	HP	24000
DL473400HY541460	SHORE LINE BUTTE	CA	HY	24000
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DL473400SM541466	SHORE LINE BUTTE	CA	SM	24000
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DL818390BD560901	SHOSHONE	CA	BD	62500
DL469430HP540309	SHOSHONE	CA	HP	24000
DL469430HY540310	SHOSHONE	CA	HY	24000
DL469430MS540311	SHOSHONE	CA	MS	24000
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DL469430SM540316	SHOSHONE	CA	SM	24000
DL465550BD539307	SIBERIA	CA	BD	62500
DL465550PL539308	SIBERIA	CA	PL	62500
DL815180BD560803	SIDEWINDER WELL	CA	BD	62500

DL457710PL537425	SIDEWINDER WELL	CA	PL	24000
DL815180PL560804	SIDEWINDER WELL	CA	PL	62500
DL456290PL537107	SIGNAL HILL	CA	PL	24000
DL438600BD533887	SIGNAL PEAK	UT	BD	48000
DL438600PL533888	SIGNAL PEAK	UT	PL	48000
DL470650BD540628	SILENT BUTTE	NV	BD	24000
DL470650PL540629	SILENT BUTTE	NV	PL	24000
DL466800BD539658	SILURIAN HILLS	CA	BD	24000
DL817740BD560883	SILURIAN HILLS	CA	BD	62500
DL466800HY539659	SILURIAN HILLS	CA	HY	24000
DL466800MS539660	SILURIAN HILLS	CA	MS	24000
DL466800TR539663	SILURIAN HILLS	CA	MT	24000
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DL466800SM539665	SILURIAN HILLS	CA	SM	24000
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DL468130MS539991	SILURIAN LAKE	CA	MS	24000
DL468130TR539994	SILURIAN LAKE	CA	MT	24000
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DL468140TR540002	SILURIAN VALLEY	CA	RR	24000
DL468140SC540003	SILURIAN VALLEY	CA	SC	24000
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DL472180BD541133	SILVER BELL MINE	CA	BD	24000
DL472180PL541134	SILVER BELL MINE	CA	PL	24000
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DL480140BD543178	SILVERWOOD LAKE	CA	BD	24000
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DL480140HY543180	SILVERWOOD LAKE	CA	HY	24000
DL480140MS543181	SILVERWOOD LAKE	CA	MS	24000
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DL480140SM543186	SILVERWOOD LAKE	CA	SM	24000
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DL490120HP545623	SIRRETTA PEAK	CA	HP	24000
DL490120HY545624	SIRRETTA PEAK	CA	HY	24000
DL490120MS545625	SIRRETTA PEAK	CA	MS	24000
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DL490120SC545629	SIRRETTA PEAK	CA	SC	24000
DL490120SM545630	SIRRETTA PEAK	CA	SM	24000

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DL490230BD545746	SLEEPY VALLEY	CA	BD	24000
DL490230PL545747	SLEEPY VALLEY	CA	PL	24000
DL493840TR546554	SLIDE BLUFFS	CA	MT	24000
DL493840TR546554	SLIDE BLUFFS	CA	RD	24000
DL493840TR546554	SLIDE BLUFFS	CA	RR	24000
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DL457530HY537370	SLOAN	NV	HY	24000
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DL457530SC537375	SLOAN	NV	SC	24000
DL457530SM537376	SLOAN	NV	SM	24000
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DL456220HY537054	SLOAN NE	NV	HY	24000
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DL456220TR537058	SLOAN NE	NV	MT	24000
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DL456230HY537063	SLOAN SE	NV	HY	24000
DL456230MS537064	SLOAN SE	NV	MS	24000
DL456230TR537067	SLOAN SE	NV	MT	24000
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DL456230PL537066	SLOAN SE	NV	PL	24000
DL456230TR537067	SLOAN SE	NV	RD	24000
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DL435870HY533440	SMITH MESA	UT	HY	24000
DL435870PL533441	SMITH MESA	UT	PL	24000
DL437490SM533669	SMITH PEAK NE	AZ	SM	24000
DL438850SM533899	SMITH PEAK NW	AZ	SM	24000
DL434520HY533213	SMITHSONIAN BUTTE	UT,AZ	HY	24000
DL452340BD536128	SNAGGLETOOTH	CA	BD	24000
DL452340PL536129	SNAGGLETOOTH	CA	PL	24000
DL442760BD534548	SNAP CANYON EAST	AZ	BD	24000
DL442760TR534549	SNAP CANYON EAST	AZ	MT	24000
DL442760TR534549	SNAP CANYON EAST	AZ	RD	24000
DL442760TR534549	SNAP CANYON EAST	AZ	RR	24000
DL444110BD534739	SNAP CANYON WEST	AZ	BD	24000
DL444110TR534740	SNAP CANYON WEST	AZ	MT	24000
DL444110TR534740	SNAP CANYON WEST	AZ	RD	24000
DL444110TR534740	SNAP CANYON WEST	AZ	RR	24000
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DL441410TR534362	SNAP DRAW	AZ	MT	24000
DL441410TR534362	SNAP DRAW	AZ	RD	24000
DL441410TR534362	SNAP DRAW	AZ	RR	24000
DL817760BD560887	SODA LAKE	CA	BD	48000
DL817760PL560888	SODA LAKE	CA	PL	48000

DL466830BD539682	SODA LAKE NORTH	CA	BD	24000
DL466830HY539683	SODA LAKE NORTH	CA	HY	24000
DL466830MS539684	SODA LAKE NORTH	CA	MS	24000
DL466830TR539687	SODA LAKE NORTH	CA	MT	24000
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DL466840SM539697	SODA LAKE SOUTH	CA	SM	24000
DL822240BD561013	SOLDIER PASS	CA,NV	BD	62500
DL822240PL561014	SOLDIER PASS	CA,NV	PL	62500
DL488960BD545421	SOLEDAD MOUNTAIN	CA	BD	24000
DL488960PL545422	SOLEDAD MOUNTAIN	CA	PL	24000
DL464170PL538988	SOLOMONS KNOB	CA	PL	24000
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DL477370HY542512	SOURDOUGH SPRING	CA	HY	24000
DL477370TR542514	SOURDOUGH SPRING	CA	MT	24000
DL477370PL542513	SOURDOUGH SPRING	CA	PL	24000
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DL489040BD545441	SOUTH GATE	CA	BD	24000
DL489040PL545442	SOUTH GATE	CA	PL	24000
DL454810BD536692	SOUTH OF DELAMAR LAKE	NV	BD	24000
DL454810PL536693	SOUTH OF DELAMAR LAKE	NV	PL	24000
DL453470BD536361	SOUTH OF GREGERSON BASIN	NV	BD	24000
DL453470PL536362	SOUTH OF GREGERSON BASIN	NV	PL	24000
DL481360BD543481	SPANGLER HILLS EAST	CA	BD	24000
DL481360PL543482	SPANGLER HILLS EAST	CA	PL	24000
DL482640BD543817	SPANGLER HILLS WEST	CA	BD	24000
DL482640PL543818	SPANGLER HILLS WEST	CA	PL	24000
DL492610TR546249	SPHINX LAKES	CA	MT	24000
DL492610TR546249	SPHINX LAKES	CA	RD	24000
DL492610TR546249	SPHINX LAKES	CA	RR	24000
DL452280BD536090	SPIRIT MOUNTAIN	NV	BD	24000
DL452280TR536092	SPIRIT MOUNTAIN	NV	MT	24000
DL452280PL536091	SPIRIT MOUNTAIN	NV	PL	24000
DL452280TR536092	SPIRIT MOUNTAIN	NV	RD	24000
DL452280TR536092	SPIRIT MOUNTAIN	NV	RR	24000
DL450930BD535785	SPIRIT MOUNTAIN NE	AZ,NV	BD	24000
DL450930TR535787	SPIRIT MOUNTAIN NE	AZ,NV	MT	24000
DL450930PL535786	SPIRIT MOUNTAIN NE	AZ,NV	PL	24000
DL450930TR535787	SPIRIT MOUNTAIN NE	AZ,NV	RD	24000
DL450930TR535787	SPIRIT MOUNTAIN NE	AZ,NV	RR	24000
DL452270BD536087	SPIRIT MOUNTAIN NW	NV,AZ	BD	24000
DL452270TR536089	SPIRIT MOUNTAIN NW	NV,AZ	MT	24000
DL452270PL536088	SPIRIT MOUNTAIN NW	NV,AZ	PL	24000
DL452270TR536089	SPIRIT MOUNTAIN NW	NV,AZ	RD	24000
DL452270TR536089	SPIRIT MOUNTAIN NW	NV,AZ	RR	24000
DL450940BD535788	SPIRIT MOUNTAIN SE	AZ,NV	BD	24000
DL450940PL535789	SPIRIT MOUNTAIN SE	AZ,NV	PL	24000
DL491300TR545929	SPLIT MOUNTAIN	CA	MT	24000
DL491300TR545929	SPLIT MOUNTAIN	CA	RD	24000
DL491300TR545929	SPLIT MOUNTAIN	CA	RR	24000
DL819660BD560937	SPRINGDALE	NV	BD	62500
DL819660PL560938	SPRINGDALE	NV	PL	62500

DL434510HY533212	SPRINGDALE WEST	UT	HY	24000
DL446960BD535125	STANDARD WASH	AZ,CA	BD	24000
DL446960HY535126	STANDARD WASH	AZ,CA	HY	24000
DL446960TR535128	STANDARD WASH	AZ,CA	MT	24000
DL446960PL535127	STANDARD WASH	AZ,CA	PL	24000
DL446960TR535128	STANDARD WASH	AZ,CA	RD	24000
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DL446960SM535130	STANDARD WASH	AZ,CA	SM	24000
DL460190BD538032	STATE LINE PASS	CA,NV	BD	24000
DL460190HP538033	STATE LINE PASS	CA,NV	HP	24000
DL460190HY538034	STATE LINE PASS	CA,NV	HY	24000
DL460190MS538035	STATE LINE PASS	CA,NV	MS	24000
DL460190TR538038	STATE LINE PASS	CA,NV	MT	24000
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DL460190TR538038	STATE LINE PASS	CA,NV	RD	24000
DL460190TR538038	STATE LINE PASS	CA,NV	RR	24000
DL460190SC538039	STATE LINE PASS	CA,NV	SC	24000
DL460190SM538040	STATE LINE PASS	CA,NV	SM	24000
DL480180BD543200	STEELE PEAK	CA	BD	24000
DL480180PL543201	STEELE PEAK	CA	PL	24000
DL814480BD560771	STEPLADDER MOUNTAINS	CA	BD	62500
DL453680PL536486	STEPLADDER MOUNTAINS	CA	PL	24000
DL814480PL560772	STEPLADDER MOUNTAINS	CA	PL	62500
DL453670PL536485	STEPLADDER MOUNTAINS NE	CA	PL	24000
DL455010PL536816	STEPLADDER MOUNTAINS NW	CA	PL	24000
DL455020PL536817	STEPLADDER MOUNTAINS SW	CA	PL	24000
DL817720BD560879	STEWART VALLEY	CA,NV	BD	62500
DL817720PL560880	STEWART VALLEY	CA,NV	PL	62500
DL477460BD542530	STODDARD WELL	CA	BD	24000
DL477460HP542531	STODDARD WELL	CA	HP	24000
DL477460HY542532	STODDARD WELL	CA	HY	24000
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DL478560BD542797	STONEWALL PASS	NV	BD	24000
DL478560PL542798	STONEWALL PASS	NV	PL	24000
DL820340BD560961	STOVEPIPE WELLS	CA	BD	62500
DL820340PL560962	STOVEPIPE WELLS	CA	PL	62500
DL477300BD542490	STOVEPIPE WELLS NE	CA	BD	24000
DL477300HP542491	STOVEPIPE WELLS NE	CA	HP	24000
DL477300HY542492	STOVEPIPE WELLS NE	CA	HY	24000
DL477300TR542494	STOVEPIPE WELLS NE	CA	MT	24000
DL477300PL542493	STOVEPIPE WELLS NE	CA	PL	24000
DL477300TR542494	STOVEPIPE WELLS NE	CA	RD	24000
DL477300TR542494	STOVEPIPE WELLS NE	CA	RR	24000
DL469370BD540295	STRIPED HILLS	NV	BD	24000
DL469370HP540296	STRIPED HILLS	NV	HP	24000
DL469370HY540297	STRIPED HILLS	NV	HY	24000
DL469370TR540299	STRIPED HILLS	NV	MT	24000
DL469370PL540298	STRIPED HILLS	NV	PL	24000
DL469370TR540299	STRIPED HILLS	NV	RD	24000
DL469370TR540299	STRIPED HILLS	NV	RR	24000
DL464130BD538979	STUMP SPRING	NV,CA	BD	24000
DL464130HP538980	STUMP SPRING	NV,CA	HP	24000
DL464130HY538981	STUMP SPRING	NV,CA	HY	24000
DL464130MS538982	STUMP SPRING	NV,CA	MS	24000
DL464130TR538985	STUMP SPRING	NV,CA	MT	24000
DL464130NV538983	STUMP SPRING	NV,CA	NV	24000
DL464130PL538984	STUMP SPRING	NV,CA	PL	24000

DL464130TR538985	STUMP SPRING	NV,CA	RD 24000
DL464130TR538985	STUMP SPRING	NV,CA	RR 24000
DL464130SC538986	STUMP SPRING	NV,CA	SC 24000
DL464130SM538987	STUMP SPRING	NV,CA	SM 24000
DL453730BD536493	STYX	CA	BD 24000
DL453730PL536494	STYX	CA	PL 24000
DL468240BD540037	SUNFAIR	CA	BD 24000
DL468240PL540038	SUNFAIR	CA	PL 24000
DL452140BD536052	SUNFLOWER MOUNTAIN	NV	BD 24000
DL452140PL536053	SUNFLOWER MOUNTAIN	NV	PL 24000
DL490250BD545750	SUNLAND	CA	BD 24000
DL490250HP545751	SUNLAND	CA	HP 24000
DL490250HY545752	SUNLAND	CA	HY 24000
DL490250PL545753	SUNLAND	CA	PL 24000
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DL478840PL542902	SUNNYMEAD	CA	PL 24000
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DL470860PL540739	SUNSHINE PEAK	CA	PL 24000
DL477420PL542517	SUPERIOR LAKE	CA	PL 24000
DL477410PL542516	SUPERIOR VALLEY	CA	PL 24000
DL468110BD539972	TECOPA	CA	BD 24000
DL817730BD560881	TECOPA	CA	BD 62500
DL468110HY539973	TECOPA	CA	HY 24000
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DL468110SC539978	TECOPA	CA	SC 24000
DL468110SM539979	TECOPA	CA	SM 24000
DL466780BD539642	TECOPA PASS	CA	BD 24000
DL466780HY539643	TECOPA PASS	CA	HY 24000
DL466780MS539644	TECOPA PASS	CA	MS 24000
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DL466780SC539648	TECOPA PASS	CA	SC 24000
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DL490180HP545680	TEHACHAPI NE	CA	HP 24000
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DL490180MS545688	TEHACHAPI NE	CA	MS 24000
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DL490180NV545689	TEHACHAPI NE	CA	NV 24000
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DL490180TR545702	TEHACHAPI NE	CA	RD 24000
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DL493990HP546639	TEJON RANCH	CA	HP	24000
DL493990HY546640	TEJON RANCH	CA	HY	24000
DL493990MS546641	TEJON RANCH	CA	MS	24000
DL493990TR546644	TEJON RANCH	CA	MT	24000
DL493990NV546642	TEJON RANCH	CA	NV	24000
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DL493990TR546644	TEJON RANCH	CA	RD	24000
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DL493990SC546645	TEJON RANCH	CA	SC	24000

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DL482740PL543845	TELEGRAPH PEAK	CA	PL	24000
DL477340BD542498	TELESCOPE PEAK	CA	BD	24000
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DL488850TR545309	TEMPLETON MOUNTAIN	CA	RD	24000
DL488850TR545309	TEMPLETON MOUNTAIN	CA	RR	24000
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DL454960HP536793	TENMILE WELL	NV,CA	HP	24000
DL454960HY536794	TENMILE WELL	NV,CA	HY	24000
DL454960MS536795	TENMILE WELL	NV,CA	MS	24000
DL454960TR536798	TENMILE WELL	NV,CA	MT	24000
DL454960NV536796	TENMILE WELL	NV,CA	NV	24000
DL454960PL536797	TENMILE WELL	NV,CA	PL	24000
DL454960TR536798	TENMILE WELL	NV,CA	RD	24000
DL454960TR536798	TENMILE WELL	NV,CA	RR	24000
DL454960SC536799	TENMILE WELL	NV,CA	SC	24000
DL454960SM536800	TENMILE WELL	NV,CA	SM	24000
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DL445390PL534907	TERRY BENCHES	NV,UT,AZ	PL	24000
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DL481290BD543473	THE DUNES	CA	BD	24000
DL481290HP543474	THE DUNES	CA	HP	24000
DL481290HY543475	THE DUNES	CA	HY	24000
DL481290TR543477	THE DUNES	CA	MT	24000
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DL481290TR543477	THE DUNES	CA	RD	24000
DL481290TR543477	THE DUNES	CA	RR	24000
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DL434500HY533210	THE GUARDIAN ANGELS	UT	HY	24000
DL434500PL533211	THE GUARDIAN ANGELS	UT	PL	24000
DL492600TR546248	THE SPHINX	CA	MT	24000
DL492600TR546248	THE SPHINX	CA	RD	24000
DL492600TR546248	THE SPHINX	CA	RR	24000
DL448180BD535336	THE TEMPLE	NV,AZ	BD	24000
DL448180TR535338	THE TEMPLE	NV,AZ	MT	24000
DL448180PL535337	THE TEMPLE	NV,AZ	PL	24000
DL448180TR535338	THE TEMPLE	NV,AZ	RD	24000
DL448180TR535338	THE TEMPLE	NV,AZ	RR	24000
DL466950BD539723	THERMAL CANYON	CA	BD	24000
DL466950PL539724	THERMAL CANYON	CA	PL	24000
DL471980BD541028	THIRSTY CANYON	NV	BD	24000
DL471980PL541029	THIRSTY CANYON	NV	PL	24000
DL473300BD541419	THIRSTY CANYON NW	NV	BD	62500
DL473300PL541420	THIRSTY CANYON NW	NV	PL	62500
DL471990BD541030	THIRSTY CANYON SE	NV	BD	24000
DL471990PL541031	THIRSTY CANYON SE	NV	PL	24000
DL473310BD541421	THIRSTY CANYON SW	NV	BD	62500
DL473310PL541422	THIRSTY CANYON SW	NV	PL	62500
DL495270HP547017	THOUSAND OAKS	CA	HP	24000
DL495270HY547018	THOUSAND OAKS	CA	HY	24000
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DL453770HP536502	THUMB PEAK	CA	HP	24000
DL453770HY536503	THUMB PEAK	CA	HY	24000
DL453770MS536504	THUMB PEAK	CA	MS	24000
DL453770TR536507	THUMB PEAK	CA	MT	24000

DL453770NV536505	THUMB PEAK	CA	NV	24000
DL453770PL536506	THUMB PEAK	CA	PL	24000
DL453770TR536507	THUMB PEAK	CA	RD	24000
DL453770TR536507	THUMB PEAK	CA	RR	24000
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DL472130BD541106	TIEFORT MOUNTAINS	CA	BD	24000
DL819070BD560929	TIEFORT MOUNTAINS	CA	BD	62500
DL472130HP541107	TIEFORT MOUNTAINS	CA	HP	24000
DL472130HY541108	TIEFORT MOUNTAINS	CA	HY	24000
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DL472130NV541110	TIEFORT MOUNTAINS	CA	NV	24000
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DL472130TR541112	TIEFORT MOUNTAINS	CA	RD	24000
DL472130TR541112	TIEFORT MOUNTAINS	CA	RR	24000
DL472130SC541113	TIEFORT MOUNTAINS	CA	SC	24000
DL472130SM541114	TIEFORT MOUNTAINS	CA	SM	24000
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DL461420PL538283	TIM SPRING	NV	PL	24000
DL470670BD540632	TIMBER MOUNTAIN	NV	BD	24000
DL470670PL540633	TIMBER MOUNTAIN	NV	PL	24000
DL820990BD560977	TIN MOUNTAIN	CA	BD	62500
DL820990PL560978	TIN MOUNTAIN	CA	PL	62500
DL441420BD534363	TINCANEBITTS POINT	AZ	BD	24000
DL441420TR534364	TINCANEBITTS POINT	AZ	MT	24000
DL441420TR534364	TINCANEBITTS POINT	AZ	RD	24000
DL441420TR534364	TINCANEBITTS POINT	AZ	RR	24000
DL468010BD539952	TIPPIPAH SPRING	NV	BD	24000
DL468010HP539953	TIPPIPAH SPRING	NV	HP	24000
DL468010HY539954	TIPPIPAH SPRING	NV	HY	24000
DL468010TR539956	TIPPIPAH SPRING	NV	MT	24000
DL468010PL539955	TIPPIPAH SPRING	NV	PL	24000
DL468010TR539956	TIPPIPAH SPRING	NV	RD	24000
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DL492680HP546263	TOBIAS PEAK	CA	HP	24000
DL492680HY546264	TOBIAS PEAK	CA	HY	24000
DL492680MS546265	TOBIAS PEAK	CA	MS	24000
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DL492820HP546353	TOPANGA	CA	HP	24000
DL492820HY546354	TOPANGA	CA	HY	24000
DL449640BD535568	TOPOCK	AZ,CA	BD	24000
DL449640HY535569	TOPOCK	AZ,CA	HY	24000
DL449640MS535570	TOPOCK	AZ,CA	MS	24000
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DL469350HP540286	TOPOPAH SPRING	NV	HP	24000
DL469350HY540287	TOPOPAH SPRING	NV	HY	24000
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DL469350TR540289	TOPOPAH SPRING	NV	RR	24000
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DL470680HP540635	TOPOPAH SPRING NW	NV	HP	24000

DL470680HY540636	TOPOPAH SPRING NW	NV	HY	24000
DL470680TR540638	TOPOPAH SPRING NW	NV	MT	24000
DL470680PL540637	TOPOPAH SPRING NW	NV	PL	24000
DL470680TR540638	TOPOPAH SPRING NW	NV	RD	24000
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DL448100PL535317	TOQUOP GAP	NV	PL	24000
DL470950BD540760	TORO PEAK	CA	BD	62500
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DL490290BD545762	TORRANCE	CA	BD	24000
DL490290PL545763	TORRANCE	CA	PL	24000
DL471970BD541026	TRAIL RIDGE	NV	BD	24000
DL471970PL541027	TRAIL RIDGE	NV	PL	24000
DL438720BD533897	TRAVERTINE RAPIDS	AZ	BD	24000
DL438720TR533898	TRAVERTINE RAPIDS	AZ	MT	24000
DL438720TR533898	TRAVERTINE RAPIDS	AZ	RD	24000
DL438720TR533898	TRAVERTINE RAPIDS	AZ	RR	24000
DL492620TR546250	TRIPLE DIVIDE PEAK	CA	MT	24000
DL492620TR546250	TRIPLE DIVIDE PEAK	CA	RD	24000
DL492620TR546250	TRIPLE DIVIDE PEAK	CA	RR	24000
DL496500HP547371	TRIUNFO PASS	CA	HP	24000
DL496500HY547372	TRIUNFO PASS	CA	HY	24000
DL821030BD560985	TRONA	CA	BD	62500
DL821030PL560986	TRONA	CA	PL	62500
DL472170PL541132	TROY LAKE	CA	PL	24000
DL482500HP543790	TULE CANYON	NV,CA	HP	24000
DL482500HY543791	TULE CANYON	NV,CA	HY	24000
DL482500TR543792	TULE CANYON	NV,CA	MT	24000
DL482500TR543792	TULE CANYON	NV,CA	RD	24000
DL482500TR543792	TULE CANYON	NV,CA	RR	24000
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DL446750PL535103	TULE SPRING	NV	PL	24000
DL458820BD537675	TULE SPRINGS PARK	NV	BD	24000
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DL458820PL537680	TULE SPRINGS PARK	NV	PL	24000
DL458820TR537681	TULE SPRINGS PARK	NV	RD	24000
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DL458820SC537682	TULE SPRINGS PARK	NV	SC	24000
DL458820SM537683	TULE SPRINGS PARK	NV	SM	24000
DL465490PL539301	TURQUOISE MOUNTAIN	CA	PL	24000
DL814490BD560773	TURTLE MOUNTAINS	CA	BD	62500
DL814490PL560774	TURTLE MOUNTAINS	CA	PL	62500
DL478780BD542854	TURTLE VALLEY	CA	BD	24000
DL478780HP542855	TURTLE VALLEY	CA	HP	24000
DL478780HY542856	TURTLE VALLEY	CA	HY	24000
DL478780MS542857	TURTLE VALLEY	CA	MS	24000
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DL485320BD544431	TUSTIN	CA	BD	24000
DL485320PL544432	TUSTIN	CA	PL	24000
DL480090BD543154	TWELVE GAUGE LAKE	CA	BD	24000
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DL466910BD539708	TWENTYNINE PALMS	CA	BD	24000
DL466910PL539709	TWENTYNINE PALMS	CA	PL	24000
DL465600BD539317	TWENTYNINE PALMS MOUNTAIN	CA	BD	62500
DL465600HP539318	TWENTYNINE PALMS MOUNTAIN	CA	HP	24000
DL465600HY539319	TWENTYNINE PALMS MOUNTAIN	CA	HY	24000

DL465600PL539320	TWENTYNINE PALMS MOUNTAIN	CA	PL	62500
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DL491470PL546051	TYLERHORSE CANYON	CA	PL	24000
DL820980BD560975	UBEHEBE	CA,NV	BD	48000
DL820980PL560976	UBEHEBE	CA,NV	PL	48000
DL481240BD543463	UBEHEBE CRATER	CA	BD	24000
DL481240HP543464	UBEHEBE CRATER	CA	HP	24000
DL481240HY543465	UBEHEBE CRATER	CA	HY	24000
DL481240TR543467	UBEHEBE CRATER	CA	MT	24000
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DL480120HY543162	VICTORVILLE	CA	HY 24000
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DL480120NV543164	VICTORVILLE	CA	NV 24000
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DL434590HY533220	VULCANS THRONE	AZ	HY 24000
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DL435970HY533453	VULCANS THRONE SW	AZ	HY 24000
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DL465620HY539324	WASHINGTON WASH	CA	HY	24000
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DL478750HP542842	WATER VALLEY	CA	HP	24000
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DL486520PL544694	WATERMAN MOUNTAIN	CA	PL	24000
DL487550PL544950	WAUCOBA MOUNTAIN	CA	PL	24000
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DL822250PL561016	WAUCOBA SPRING	CA	PL	62500
DL822260BD561017	WAUCOBA WASH	CA	BD	62500
DL822260PL561018	WAUCOBA WASH	CA	PL	62500
DL822880BD561033	WAUCOBO MOUNTAIN	CA	BD	48000
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DL496410HP547315	WEED PATCH	CA	HP	24000
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DL469490HY540362	WEST CRONISE LAKE	CA	HY	24000
DL469490MS540363	WEST CRONISE LAKE	CA	MS	24000

DL469490TR540366	WEST CRONISE LAKE	CA	MT	24000
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DL469490TR540366	WEST CRONISE LAKE	CA	RD	24000
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DL469490SM540368	WEST CRONISE LAKE	CA	SM	24000
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DL468150HY540006	WEST OF BAKER	CA	HY	24000
DL468150MS540007	WEST OF BAKER	CA	MS	24000
DL468150TR540010	WEST OF BAKER	CA	MT	24000
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DL465540PL539306	WEST OF BUDWEISER WASH	CA	PL	24000
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DL473440HP541493	WEST OF DRINKWATER LAKE	CA	HP	24000
DL473440HY541494	WEST OF DRINKWATER LAKE	CA	HY	24000
DL473440MS541495	WEST OF DRINKWATER LAKE	CA	MS	24000
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DL470740TR540663	WEST OF EAGLE MOUNTAIN	CA	RD	24000
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DL455000PL536815	WEST OF FLATTOP MOUNTAIN	CA	PL	24000
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DL481230HP543459	WEST OF GOLD MOUNTAIN	NV,CA	HP	24000
DL481230HY543460	WEST OF GOLD MOUNTAIN	NV,CA	HY	24000
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DL476070MS542193	WEST OF LEACH SPRING	CA	MS	24000
DL476070TR542196	WEST OF LEACH SPRING	CA	MT	24000
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DL476080BD542199	WEST OF NELSON LAKE	CA	BD	24000
DL476080HP542200	WEST OF NELSON LAKE	CA	HP	24000
DL476080HY542201	WEST OF NELSON LAKE	CA	HY	24000
DL476080MS542202	WEST OF NELSON LAKE	CA	MS	24000
DL476080TR542205	WEST OF NELSON LAKE	CA	MT	24000
DL476080NV542203	WEST OF NELSON LAKE	CA	NV	24000
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DL470810HY540713	WEST OF RED PASS LAKE	CA	HY	24000
DL470810MS540714	WEST OF RED PASS LAKE	CA	MS	24000
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DL462820HY538661	WEST OF SHENANDOAH PEAK	CA,NV	HY	24000
DL462820MS538662	WEST OF SHENANDOAH PEAK	CA,NV	MS	24000
DL462820TR538665	WEST OF SHENANDOAH PEAK	CA,NV	MT	24000
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DL462820TR538665	WEST OF SHENANDOAH PEAK	CA,NV	RD	24000
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DL468160HY540014	WEST OF SODA LAKE	CA	HY	24000
DL468160MS540015	WEST OF SODA LAKE	CA	MS	24000
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DL483820HY544120	WEST OF UBEHEBE PEAK	CA	HY	24000
DL483820TR544122	WEST OF UBEHEBE PEAK	CA	MT	24000
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DL481350PL543480	WESTEND	CA	PL	24000
DL450990BD535808	WHALE MOUNTAIN	CA,AZ	BD	24000
DL450990HP535809	WHALE MOUNTAIN	CA,AZ	HP	24000
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DL450990MS535811	WHALE MOUNTAIN	CA,AZ	MS	24000
DL450990TR535814	WHALE MOUNTAIN	CA,AZ	MT	24000
DL450990NV535812	WHALE MOUNTAIN	CA,AZ	NV	24000
DL450990PL535813	WHALE MOUNTAIN	CA,AZ	PL	24000
DL450990TR535814	WHALE MOUNTAIN	CA,AZ	RD	24000

DL450990TR535814	WHALE MOUNTAIN	CA,AZ	RR	24000
DL450990SC535815	WHALE MOUNTAIN	CA,AZ	SC	24000
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DL464100BD538963	WHEELER WELL	NV	BD	24000
DL464100PL538964	WHEELER WELL	NV	PL	24000
DL449670BD535590	WHIPPLE MOUNTAINS SW	CA	BD	24000
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DL448320BD535351	WHIPPLE WASH	CA	BD	24000
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DL488890HY545321	WHITE DOME	CA	HY	24000
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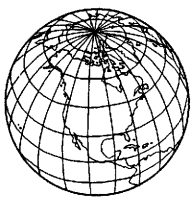
Spatial Data

Status Report

Attachment #5

U.S.G.S. 7.5 Minute Quad Digital Elevation Models



Department of Geography and Earth Resources, College of Natural Resources

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7.5 Minute Digital Elevation Models(DEM): Inventory Search Results

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Report Generated on: Wed Oct 9 14:17:47 1996

Search Criteria

Geographic Coverage: RANGE, 33.5000, 37.5000, -119.0000, -113.0000

1349 metadata records matched your query.

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7M44131000168361	CENTRAL WEST	UT	2	H
7M48509000172624	CERRO GORDO PEAK	CA	1	A
7M49135000173171	CHAGOOPA FALLS	CA	1	A
7M46278000170476	CHARLESTON PEAK	NV	1	A
7M46145000170355	CHARLESTON PEAK NE	NV	1	A
7M46145000170356	CHARLESTON PEAK NE	NV	2	H
7M45100000169324	CHEMEHUEVI PEAK	CA	1	A
7M43875000168111	CHEROKEE POINT	AZ	1	A
7M49632000173672	CHICKENCOOP CANYON	CA	1	A
7M48777000172819	CHILAO FLAT	CA	1	A
7M48777000172820	CHILAO FLAT	CA	2	H
7M48259000172426	CHINA GARDENS	CA	1	A
7M44688000168890	CHLORIDE	AZ	1	A
7M47598000171841	CHLORIDE CITY	CA	1	A
7M45898000170131	CHUBBUCK	CA	1	A
7M45773000170011	CHUCKWALLA SPRING	CA	1	A
7M46154000170368	CIMA DOME	CA	1	A
7M48769000172811	CINCO	CA	1	A
7M48884000172920	CIRQUE PEAK	CA	1	A
7M49016000173045	CLARAVILLE	CA	1	A
7M46963000171107	CLARK LAKE NE	CA	1	A
7M46152000170366	CLARK MOUNTAIN	CA	1	A
7M46164000170372	CLARKS PASS	CA	1	A
7M46426000170604	CLEGHORN LAKES	CA	1	A
7M49763000173797	COAL OIL CANYON	CA	1	A
7M49524000173563	COBBLESTONE MOUNTAIN	CA	1	A
7M46277000170475	COLD CREEK	NV	1	A
7M43732000167977	COLD SPRING	AZ	1	A
7M47096000171245	COLLINS VALLEY	CA	1	A
7M44412000168633	COLUMBINE FALLS	AZ	1	A
7M44412000168634	COLUMBINE FALLS	AZ	2	H
7M48901000172938	CONDOR PEAK	CA	1	A
7M48901000172939	CONDOR PEAK	CA	2	H
7M46298000170490	CONEJO WELL	CA	1	A
7M47209000171379	CONFIDENCE HILLS EAST	CA	1	A
7M47341000171536	CONFIDENCE HILLS WEST	CA	1	A
7M49762000173796	CONNER	CA	1	A
7M47869000172092	COPPER QUEEN CANYON	CA	1	A
7M45881000170122	CORN CREEK SPRINGS	NV	1	A
7M46013000170245	CORN CREEK SPRINGS NW	NV	1	A
7M45903000170136	CORN SPRING	CA	1	A
7M48277000172433	CORONA NORTH	CA	1	A
7M48277000172434	CORONA NORTH	CA	2	H
7M48278000172435	CORONA SOUTH	CA	1	A
7M48278000172436	CORONA SOUTH	CA	2	H
7M43618000167861	CORTEZ PEAK NW	AZ	1	A
7M48638000172715	COSO JUNCTION	CA	1	A
7M46563000170719	COTTONWOOD BASIN	CA	1	A
7M46563000170720	COTTONWOOD BASIN	CA	2	H
7M46563000170721	COTTONWOOD BASIN	CA	3	H
7M47996000172201	COTTONWOOD CANYON	CA	1	A
7M46017000170250	COTTONWOOD PASS	NV	1	A
7M46017000170251	COTTONWOOD PASS	NV	2	H
7M46431000170609	COTTONWOOD SPRING	CA	1	A
7M46431000170610	COTTONWOOD SPRING	CA	2	H

7M43754000167998	COURTHOUSE WELL	AZ	1	A
7M49626000173666	COURTRIGHT RESERVOIR	CA	1	A
7M46286000170484	COW COVE	CA	1	A
7M48754000172796	COWHORN VALLEY	CA	1	A
7M45901000170134	COXCOMB MOUNTAINS	CA	1	A
7M49129000173164	COYOTE FLAT	CA	1	A
7M47479000171701	COYOTE LAKE	CA	1	A
7M48887000172923	CRAG PEAK	CA	1	A
7M48508000172623	CRAIG CANYON	CA	1	A
7M43463000167721	CRATER CANYON	AZ	1	A
7M47201000171371	CRATER FLAT	NV	1	A
7M44422000168640	CREAMERY CANYON	AZ	1	A
7M45757000170004	CRESCENT PEAK	NV,CA	1	A
7M48752000172794	CROOKED CREEK	CA	1	A
7M43604000167848	CROSS MOUNTAIN	AZ	1	A
7M48893000172929	CROSS MOUNTAIN	CA	1	A
7M44698000168897	CROSS ROADS	CA,AZ	1	A
7M44567000168772	CRYSTAL HILL	AZ	1	A
7M48527000172633	CRYSTAL LAKE	CA	1	A
7M48275000172431	CUCAMONGA PEAK	CA	1	A
7M49765000173799	CUDDY VALLEY	CA	1	A
7M49274000173310	CUMMINGS MOUNTAIN	CA	1	A
7M44838000169035	CUNNINGHAM MOUNTAIN	AZ	1	A
7M44023000168250	CUNNINGHAM PASS	AZ	1	A
7M46295000170487	DALE LAKE	CA	1	A
7M48408000172548	DANA POINT	CA	1	A
7M48408000172549	DANA POINT	CA	2	H
7M47338000171533	DANTES VIEW	CA	1	A
7M48258000172425	DARWIN	CA	1	A
7M43475000167730	DATE CREEK RANCH	AZ	1	A
7M43612000167856	DATE CREEK RANCH NW	AZ	1	A
7M44811000169006	DAVIDSON PEAK	NV	1	A
7M45095000169320	DAVIS DAM	AZ,NV	1	A
7M45096000169321	DAVIS DAM SE	AZ,NV	1	A
7M47597000171840	DAYLIGHT PASS	CA,NV	1	A
7M46932000171078	DEAD HORSE FLAT	NV	1	A
7M46689000170842	DEADMAN LAKE NE	CA	1	A
7M46822000170962	DEADMAN LAKE NW	CA	1	A
7M46690000170843	DEADMAN LAKE SE	CA	1	A
7M46823000170963	DEADMAN LAKE SW	CA	1	A
7M47075000171226	DEADMAN PASS	CA	1	A
7M47073000171224	DEATH VALLEY JUNCTION	CA,NV	1	A
7M48753000172795	DEEP SPRINGS LAKE	CA	1	A
7M49758000173792	DEEPWELL RANCH	CA	1	A
7M49022000173050	DEL SUR	CA	1	A
7M49395000173430	DEMOCRAT HOT SPRINGS	CA	1	A
7M49395000173431	DEMOCRAT HOT SPRINGS	CA	2	H
7M49510000173546	DENNISON PEAK	CA	1	A
7M45888000170129	DESERT	CA,NV	1	A
7M46035000170264	DESERT CENTER	CA	1	A
7M47224000171390	DESERT HOT SPRINGS	CA	1	A
7M47469000171689	DEVILS GOLF COURSE	CA	1	A
7M49646000173686	DEVILS HEART PEAK	CA	1	A
7M49646000173687	DEVILS HEART PEAK	CA	2	H
7M46939000171085	DEVILS HOLE	NV	1	A
7M44143000168377	DEVILS SLIDE RAPIDS	AZ	1	A
7M44143000168378	DEVILS SLIDE RAPIDS	AZ	2	H
7M47601000171844	DEVILS SPEEDWAY	CA	1	A
7M44680000168883	DEVILS THROAT	NV	1	A
7M48147000172324	DEVORE	CA	1	A
7M43736000167984	DIAMOND PEAK	AZ	1	A
7M43736000167985	DIAMOND PEAK	AZ	2	H
7M49746000173785	DOGTOOTH PEAK	CA	1	A
7M44822000169017	DOLAN SPRINGS	AZ	1	A
7M48634000172712	DOLOMITE	CA	1	A
7M44973000169178	DOME ROCK MOUNTAINS SW	AZ	1	A

7M48768000172810	DOVE SPRING	CA	1	A
7M47212000171382	DRINKWATER LAKE	CA	1	A
7M47212000171383	DRINKWATER LAKE	CA	2	H
7M47994000172199	DRY BONE CANYON	CA	1	A
7M45353000169599	DRY LAKE	NV	1	A
7M45487000169739	DRY LAKE NW	NV	1	A
7M45354000169600	DRY LAKE SE	NV	1	A
7M48253000172419	DRY MOUNTAIN	CA	1	A
7M49756000173790	DUCOR	CA	1	A
7M46812000170957	DUMONT DUNES	CA	1	A
7M46433000170612	DURMID	CA	1	A
7M49138000173174	DURRWOOD CREEK	CA	1	A
7M44289000168509	DUTCH FLAT SE	AZ	1	A
7M44424000168641	DUTCH FLAT SW	AZ	1	A
7M43865000168101	DUTCHMAN DRAW	AZ	1	A
7M46941000171087	EAGLE MOUNTAIN	CA	1	A
7M43891000168122	EAGLETAIL MOUNTAINS WEST	AZ	1	A
7M46959000171101	EAST DECEPTION CANYON	CA	1	A
7M46959000171102	EAST DECEPTION CANYON	CA	2	H
7M47200000171370	EAST OF BEATTY MOUNTAIN	NV	1	A
7M47466000171686	EAST OF CHLORIDE CITY	CA,NV	1	A
7M46163000170371	EAST OF DALE LAKE	CA	1	A
7M46942000171088	EAST OF DEADMAN PASS	CA	1	A
7M47204000171374	EAST OF ECHO CANYON	CA,NV	1	A
7M47477000171698	EAST OF GOLDSTONE	CA	1	A
7M47477000171699	EAST OF GOLDSTONE	CA	2	H
7M45637000169877	EAST OF GRANITE PASS	CA	1	A
7M45364000169613	EAST OF HOMER MOUNTAIN	CA,NV	1	A
7M48504000172619	EAST OF JOSHUA FLATS	CA	1	A
7M47214000171385	EAST OF LANGFORD WELL	CA	1	A
7M47211000171381	EAST OF LEACH LAKE	CA	1	A
7M45635000169876	EAST OF MILLIGAN	CA	1	A
7M47210000171380	EAST OF OWL LAKE	CA	1	A
7M46168000170376	EAST OF RED CANYON	CA	1	A
7M47205000171375	EAST OF RYAN	CA	1	A
7M47995000172200	EAST OF SAND FLAT	CA	1	A
7M47993000172198	EAST OF TIN MOUNTAIN	CA	1	A
7M46427000170605	EAST OF VALLEY MOUNTAIN	CA	1	A
7M45902000170135	EAST OF VICTORY PASS	CA	1	A
7M48506000172621	EAST OF WAUCOBA CANYON	CA	1	A
7M48505000172620	EAST OF WAUCOBA SPRING	CA	1	A
7M44951000169156	ECHO BAY	NV	1	A
7M47336000171531	ECHO CANYON	CA	1	A
7M49518000173557	EDISON	CA	1	A
7M47752000171988	EL CASCO	CA	1	A
7M48399000172536	EL MIRAGE	CA	1	A
7M48779000172823	EL MONTE	CA	1	A
7M48779000172824	EL MONTE	CA	2	H
7M48392000172533	EL PASO PEAKS	CA	1	A
7M48406000172545	EL TORO	CA	1	A
7M48406000172546	EL TORO	CA	2	H
7M44406000168625	ELBOW CANYON	AZ	1	A
7M44406000168626	ELBOW CANYON	AZ	2	H
7M43881000168114	ELEPHANT MOUNTAIN	AZ	1	A
7M45078000169302	ELGIN	NV	1	A
7M45077000169301	ELGIN NE	NV	1	A
7M49017000173046	EMERALD MOUNTAIN	CA	1	A
7M47088000171236	EMERSON LAKE	CA	1	A
7M47864000172087	EMIGRANT CANYON	CA	1	A
7M47865000172088	EMIGRANT PASS	CA	1	A
7M47208000171378	EPAULET PEAK	CA	1	A
7M49148000173184	FAIRMONT BUTTE	CA	1	A
7M49139000173175	FAIRVIEW	CA	1	A
7M47861000172084	FALL CANYON	CA	1	A
7M48021000172215	FALLBROOK	CA	1	A
7M45216000169456	FARRIER	NV	1	A

7M47617000171857	FAWNSKIN	CA	1	A
7M49647000173688	FILLMORE	CA	1	A
7M49647000173689	FILLMORE	CA	2	H
7M49647000173690	FILLMORE	CA	3	H
7M45225000169467	FIRE MOUNTAIN	AZ,NV	1	A
7M49127000173162	FISH SLOUGH	CA	1	A
7M49003000173031	FISH SPRINGS	CA	1	A
7M44677000168880	FLAT TOP MESA	NV	1	A
7M45366000169615	FLATTOP MOUNTAIN	CA	1	A
7M49624000173664	FLORENCE LAKE	CA	1	A
7M48148000172325	FONTANA	CA	1	A
7M47619000171859	FOREST FALLS	CA	1	A
7M47619000171860	FOREST FALLS	CA	2	H
7M43454000167712	FORMASTER WELL	AZ	1	A
7M47345000171540	FORT IRWIN	CA	1	A
7M49635000173673	FOUNTAIN SPRINGS	CA	1	A
7M45361000169610	FOURTH OF JULY MOUNTAIN	NV	1	A
7M44829000169023	FRANCONIA	AZ	1	A
7M44829000169024	FRANCONIA	AZ	2	H
7M47072000171223	FRANKLIN WELL	CA,NV	1	A
7M49644000173683	FRAZIER MOUNTAIN	CA	1	A
7M43462000167720	FRAZIER WELLS	AZ	1	A
7M43599000167845	FRAZIER WELLS SW	AZ	1	A
7M48642000172717	FREEMAN JUNCTION	CA	1	A
7M46406000170593	FRENCHMAN LAKE SE	NV	1	A
7M45489000169741	FRENCHMAN MOUNTAIN	NV	1	A
7M45489000169742	FRENCHMAN MOUNTAIN	NV	2	H
7M46561000170717	FRIED LIVER WASH	CA	1	A
7M46169000170377	FRINK NE	CA	1	A
7M46301000170493	FRINK NW	CA	1	A
7M47351000171543	FRY MOUNTAINS	CA	1	A
7M47207000171377	FUNERAL PEAK	CA	1	A
7M47468000171688	FURNACE CREEK	CA	1	A
7M47603000171846	GALENA CANYON	CA	1	A
7M48518000172628	GARLOCK	CA	1	A
7M44549000168762	GARNET MOUNTAIN	AZ	1	A
7M44684000168887	GARNET MOUNTAIN NW	AZ	1	A
7M44817000169012	GARRETT BUTTE	NV,AZ	1	A
7M44817000169013	GARRETT BUTTE	NV,AZ	2	H
7M45749000169994	GASS PEAK	NV	1	A
7M45618000169863	GASS PEAK NE	NV	1	A
7M45750000169995	GASS PEAK SW	NV	1	A
7M44697000168896	GENE WASH	CA,AZ	1	A
7M49629000173669	GENERAL GRANT GROVE	CA	1	A
7M49508000173544	GIANT FOREST	CA	1	A
7M49513000173549	GIBBON PEAK	CA	1	A
7M48528000172634	GLENDORA	CA	1	A
7M48528000172635	GLENDORA	CA	2	H
7M49394000173428	GLENNVILLE	CA	1	A
7M49394000173429	GLENNVILLE	CA	2	H
7M49512000173548	GLOBE	CA	1	A
7M46956000171098	GOAT MOUNTAIN	CA	1	A
7M44685000168888	GOLD BASIN	AZ	1	A
7M44681000168884	GOLD BUTTE	NV	1	A
7M47465000171685	GOLD CENTER	NV,CA	1	A
7M47064000171215	GOLD FLAT EAST	NV	1	A
7M47196000171366	GOLD FLAT WEST	NV	1	A
7M47991000172196	GOLD MOUNTAIN	NV,CA	1	A
7M47990000172195	GOLD POINT	NV	1	A
7M48122000172311	GOLD POINT SW	NV	1	A
7M47339000171534	GOLD VALLEY	CA	1	A
7M47609000171853	GOLDSTONE	CA	1	A
7M47609000171854	GOLDSTONE	CA	2	H
7M44401000168618	GOLDSTRIKE	UT	1	A
7M44401000168619	GOLDSTRIKE	UT	2	H
7M43879000168112	GONZALES WASH	AZ	1	A

7M46018000170252	GOODSPRINGS	NV	1	A
7M49761000173795	GOSFORD	CA	1	A
7M45355000169601	GOVERNMENT WASH	NV	1	A
7M45355000169602	GOVERNMENT WASH	NV	2	H
7M43601000167847	GRAND CANYON CAVERNS	AZ	1	A
7M44275000168500	GRAND GULCH BENCH	AZ	1	A
7M43735000167982	GRANITE PARK	AZ	1	A
7M43735000167983	GRANITE PARK	AZ	2	H
7M45768000170008	GRANITE PASS	CA	1	A
7M49643000173682	GRAPEVINE	CA	1	A
7M44413000168635	GRAPEVINE CANYON	AZ	1	A
7M47860000172083	GRAPEVINE PEAK	NV,CA	1	A
7M46014000170246	GRAPEVINE SPRING	NV	1	A
7M43859000168092	GRASS VALLEY	UT	1	A
7M43859000168093	GRASS VALLEY	UT	2	H
7M44823000169018	GRASSHOPPER JUNCTION	AZ	1	A
7M44958000169163	GRASSHOPPER JUNCTION NW	AZ	1	A
7M43868000168104	GRASSY MOUNTAIN	AZ	1	A
7M49623000173663	GRAVEYARD PEAK	CA	1	A
7M43746000167992	GRAYBACK MOUNTAINS	AZ	1	A
7M46281000170480	GREEN MONSTER MINE	NV,CA	1	A
7M47206000171376	GREENWATER CANYON	CA	1	A
7M44018000168246	GREENWOOD PEAK	AZ	1	A
7M46279000170477	GRIFFITH PEAK	NV	1	A
7M46279000170478	GRIFFITH PEAK	NV	2	H
7M45238000169480	GROMMET	CA	1	A
7M44154000168385	GROOM SPRING	AZ	1	A
7M47731000171976	GROTTO CANYON	CA	1	A
7M48276000172432	GUASTI	CA	1	A
7M44267000168490	GUNLOCK	UT	1	A
7M44410000168630	GYP HILLS	AZ	1	A
7M43728000167973	GYP POCKET	AZ	1	A
7M44148000168384	HACKBERRY	AZ	1	A
7M48762000172804	HAIWEE PASS	CA	1	A
7M48637000172714	HAIWEE RESERVOIRS	CA	1	A
7M47602000171845	HANAUPAH CANYON	CA	1	A
7M48378000172523	HANGING ROCK CANYON	CA	1	A
7M48378000172524	HANGING ROCK CANYON	CA	2	H
7M48128000172317	HARRIS HILL	CA	1	A
7M43861000168096	HARRISBURG JUNCTION	UT	1	A
7M47882000172093	HARRISON MOUNTAIN	CA	1	A
7M47882000172094	HARRISON MOUNTAIN	CA	2	H
7M45627000169874	HART PEAK	CA,NV	1	A
7M43456000167714	HAT KNOLL	AZ	1	A
7M44966000169171	HAVASU LAKE	CA,AZ	1	A
7M46299000170491	HAYFIELD	CA	1	A
7M46167000170375	HAYFIELD SPRING	CA	1	A
7M45617000169862	HAYFORD PEAK SE	NV	1	A
7M47622000171863	HEMET	CA	1	A
7M44542000168753	HEN SPRING	NV,AZ	1	A
7M44542000168754	HEN SPRING	NV,AZ	2	H
7M45490000169743	HENDERSON	NV	1	A
7M48524000172630	HI VISTA	CA	1	A
7M46955000171097	HIDALGO MOUNTAIN	CA	1	A
7M46412000170600	HIDDEN HILLS RANCH	NV	1	A
7M47606000171849	HIDDEN SPRING	CA	1	A
7M47606000171850	HIDDEN SPRING	CA	2	H
7M45754000170000	HIDDEN VALLEY	NV	1	A
7M46807000170954	HIGH PEAK	NV,CA	1	A
7M45625000169871	HIGHLAND SPRING	NV	1	A
7M45625000169872	HIGHLAND SPRING	NV	2	H
7M44683000168886	HILLER MOUNTAINS	NV,AZ	1	A
7M44009000168241	HINDU CANYON	AZ	1	A
7M49137000173173	HOCKETT PEAK	CA	1	A
7M43598000167844	HOCKEY PUCK SPRING	AZ	1	A
7M43864000168099	HOLE-N-WALL CANYON	AZ	1	A

7M43864000168100	HOLE-N-WALL CANYON	AZ	2	H
7M49027000173057	HOLLYWOOD	CA	1	A
7M49027000173058	HOLLYWOOD	CA	2	H
7M49027000173059	HOLLYWOOD	CA	3	H
7M45499000169753	HOMER	CA	1	A
7M45498000169752	HOMER MOUNTAIN	CA	1	A
7M45222000169462	HOOVER DAM	NV,AZ	1	A
7M45222000169463	HOOVER DAM	NV,AZ	2	H
7M44026000168251	HOPE SE	AZ	1	A
7M45626000169873	HOPPS WELL	NV,CA	1	A
7M48767000172809	HORSE CANYON	CA	1	A
7M44279000168506	HORSE FLAT	AZ	1	A
7M46542000170709	HORSE SPRINGS	NV	1	A
7M48503000172618	HORSE THIEF CANYON	CA	1	A
7M46546000170713	HORSE THIEF SPRINGS	CA	1	A
7M45090000169315	HOUSHOLDER PASS	AZ	1	A
7M46428000170606	HUMBUG MOUNTAIN	CA	1	A
7M49628000173668	HUME	CA	1	A
7M43479000167732	HUMMINGBIRD SPRING	AZ	1	A
7M43725000167970	HURRICANE	UT	1	A
7M46944000171090	IBEX PASS	CA	1	A
7M47077000171228	IBEX SPRING	CA	1	A
7M44546000168758	ICEBERG CANYON	NV,AZ	1	A
7M44546000168759	ICEBERG CANYON	NV,AZ	2	H
7M47358000171550	IDYLLWILD	CA	1	A
7M47358000171551	IDYLLWILD	CA	2	H
7M45374000169619	INCA	CA	1	A
7M48881000172917	INDEPENDENCE	CA	1	A
7M46825000170965	INDIAN COVE	CA	1	A
7M46825000170966	INDIAN COVE	CA	2	H
7M46144000170354	INDIAN SPRINGS SE	NV	1	A
7M46828000170971	INDIO	CA	1	A
7M49028000173060	INGLEWOOD	CA	1	A
7M48516000172626	INYOKERN	CA	1	A
7M48517000172627	INYOKERN SE	CA	1	A
7M45360000169607	IRETEBA PEAKS	NV	1	A
7M45360000169608	IRETEBA PEAKS	NV	2	H
7M46037000170265	IRIS PASS	CA	1	A
7M45767000170007	IRON MOUNTAINS	CA	1	A
7M47219000171386	IRON RIDGE	CA	1	A
7M46020000170254	IVANPAH LAKE	CA,NV	1	A
7M46020000170255	IVANPAH LAKE	CA,NV	2	H
7M43611000167855	IVES PEAK	AZ	1	A
7M48256000172423	JACKASS CANYON	CA	1	A
7M46936000171082	JACKASS FLATS	NV	1	A
7M48397000172534	JACKRABBIT HILL	CA	1	A
7M44407000168627	JACOBS WELL	AZ	1	A
7M47866000172089	JAIL CANYON	CA	1	A
7M44269000168492	JARVIS PEAK	UT,AZ	1	A
7M45886000170127	JEAN	NV	1	A
7M49008000173037	JOHNSON PEAK	CA	1	A
7M49267000173302	JOHNSONDALE	CA	1	A
7M43731000167976	JONES HILL	AZ	1	A
7M46022000170257	JOSHUA	CA	1	A
7M48629000172707	JOSHUA FLATS	CA	1	A
7M46957000171099	JOSHUA TREE NORTH	CA	1	A
7M46958000171100	JOSHUA TREE SOUTH	CA	1	A
7M44682000168885	JUMBO PEAK	NV	1	A
7M48651000172722	JUNIPER HILLS	CA	1	A
7M45363000169612	JUNIPER MINE	NV,CA	1	A
7M43882000168115	KAISER SPRING	AZ	1	A
7M49631000173671	KAWEAH	CA	1	A
7M49005000173033	KEARSARGE PEAK	CA	1	A
7M48510000172625	KEELER	CA	1	A
7M49273000173309	KEENE	CA	1	A
7M47750000171986	KELLER PEAK	CA	1	A

7M49136000173172	KERN LAKE	CA	1	A
7M49009000173038	KERN PEAK	CA	1	A
7M49140000173176	KERNVILLE	CA	1	A
7M49140000173177	KERNVILLE	CA	2	H
7M45493000169746	KEYHOLE CANYON	NV	1	A
7M46826000170967	KEYS VIEW	CA	1	A
7M46826000170968	KEYS VIEW	CA	2	H
7M44554000168764	KINGMAN	AZ	1	A
7M44690000168891	KINGMAN NW	AZ	1	A
7M44555000168765	KINGMAN SE	AZ	1	A
7M44691000168892	KINGMAN SW	AZ	1	A
7M49638000173676	KNOB HILL	CA	1	A
7M49638000173677	KNOB HILL	CA	2	H
7M43586000167831	KOLOB ARCH	UT	1	A
7M43586000167832	KOLOB ARCH	UT	2	H
7M43449000167706	KOLOB RESERVOIR	UT	1	A
7M48655000172726	LA HABRA	CA	1	A
7M49401000173438	LA LIEBRE RANCH	CA	1	A
7M46015000170247	LA MADRE MOUNTAIN	NV	1	A
7M46147000170359	LA MADRE SPRING	NV	1	A
7M44972000169177	LA PAZ MOUNTAIN	AZ,CA	1	A
7M46961000171104	LA QUINTA	CA	1	A
7M48533000172642	LAGUNA BEACH	CA	1	A
7M48533000172643	LAGUNA BEACH	CA	2	H
7M48019000172211	LAKE ELSINORE	CA	1	A
7M48019000172212	LAKE ELSINORE	CA	2	H
7M47489000171706	LAKE FULMOR	CA	1	A
7M44830000169025	LAKE HAVASU CITY NORTH	AZ	1	A
7M44830000169026	LAKE HAVASU CITY NORTH	AZ	2	H
7M44831000169027	LAKE HAVASU CITY SOUTH	AZ,CA	1	A
7M49149000173185	LAKE HUGHES	CA	1	A
7M49149000173186	LAKE HUGHES	CA	2	H
7M49141000173178	LAKE ISABELLA NORTH	CA	1	A
7M49142000173179	LAKE ISABELLA SOUTH	CA	1	A
7M48150000172327	LAKE MATHEWS	CA	1	A
7M48150000172328	LAKE MATHEWS	CA	2	H
7M47753000171989	LAKEVIEW	CA	1	A
7M49640000173679	LAMONT	CA	1	A
7M48765000172807	LAMONT PEAK	CA	1	A
7M48774000172815	LANCASTER EAST	CA	1	A
7M48898000172933	LANCASTER WEST	CA	1	A
7M47611000171856	LANE MOUNTAIN	CA	1	A
7M47346000171541	LANGFORD WELL	CA	1	A
7M45620000169865	LAS VEGAS NE	NV	1	A
7M45620000169866	LAS VEGAS NE	NV	2	H
7M45751000169996	LAS VEGAS NW	NV	1	A
7M45751000169997	LAS VEGAS NW	NV	2	H
7M45621000169867	LAS VEGAS SE	NV	1	A
7M45752000169998	LAS VEGAS SW	NV	1	A
7M44139000168372	LAST CHANCE CANYON	AZ	1	A
7M48377000172521	LAST CHANCE MOUNTAIN	CA,NV	1	A
7M48377000172522	LAST CHANCE MOUNTAIN	CA,NV	2	H
7M46674000170838	LAST CHANCE RANGE	NV	1	A
7M48252000172418	LAST CHANCE RANGE SE	CA	1	A
7M48379000172525	LAST CHANCE RANGE SW	CA	1	A
7M49000000173028	LAWS	CA	1	A
7M47343000171538	LEACH LAKE	CA	1	A
7M47475000171696	LEACH SPRING	CA	1	A
7M46425000170603	LEAD MOUNTAIN NE	CA	1	A
7M46558000170714	LEAD MOUNTAIN SW	CA	1	A
7M49522000173562	LEBEC	CA	1	A
7M48257000172424	LEE WASH	CA	1	A
7M47203000171373	LEELAND	NV,CA	1	A
7M47335000171530	LEES CAMP	CA,NV	1	A
7M44943000169149	LEITH	NV	1	A
7M48121000172310	LIDA	NV	1	A

7M49402000173439	LIEBRE MOUNTAIN	CA	1	A
7M49275000173311	LIEBRE TWINS	CA	1	A
7M44816000169011	LIME WASH	NV	1	A
7M49021000173049	LITTLE BUTTES	CA	1	A
7M45642000169878	LITTLE CHUCKWALLA MOUNTAINS	CA	1	A
7M43455000167713	LITTLE CLAYHOLE VALLEY	AZ	1	A
7M43589000167835	LITTLE CREEK MOUNTAIN	UT,AZ	1	A
7M44027000168252	LITTLE HORN MOUNTAINS NE	AZ	1	A
7M43616000167859	LITTLE HORN PEAK	AZ	1	A
7M43866000168102	LITTLE TANKS	AZ	1	A
7M44405000168624	LITTLEFIELD	AZ	1	A
7M48650000172721	LITTLEROCK	CA	1	A
7M43999000168227	LIZARD POINT	AZ	1	A
7M43999000168228	LIZARD POINT	AZ	2	H
7M49766000173800	LOCKWOOD VALLEY	CA	1	A
7M49387000173421	LODGEPOLE	CA	1	A
7M48263000172427	LONE BUTTE	CA	1	A
7M43890000168121	LONE MOUNTAIN	AZ	1	A
7M48759000172801	LONE PINE	CA	1	A
7M48905000172945	LONG BEACH	CA	1	A
7M48763000172805	LONG CANYON	CA	1	A
7M49144000173181	LORAINE	CA	1	A
7M48781000172826	LOS ALAMITOS	CA	1	A
7M48903000172942	LOS ANGELES	CA	1	A
7M48903000172943	LOS ANGELES	CA	2	H
7M46280000170479	LOST CABIN SPRING	NV	1	A
7M43453000167711	LOST SPRING MOUNTAIN EAST	AZ	1	A
7M43590000167836	LOST SPRING MOUNTAIN WEST	AZ	1	A
7M48525000172631	LOVEJOY BUTTES	CA	1	A
7M48507000172622	LOWER WARM SPRINGS	CA	1	A
7M44944000169150	LYMAN CROSSING	NV	1	A
7M48249000172415	MAGRUDER MOUNTAIN	NV	1	A
7M46693000170846	MALAPAI HILL	CA	1	A
7M46693000170847	MALAPAI HILL	CA	2	H
7M49407000173447	MALIBU BEACH	CA	1	A
7M49407000173448	MALIBU BEACH	CA	2	H
7M43474000167729	MALPAIS MESA	AZ	1	A
7M43473000167728	MALPAIS MESA NE	AZ	1	A
7M47868000172091	MANLY FALL	CA	1	A
7M47736000171981	MANLY PEAK	CA	1	A
7M48882000172918	MANZANAR	CA	1	A
7M44266000168489	MAPLE RIDGE	UT	1	A
7M48153000172332	MARGARITA PEAK	CA	1	A
7M49259000173293	MARION PEAK	CA	1	A
7M46962000171105	MARTINEZ MOUNTAIN	CA	1	A
7M46962000171106	MARTINEZ MOUNTAIN	CA	2	H
7M45504000169755	MARTINS WELL	CA	1	A
7M47999000172204	MATURANGO PEAK NE	CA	1	A
7M48000000172205	MATURANGO PEAK SE	CA	1	A
7M48756000172798	MAZOURKA PEAK	CA	1	A
7M45375000169620	MCCOY PEAK	CA	1	A
7M45241000169483	MCCOY WASH	CA	1	A
7M44290000168510	MCCRACKEN PEAK	AZ	1	A
7M45756000170002	MCCULLOUGH MOUNTAIN	NV	1	A
7M45756000170003	MCCULLOUGH MOUNTAIN	NV	2	H
7M45624000169870	MCCULLOUGH MOUNTAIN NE	NV	1	A
7M45755000170001	MCCULLOUGH PASS	NV	1	A
7M44547000168760	MEADVIEW NORTH	AZ,NV	1	A
7M44548000168761	MEADVIEW SOUTH	AZ	1	A
7M46696000170851	MECCA	CA	1	A
7M46407000170594	MERCURY NE	NV	1	A
7M46408000170595	MERCURY SE	NV	1	A
7M48400000172537	MESCAL CREEK	CA	1	A
7M46153000170367	MESCAL RANGE	CA	1	A
7M44541000168752	MESQUITE	NV,AZ	1	A
7M47862000172085	MESQUITE FLAT	CA	1	A

7M46151000170365	MESQUITE LAKE	CA,NV	1	A
7M44540000168751	MESQUITE NE	NV,AZ	1	A
7M44676000168879	MESQUITE NW	NV	1	A
7M49642000173681	METTLER	CA	1	A
7M44837000169034	MIDDLE CAMP MOUNTAIN	AZ	1	A
7M44952000169157	MIDDLE POINT	NV,AZ	1	A
7M44957000169162	MIDDLE WATER SPRING	AZ	1	A
7M44145000168381	MILKWEED CANYON NW	AZ	1	A
7M44010000168242	MILKWEED CANYON SE	AZ	1	A
7M44146000168382	MILKWEED CANYON SW	AZ	1	A
7M45766000170006	MILLIGAN	CA	1	A
7M46802000170950	MINE MOUNTAIN	NV	1	A
7M46021000170256	MINERAL HILL	CA	1	A
7M49263000173298	MINERAL KING	CA	1	A
7M49151000173187	MINT CANYON	CA	1	A
7M49151000173188	MINT CANYON	CA	2	H
7M49270000173306	MIRACLE HOT SPRINGS	CA	1	A
7M49750000173788	MIRAMONTE	CA	1	A
7M45083000169307	MOAPA EAST	NV	1	A
7M44947000169152	MOAPA PEAK	NV	1	A
7M44946000169151	MOAPA PEAK NW	NV	1	A
7M44812000169007	MOAPA PEAK SE	NV	1	A
7M45217000169457	MOAPA WEST	NV	1	A
7M45091000169316	MOHAVE MINE	AZ	1	A
7M44560000168767	MOHAVE SPRINGS	AZ	1	A
7M45369000169617	MOHAWK SPRING	CA	1	A
7M48895000172931	MOJAVE	CA	1	A
7M48770000172812	MOJAVE NE	CA	1	A
7M48886000172922	MONACHE MOUNTAIN	CA	1	A
7M44561000168768	MONKEYS HEAD	AZ	1	A
7M49019000173048	MONOLITH	CA	1	A
7M45233000169476	MONUMENTAL PASS	CA	1	A
7M44971000169176	MOON MOUNTAIN	AZ	1	A
7M44835000169032	MOON MOUNTAIN NE	AZ	1	A
7M44836000169033	MOON MOUNTAIN SE	AZ	1	A
7M47486000171703	MOONRIDGE	CA	1	A
7M49648000173691	MOORPARK	CA	1	A
7M49648000173692	MOORPARK	CA	2	H
7M45370000169618	MOPAH PEAKS	CA	1	A
7M43593000167839	MORIAH KNOLL	AZ	1	A
7M47471000171691	MORMON POINT	CA	1	A
7M47223000171389	MORONGO VALLEY	CA	1	A
7M46564000170722	MORTMAR	CA	1	A
7M49389000173423	MOSES MOUNTAIN	CA	1	A
7M44402000168620	MOTOQUA	UT	1	A
7M46544000170711	MOUND SPRING	NV,CA	1	A
7M49501000173537	MOUNT ABBOT	CA	1	A
7M49396000173432	MOUNT ADELAIDE	CA	1	A
7M49396000173433	MOUNT ADELAIDE	CA	2	H
7M48402000172539	MOUNT BALDY	CA	1	A
7M44271000168494	MOUNT BANGS	AZ	1	A
7M49133000173168	MOUNT BREWER	CA	1	A
7M49132000173167	MOUNT CLARENCE KING	CA	1	A
7M45226000169468	MOUNT DAVIS	AZ,NV	1	A
7M44006000168236	MOUNT DELLENBAUGH	AZ	1	A
7M49745000173784	MOUNT GIVENS	CA	1	A
7M49383000173417	MOUNT GODDARD	CA	1	A
7M47328000171523	MOUNT HELEN	NV	1	A
7M49503000173539	MOUNT HENRY	CA	1	A
7M49502000173538	MOUNT HILGARD	CA	1	A
7M43469000167724	MOUNT HOPE	AZ	1	A
7M47989000172194	MOUNT JACKSON	NV	1	A
7M49134000173169	MOUNT KAWEAH	CA	1	A
7M49134000173170	MOUNT KAWEAH	CA	2	H
7M48883000172919	MOUNT LANGLEY	CA	1	A
7M43595000167841	MOUNT LOGAN	AZ	1	A

7M45230000169473	MOUNT MANCHESTER	CA,NV,AZ	1	A
7M49380000173415	MOUNT MORGAN	CA	1	A
7M44826000169020	MOUNT NUTT	AZ	1	A
7M45092000169317	MOUNT PERKINS	AZ	1	A
7M49131000173166	MOUNT PINCHOT	CA	1	A
7M48401000172538	MOUNT SAN ANTONIO	CA	1	A
7M46673000170837	MOUNT SCHADER	NV	1	A
7M49386000173420	MOUNT SILLIMAN	CA	1	A
7M46541000170708	MOUNT STIRLING	NV	1	A
7M49257000173291	MOUNT THOMPSON	CA	1	A
7M44686000168889	MOUNT TIPTON NW	AZ	1	A
7M44551000168763	MOUNT TIPTON SE	AZ	1	A
7M49381000173416	MOUNT TOM	CA	1	A
7M43594000167840	MOUNT TRUMBULL	AZ	1	A
7M43457000167715	MOUNT TRUMBULL NE	AZ	1	A
7M43458000167716	MOUNT TRUMBULL SE	AZ	1	A
7M49007000173035	MOUNT WHITNEY	CA	1	A
7M49007000173036	MOUNT WHITNEY	CA	2	H
7M49006000173034	MOUNT WILLIAMSON	CA	1	A
7M45089000169314	MOUNT WILSON	AZ	1	A
7M48778000172821	MOUNT WILSON	CA	1	A
7M48778000172822	MOUNT WILSON	CA	2	H
7M44270000168493	MOUNTAIN SHEEP SPRING	AZ	1	A
7M46148000170360	MOUNTAIN SPRINGS	NV	1	A
7M46148000170361	MOUNTAIN SPRINGS	NV	2	H
7M45220000169460	MUDDY PEAK	NV	1	A
7M49507000173543	MUIR GROVE	CA	1	A
7M45109000169332	MULE WASH	AZ,CA	1	A
7M47887000172099	MURRIETA	CA	1	A
7M44280000168507	MUSIC MOUNTAINS NE	AZ	1	A
7M44415000168637	MUSIC MOUNTAINS NW	AZ	1	A
7M44281000168508	MUSIC MOUNTAINS SE	AZ	1	A
7M44416000168638	MUSIC MOUNTAINS SW	AZ	1	A
7M44137000168369	MUSTANG KNOLL	AZ	1	A
7M44137000168370	MUSTANG KNOLL	AZ	2	H
7M44140000168373	MUSTANG POINT	AZ	1	A
7M46960000171103	MYOMA	CA	1	A
7M45098000169323	NEEDLES	CA,AZ	1	A
7M45097000169322	NEEDLES NE	AZ	1	A
7M45231000169474	NEEDLES NW	AZ,CA	1	A
7M45232000169475	NEEDLES SW	CA,AZ	1	A
7M49276000173312	NEENACH SCHOOL	CA	1	A
7M43745000167991	NEGRO ED	AZ	1	A
7M43738000167987	NELSON	AZ	1	A
7M45359000169606	NELSON	NV	1	A
7M47476000171697	NELSON LAKE	CA	1	A
7M48383000172529	NELSON RANGE	CA	1	A
7M45494000169747	NELSON SW	NV	1	A
7M45494000169748	NELSON SW	NV	2	H
7M47467000171687	NEVARES PEAK	CA	1	A
7M46296000170488	NEW DALE	CA	1	A
7M43723000167967	NEW HARMONY	UT	1	A
7M43723000167968	NEW HARMONY	UT	2	H
7M44432000168648	NEW WATER MOUNTAINS	AZ	1	A
7M44297000168515	NEW WATER WELL	AZ	1	A
7M48633000172711	NEW YORK BUTTE	CA	1	A
7M49649000173693	NEWBURY PARK	CA	1	A
7M49649000173694	NEWBURY PARK	CA	2	H
7M49279000173314	NEWHALL	CA	1	A
7M49279000173315	NEWHALL	CA	2	H
7M48657000172728	NEWPORT BEACH	CA	1	A
7M48658000172729	NEWPORT BEACH OE S	CA	1	A
7M46540000170707	NIAVI WASH	NV	1	A
7M46676000170840	NOPAH PEAK	CA,NV	1	A
7M49759000173793	NORTH OF OILDALE	CA	1	A
7M49258000173292	NORTH PALISADE	CA	1	A

7M44974000169179	NORTH TRIGO PEAKS	AZ	1	A
7M47998000172203	NOVA CANYON	CA	1	A
7M46667000170833	OAK SPRING	NV	1	A
7M46666000170832	OAK SPRING BUTTE	NV	1	A
7M46697000170852	OASIS	CA	1	A
7M49280000173316	OAT MOUNTAIN	CA	1	A
7M49280000173317	OAT MOUNTAIN	CA	2	H
7M44961000169166	OATMAN	AZ	1	A
7M49639000173678	OIL CENTER	CA	1	A
7M49760000173794	OILDALE	CA	1	A
7M49272000173308	OILER PEAK	CA	1	A
7M44274000168498	OLAF KNOLLS	AZ	1	A
7M44274000168499	OLAF KNOLLS	AZ	2	H
7M48761000172803	OLANCHA	CA	1	A
7M47078000171229	OLD IBEX PASS	CA	1	A
7M48403000172540	ONTARIO	CA	1	A
7M48890000172926	ONYX	CA	1	A
7M47354000171545	ONYX PEAK	CA	1	A
7M47354000171546	ONYX PEAK	CA	2	H
7M48531000172640	ORANGE	CA	1	A
7M46432000170611	OROCOPIA CANYON	CA	1	A
7M44562000168769	OSBORNE WELL	AZ	1	A
7M44949000169154	OVERTON	NV	1	A
7M44815000169010	OVERTON BEACH	NV	1	A
7M44813000169008	OVERTON NE	NV	1	A
7M44948000169153	OVERTON NW	NV	1	A
7M44814000169009	OVERTON SE	NV	1	A
7M48635000172713	OWENS LAKE	CA	1	A
7M48641000172716	OWENS PEAK	CA	1	A
7M47342000171537	OWL LAKE	CA	1	A
7M46284000170482	PACHALKA SPRING	CA	1	A
7M48776000172817	PACIFICO MOUNTAIN	CA	1	A
7M48776000172818	PACIFICO MOUNTAIN	CA	2	H
7M46543000170710	PAHRUMP	NV	1	A
7M46411000170598	PAHRUMP NE	NV	1	A
7M46411000170599	PAHRUMP NE	NV	2	H
7M46536000170705	PAIUTE RIDGE	NV	1	A
7M44409000168629	PAKOON SPRINGS	AZ	1	A
7M45770000170010	PALEN LAKE	CA	1	A
7M47225000171391	PALM SPRINGS	CA	1	A
7M47226000171392	PALM VIEW PEAK	CA	1	A
7M48775000172816	PALMDALE	CA	1	A
7M43884000168117	PALMERITA RANCH	AZ	1	A
7M45243000169485	PALO VERDE	CA,AZ	1	A
7M47735000171980	PANAMINT	CA	1	A
7M47997000172202	PANAMINT BUTTE	CA	1	A
7M48130000172319	PANAMINT SPRINGS	CA	1	A
7M47478000171700	PARADISE RANGE	CA	1	A
7M44833000169030	PARKER	AZ,CA	1	A
7M44968000169173	PARKER NW	CA	1	A
7M44834000169031	PARKER SE	AZ,CA	1	A
7M44969000169174	PARKER SW	CA,AZ	1	A
7M48902000172940	PASADENA	CA	1	A
7M48902000172941	PASADENA	CA	2	H
7M49521000173560	PASTORIA CREEK	CA	1	A
7M49521000173561	PASTORIA CREEK	CA	2	H
7M48632000172710	PAT KEYES CANYON	CA	1	A
7M49748000173786	PATTERSON MOUNTAIN	CA	1	A
7M43874000168110	PEACH SPRINGS	AZ	1	A
7M43873000168109	PEACH SPRINGS CANYON	AZ	1	A
7M43737000167986	PEACH SPRINGS NE	AZ	1	A
7M47756000171993	PECHANGA	CA	1	A
7M47885000172097	PERRIS	CA	1	A
7M45088000169312	PETROGLYPH WASH	AZ	1	A
7M45088000169313	PETROGLYPH WASH	AZ	2	H
7M48273000172429	PHELAN	CA	1	A

7M43744000167990	PILOT KNOB	AZ	1	A
7M47739000171984	PILOT KNOB VALLEY EAST	CA	1	A
7M49516000173553	PINE MOUNTAIN	CA	1	A
7M49516000173554	PINE MOUNTAIN	CA	2	H
7M46429000170607	PINTO MOUNTAIN	CA	1	A
7M46033000170262	PINTO WELLS	CA	1	A
7M43724000167969	PINTURA	UT	1	A
7M48892000172928	PINYON MOUNTAIN	CA	1	A
7M49525000173564	PIRU	CA	1	A
7M49525000173565	PIRU	CA	2	H
7M49143000173180	PIUTE PEAK	CA	1	A
7M45219000169459	PIUTE POINT	NV	1	A
7M46165000170373	PLACER CANYON	CA	1	A
7M44427000168644	PLANET	AZ	1	A
7M49764000173798	PLEITO HILLS	CA	1	A
7M46537000170706	PLUTONIUM VALLEY	NV	1	A
7M49528000173570	POINT DUME	CA	1	A
7M49528000173571	POINT DUME	CA	2	H
7M49771000173807	POINT MUGU	CA	1	A
7M49771000173808	POINT MUGU	CA	2	H
7M46672000170836	POINT OF ROCKS	NV	1	A
7M49001000173029	POLETA CANYON	CA	1	A
7M46430000170608	PORCUPINE WASH	CA	1	A
7M49393000173427	POSEY	CA	1	A
7M44970000169175	POSTON	AZ,CA	1	A
7M46149000170362	POTOSI	NV	1	A
7M46149000170363	POTOSI	NV	2	H
7M43867000168103	POVERTY KNOLL	AZ	1	A
7M44003000168233	POVERTY SPRING	AZ	1	A
7M44428000168645	POWERLINE WELL	AZ	1	A
7M48404000172541	PRADO DAM	CA	1	A
7M48404000172542	PRADO DAM	CA	2	H
7M43871000168107	PRICE POINT	AZ	1	A
7M43461000167719	PROSPECT POINT	AZ	1	A
7M44135000168366	PURGATORY CANYON	AZ	1	A
7M44135000168367	PURGATORY CANYON	AZ	2	H
7M47474000171694	QUAIL SPRING	CA	1	A
7M47474000171695	QUAIL SPRING	CA	2	H
7M44278000168505	QUARTERMASTER CANYON	AZ	1	A
7M44414000168636	QUARTERMASTER CANYON SW	AZ	1	A
7M46799000170947	QUARTET DOME	NV	1	A
7M44702000168901	QUARTZSITE	AZ	1	A
7M46692000170845	QUEEN MOUNTAIN	CA	1	A
7M49636000173674	QUINCY SCHOOL	CA	1	A
7M49264000173299	QUINN PEAK	CA	1	A
7M46830000170973	RABBIT PEAK	CA	1	A
7M46800000170948	RAINIER MESA	NV	1	A
7M47094000171243	RANCHO MIRAGE	CA	1	A
7M47353000171544	RATTLESNAKE CANYON	CA	1	A
7M44156000168387	RAWHIDE WASH	AZ	1	A
7M46300000170492	RED CANYON	CA	1	A
7M46948000171094	RED PASS LAKE	CA	1	A
7M46947000171093	RED PASS LAKE NE	CA	1	A
7M47080000171231	RED PASS LAKE NW	CA	1	A
7M47080000171232	RED PASS LAKE NW	CA	2	H
7M44408000168628	RED POCKETS	AZ	1	A
7M47883000172095	REDLANDS	CA	1	A
7M48648000172719	REDMAN	CA	1	A
7M49156000173196	REDONDO BEACH	CA	1	A
7M44157000168388	REID VALLEY	AZ	1	A
7M48131000172320	REVENUE CANYON	CA	1	A
7M49757000173791	RICHGROVE	CA	1	A
7M48390000172531	RIDGECREST NORTH	CA	1	A
7M48391000172532	RIDGECREST SOUTH	CA	1	A
7M47222000171388	RIMROCK	CA	1	A
7M45223000169464	RINGBOLT RAPIDS	AZ,NV	1	A

7M49517000173555	RIO BRAVO RANCH	CA	1	A
7M49517000173556	RIO BRAVO RANCH	CA	2	H
7M45242000169484	RIPLEY	CA	1	A
7M48899000172934	RITTER RIDGE	CA	1	A
7M48899000172935	RITTER RIDGE	CA	2	H
7M44678000168881	RIVERSIDE	NV	1	A
7M48017000172209	RIVERSIDE EAST	CA	1	A
7M48149000172326	RIVERSIDE WEST	CA	1	A
7M45887000170128	ROACH	NV	1	A
7M43600000167846	ROBBERS ROOST CANYON	AZ	1	A
7M43727000167972	ROCK CANYON	AZ	1	A
7M48888000172924	ROCKHOUSE BASIN	CA	1	A
7M46694000170848	ROCKHOUSE CANYON	CA	1	A
7M46694000170849	ROCKHOUSE CANYON	CA	2	H
7M48523000172629	ROGERS LAKE SOUTH	CA	1	A
7M47886000172098	ROMOLAND	CA	1	A
7M45376000169621	ROOSEVELT MINE	CA	1	A
7M48897000172932	ROSAMOND	CA	1	A
7M48773000172814	ROSAMOND LAKE	CA	1	A
7M49627000173667	ROUGH SPUR	CA	1	A
7M49255000173288	ROVANA	CA	1	A
7M45215000169455	ROX	NV	1	A
7M45081000169305	ROX NE	NV	1	A
7M45082000169306	ROX SE	NV	1	A
7M43730000167975	RUSSELL SPRING	AZ	1	A
7M47337000171532	RYAN	CA	1	A
7M48764000172806	SACATAR CANYON	CA	1	A
7M43996000168224	SADDLE MOUNTAIN	UT	1	A
7M46945000171091	SADDLE PEAK HILLS	CA	1	A
7M47623000171864	SAGE	CA	1	A
7M43998000168226	SAINT GEORGE	UT,AZ	1	A
7M44138000168371	SAINT GEORGE CANYON	AZ	1	A
7M44544000168756	SAINT THOMAS GAP	AZ,NV	1	A
7M48380000172526	SALINE PEAK	CA	1	A
7M48380000172527	SALINE PEAK	CA	2	H
7M47076000171227	SALSBERRY PEAK	CA	1	A
7M48643000172718	SALTDALE NW	CA	1	A
7M46565000170723	SALTON	CA	1	A
7M46565000170724	SALTON	CA	2	H
7M48015000172207	SAN BERNARDINO NORTH	CA	1	A
7M48016000172208	SAN BERNARDINO SOUTH	CA	1	A
7M46297000170489	SAN BERNARDINO WASH	CA	1	A
7M48281000172441	SAN CLEMENTE	CA	1	A
7M48529000172636	SAN DIMAS	CA	1	A
7M48529000172637	SAN DIMAS	CA	2	H
7M49152000173189	SAN FERNANDO	CA	1	A
7M49152000173190	SAN FERNANDO	CA	2	H
7M47487000171704	SAN GORGONIO MOUNTAIN	CA	1	A
7M47621000171862	SAN JACINTO	CA	1	A
7M47357000171549	SAN JACINTO PEAK	CA	1	A
7M48407000172547	SAN JUAN CAPISTRANO	CA	1	A
7M49030000173062	SAN PEDRO	CA	1	A
7M48771000172813	SANBORN	CA	1	A
7M49637000173675	SAND CANYON	CA	1	A
7M48127000172316	SAND FLAT	CA	1	A
7M48251000172417	SAND SPRING	CA,NV	1	A
7M49773000173810	SANTA BARBARA ISLAND	CA	1	A
7M44133000168363	SANTA CLARA	UT	1	A
7M44133000168364	SANTA CLARA	UT	2	H
7M49769000173804	SANTA PAULA	CA	1	A
7M49768000173803	SANTA PAULA PEAK	CA	1	A
7M48279000172437	SANTIAGO PEAK	CA	1	A
7M48279000172438	SANTIAGO PEAK	CA	2	H
7M45102000169325	SAVAHIA PEAK	CA	1	A
7M45235000169478	SAVAHIA PEAK NW	CA	1	A
7M45236000169479	SAVAHIA PEAK SW	CA	1	A

7M44538000168749	SCARECROW PEAK	UT,NV	1	A
7M47992000172197	SCOTTYS CASTLE	CA,NV	1	A
7M47725000171970	SCOTTYS JUNCTION	NV	1	A
7M47724000171969	SCOTTYS JUNCTION NE	NV	1	A
7M47857000172081	SCOTTYS JUNCTION SW	NV	1	A
7M43470000167725	SCRATCH CANYON	AZ	1	A
7M47066000171217	SCRUGHAM PEAK	NV	1	A
7M48782000172827	SEAL BEACH	CA	1	A
7M45495000169749	SEARCHLIGHT	NV	1	A
7M45362000169611	SEARCHLIGHT SE	NV	1	A
7M44825000169019	SECRET PASS	AZ	1	A
7M44820000169016	SENATOR MOUNTAIN	AZ	1	A
7M44819000169015	SENATOR MOUNTAIN NE	AZ	1	A
7M44954000169159	SENATOR MOUNTAIN NW	AZ	1	A
7M44955000169160	SENATOR MOUNTAIN SW	AZ	1	A
7M49266000173301	SENTINEL PEAK	CA	1	A
7M44008000168239	SEPARATION CANYON	AZ	1	A
7M44008000168240	SEPARATION CANYON	AZ	2	H
7M47092000171240	SEVEN PALMS VALLEY	CA	1	A
7M47092000171241	SEVEN PALMS VALLEY	CA	2	H
7M49630000173670	SHADEQUARTER MOUNTAIN	CA	1	A
7M48272000172428	SHADOW MOUNTAINS SE	CA	1	A
7M49744000173782	SHARKTOOTH PEAK	CA	1	A
7M49744000173783	SHARKTOOTH PEAK	CA	2	H
7M45765000170005	SHEEP CAMP SPRING	CA	1	A
7M46946000171092	SHEEP CREEK SPRING	CA	1	A
7M45748000169993	SHEEP PEAK	NV	1	A
7M46150000170364	SHENANDOAH PEAK	NV,CA	1	A
7M44268000168491	SHIVWITS	UT	1	A
7M47340000171535	SHORE LINE BUTTE	CA	1	A
7M46943000171089	SHOSHONE	CA	1	A
7M44155000168386	SIGNAL	AZ	1	A
7M44019000168247	SIGNAL MOUNTAIN	AZ	1	A
7M43860000168094	SIGNAL PEAK	UT	1	A
7M43860000168095	SIGNAL PEAK	UT	2	H
7M47065000171216	SILENT BUTTE	NV	1	A
7M46680000170841	SILURIAN HILLS	CA	1	A
7M46813000170958	SILURIAN LAKE	CA	1	A
7M46814000170959	SILURIAN VALLEY	CA	1	A
7M49388000173422	SILVER CITY	CA	1	A
7M48014000172206	SILVERWOOD LAKE	CA	1	A
7M49405000173443	SIMI VALLEY EAST	CA	1	A
7M49405000173444	SIMI VALLEY EAST	CA	2	H
7M49526000173566	SIMI VALLEY WEST	CA	1	A
7M49526000173567	SIMI VALLEY WEST	CA	2	H
7M49012000173041	SIRRETTA PEAK	CA	1	A
7M48152000172331	SITTON PEAK	CA	1	A
7M46675000170839	SIXMILE SPRING	NV,CA	1	A
7M46938000171084	SKELETON HILLS	NV	1	A
7M46803000170951	SKULL MOUNTAIN	NV	1	A
7M49023000173051	SLEEPY VALLEY	CA	1	A
7M49384000173418	SLIDE BLUFFS	CA	1	A
7M45753000169999	SLOAN	NV	1	A
7M45622000169868	SLOAN NE	NV	1	A
7M45623000169869	SLOAN SE	NV	1	A
7M43587000167833	SMITH MESA	UT	1	A
7M43750000167996	SMITH PEAK	AZ	1	A
7M43749000167995	SMITH PEAK NE	AZ	1	A
7M43885000168118	SMITH PEAK NW	AZ	1	A
7M43452000167710	SMITHSONIAN BUTTE	UT,AZ	1	A
7M45234000169477	SNAGGLETOOTH	CA	1	A
7M44276000168501	SNAP CANYON EAST	AZ	1	A
7M44276000168502	SNAP CANYON EAST	AZ	2	H
7M44411000168631	SNAP CANYON WEST	AZ	1	A
7M44411000168632	SNAP CANYON WEST	AZ	2	H
7M44141000168374	SNAP DRAW	AZ	1	A

7M43888000168120	SOCORRO PEAK	AZ	1	A
7M48628000172706	SOLDIER PASS	CA	1	A
7M49391000173425	SOLO PEAK	CA	1	A
7M47737000171982	SOURDOUGH SPRING	CA	1	A
7M48904000172944	SOUTH GATE	CA	1	A
7M47071000171222	SOUTH OF AMARGOSA VALLEY	NV	1	A
7M46804000170952	SPECTER RANGE NW	NV	1	A
7M44144000168379	SPENCER CANYON	AZ	1	A
7M44144000168380	SPENCER CANYON	AZ	2	H
7M49261000173295	SPHINX LAKES	CA	1	A
7M45228000169470	SPIRIT MOUNTAIN	NV	1	A
7M45228000169471	SPIRIT MOUNTAIN	NV	2	H
7M45093000169318	SPIRIT MOUNTAIN NE	AZ,NV	1	A
7M45227000169469	SPIRIT MOUNTAIN NW	NV,AZ	1	A
7M45094000169319	SPIRIT MOUNTAIN SE	AZ,NV	1	A
7M49130000173165	SPLIT MOUNTAIN	CA	1	A
7M47463000171683	SPRINGDALE	NV	1	A
7M47462000171682	SPRINGDALE NE	NV	1	A
7M47594000171837	SPRINGDALE NW	NV	1	A
7M47595000171838	SPRINGDALE SW	NV	1	A
7M43451000167709	SPRINGDALE WEST	UT	1	A
7M49511000173547	SPRINGVILLE	CA	1	A
7M43467000167722	SQUAW PEAK	AZ	1	A
7M44696000168895	STANDARD WASH	AZ,CA	1	A
7M46019000170253	STATE LINE PASS	CA,NV	1	A
7M48018000172210	STEELE PEAK	CA	1	A
7M45367000169616	STEPLADDER MOUNTAINS NE	CA	1	A
7M46808000170955	STEWART VALLEY	CA,NV	1	A
7M47856000172080	STONEWALL PASS	NV	1	A
7M47863000172086	STOVEPIPE WELLS	CA	1	A
7M47730000171975	STOVEPIPE WELLS NE	CA	1	A
7M46937000171083	STRIPED HILLS	NV	1	A
7M46413000170601	STUMP SPRING	NV,CA	1	A
7M44001000168230	SULLIVAN DRAW NORTH	AZ	1	A
7M44001000168231	SULLIVAN DRAW NORTH	AZ	2	H
7M44002000168232	SULLIVAN DRAW SOUTH	AZ	1	A
7M46798000170946	SUNDOWN RESERVOIR	NV	1	A
7M46824000170964	SUNFAIR	CA	1	A
7M45214000169454	SUNFLOWER MOUNTAIN	NV	1	A
7M49025000173054	SUNLAND	CA	1	A
7M47884000172096	SUNNYMEAD	CA	1	A
7M43606000167850	SUNRISE PEAK	AZ	1	A
7M44292000168512	SWANSEA	AZ	1	A
7M48502000172617	SYLVANIA CANYON	CA,NV	1	A
7M48376000172520	SYLVANIA MOUNTAINS	NV,CA	1	A
7M48385000172530	TALC CITY HILLS	CA	1	A
7M48254000172420	TEAKETTLE JUNCTION	CA	1	A
7M48254000172421	TEAKETTLE JUNCTION	CA	2	H
7M49018000173047	TEHACHAPI NE	CA	1	A
7M49145000173182	TEHACHAPI NORTH	CA	1	A
7M49146000173183	TEHACHAPI SOUTH	CA	1	A
7M49505000173541	TEHIPITE DOME	CA	1	A
7M49520000173559	TEJON HILLS	CA	1	A
7M49399000173436	TEJON RANCH	CA	1	A
7M48274000172430	TELEGRAPH PEAK	CA	1	A
7M47734000171979	TELESCOPE PEAK	CA	1	A
7M47888000172100	TEMECULA	CA	1	A
7M48885000172921	TEMPLETON MOUNTAIN	CA	1	A
7M45496000169750	TENMILE WELL	NV,CA	1	A
7M44539000168750	TERRY BENCHES	NV,UT,AZ	1	A
7M43726000167971	THE DIVIDE	UT,AZ	1	A
7M48129000172318	THE DUNES	CA	1	A
7M43729000167974	THE GRANDSTAND	AZ	1	A
7M43450000167707	THE GUARDIAN ANGELS	UT	1	A
7M43450000167708	THE GUARDIAN ANGELS	UT	2	H
7M49260000173294	THE SPHINX	CA	1	A

7M44818000169014	THE TEMPLE	NV,AZ	1	A
7M46695000170850	THERMAL CANYON	CA	1	A
7M47729000171974	THIMBLE PEAK	CA,NV	1	A
7M47198000171368	THIRSTY CANYON	NV	1	A
7M47330000171525	THIRSTY CANYON NW	NV	1	A
7M47199000171369	THIRSTY CANYON SE	NV	1	A
7M47331000171526	THIRSTY CANYON SW	NV	1	A
7M43610000167854	THORN PEAK	AZ	1	A
7M49527000173568	THOUSAND OAKS	CA	1	A
7M49527000173569	THOUSAND OAKS	CA	2	H
7M45377000169622	THUMB PEAK	CA	1	A
7M47213000171384	TIEFORT MOUNTAINS	CA	1	A
7M43615000167858	TIGER WELL	AZ	1	A
7M47067000171218	TIMBER MOUNTAIN	NV	1	A
7M48125000172314	TIN MOUNTAIN	CA	1	A
7M44142000168375	TINCANEBITTS POINT	AZ	1	A
7M44142000168376	TINCANEBITTS POINT	AZ	2	H
7M48879000172915	TINEMAHA RESERVOIR	CA	1	A
7M46801000170949	TIPPIPAH SPRING	NV	1	A
7M49268000173303	TOBIAS PEAK	CA	1	A
7M47461000171681	TOLICHA PEAK	NV	1	A
7M47460000171680	TOLICHA PEAK NE	NV	1	A
7M47592000171835	TOLICHA PEAK NW	NV	1	A
7M47593000171836	TOLICHA PEAK SW	NV	1	A
7M49282000173319	TOPANGA	CA	1	A
7M49282000173320	TOPANGA	CA	2	H
7M49767000173801	TOPATOPA MOUNTAINS	CA	1	A
7M49767000173802	TOPATOPA MOUNTAINS	CA	2	H
7M44964000169169	TOPOCK	AZ,CA	1	A
7M46935000171081	TOPOPAH SPRING	NV	1	A
7M47068000171219	TOPOPAH SPRING NW	NV	1	A
7M47095000171244	TORO PEAK	CA	1	A
7M49029000173061	TORRANCE	CA	1	A
7M47197000171367	TRAIL RIDGE	NV	1	A
7M43872000168108	TRAVERTINE RAPIDS	AZ	1	A
7M49262000173296	TRIPLE DIVIDE PEAK	CA	1	A
7M49262000173297	TRIPLE DIVIDE PEAK	CA	2	H
7M49650000173695	TRIUNFO PASS	CA	1	A
7M49650000173696	TRIUNFO PASS	CA	2	H
7M44011000168243	TRUXTON	AZ	1	A
7M47732000171977	TUCKI WASH	CA	1	A
7M48250000172416	TULE CANYON	NV,CA	1	A
7M45882000170123	TULE SPRINGS PARK	NV	1	A
7M49256000173289	TUNGSTEN HILLS	CA	1	A
7M49256000173290	TUNGSTEN HILLS	CA	2	H
7M48532000172641	TUSTIN	CA	1	A
7M46809000170956	TWELVEMILE SPRING	CA	1	A
7M46691000170844	TWENTYNINE PALMS	CA	1	A
7M46560000170716	TWENTYNINE PALMS MOUNTAIN	CA	1	A
7M48124000172313	UBEHEBE CRATER	CA	1	A
7M48255000172422	UBEHEBE PEAK	CA	1	A
7M48878000172914	UHLMEYER SPRING	CA	1	A
7M44960000169165	UNION PASS	AZ	1	A
7M48758000172800	UNION WASH	CA	1	A
7M45218000169458	UTE	NV	1	A
7M47624000171865	VAIL LAKE	CA	1	A
7M47624000171866	VAIL LAKE	CA	2	H
7M49404000173441	VAL VERDE	CA	1	A
7M49404000173442	VAL VERDE	CA	2	H
7M44147000168383	VALENTINE	AZ	1	A
7M44012000168244	VALENTINE SE	AZ	1	A
7M46829000170972	VALERIE	CA	1	A
7M45619000169864	VALLEY	NV	1	A
7M46559000170715	VALLEY MOUNTAIN	CA	1	A
7M44950000169155	VALLEY OF FIRE EAST	NV	1	A
7M45085000169309	VALLEY OF FIRE WEST	NV	1	A

7M46285000170483	VALLEY WELLS	CA	1	A
7M48526000172632	VALYERMO	CA	1	A
7M49153000173191	VAN NUYS	CA	1	A
7M49153000173192	VAN NUYS	CA	2	H
7M49155000173195	VENICE	CA	1	A
7M49749000173787	VERPLANK RIDGE	CA	1	A
7M44132000168362	VEYO	UT	1	A
7M44296000168514	VICKSBURG	AZ	1	A
7M46034000170263	VICTORY PASS	CA	1	A
7M45104000169327	VIDAL	CA	1	A
7M45103000169326	VIDAL JUNCTION	CA	1	A
7M45080000169304	VIGO	NV	1	A
7M45079000169303	VIGO NE	NV	1	A
7M43588000167834	VIRGIN	UT	1	A
7M44543000168755	VIRGIN PEAK	NV,AZ	1	A
7M43459000167717	VULCANS THRONE	AZ	1	A
7M43460000167718	VULCANS THRONE SE	AZ	1	A
7M43597000167843	VULCANS THRONE SW	AZ	1	A
7M44421000168639	WABAYUMA PEAK	AZ	1	A
7M47728000171973	WAHGUYHE PEAK	NV,CA	1	A
7M48766000172808	WALKER PASS	CA	1	A
7M49625000173665	WARD MOUNTAIN	CA	1	A
7M44827000169021	WARM SPRINGS	AZ	1	A
7M44828000169022	WARM SPRINGS SE	AZ	1	A
7M44963000169168	WARM SPRINGS SW	AZ	1	A
7M43997000168225	WASHINGTON	UT	1	A
7M43862000168097	WASHINGTON DOME	UT,AZ	1	A
7M46562000170718	WASHINGTON WASH	CA	1	A
7M48652000172723	WATERMAN MOUNTAIN	CA	1	A
7M48631000172709	WAUCOBA CANYON	CA	1	A
7M48755000172797	WAUCOBA MOUNTAIN	CA	1	A
7M48630000172708	WAUCOBA SPRING	CA	1	A
7M43887000168119	WEBBER CANYON	AZ	1	A
7M49641000173680	WEED PATCH	CA	1	A
7M45084000169308	WEISER RIDGE	NV	1	A
7M49014000173043	WELDON	CA	1	A
7M43753000167997	WELDON HILL	AZ	1	A
7M46827000170969	WEST BERDOO CANYON	CA	1	A
7M46827000170970	WEST BERDOO CANYON	CA	2	H
7M46949000171095	WEST CRONISE LAKE	CA	1	A
7M46949000171096	WEST CRONISE LAKE	CA	2	H
7M44403000168621	WEST MOUNTAIN PEAK	UT	1	A
7M44403000168622	WEST MOUNTAIN PEAK	UT	2	H
7M46815000170960	WEST OF BAKER	CA	1	A
7M47344000171539	WEST OF DRINKWATER LAKE	CA	1	A
7M47074000171225	WEST OF EAGLE MOUNTAIN	CA	1	A
7M47600000171843	WEST OF FURNACE CREEK	CA	1	A
7M48123000172312	WEST OF GOLD MOUNTAIN	NV,CA	1	A
7M45497000169751	WEST OF JUNIPER MINE	CA,NV	1	A
7M47607000171851	WEST OF LEACH SPRING	CA	1	A
7M45503000169754	WEST OF MOHAWK SPRING	CA	1	A
7M47608000171852	WEST OF NELSON LAKE	CA	1	A
7M45769000170009	WEST OF PALEN PASS	CA	1	A
7M47081000171233	WEST OF RED PASS LAKE	CA	1	A
7M47081000171234	WEST OF RED PASS LAKE	CA	2	H
7M46282000170481	WEST OF SHENANDOAH PEAK	CA,NV	1	A
7M46816000170961	WEST OF SODA LAKE	CA	1	A
7M48381000172528	WEST OF TEAKETTLE JUNCTION	CA	1	A
7M48877000172913	WESTGARD PASS	CA	1	A
7M46665000170831	WHEELBARROW PEAK	NV	1	A
7M46410000170597	WHEELER WELL	NV	1	A
7M44967000169172	WHIPPLE MOUNTAINS SW	CA	1	A
7M44832000169028	WHIPPLE WASH	CA	1	A
7M44832000169029	WHIPPLE WASH	CA	2	H
7M49403000173440	WHITAKER PEAK	CA	1	A
7M48889000172925	WHITE DOME	CA	1	A

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Last modified: 16 August 1996

Utah State
UNIVERSITY

Spatial Data

Status Report

Attachment #6

1:100,000 Maps Digital Line Graphs

Department of Geography and Earth Resources, College of Natural Resources

U.S. Geological Survey - National Mapping Information - EROS Data Center - GLIS -- Help

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1:100,000-Scale Digital Line Graphs: Inventory Search Results

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Report Generated on: Wed Oct 9 14:15:20 1996

Search Criteria

Geographic Coverage: RANGE, 33.5000, 37.5000, -119.0000, -113.0000

694 metadata records matched your query.

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1J01599EHP013279	LAST CHANCE RANGE	E	CA,NV	HP	Y
1J01599EHY013280	LAST CHANCE RANGE	E	CA,NV	HY	Y
1J01599EPL013281	LAST CHANCE RANGE	E	CA,NV	PL	Y
1J01599ETR013282	LAST CHANCE RANGE	E	CA,NV	MT	Y
1J01599ETR013282	LAST CHANCE RANGE	E	CA,NV	RD	Y
1J01599WBD013283	LAST CHANCE RANGE	W	CA,NV	BD	Y
1J01599WHP013284	LAST CHANCE RANGE	W	CA,NV	HP	Y
1J01599WHY013285	LAST CHANCE RANGE	W	CA,NV	HY	Y
1J01599WPL013286	LAST CHANCE RANGE	W	CA,NV	PL	Y
1J01599WTR013287	LAST CHANCE RANGE	W	CA,NV	RD	Y
1J01478EBD012196	LITTLE HORN MOUNTAINS	E	AZ	BD	Y
1J01478EHY012197	LITTLE HORN MOUNTAINS	E	AZ	HY	Y
1J01478ETR012198	LITTLE HORN MOUNTAINS	E	AZ	MT	Y
1J01478ETR012198	LITTLE HORN MOUNTAINS	E	AZ	RD	Y
1J01478ETR012198	LITTLE HORN MOUNTAINS	E	AZ	RR	Y
1J01478WBD012199	LITTLE HORN MOUNTAINS	W	AZ	BD	Y
1J01478WHY012200	LITTLE HORN MOUNTAINS	W	AZ	HY	Y
1J01478WTR012201	LITTLE HORN MOUNTAINS	W	AZ	MT	Y
1J01478WTR012201	LITTLE HORN MOUNTAINS	W	AZ	RD	Y
1J01464EHP012085	LITTLEFIELD	E	AZ	HP	Y
1J01464EHY012086	LITTLEFIELD	E	AZ	HY	Y
1J01464EPL012087	LITTLEFIELD	E	AZ	PL	Y
1J01464ETR012088	LITTLEFIELD	E	AZ	MT	Y
1J01464ETR012088	LITTLEFIELD	E	AZ	RD	Y
1J01464WHP012090	LITTLEFIELD	W	AZ	HP	Y
1J01464WHY012091	LITTLEFIELD	W	AZ	HY	Y
1J01464WPL012092	LITTLEFIELD	W	AZ	PL	Y
1J01464WTR012093	LITTLEFIELD	W	AZ	MT	Y
1J01464WTR012093	LITTLEFIELD	W	AZ	RD	Y
1J01680EBD014012	LONG BEACH	E	CA	BD	Y
1J01680EHP014013	LONG BEACH	E	CA	HP	Y
1J01680EHY014014	LONG BEACH	E	CA	HY	Y
1J01680EPL014015	LONG BEACH	E	CA	PL	Y
1J01680ETR014016	LONG BEACH	E	CA	MT	Y
1J01680ETR014016	LONG BEACH	E	CA	RD	Y
1J01680ETR014016	LONG BEACH	E	CA	RR	Y
1J01678EBD013994	LOS ANGELES	E	CA	BD	Y
1J01678EHP013995	LOS ANGELES	E	CA	HP	Y
1J01678EHY013996	LOS ANGELES	E	CA	HY	Y
1J01678EPL013997	LOS ANGELES	E	CA	PL	Y
1J01678ETR013998	LOS ANGELES	E	CA	MT	Y
1J01678ETR013998	LOS ANGELES	E	CA	RD	Y
1J01678ETR013998	LOS ANGELES	E	CA	RR	Y
1J01678WBD013999	LOS ANGELES	W	CA	BD	Y
1J01678WHP014000	LOS ANGELES	W	CA	HP	Y

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1J01678WHY014001|LOS ANGELES                |W|CA          |HY|   Y
1J01678WPL014002|LOS ANGELES                |W|CA          |PL|   Y
1J01678WTR014003|LOS ANGELES                |W|CA          |MT|   Y
1J01678WTR014003|LOS ANGELES                |W|CA          |RD|   Y
1J01678WTR014003|LOS ANGELES                |W|CA          |RR|   Y
1J01538EBD012712|MESQUITE LAKE              |E|CA,NV        |BD|   Y
1J01538EHP012713|MESQUITE LAKE              |E|CA,NV        |HP|   Y
1J01538EHY012714|MESQUITE LAKE              |E|CA,NV        |HY|   Y
1J01538EPL012715|MESQUITE LAKE              |E|CA,NV        |PL|   Y
1J01538ETR012716|MESQUITE LAKE              |E|CA,NV        |MT|   Y
1J01538ETR012716|MESQUITE LAKE              |E|CA,NV        |RD|   Y
1J01538ETR012716|MESQUITE LAKE              |E|CA,NV        |RR|   Y
1J01538WBD012717|MESQUITE LAKE              |W|CA,NV        |BD|   Y
1J01538WHP012718|MESQUITE LAKE              |W|CA,NV        |HP|   Y
1J01538WHY012719|MESQUITE LAKE              |W|CA,NV        |HY|   Y
1J01538WPL012720|MESQUITE LAKE              |W|CA,NV        |PL|   Y
1J01538WTR012721|MESQUITE LAKE              |W|CA,NV        |MT|   Y
1J01538WTR012721|MESQUITE LAKE              |W|CA,NV        |RD|   Y
1J01466EBD012104|MOUNT TRUMBULL             |E|AZ          |BD|   Y
1J01466EHP012105|MOUNT TRUMBULL             |E|AZ          |HP|   Y
1J01466EHY012106|MOUNT TRUMBULL             |E|AZ          |HY|   Y
1J01466EPL012107|MOUNT TRUMBULL             |E|AZ          |PL|   Y
1J01466ETR012108|MOUNT TRUMBULL             |E|AZ          |MT|   Y
1J01466ETR012108|MOUNT TRUMBULL             |E|AZ          |RD|   Y
1J01466WBD012109|MOUNT TRUMBULL             |W|AZ          |BD|   Y
1J01466WHP012110|MOUNT TRUMBULL             |W|AZ          |HP|   Y
1J01466WHY012111|MOUNT TRUMBULL             |W|AZ          |HY|   Y
1J01466WPL012112|MOUNT TRUMBULL             |W|AZ          |PL|   Y
1J01466WTR012113|MOUNT TRUMBULL             |W|AZ          |MT|   Y
1J01466WTR012113|MOUNT TRUMBULL             |W|AZ          |RD|   Y
1J01668EBD013908|MOUNT WHITNEY              |E|CA          |BD|   Y
1J01668EHY013909|MOUNT WHITNEY              |E|CA          |HY|   Y
1J01668ETR013910|MOUNT WHITNEY              |E|CA          |MT|   Y
1J01668ETR013910|MOUNT WHITNEY              |E|CA          |RD|   Y
1J01668ETR013910|MOUNT WHITNEY              |E|CA          |RR|   Y
1J01668WBD013911|MOUNT WHITNEY              |W|CA          |BD|   Y
1J01668WHY013912|MOUNT WHITNEY              |W|CA          |HY|   Y
1J01668WTR013913|MOUNT WHITNEY              |W|CA          |RD|   Y
1J01543EBD012762|NEEDLES                    |E|CA,AZ        |BD|   Y
1J01543EHP012763|NEEDLES                    |E|CA,AZ        |HP|   Y
1J01543EHY012764|NEEDLES                    |E|CA,AZ        |HY|   Y
1J01543EPL012765|NEEDLES                    |E|CA,AZ        |PL|   Y
1J01543ETR012766|NEEDLES                    |E|CA,AZ        |MT|   Y
1J01543ETR012766|NEEDLES                    |E|CA,AZ        |RD|   Y
1J01543ETR012766|NEEDLES                    |E|CA,AZ        |RR|   Y
1J01543WBD012767|NEEDLES                    |W|CA,AZ        |BD|   Y
1J01543WHP012768|NEEDLES                    |W|CA,AZ        |HP|   Y
1J01543WHY012769|NEEDLES                    |W|CA,AZ        |HY|   Y
1J01543WPL012770|NEEDLES                    |W|CA,AZ        |PL|   Y
1J01543WTR012771|NEEDLES                    |W|CA,AZ        |MT|   Y
1J01543WTR012771|NEEDLES                    |W|CA,AZ        |RD|   Y
1J01543WTR012771|NEEDLES                    |W|CA,AZ        |RR|   Y
1J01610EBD013372|NEWBERRY SPRINGS           |E|CA          |BD|   Y
1J01610EHY013373|NEWBERRY SPRINGS           |E|CA          |HY|   Y
1J01610EPL013374|NEWBERRY SPRINGS           |E|CA          |PL|   Y
1J01610ETR013375|NEWBERRY SPRINGS           |E|CA          |MT|   Y
1J01610ETR013375|NEWBERRY SPRINGS           |E|CA          |RD|   Y
1J01610ETR013375|NEWBERRY SPRINGS           |E|CA          |RR|   Y
1J01610WBD013376|NEWBERRY SPRINGS           |W|CA          |BD|   Y
1J01610WHY013377|NEWBERRY SPRINGS           |W|CA          |HY|   Y
1J01610WPL013378|NEWBERRY SPRINGS           |W|CA          |PL|   Y
1J01610WTR013379|NEWBERRY SPRINGS           |W|CA          |MT|   Y
1J01610WTR013379|NEWBERRY SPRINGS           |W|CA          |RD|   Y
1J01610WTR013379|NEWBERRY SPRINGS           |W|CA          |RR|   Y
1J01615EBD013420|OCEANSIDE                  |E|CA          |BD|   Y
1J01615EHP013421|OCEANSIDE                  |E|CA          |HP|   Y
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1J01615EHY013422	OCEANSIDE	E	CA	HY	Y
1J01615EPL013423	OCEANSIDE	E	CA	PL	Y
1J01615ETR013424	OCEANSIDE	E	CA	MT	Y
1J01615ETR013424	OCEANSIDE	E	CA	RD	Y
1J01615ETR013424	OCEANSIDE	E	CA	RR	Y
1J01615WBD013425	OCEANSIDE	W	CA	BD	Y
1J01615WHP013426	OCEANSIDE	W	CA	HP	Y
1J01615WHY013427	OCEANSIDE	W	CA	HY	Y
1J01615WPL013428	OCEANSIDE	W	CA	PL	Y
1J01615WTR013429	OCEANSIDE	W	CA	MT	Y
1J01615WTR013429	OCEANSIDE	W	CA	RD	Y
1J01615WTR013429	OCEANSIDE	W	CA	RR	Y
1J01535EBD012682	OVERTON	E	NV,AZ	BD	Y
1J01535EHP012683	OVERTON	E	NV,AZ	HP	Y
1J01535EHY012684	OVERTON	E	NV,AZ	HY	Y
1J01535EPL012685	OVERTON	E	NV,AZ	PL	Y
1J01535ETR012686	OVERTON	E	NV,AZ	MT	Y
1J01535ETR012686	OVERTON	E	NV,AZ	RD	Y
1J01535ETR012686	OVERTON	E	NV,AZ	RR	Y
1J01535WBD012687	OVERTON	W	NV,AZ	BD	Y
1J01535WHP012688	OVERTON	W	NV,AZ	HP	Y
1J01535WHY012689	OVERTON	W	NV,AZ	HY	Y
1J01535WPL012690	OVERTON	W	NV,AZ	PL	Y
1J01535WTR012691	OVERTON	W	NV,AZ	MT	Y
1J01535WTR012691	OVERTON	W	NV,AZ	RD	Y
1J01535WTR012691	OVERTON	W	NV,AZ	RR	Y
1J01606EBD013340	OWLSHEAD MOUNTAINS	E	CA	BD	Y
1J01606EHY013341	OWLSHEAD MOUNTAINS	E	CA	HY	Y
1J01606ETR013342	OWLSHEAD MOUNTAINS	E	CA	MT	Y
1J01606ETR013342	OWLSHEAD MOUNTAINS	E	CA	RD	Y
1J01606WBD013343	OWLSHEAD MOUNTAINS	W	CA	BD	Y
1J01606WHY013344	OWLSHEAD MOUNTAINS	W	CA	HY	Y
1J01606WTR013345	OWLSHEAD MOUNTAINS	W	CA	RD	Y
1J01532EBD012652	PAHRANAGAT RANGE	E	NV	BD	Y
1J01532EHP012653	PAHRANAGAT RANGE	E	NV	HP	Y
1J01532EHY012654	PAHRANAGAT RANGE	E	NV	HY	Y
1J01532EPL012655	PAHRANAGAT RANGE	E	NV	PL	Y
1J01532ETR012656	PAHRANAGAT RANGE	E	NV	MT	Y
1J01532ETR012656	PAHRANAGAT RANGE	E	NV	RD	Y
1J01532WBD012657	PAHRANAGAT RANGE	W	NV	BD	Y
1J01532WHP012658	PAHRANAGAT RANGE	W	NV	HP	Y
1J01532WHY012659	PAHRANAGAT RANGE	W	NV	HY	Y
1J01532WPL012660	PAHRANAGAT RANGE	W	NV	PL	Y
1J01532WTR012661	PAHRANAGAT RANGE	W	NV	MT	Y
1J01532WTR012661	PAHRANAGAT RANGE	W	NV	RD	Y
1J01600EBD013288	PAHUTE MESA	E	NV	BD	Y
1J01600EHP013289	PAHUTE MESA	E	NV	HP	Y
1J01600EHY013290	PAHUTE MESA	E	NV	HY	Y
1J01600EPL013291	PAHUTE MESA	E	NV	PL	Y
1J01600ETR013292	PAHUTE MESA	E	NV	MT	Y
1J01600ETR013292	PAHUTE MESA	E	NV	RD	Y
1J01600WBD013293	PAHUTE MESA	W	NV	BD	Y
1J01600WHP013294	PAHUTE MESA	W	NV	HP	Y
1J01600WHY013295	PAHUTE MESA	W	NV	HY	Y
1J01600WPL013296	PAHUTE MESA	W	NV	PL	Y
1J01600WTR013297	PAHUTE MESA	W	NV	MT	Y
1J01600WTR013297	PAHUTE MESA	W	NV	RD	Y
1J01614EBD013410	PALM SPRINGS	E	CA	BD	Y
1J01614EHP013411	PALM SPRINGS	E	CA	HP	Y
1J01614EHY013412	PALM SPRINGS	E	CA	HY	Y
1J01614EPL013413	PALM SPRINGS	E	CA	PL	Y
1J01614ETR013414	PALM SPRINGS	E	CA	MT	Y
1J01614ETR013414	PALM SPRINGS	E	CA	RD	Y
1J01614ETR013414	PALM SPRINGS	E	CA	RR	Y
1J01614WBD013415	PALM SPRINGS	W	CA	BD	Y
1J01614WHP013416	PALM SPRINGS	W	CA	HP	Y

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1J01614WHY013417|PALM SPRINGS                |W|CA          |HY|   Y
1J01614WPL013418|PALM SPRINGS                |W|CA          |PL|   Y
1J01614WTR013419|PALM SPRINGS                |W|CA          |MT|   Y
1J01614WTR013419|PALM SPRINGS                |W|CA          |RD|   Y
1J01614WTR013419|PALM SPRINGS                |W|CA          |RR|   Y
1J01545EBD012782|PARKER                      |E|AZ,CA        |BD|   Y
1J01545EHP012783|PARKER                      |E|AZ,CA        |HP|   Y
1J01545EHY012784|PARKER                      |E|AZ,CA        |HY|   Y
1J01545EPL012785|PARKER                      |E|AZ,CA        |PL|   Y
1J01545ETR012786|PARKER                      |E|AZ,CA        |MT|   Y
1J01545ETR012786|PARKER                      |E|AZ,CA        |RD|   Y
1J01545ETR012786|PARKER                      |E|AZ,CA        |RR|   Y
1J01545WBD012787|PARKER                      |W|AZ,CA        |BD|   Y
1J01545WHP012788|PARKER                      |W|AZ,CA        |HP|   Y
1J01545WHY012789|PARKER                      |W|AZ,CA        |HY|   Y
1J01545WPL012790|PARKER                      |W|AZ,CA        |PL|   Y
1J01545WTR012791|PARKER                      |W|AZ,CA        |MT|   Y
1J01545WTR012791|PARKER                      |W|AZ,CA        |RD|   Y
1J01545WTR012791|PARKER                      |W|AZ,CA        |RR|   Y
1J01468EBD012124|PEACH SPRINGS               |E|AZ           |BD|   Y
1J01468EHP012125|PEACH SPRINGS               |E|AZ           |HP|   Y
1J01468EHY012126|PEACH SPRINGS               |E|AZ           |HY|   Y
1J01468EPL012127|PEACH SPRINGS               |E|AZ           |PL|   Y
1J01468ETR012128|PEACH SPRINGS               |E|AZ           |MT|   Y
1J01468ETR012128|PEACH SPRINGS               |E|AZ           |RD|   Y
1J01468ETR012128|PEACH SPRINGS               |E|AZ           |RR|   Y
1J01468WBD012129|PEACH SPRINGS               |W|AZ           |BD|   Y
1J01468WHP012130|PEACH SPRINGS               |W|AZ           |HP|   Y
1J01468WHY012131|PEACH SPRINGS               |W|AZ           |HY|   Y
1J01468WPL012132|PEACH SPRINGS               |W|AZ           |PL|   Y
1J01468WTR012133|PEACH SPRINGS               |W|AZ           |MT|   Y
1J01468WTR012133|PEACH SPRINGS               |W|AZ           |RD|   Y
1J01605EBD013334|RIDGECREST                  |E|CA           |BD|   Y
1J01605EHY013335|RIDGECREST                  |E|CA           |HY|   Y
1J01605ETR013336|RIDGECREST                  |E|CA           |MT|   Y
1J01605ETR013336|RIDGECREST                  |E|CA           |RD|   Y
1J01605ETR013336|RIDGECREST                  |E|CA           |RR|   Y
1J01605WBD013337|RIDGECREST                  |W|CA           |BD|   Y
1J01605WHY013338|RIDGECREST                  |W|CA           |HY|   Y
1J01605WTR013339|RIDGECREST                  |W|CA           |MT|   Y
1J01605WTR013339|RIDGECREST                  |W|CA           |RD|   Y
1J01605WTR013339|RIDGECREST                  |W|CA           |RR|   Y
1J01462EBD012064|SAINT GEORGE                |E|UT,AZ        |BD|   Y
1J01462EHP012065|SAINT GEORGE                |E|UT,AZ        |HP|   Y
1J01462EHY012066|SAINT GEORGE                |E|UT,AZ        |HY|   Y
1J01462EPL012067|SAINT GEORGE                |E|UT,AZ        |PL|   Y
1J01462ETR012068|SAINT GEORGE                |E|UT,AZ        |MT|   Y
1J01462ETR012068|SAINT GEORGE                |E|UT,AZ        |RD|   Y
1J01462ETR012068|SAINT GEORGE                |E|UT,AZ        |RR|   Y
1J01462WBD012069|SAINT GEORGE                |W|UT,AZ        |BD|   Y
1J01462WHP012070|SAINT GEORGE                |W|UT,AZ        |HP|   Y
1J01462WHY012071|SAINT GEORGE                |W|UT,AZ        |HY|   Y
1J01462WPL012072|SAINT GEORGE                |W|UT,AZ        |PL|   Y
1J01462WTR012073|SAINT GEORGE                |W|UT,AZ        |MT|   Y
1J01462WTR012073|SAINT GEORGE                |W|UT,AZ        |RD|   Y
1J01601EBD013298|SALINE VALLEY               |E|CA,NV        |BD|   Y
1J01601EHP013299|SALINE VALLEY               |E|CA,NV        |HP|   Y
1J01601EHY013300|SALINE VALLEY               |E|CA,NV        |HY|   Y
1J01601EPL013301|SALINE VALLEY               |E|CA,NV        |PL|   Y
1J01601ETR013302|SALINE VALLEY               |E|CA,NV        |MT|   Y
1J01601ETR013302|SALINE VALLEY               |E|CA,NV        |RD|   Y
1J01601WBD013303|SALINE VALLEY               |W|CA,NV        |BD|   Y
1J01601WHP013304|SALINE VALLEY               |W|CA,NV        |HP|   Y
1J01601WHY013305|SALINE VALLEY               |W|CA,NV        |HY|   Y
1J01601WPL013306|SALINE VALLEY               |W|CA,NV        |PL|   Y
1J01601WTR013307|SALINE VALLEY               |W|CA,NV        |MT|   Y
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1J01601WTR013307	SALINE VALLEY	W	CA,NV	RD	Y
1J01476EBD012180	SALOME	E	AZ	BD	Y
1J01476EHY012181	SALOME	E	AZ	HY	Y
1J01476EPL012182	SALOME	E	AZ	PL	Y
1J01476ETR012183	SALOME	E	AZ	MT	Y
1J01476ETR012183	SALOME	E	AZ	RD	Y
1J01476ETR012183	SALOME	E	AZ	RR	Y
1J01476WBD012184	SALOME	W	AZ	BD	Y
1J01476WHY012185	SALOME	W	AZ	HY	Y
1J01476WPL012186	SALOME	W	AZ	PL	Y
1J01476WTR012187	SALOME	W	AZ	MT	Y
1J01476WTR012187	SALOME	W	AZ	RD	Y
1J01476WTR012187	SALOME	W	AZ	RR	Y
1J01548EBD012812	SALTON SEA	E	CA	BD	Y
1J01548EHP012813	SALTON SEA	E	CA	HP	Y
1J01548EHY012814	SALTON SEA	E	CA	HY	Y
1J01548EPL012815	SALTON SEA	E	CA	PL	Y
1J01548ETR012816	SALTON SEA	E	CA	MT	Y
1J01548ETR012816	SALTON SEA	E	CA	RD	Y
1J01548ETR012816	SALTON SEA	E	CA	RR	Y
1J01548WBD012817	SALTON SEA	W	CA	BD	Y
1J01548WHP012818	SALTON SEA	W	CA	HP	Y
1J01548WHY012819	SALTON SEA	W	CA	HY	Y
1J01548WPL012820	SALTON SEA	W	CA	PL	Y
1J01548WTR012821	SALTON SEA	W	CA	MT	Y
1J01548WTR012821	SALTON SEA	W	CA	RD	Y
1J01548WTR012821	SALTON SEA	W	CA	RR	Y
1J01611EBD013380	SAN BERNARDINO	E	CA	BD	Y
1J01611EHP013381	SAN BERNARDINO	E	CA	HP	Y
1J01611EHY013382	SAN BERNARDINO	E	CA	HY	Y
1J01611EPL013383	SAN BERNARDINO	E	CA	PL	Y
1J01611ETR013384	SAN BERNARDINO	E	CA	MT	Y
1J01611ETR013384	SAN BERNARDINO	E	CA	RD	Y
1J01611ETR013384	SAN BERNARDINO	E	CA	RR	Y
1J01611WBD013385	SAN BERNARDINO	W	CA	BD	Y
1J01611WHP013386	SAN BERNARDINO	W	CA	HP	Y
1J01611WHY013387	SAN BERNARDINO	W	CA	HY	Y
1J01611WPL013388	SAN BERNARDINO	W	CA	PL	Y
1J01611WTR013389	SAN BERNARDINO	W	CA	MT	Y
1J01611WTR013389	SAN BERNARDINO	W	CA	RD	Y
1J01611WTR013389	SAN BERNARDINO	W	CA	RR	Y
1J01681EHY014017	SAN NICOLAS ISLAND	E	CA	HY	Y
1J01681ETR014018	SAN NICOLAS ISLAND	E	CA	MT	Y
1J01681ETR014018	SAN NICOLAS ISLAND	E	CA	RD	Y
1J01613EBD013400	SANTA ANA	E	CA	BD	Y
1J01613EHP013401	SANTA ANA	E	CA	HP	Y
1J01613EHY013402	SANTA ANA	E	CA	HY	Y
1J01613EPL013403	SANTA ANA	E	CA	PL	Y
1J01613ETR013404	SANTA ANA	E	CA	MT	Y
1J01613ETR013404	SANTA ANA	E	CA	RD	Y
1J01613ETR013404	SANTA ANA	E	CA	RR	Y
1J01613WBD013405	SANTA ANA	W	CA	BD	Y
1J01613WHP013406	SANTA ANA	W	CA	HP	Y
1J01613WHY013407	SANTA ANA	W	CA	HY	Y
1J01613WPL013408	SANTA ANA	W	CA	PL	Y
1J01613WTR013409	SANTA ANA	W	CA	MT	Y
1J01613WTR013409	SANTA ANA	W	CA	RD	Y
1J01613WTR013409	SANTA ANA	W	CA	RR	Y
1J01677EBD013984	SANTA BARBARA	E	CA	BD	Y
1J01677EHP013985	SANTA BARBARA	E	CA	HP	Y
1J01677EHY013986	SANTA BARBARA	E	CA	HY	Y
1J01677EPL013987	SANTA BARBARA	E	CA	PL	Y
1J01677ETR013988	SANTA BARBARA	E	CA	MT	Y
1J01677ETR013988	SANTA BARBARA	E	CA	RD	Y
1J01677ETR013988	SANTA BARBARA	E	CA	RR	Y
1J01682EBD014021	SANTA CATALINA ISLAND	E	CA	BD	Y

```
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1J01682EPL014024|SANTA CATALINA ISLAND          |E|CA      |PL|   Y
1J01682ETR014025|SANTA CATALINA ISLAND          |E|CA      |MT|   Y
1J01682ETR014025|SANTA CATALINA ISLAND          |E|CA      |RD|   Y
1J01682WBD014026|SANTA CATALINA ISLAND          |W|CA      |BD|   Y
1J01682WHP014027|SANTA CATALINA ISLAND          |W|CA      |HP|   Y
1J01682WHY014028|SANTA CATALINA ISLAND          |W|CA      |HY|   Y
1J01682WPL014029|SANTA CATALINA ISLAND          |W|CA      |PL|   Y
1J01682WTR014030|SANTA CATALINA ISLAND          |W|CA      |MT|   Y
1J01682WTR014030|SANTA CATALINA ISLAND          |W|CA      |RD|   Y
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1J01665EHY013889|SHAVER LAKE                    |E|CA      |HY|   Y
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1J01665ETR013891|SHAVER LAKE                    |E|CA      |RD|   Y
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1J01544EHP012773|SHEEP HOLE MOUNTAINS           |E|CA      |HP|   Y
1J01544EHY012774|SHEEP HOLE MOUNTAINS           |E|CA      |HY|   Y
1J01544EPL012775|SHEEP HOLE MOUNTAINS           |E|CA      |PL|   Y
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1J01544WTR012781|SHEEP HOLE MOUNTAINS           |W|CA      |MT|   Y
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1J01608ETR013357|SODA MOUNTAINS                 |E|CA      |MT|   Y
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1J01608ETR013357|SODA MOUNTAINS                 |E|CA      |RR|   Y
1J01608WBD013358|SODA MOUNTAINS                 |W|CA      |BD|   Y
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1J01608WPL013360|SODA MOUNTAINS                 |W|CA      |PL|   Y
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1J01608WTR013361|SODA MOUNTAINS                 |W|CA      |RR|   Y
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1J01673EPL013949|TAFT                           |E|CA      |PL|   Y
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1J01670EHY013923|THREE RIVERS                   |E|CA      |HY|   Y
1J01670EPL013924|THREE RIVERS                   |E|CA      |PL|   Y
1J01670ETR013925|THREE RIVERS                   |E|CA      |MT|   Y
1J01670ETR013925|THREE RIVERS                   |E|CA      |RD|   Y
1J01670ETR013925|THREE RIVERS                   |E|CA      |RR|   Y
```

1J01670WBD013926	THREE RIVERS	W	CA	BD	Y
1J01670WHY013927	THREE RIVERS	W	CA	HY	Y
1J01670WPL013928	THREE RIVERS	W	CA	PL	Y
1J01670WTR013929	THREE RIVERS	W	CA	MT	Y
1J01670WTR013929	THREE RIVERS	W	CA	RD	Y
1J01670WTR013929	THREE RIVERS	W	CA	RR	Y
1J01549EBD012822	TRIGO MOUNTAINS	E	AZ,CA	BD	Y
1J01549EHP012823	TRIGO MOUNTAINS	E	AZ,CA	HP	Y
1J01549EHY012824	TRIGO MOUNTAINS	E	AZ,CA	HY	Y
1J01549EPL012825	TRIGO MOUNTAINS	E	AZ,CA	PL	Y
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1J01669EPL013916	VISALIA	E	CA	PL	Y
1J01669ETR013917	VISALIA	E	CA	MT	Y
1J01669ETR013917	VISALIA	E	CA	RD	Y
1J01669ETR013917	VISALIA	E	CA	RR	Y

[:^:] Return to GLIS Home Page

<URL:http://edcwww.cr.usgs.gov/Webglis/glisbin/results.pl>
Page owner: < webglis@edcwww.cr.usgs.gov>
Last modified: 16 August 1996

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Spatial Data

Status Report

Attachment #7

U.S.G.S. 7 Minute DEM Data Dictionary

Department of Geography and Earth Resources, College of Natural Resources

[USGS Logo] U.S. Geological Survey - National Mapping Information - EROS Data Center - GLIS

HELP: 7_MIN_DEM Data Dictionary

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* Accuracy
* Accuracy Flag
* Acquisition Date
* Area Indicator
* Availability
* Coordinate System
* Current Digitizer
* Current Load Date
* Date Updated
* Datum H
* Datum V
* Entity ID
* Level
* Map Name
* Process Code
* Revision Date
* Revision Type
* Source Date
* State
* Version
* XY Units
* Zone
* Z Units
* Index to All Windows

Entity ID Window

* Field Definition: This field is used to uniquely identify data which can be ordered in any combination of unique products.

  Example:
  Entity ID: 7M12693000007689
  Where:
  7M = Data Set Identifier
  12693 = Quad Sequence Number
  00 = Blank filled
  0007689 = Sequence number within data set.

Acquisition Date

* Field Definition :The acquisition date refers to the date the data used to create the maps was acquired. Make sure to use the specified user format when entering a date.

Date of Update

* Field Definition: Date the record was added or last updated. Make sure to use the specified user format when entering a date.

Map Name

* Field Definition: 7.5 minute quadrangle map name.

State

* Field Definition: Two character state abbreviation.

Availability Flag

* Field Definition: Contains "A" or "H" for Historical or Available.

Version

* Field Definition: This number identifies the version of the overlay. Version 1 will always be the most current.

Source Date

* Field Definition: Year and month indicating the date of the original (oldest) source.

  Format = YYMM

Revision Date

* Field Definition: Year and month indicating the date of the most recent source.

  Format = YYMM

Level

* Field Definition: Level 1 DEMs are elevation data sets in a standardized format. A vertical root mean square error (RMSE) of 7 meters is the desired accuracy standard. Level 2 DEMs are elevation data sets that have been processed or smoothed for consistency and edited to remove identifiable systematic errors. A RMSE of one-half contour interval is the maximum permitted. Level 3 DEMs are derived from DLG data by using selected elements from both hypsography and hydrography. The USGS does not currently produce level 3 DEM data.

Coordinate System

* Field Definition: Code indicating which coordinate system was used when capturing the digital information.

Current Digitizer

* Field Definition: This field identifies the agency which digitized the current overlay.

Current Load Date

* Field Definition: Current date the overlay was loaded. The format used is: YYYYMMDD.

Datum V

* Field Definition: Source vertical datum code.

  1 = local mean sea level
  2 = NGVD 29
  3 = NAVD 88

Datum H

* Field Definition: Source horizontal datum code.

  1 = NAD 27
  2 = WGS 72
  3 = WGS 84
  4 = NAD 83
  5 = Old Hawaii
  6 = Puerto Rico

Area Indicator

* Field Definition: An indicator to note how well a search area is covered by an inventory entity. Valid codes include:

    P = Partial coverage of the search area within the entity.
    C = The entity coverage is within the search area.
    S = The search area is within the entity coverage.

  This field only relates to geographic searches.

Accuracy Flag

* Field Definition: Flag indicating which level of accuracy quad was stored in the system.

  Codes are:

    R = RSAM = 7 meters
    S = SSAM = 15 meters

Process Code

* Field Definition: The USGS has used four processes to collect these data:

    1 = GPM II
    2 = Manual Profile
    3 = DLG2 DEM, CTOG, Linetrace
    4 = DCASS

  The Gestalt Photo Mapper II was an automated photogrammetric system designed to produce orthophotographs, digital terrain data, and contours. The manual profiling process uses stereo plotters, equipped with three-axis electronic digital profile recording modules, for scanning of stereo models along successive terrain profiles. For stereo model digitizing of contours, digital contours were acquired in digital form on stereo plotters equipped with three-axis digital recording modules. Derivation of DEMs from DLGs is a process that involves the use of hardware such as scanners, manual digitizers, and/or semi-automated line followers.

XY Units

* Field Definition: Code indicating the units used for the X and Y coordinates of each quad.

  1 = Feet
  2 = Meters
  3 = Seconds of Arc

Zone

* Field Definition:Zone number appropriate to the coordinate system in use for the area covered by the quad.

Z Units

* Field Definition:Code indicating the units of measurement used for for elevations.

  1 = Feet
  2 = Meters

Accuracy

* Field Definition:Expresses the relative and/or absolute accuracy of the coordinates of the local file reference system relative to the ground coordinate system.

[:^:] Go to GLIS Home Page

<URL:http://edcwww.cr.usgs.gov/Webglis/help/7_min_dem.html >
Page owner: <edcweb@edcwww.cr.usgs.gov>
Last modified: 16 April 1996

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Spatial Data

Status Report

Attachment #8

2-Arc-Second DEM Field Definitions

Department of Geography and Earth Resources, College of Natural Resources

[USGS Logo] U.S. Geological Survey - National Mapping Information - EROS Data Center - GLIS

HELP: 2-Arc-Second DEM

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* Entity ID
* Half
* Map Name
* State

Entity ID

* Field Definition: This field is used to uniquely identify data which can be ordered in any combination of unique products.

  Example:
  Entity ID: 3M01146E00004143
  Where:
  1J = Data Set Identifier for DLG
  01341 = Quad Sequence Number
  E = East Half of quadrangle
  00 = Blank filled
  004143 = Sequence number within data set.

Half

* Field Definition: Uniquely identifies which half of the map the data is referring to.

  Valid Codes:
  E = East
  W = West

Map Name

* Field Definition: This field is used to identify a quadrangle map name defining a geographic area.

State

* Field Definition: This field identifies a two character state abbreviation defining a geographic area.

[:^:] Go to GLIS Home Page

<URL:http://edcwww.cr.usgs.gov/Webglis/help/dem_2_arc/dem_2_arc.html >
Page owner: <edcweb@edcwww.cr.usgs.gov>
Last modified: 3 May 1996

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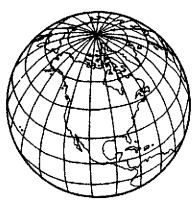
Spatial Data

Status Report

Attachment #9

1:100,000 Digital Line Graphs
Field Definitions



Department of Geography and Earth Resources, College of Natural Resources

[USGS Logo] U.S. Geological Survey - National Mapping Information - EROS Data Center - GLIS

HELP: 100K_DLG

---

* Entity ID
* Half
* Map Name
* Overlay
* State

Entity ID

* Field Definition: This field is used to uniquely identify data which can be ordered in any combination of unique products.

  Example:
  Entity ID: 1J00341ETR002273
  Where:
  1J = Data Set Identifier for DLG
  01341 = Quad Sequence Number
  E = East Half of quadrangle
  002273 = Sequence number within data set.

Half

* Field Definition: Uniquely identifies which half of the 100K map the data is referring to.

  Valid Codes:
  E = East
  W = West

Map Name

* Field Definition: This is the 100K quadrangle map name defining a geographic area.

Overlay

* Field Definition: This field is the two character overlay category defining a geographic area. This field uniquely identifies individual overlay categories for digital line graphs which can be ordered in any combination of unique products.

  Following are the seven overlay categories available and unique codes for each:

  - HP = Hypsography
  - HY = Hydrography
  - MT = Miscellaneous Transportation
  - PL = Political
  - RD = Roads
  - RR = Railroads
  - BD = Boundaries

State

* Field Definition: This is the two character state abbreviation defining a geographic area.

<URL:http://edcwww.cr.usgs.gov/Webglis/help/100kdlg/100kdlgdict.html >
Page owner: <edcweb@edcwww.cr.usgs.gov>
Last modified: 19 April 1996

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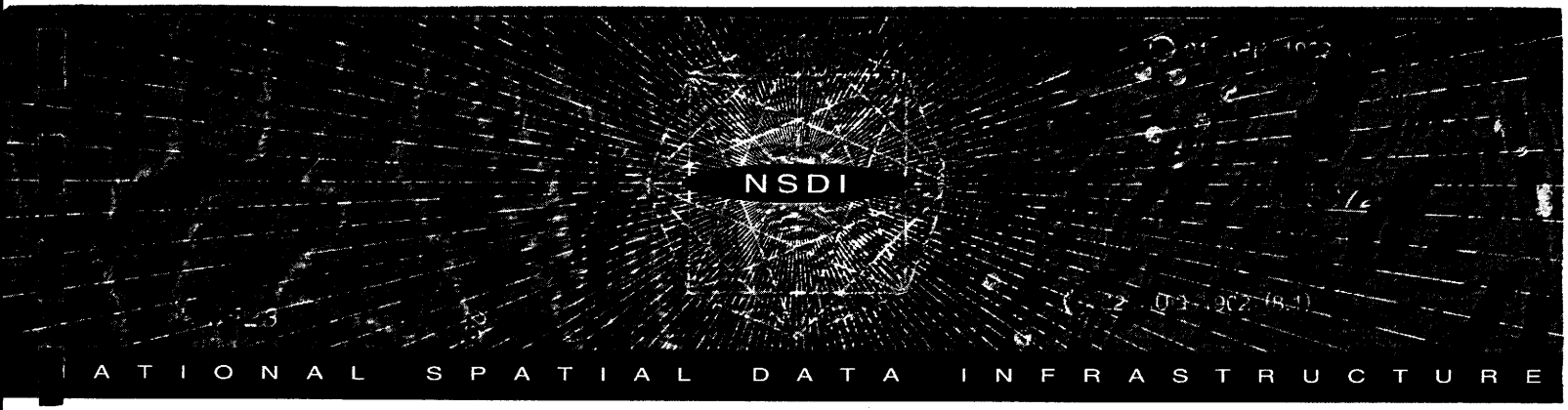
Spatial Data

Status Report

Attachment #10

Federal Geographic Data Committee
Fact Sheet

Department of Geography and Earth Resources, College of Natural Resources



JULY 1996

The Federal Geographic Data Committee

The Federal Geographic Data Committee (FGDC) is an interagency committee that promotes the coordinated development, use, sharing, and dissemination of geospatial data on a national basis. The FGDC was established by the Office of Management and Budget (OMB) in its 1990 revision of Circular A-16, "Coordination of Surveying, Mapping, and Related Spatial Data Activities." The FGDC is composed of representatives from 14 Cabinet level and independent Federal agencies (see table). Currently, Secretary Bruce Babbitt of the Department of the Interior chairs the FGDC.

To coordinate various themes of geospatial data that will contribute to the development of a National Spatial Data Infrastructure, OMB assigned lead coordination responsibilities to specific Federal agencies. This thematic organization is reflected in the FGDC subcommittee structure (see chart). FGDC working groups play a crosscutting role, dealing with issues that span many subcommittees. Working groups have been formed to establish guidelines for preserving data, to establish a National Geospatial Data Clearinghouse, to provide for the creation of framework data, and to develop and implement data standards. New working groups are striving to facilitate data sharing through common schemes to identify and classify Earth cover, to monitor environmental change, and to deal with facilities and other large-scale data issues.

The Federal Geographic Data Committee (FGDC)

Chair — Bruce Babbitt, Secretary of the Interior

Department of Agriculture — Tom Hebert, Deputy Assistant Secretary for Natural Resources and Environment

Department of Commerce — Diana H. Josephson, Deputy Under Secretary for the National Oceanic and Atmospheric Administration

Department of Defense — corepresentatives: Steven Stockton, Chief, Engineering Division, Directorate of Civil Works, U.S. Army Corps of Engineers, and Walter Senus, Chief Scientist, Defense Mapping Agency

Department of Energy — Jay Hakes, Administrator, Energy Information Administration

Department of Housing and Urban Development — Richard Burk, Community Connection

Department of the Interior - Mark Schaefer, Deputy Assistant Secretary for Water and Science

Department of State — William B. Wood, The Geographer

Department of Transportation — T. R. Lakshmanan, Director, Bureau of Transportation Statistics

Environmental Protection Agency — Al Pesachowitz, Acting Assistant Administrator for Administration and Resource Management

Federal Emergency Management Agency — Dennis DeWalt, Deputy Associate Director, Operations Support Directorate

Library of Congress —Ralph Ehrenberg, Chief, Geography and Map Division

National Aeronautics and Space Administration — Dixon Butler, Director, Operations, Data and Information Division

National Archives and Records Administration — Kenneth Thibodeau, Director, Center for Electronic Records

Tennessee Valley Authority — Alan Voss, Project Engineer, Geographic Information and Engineering Department

FEDERAL GEOGRAPHIC DATA COMMITTEE
U.S. GEOLOGICAL SURVEY, 590 NATIONAL CENTER
RESTON, VIRGINIA 20192

PHONE: 703-648-5514
FAX: 703-648-5755
EMAIL: GDC@USGS.GOV

FGDC COORDINATION

Circular A-16 defined specific coordination responsibilities for the FGDC to include:

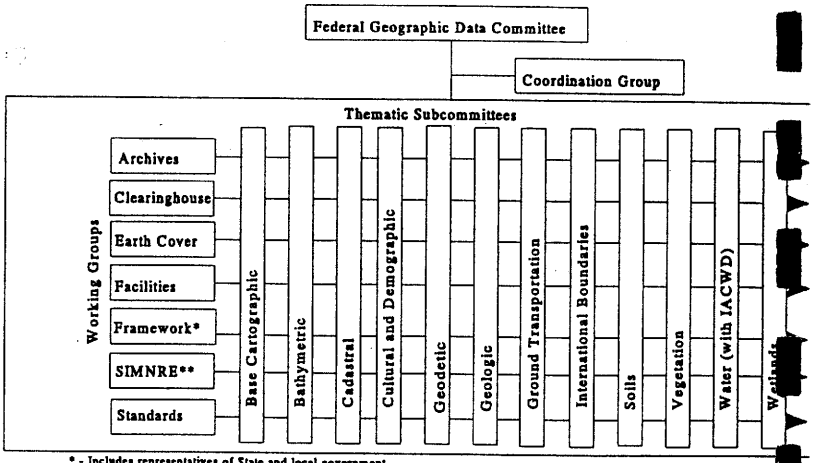
Promoting the development, maintenance, and management of distributed data bases of geospatial data that are national in scope.

Encouraging the development and implementation of standards and exchange formats.

Promoting technology development, transfer and exchange.

Interacting with other Federal coordinating bodies that deal with geospatial data.

Publishing technical and management reports.



FGDC Subcommittees and Lead Departments

Base Cartographic - Interior
Bathymetric - Commerce
Cadastral - Interior
Cultural and Demographic - Commerce
Geodetic - Commerce
Geologic - Interior
Ground Transportation - Transportation
International Boundaries - State
Soils - Agriculture
Vegetation - Agriculture
Water - cosponsored with the Interagency Advisory Committee on Water Data
Wetlands -Interior

THE FGDC AND THE NATIONAL SPATIAL DATA INFRASTRUCTURE

To extend the scope of Circular A-16 in support of the National Information Infrastructure, President Clinton issued Executive Order 12906, "Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure (NSDI)." NSDI encompasses the technology, policies, standards and human resources necessary to acquire, process, store, distribute, and improve the use of geospatial data. In the Executive Order, the FGDC was given an expanded role in coordinating the NSDI with a mandate to involve State, local, and tribal governments, academia, and the private sector.

Through its committees and working groups the FGDC supports activities in areas crucial to the NSDI: development of a National Clearinghouse for spatial data, development of standards for the sharing of geospatial data, creation of a national digital geospatial data framework of basic data themes, and promotion of cooperative ventures and cost sharing agreements for geospatial data among partners outside the Federal sector.

FGDC ACTIVITIES

The FGDC committees and working groups provide the basic structure for institutions and individuals to come together to discuss and work on various aspects of the implementation of the NSDI.

The FGDC also sponsors other activities. In recent years the FGDC has:

- sponsored national forums on geospatial data;
- instituted a grant program to support cooperative agreements for Clearinghouse, metadata, and framework development with participants from State and local governments and academia;
- developed and adopted a content standard for digital geospatial metadata;
- developed a reference model to define the standards development process;
- developed user training materials and conducted workshops throughout the country to support the metadata standard and Clearinghouse efforts;
- supported the continuing evolution of the National Geospatial Data Clearinghouse;
- developed a framework plan and identified framework pilot projects to test the proposed concept and to improve the plan.

For more information on the FGDC or to receive the committee's newsletter, please contact us at the above address.

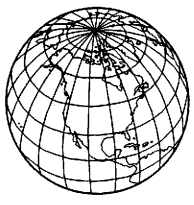
Utah State University

Spatial Data

Status Report

Attachment #11

Standards Working Group
Current Report: March 1996



Department of Geography and Earth Resources, College of Natural Resources

Federal Geographic Data Committee

Standards Working Group

Last Update March 1996

Federal Geographic Data Committee Secretariat

USGS MS 590 National Center

12201 Sunrise Valley Drive

1. Introduction

This document describes a reference model for Federal Geographic Data Committee (FGDC) Standards. It is intended to provide guidance and direction to FGD Standards developers and users. This document was developed by the FGDC Standards Working Group (SWG).

1.1 Mission and Goals for the FGDC Standards

Office of Management and Budget (OMB) Revised Circular A-16, October 1990, (hereafter called Circular A-16) describes the responsibilities of Federal agencies respect to coordination of Federal surveying, mapping, and related spatial data acti for the purpose of developing a national spatial data information resource, reducing duplication, reducing the expense of data collection, and increasing the sharing of available data. Spatial data are defined in Circular A-16 as geographically referen features that are described by geographic positions and attributes in an analog and/ computer-readable (digital) form. Circular A-16 creates the FGDC and assigns responsibilities for coordinating geospatial data themes to different Federal Depart including the establishment and implementation of data standards for quality, conten and transfer.

Executive Order Number 12906, April 1994 designates the FGDC as the lead entity to coordinate the National Spatial Data Infrastructure (NSDI), which is defin the technology, policies, standards, and human resources necessary to acquire, proce store, distribute, and improve utilization of geospatial data. Section 4 (a) of the states:

> (a) General FGDC Responsibility. The FGDC shall develop standards for implementing the NSDI, in consultation and cooperation with State, local, and tribal governments, the private and academic sectors, and, to the extent feasib the international community, consistent with OMB Circular No. A-119 ("Federal

Federal Geographic Data Committee - Standards Working Group

Standards Reference Model

March 1996

Participation in the Development and Use of Voluntary Standards"), and other applicable law and policies.

The EO further designates standards development responsibilities for a category of data to agencies assigned those categories in OMB Circular No. A-16 and allows ot standards to be identified and developed within the FGDC through its members. The FGDC is charged to promote the use of these standards and whenever appropriate submi them to the Commerce Department for consideration as Federal Information Processing Standards.

The Federal Geographic Data Committee's (FGDC) Standards Working Group (SWG) was established to help meet the FGDC objectives and activities identified in Circular A-16 and Executive Order 12906. The SWG provides guidance to the FGDC subcommittees and working groups on standards policies and procedures, reviews standards proposals and standards documents for compliance to these policies and procedures, and makes recommendation to the Coordination Group for final FGDC endorsement.

The FGDC Standards Reference Model represents an effort by the SWG to document standards policies and procedures and to provide guidelines by which the FGDC will conduct standards development. This model describes the relationship of FGDC to oth standards bodies, identifies the expectations of FGDC standards, defines the various of geospatial data standards and outlines the FGDC standards development process.

1.2 Relationship of FGDC Standards to Other Standards

There are many standards that may support the NSDI.

Agency Standards - Agency standards may be developed to support specific applications or mandates within one agency. Any agency or organization may

support or recognize an agency standard. Typically the sphere of influence in development, maintenance, and use of an agency standard is contained within a single agency. Cooperative agreements between or among agencies to develop specific standards are included in Agency Standards.

Federal Information Processing System Standards - Federal Information Processing System (FIPS) Standards are developed to standardize data and processes among federal agencies. Their goal is to gain efficiency and economy through widespread use. These standards are generally mandated for use by federal agencies.

Federal Geographic Data Committee Standards - FGDC Standards are developed in response to OMB Circular A-16 and EO 12906 which mandate data sharing and adherence to common standards for Federal agencies. They are intended to be national in scope and to go beyond individual agencies and the federal government enterprise. They support national and collective decision making and applications and are developed jointly by federal, state, and local governments and other interested participants. They are only mandatory for federal agencies.

Industry Standards - Industries Standards are developed in the private sector b cooperating firms. Their production may be coordinated by a single firm, a gro of firms, a not-for-profit organization or a standards organization. These standards are voluntary unless conformance is mandated through contract or agreement.

American National Standards - American National Standards (ANS) are endorsed by the American National Standards Institute (ANSI) and are national i scope. These are voluntary standards developed and supported by commercial industries that implement technology, but any individual or organization includ governments can participate in the development of an ANS.

International Standards - The International Organization for Standardization (ISO) is the primary international standards organization for information technology. Organizations gain access to ISO through their national standards body. In the U.S. this is ANSI.

FGDC standards may be impacted in their development or adoption by other standards or may impact or contribute to other standards.

1.3 Description of FGDC Standards

As national standards in support of the NSDI, there are several expectations fo FGDC Standards.

Within FGDC Scope - FGDC Standards will be within the purview and scope of the objectives of the FGDC. FGDC Standards must relate to geospatial data, cover appropriate topical areas, and standardize either data or processes to advance data sharing and minimize duplication of effort.

Future Focused - Future focused means that FGDC standards are intended to remove impedances to sharing information rather than changing existing successful data sharing arrangements. FGDC Standards should be developed to promote new and enhanced interaction with existing Federal coordinating mechanisms that have interest in the generation, collection, use, and transfer spatial data. FGDC standards need to focus on solving future problems. FGDC Standards are not intended to re-formalize existing solutions.

Structured - FGDC standards need to be developed and presented in a structured manner that will lead to understandability and useability by consumers. This reference model provides minimal guidelines for development and documentation of standards. There are many structured methodologies that can be employed by

standards developers that will lead to complete and understandable standards. This reference model does not specify a development methodology.

Technology Independent - FGDC Standards will not constrain technology development. They will not be developed or implemented in a way that limits th use of new and emerging technologies. They also will not be written or implemented in a way that limits any vendor or technology to maximize the use o the standard.

Integrated - FGDC Standards will be integrated with one another and with related standards. This means there will not be overlapping definitions, authorities, or procedures. Standards development will be coordinated to eliminate duplicate efforts and to maximize the efforts of the volunteers contributing to and implementing standards. FGDC Standards will lead to an integrated framework for the NSDI.

Evolving - FGDC Standards will evolve as technology and institutional mandates change. The standards will be written to allow for evolution and will accommodate backward compatibility for information gathered under previously known standards. There will be known update and maintenance procedures that are timely and responsive to changes. The procedures will be documented as a part of FGDC Standards.

Supportable - FGDC Standards must be supportable by the geospatial vendor community. They will be developed in a manner that is supportable by known or emerging technology.

Publicly Available - FGDC Standards will have a broadly based public notice of their availability. FGDC Standards will not be developed from copyrighted or proprietary standards that would limit the ability of the final standard to be publicly available. They will not contain any copyrights or other limitations

their use or reproduction. FGDC Standards will be available electronically whe ever possible.

Complete and Consistent - FGDC Standards will be complete in terms of the standards components and methodology described in this reference model. FGDC Standards will have a consistent form and format.

If an FGDC standard is to be advanced to ISO or ANSI it must be developed through a process that is approved by ANSI or ISO. ANSI and ISO standards are developed through a consensus process.

1.4 Applicability and Intended Uses of FGDC Standards

FGDC Standards are intended to increase interoperability among automated geospatial information systems. A major objective of Circular A-16 is the eventual development of a national digital spatial information resource, with the involvement Federal, State, and local governments, and the private sector. This national inform resource, linked by criteria and standards, will enable sharing and efficient transf spatial data between producers and users. Enhanced coordination will build informat partnerships among government institutions and the public and private sectors, avoid wasteful duplication of effort and ensuring effective and economical management of information resources in meeting essential user requirements.

FGDC Standards apply to and are mandatory for Federal Agencies as described in OMB Circulars A-16 and A-119 and Executive Order Number 12906. Use by non-Federal and private sector organizations is not mandatory, but is encouraged in orde promote the widest possible use and sharing of data.

1.5 Reference Model Development Process

The Standards Working Group (SWG) defined the need and general content requirements for the Reference Model. All FGDC Subcommittees and Working Groups have representation on the SWG. A subgroup of the SWG with representatives from fiv FGDC Subcommittees developed several draft versions, which were reviewed by the entire SWG.

The Spatial Data Transfer (SDTS) Standard, ANSI, NIST, ISO, and USGS standards development and maintenance processes were reviewed and discussed in the development of the Reference Model. All comments received were reviewed and incorporated into the Reference Model.

1.6 Maintenance of the FGDC Standards Reference Model

The FGDC SWG is responsible for the maintenance of the FGDC Standards Reference Model. The SWG expects to have regular updates to this document. In the first year or two revisions are expected to occur once per year. Comments can be di to the SWG through the FGDC Secretariat.

2. Organization of Standards Work Within FGDC (TBD)

3. Types of FGDC Standards

The goal of the FGDC SWG is to provide guidelines for the development and documentation of FGDC Standards with a minimal structure for standards developers. This structure is intended to support FGDC Subcommittees and Working Groups in their efforts to develop, adopt, and encourage the use of geospatial standards.

In addition to the wide array of topics there are different types of standards will be developed by different subcommittees and working groups. The taxonomy of standards for the FGDC is derived from the principles of information engineering as modified by the FGDC SWG Technical Advisory Group. Information engineering is a

design and standards development technique developed by IBM in the late 1970's and early 1980's. It is often applied to systems development and has been used for stan development and maintenance. An information engineering approach was selected because it provides minimal guidance on structure, yet allows for standards to achie coordination and interoperability status. This approach does not dictate step-by-st processes.

One way that information engineering provides a structured approach to standard development is by providing a method to describe different standards types. It also provides a means to describe the relationships among various standards of the same t For example, two data standards can be related to one another, eliminating duplicate definitions and domains of values. In this manner it is well adapted to the diversi NSDI and the FGDC.

The four basic categories of the information engineering standards are: data, processes, organizations, and technology. One FGDC Standard may contain several categories of standards. Figure 1(a) illustrates the basic information engineering sided pyramid. The four components each form a side of the pyramid. Figure 1(b) illustrates a single FGDC Standard within the pyramid, that has addressed aspects of four components. A standard may also be entirely within one component, in which cas it would be illustrated as one side of the pyramid.

Information Engineering Pyramid

Figure 1(a)

Sample Standard Within

Figure 1(b)

3.1 Data

Data are the most widely recognized and documented component of standards and information technology. Data modeling describes how the bits of information are def and structured so they can be applied in a meaningful way. Most FGDC Standards will be of this type.

Data standards describe objects, features or items that are collected, automate affected by activities or functions of agencies. Data are organized and managed by institutions. Data standards are semantic definitions that are structured in a mode

Types of Data Standards

Data Classification - Data classification standards provide groups or categorie of data that serve an application. Data classification data standards are the attributes common to elements of a group. Examples are wetland and soil classifications. See process standards for standards on how to apply a data classification standard.

Data Content - Data content standards provide semantic definitions of a set of

objects. Data content standards may be organized and presented in a data model such as an entity-relationship model or an IDEF1X model.

Data Symbology or Presentation - Data symbology or presentation standards define graphic symbols. They standardize the language for describing those symbols. See processes standards for methods for applying symbols and the rule for displaying them.

Data Transfer - Data transfer standards are independent of technology and applications and facilitate moving data among systems, without prior specificat of the intended end use of the data. The Spatial Data Transfer Standard (SDTS) an example of a data transfer standard, which is endorsed by FGDC. SDTS is FIPSPUB 173. Profiles or domains of values for SDTS will be defined by FGDC Subcommittees and working groups. Transfer standards that are specific to a technology, such as the FTP (File Transfer Protocol) on the Internet, are outsi the scope of FGDC.

Data Useability- Data Useability standards describe how to express the applicability or essence of a data set or data element and include data quality assessment, accuracy, and reporting or documentation standards. The FGDC Content Standard for Geospatial Metadata Standard is an example of a Data Useability standard.

3.2 Processes

Processes or functions describe tasks and how information and technology are used to accomplish organizational goals. Process standards may also be called servi standards. They describe how to do something, procedures to follow, methodologies t apply, procedures to present information, or business process rules to follow to implement other standards. A smaller portion of FGDC Standards will be process

standards.

The intent of FGDC Process standards are:

to establish a threshold for minimally acceptable data,
to determine the best data for an application, or
to promote interoperability and broad based use of data.

Types of Process Standards

General Data Transfer Procedures - General data transfer procedure standards are the activities required to convert data to a general data format, such as S for general access.

(specific data reques Specific Data Transfer Procedures t) - Specific data transfer procedure standards are the activities or requirements to fulfil a spe data request for a known activity in a known data structure.

Existing Data Access Procedures - Existing data access procedure standards are the procedures required to gain access to an existing data set in a known data format, such as the methods and procedures required to access an existing data posting on the World Wide Web or a bulletin board.

Classification Methodology - Classification methodology standards are the procedures to follow to implement a data classification standard. It describes data are analyzed to produce a classification. The processes that are followed achieve data precision are examples of classification methodologies.

Data Collection - Data collection procedure standards are the methods and processes for the collection of new or conversion of existing data.

Storage Procedures - Storage procedure standards address the mechanisms and schedules for archiving or backing up data. If appropriate, the storage proced also address the storage media.

Presentation Standards - Presentation standards are the methods for displaying or formatting information from a data set or data standard.

Data Analyzing Procedures - Analytical procedures include the methods for computing, comparing, contrasting, assembling, or evaluating a data set for an application or specified product.

Data Integration - Data integration procedures are the methods for combining various data sets into a unified, geographically harmonious data set. Data generalization standards are a data integration process standard.

Quality Control and Quality Assurance - Quality control and quality assurance processes are respectively the methods followed to achieve a specified quality the methods to check the quality of an existing data set. Precision for measurements or other activities are included in these standards.

3.3 Organizations

The organizational component of information engineering consists of the rules f assigning responsibilities and authorities for the people who perform tasks and use technology. These include things like who does which tasks, what data do they need, what are the attendant skill requirements.

Organizational or institutional standards are the specifications for communicat among communities. These are the human and institutional interactions necessary to carry out data, activity, and technology standards. Ways to organize, communicate, identify responsible parties, and coordinate roles are examples of organizational

standards. The FGDC will not be developing organizational standards.

3.4 Technology

Technology includes things like software, hardware, and system protocols. system design the technology may be specifically described in terms of known application solutions such as computer aided mass appraisal, topologic processing, o coordinate geometry computations.

Technology standards relate to the tools, environment, and interfaces amon systems, and are often called information technology specifications. They are the t produce, manipulate, manage, organize, disseminate, or otherwise implement activity data standards. The FGDC will not be developing technology standards.

4. FGDC Standards Development Process

FGDC Standards development occurs in 12 steps from initial standard proposal through FGDC adoption. Standard maintenance is not included in the standards development process. These steps have been adopted for use by the FGDC from those used in ANSI and ISO processes.

These steps are organized into five stages.

Proposal Stage	Steps 1 - 2
Project Stage	Step 3
Draft Stage	Steps 4 - 5
Review Stage	Steps 6 - 11
Final Stage	Step 12

Proposal Stage

The Proposal Stage defines the needs for and benefits of a standard. At the en

the Proposal Stage the FGDC recognizes the standard as a project and adds it to the standards's register, but work or funding for the standard may not yet be identified.

Project Stage

The Project Stage defines the funding and administration for the standard. The development methodology, work groups and members, and development schedule are documented. At the end of the Project Stage work begins on standards development.

Draft Stage

The Draft Stage is the standard development stage. The standard receives comments and input from as many constituent groups as possible. At the end of the Draft Stage the Standard is ready for public review.

Review Stage

The first portion of the review stage is for public comment and official public review. The latter portion of this stage is for internal FGDC format and integration review. At the end of this stage the standard is ready for FGDC approval.

Final Stage

The Final Adoption Stage is where the standard becomes an officially recognized FGDC Standard.

In each step an identified group has responsibility for the standard this is th custodian. The custodian is responsible for determining when the standard is ready advance to the next step. Each step is described below with a description of the ac and custodian for the standard. A diagram of the steps follows the descriptions.

4.1 Proposal Stage

Step 1. Develop Proposal - A new National Spatial Data Infrastructure (NSDI) standards project proposal is submitted. Custodian: Standards Working Group.

A standards proposal identifies the need, the scope of the project, the benefit the new standards, the consequences of not standardizing, and a date by which t new standard is needed. The proposal may be for development of a new standard or adaptation or adoption of an existing standard. The proposal may suggest a target authorizing body outside of the FGDC, such as the National Institute for Standards and Technology (NIST), the American National Standards Institute (ANSI), or International Standards Organization (ISO). A proposal may be made by any FGDC subcommittee or working group, any member agency, any agency of the Federal government, State or local government agencies, or national or regional government councils. Project proposals will also be considered from non-government groups such as professional societies, private companies, and consortia which participate with the FGDC in the development of the NSDI. The elements of a standards proposal are described in Appendix A.

Step 2. Review Proposal - The SWG reviews and evaluates the standard proposal. Custodian: Standards Working Group

Standards proposals are submitted to the SWG, which distributes the proposals t the chairs of each FGDC Subcommittee and Working Group. The SWG with input from the FGDC Subcommittees and Working Groups evaluates the standard project proposal using criteria from Section 1.3 of this Reference Model. See Appendix B for specific details on the application of the criteria.

If a proposal is approved, the SWG will assign the approved project to the appropriate FGDC Subcommittee or Working Group and register the proposal as

an FGDC approved standards project. When no appropriate group exists, the SWG will identify the need for the creation of a new subcommittee or working group and make a recommendation to the Coordination Group.

If disapproved, the proposal is returned to the proposer with a statement outl the objections to the proposal. When appropriate, the SWG will suggest changes to the proposal that would make it acceptable. SWG decisions may be appealed to the FGDC Coordination Group.

4.2 Project Stage

Step 3. Set Up Project - The FGDC Subcommittee or Working Group establishes the project and activates standards development. Custodian: FGDC Subcommittee or Working Group.

An approved standards project is initiated by the Subcommittee or Working Group assigned to lead the activity. A project leader is assigned for each standards project. This may be, but is not necessarily, the group leader (for example, a Subcommittee Chair). A subgroup of the Subcommittee or Working Group may be formed. A project editor should also be assigned for each standards project. The editor maintains all documentation and makes all offici revisions to drafts of the standard. Project leaders and editors are registere the SWG and added to the standard register.

4.3 Draft Stage

Step 4. Produce Working Draft - The Standards Development Group proceeds with standard development. Custodian: Standards Development Group.

The Standards Development Group determines a development approach. The

group identifies existing related standards and standards development activitie and assesses their relevance to the standards project in accordance with OMB Circular A-119. Adoption of existing specifications, whether those be international, national, agency, or de facto standards should be considered fir an existing standard cannot be adopted, the Standards Development Group may consider adapting an existing standard, which is using an existing standard as basis for a new standard. When adoption or adaptation of existing standards ar inappropriate or insufficient, the Standards Development Group may begin development of a new standard.

The Standards Development Group may involve representatives outside FGDC and the Federal Government in the development process.

Step 5. Review Working Draft - The Standards Development Group submits the working draft for pre-public review. Custodian: FGDC Subcommittee or Working Group.

The pre-public review of the working draft is coordinated by the Standards Development Group. In this step the working draft standard is provided to the sponsoring FGDC Subcommittee or Working Group for broader input and review. The Subcommittee or Working Group may choose to obtain comments from other Federal and non-Federal groups that would be effected by the working draft, but at this stage the review is targeted and does not constitute an open, public re of the standard. The working draft is revised as needed following FGDC standards guidelines. After this step the standard becomes a Committee Draft.

4.4 Review Stage

Step 6. Review and Evaluate - The SWG evaluates the Committee Draft of the standard and approves it for further processing. Custodian: Standards Working Group.

The SWG reviews the Committee Draft and it follows the FGDC Standards guidelines. The SWG with input from the FGDC Subcommittees and Working Groups evaluates the Committee Draft using criteria from Section 1.3 of this Reference Model. See Appendix B for specific details on the application of the criteria.

If approved, the SWG sends the Committee Draft and a recommendation to advance the standard to public comment to the FGDC Coordination Group. If not approved, the Committee Draft is returned to the Standard Development Group (Step 4). Recommendations from the SWG can be appealed to the FGDC Coordination Group.

Step 7. Act on Recommendation - The FGDC Coordination Group reviews the recommendation of the SWG. Custodian: FGDC Coordination Group.

The FGDC Coordination Group reviews the SWG's recommendation.

If approved, the FGDC Coordination Group submits the Committee Draft to the FGDC Secretariat to be announced for public comment in the Federal Register. At this point the standard becomes an FGDC Proposed Standard. If not approved the FGDC Coordination Group returns the Recommendation to the SWG for revisions or additional action.

Step 8. Coordinate Public Review - The FGDC Secretariat announces and coordinates a public review of the Proposed FGDC Standard. Custodian: FGDC Secretariat.

Coordinating Public Review encompasses making public announcements, handling distribution, and receiving public comments. At a minimum, the

Proposed Standard is announced in the Federal Register with a request for comments. The announcement may also be published in professional journals, in trade magazines, and on the Internet to obtain the widest possible public expos The FGDC Secretariat, the SWG, the responsible Subcommittee or Working Group, or the Standard Development Group may conduct presentations about the standard at public meetings and conferences, including those involving state an local governments, and the private sector.

Testing of the Proposed FGDC Standard is done as part of the public review. This may be coordinated by the Standards Development Group. Test results should become part of the information contained in the public review submitted the FGDC Secretariat. All comments are directed to the FGDC Secretariat, and upon completion of the review period, and all comments are forwarded to the Standards Development Group.

Step 9. Respond to Public Comments - The Standards Development Group reviews all comments and produces a comment response document: Custodian: Standards Development Group.

The Standards Development Group receives all public comments. These are examined for scope and content. The Standards Development Group determines which comments will correct or add substance to the Proposed FGDC Standard.

The Standards Development Group resolves all comments and determines what revisions are to be made. They also determines whether there were enough substantial changes to the review version of the standard to require another pu review. The Standards Development Group either prepares a public response document or moves the Proposed Standard back to Step 4.

Step 10. Evaluate Responsiveness to Public Comments - The Proposed FGDC Standard and Public Response Document are reviewed by the Standards

Working Group. Custodian: Standards Working Group.

The SWG examines the revised Proposed FGDC Standards and the Public Response Document using criteria from Section 1.3 of this Reference Model. See Appendix B for specific details on the application of the criteria.

The SWG makes a determination of whether the criteria has been met. If it has, the SWG advances the Proposed Standard along with a recommendation for adoption to the FGDC Coordination Group. If the public comments and revisions to the Proposed Standard do not meet the criteria, the SWG sends the Proposed Standard back to the Standards Development Group (Step 9). SWG recommendations may be appealed to the FGDC Coordination Group.

Step 11. Act on Recommendation - The FGDC Coordination Group reviews the recommendation of the SWG. Custodian: FGDC Coordination Group.

If the recommendation is approved, the Proposed FGDC Standard is forwarded to the FGDC Steering Committee for formal adoption. If not approved, it is returned, with comment, to the SWG for appropriate action.

4.5 Final Stage

Step 12. The FGDC Steering Committee reviews the recommendation of the FGDC Coordination Committee. Custodian: FGDC Steering Committee.

If the recommendation of the FGDC Coordination Group is approved, the standard is signed by the FGDC Chair. Approved FGDC Standards are submitted for final publication and public release. If not approved, the recommendation returned to the FGDC Coordination Group.

FGDC Standards Process Flow Diagram

Figure 2

5. FGDC Standards Formats

FGDC Standards will have a title page that will include the title of the standa the responsible FGDC Subcommittee or Working Group, and FGDC's postal and E-mail addresses.

FGDC Standards will have a table of contents. All pages will be numbered.

FGDC Standards will contain an introduction that will describe the following:

- Mission and Goals of Standard
- Relationship to Existing Standards
- Description of Standard
- Applicability and Intended Uses of Standard
- Standard Development Procedures
  - Participants
  - Comments and Reviews
- Maintenance of the Standard

The body of the standard will follow the introduction.

References will be listed in a separate section and will be formatted according the US Government Style Manual. Reference citations within the standard will also follow the US Government Style Manual.

The FGDC will receive a digital copy of the standard. The digital copy will be submitted in an appropriate and previously agreed upon format.

The development group may produce a hypertext version of the standard for

inclusion on the FGDC Homepage or to be accessible from the FGDC Homepage.

If the standard is expected to move on to another authorizing body, the Standar should be presented in a format that is compatible with that body. Deviations from FGDC format are acceptable to meet those needs. However. FGDC will distribute the Standard, both manually and electronically, with an FGDC Standard Title and FGDC contact information.

This Reference Model document conforms to the FGDC standards format.

6. Methodologies and Content Model (TBD)

7. FGDC Standards Maintenance and Distribution (TBD)

8. Related Standards Bodies (TBD)

FGDC Standards Reference Model

Appendix A - Standard Proposal Contents (Draft)

FGDC Standards Proposal Content

The standard proposal is described in Step 1 of the FGDC Standards Development Process. This is in Section 3 of this report. The following describes the content FGDC proposal.

The standard subject area scope within the requirements of Circulars A-16, A-119, Executive Order 12094, and this Reference Model

Identify what is being standardized, the scope of the standards project, and th type of standard as described in the Reference Model that will be developed. Describe why FGDC is an appropriate place for the standard to be developed and adopted as well as other standard organizations that may be interested in the

proposal.

The need for the standard

Identify why this standard is being proposed, describe as possible the benefits developing standard, and the consequences of not developing the standard.

Standard project time line and resources

Describe the proposed time line for development and adoption. Characterize as possible the budget and personnel resources anticipated to completed the standa as well as the resources required for maintenance if known.

Participation

Identify participating agencies or organizations and methods that will be used assure a consensual development process if these methods are known.

Integration

Describe the relationship of this standard proposal to ongoing FGDC standards efforts and existing FGDC standards. If there are relationships with other exi standards, identify both the standard and the relationship.

FGDC Standards Reference Model

Appendix B - Standards Working Group Evaluation Criteria (Draft)

The Standards Working group reviews documents at three different steps in the standa development process. A standard proposal is reviewed at step 2, a pre-public review the standard takes place at step 6, and a pre-endorsement review takes place at step The following describes the review criteria used at each of these steps.

Step 2. Review Proposal - The SWG reviews and evaluates the standard proposal. Custodian: Standards Working Group

For this step the following elements from Section 1.3 of the Reference Model are use the evaluation.

Within FGDC Scope

Is the Standard topic included OMB Circulars A-16 or A-119 or Executive Order 12096?

Is the type of standard proposed a data standard or a process standard?

Does the Standard Proposal relate to geospatial data or processes?

Does the Standard Proposal advance data sharing or minimize duplication?

Does the Standard Proposal have a national scope?

Future Focused

Does the Standard Proposal remove an impedance to data sharing?

Does the Standard Proposal promote new or enhanced coordination?

The Standard does not re-formalize an existing standard or procedure.

Technology Independent

Does the Standard Proposal stand independent of a specific technology solution?

The Standard Proposal does not limit any appropriate vendor from access.

Integrated

Are there other similar standards available or are there other similar standard development ongoing?

The Standard Proposal does not overlap with an existing standards

The Standard development is coordinated with related standards

Publicly Available

The Standard will not be developed from proprietary information

The Standard does not carry any copyright or licensing limitation on use.

What are the proposed mechanisms for making the Standard available electronically?

Complete and Consistent

Does the Proposal have all the necessary components?

Does the Proposal follow a reasonable methodology for development

Is the Proposal in a consistent and readable format and presentation?

Step 6. Review and Evaluate - The SWG evaluates the Committee Draft of the standard and approves it for further processing. Custodian: Standards Working Group.

For this step the following elements from Section 1.3 of the Reference Model are use the evaluation.

Structured

Is the Standard presented in an understandable and useable manner?

Does the Standard follow the format of the Reference Model?

Does the Standard contain all necessary documentation?

Technology Independent

Does the Standard stand independent of a specific technology solution?

The Standard does not limit any appropriate vendor from access.

Integrated

Are there other similar standards available or are there other similar standard development ongoing?

The Standard does not overlap with an existing standards

The Standard development is coordinated with related standards

Evolving

Does the Standard allow for updates?

Does the Standard include documented maintenance and update procedures?

Are the ways to submit updates documented in the Standard?

Publicly Available

The Standard is not developed from proprietary information

The Standard does not carry any copyright or licensing limitation on use.

What are the mechanisms for making the standard available electronically?

Complete and Consistent

Does the Standard have all the necessary components?

Does the Standard follow a reasonable methodology for development?

Is the Standard in a consistent and readable format and presentation?

Does the Standard reflect the requirements of the original proposal?

Step 10. Evaluate Public Comment Document - The Proposed FGDC Standard and Public Comment Document are reviewed by the Standards Working Group. Custodian: Standards Working Group.

For this step the following elements from Section 1.3 of the Reference Model ar used in the evaluation.

Technology Independent

Does the Standard stand independent of a specific technology solution?

The Standard does not limit any appropriate vendor from access.

Integrated

Are there other similar standards available or are there other similar standard development ongoing?

The Standard does not overlap with an existing standards

The Standard development is coordinated with related standards

Supportable

Can the Standard be implemented with known technology?

Are there identified consumers for the Standard?

Publicly Available

The Standard is not developed from proprietary information

The Standard does not carry any copyright or licensing limitation on use.

What are the mechanisms for making the standard available electronically?

Complete and Consistent

Does the Standard have all the necessary components?

Does the Standard follow a reasonable methodology for development

Is the Standard in a consistent and readable format and presentation?

Does the Standard reflect the requirements of the original proposal?

Were the public reviews based on a broad cross section of users?

Was the Standard development responsive to the comments raised in public reviews?

Utah State
UNIVERSITY

Spatial Data

Status Report

Attachment #12

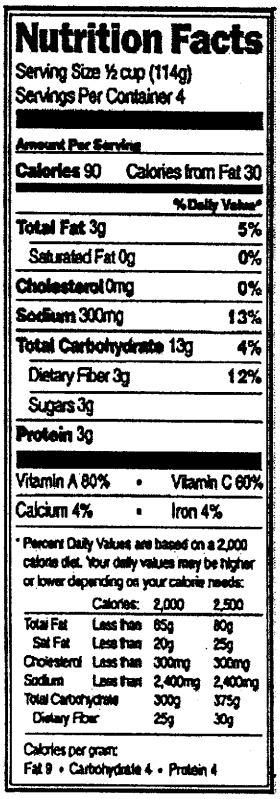
The Value of Metadata
FGDC Information Brochures

i) Geospatial Metadata
ii) The Value of Metdata

Department of Geography and Earth Resources, College of Natural Resources

Geospatial Metadata

WHAT ARE METADATA?



Nutrition Facts

Serving Size ½ cup (114g)
Servings Per Container 4

Amount Per Serving	
Calories 90	Calories from Fat 30
	% Daily Value*
Total Fat 3g	5%
Saturated Fat 0g	0%
Cholesterol 0mg	0%
Sodium 300mg	13%
Total Carbohydrate 13g	4%
Dietary Fiber 3g	12%
Sugars 3g	
Protein 3g	
Vitamin A 80% •	Vitamin C 60%
Calcium 4% •	Iron 4%

* Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs:

	Calories:	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g

Calories per gram:
Fat 9 • Carbohydrate 4 • Protein 4

Recognize this? It is the food label required by the Food and Drug Administration on all food packaged and transferred from one place to another. As a nation, we have been putting some form of labels on our food since 1913. Today, this label, with its mandatory and voluntary components, tells the consumer everything they need to know to make a decision about the packaged food's ingredients and nutritional content. Using this label the consumer can make an informed decision about the product's fitness for use or consumption.

Sound familiar? Just as food is our body's fuel, spatial data is the fuel of the GIS. How do you determine the "really good stuff" from the "junk food"? How do you know if the spatial data is "good" for your system?

The Content Standards for Digital Geospatial Metadata were adopted by the Federal Geographic Data Committee (FGDC) to label geospatial datasets. Like a company whose product is food, the metadata standard documents the characteristics of data so that consumers can determine the data's fitness for their purpose.

WHY METADATA?

The major uses of metadata are:

- to help organize and maintain an organization's internal investment in spatial data,
- to provide information about an organization's data holdings to data catalogues, clearinghouses, and brokerages, and
- to provide information to process and interpret data received through a transfer from an external source.

THE STANDARD

What do we need to know about our datasets? The standard provides a common set of terminology and definitions for the documentation of geospatial data, including data elements for the following topics:

FEDERAL GEOGRAPHIC DATA COMMITTEE
U.S. GEOLOGICAL SURVEY, 590 NATIONAL CENTER
RESTON, VIRGINIA 20192

PHONE: 703-648-5514
FAX: 703-648-5755
EMAIL: GDC@USGS.GOV

Identification Information — basic information about the data set. Examples include title, geographic area covered, currentness, and rules for acquiring or using the data.

Data Quality Information — an assessment of the quality of the data set. Examples include positional and attribute accuracy, completeness, consistency, sources of information, and methods used to produce the data. Recommendations on information to be reported and tasks to be performed are in the Spatial Data Transfer Standard (Federal Information Processing Standard 173 - 1992).

Spatial Data Organization Information — the mechanism used to represent spatial information in the data set. Examples include the method used to represent spatial positions directly (such as raster or vector) and indirectly (such as street addresses or county codes) and the number of spatial objects in the data set.

Spatial Reference Information — description of the reference frame for, and means of encoding, coordinates in the data set. Examples include the name of and parameters for map projections or grid coordinate systems, horizontal and vertical datums, and the coordinate system resolution.

Entity and Attribute Information — information about the content of the data set, including the entity types and their attributes and the domains from which attribute values may be assigned. Examples include the names and definitions of features, attributes, and attribute values.

Distribution Information — information about obtaining the data set. Examples include a contact for the distributor, available formats, information about how to obtain data sets online or on physical media (such as cartridge tape or CD-ROM), and fees for the data.

Metadata Reference Information — information on the currentness of the metadata information and the responsible party.

The standard has sections that specify contact information for organizations or individuals that developed or distribute the data set, temporal information for time periods covered by the data set, and citation information for the data set and information sources from which the data were derived.

The standard does not specify how this information is organized in a computer system or in a data transfer, nor the means by which this information is transmitted or communicated to the user. At this point in time, these formats are optional.

ADDITIONAL INFORMATION

The standard and other metadata materials, along with the implementation guidelines for the clearinghouse, are available from the FGDC Secretariat at the above address or from the FGDC server connected to the Internet via: Anonymous FTP

Metadata - www.fgdc.gov under the subdirectory /pub/metadata
Clearinghouse - www.fgdc.gov under the subdirectory /pub/clearinghouse

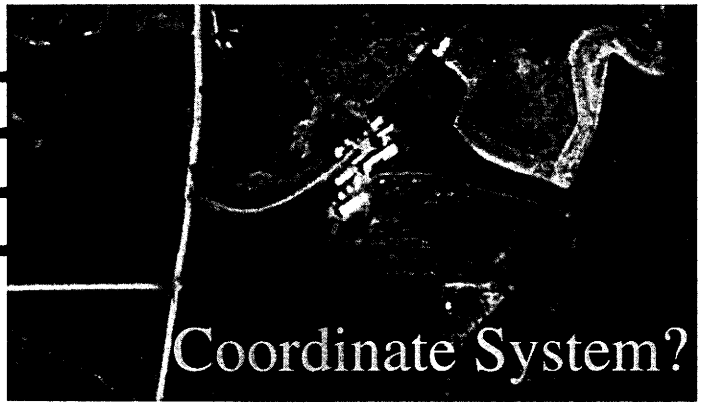
The README files in the subdirectories give detailed information about the available files.

FGDC Web Server <http://www.fgdc.gov/>

The Value of METADATA

Two very similar paintings of circus performers by Picasso from 1904 are put on the auction block; one brings tens of millions of dollars, the other hundreds of thousands. What is the difference?

In one case, the ownership of the painting can be traced through sales slips and auction house records back to the estate of Picasso's dealer. The other painting appeared suddenly on the art market. It looks almost identical, but lacking documentation, how can one be sure it's authentic?



Just as a work of art can change hands many times, so can geospatial data. Once created, data can travel almost instantaneously through a network and be used for different kinds of spatial analysis. Thus transformed, these data can be retransmitted to another user. Change is the essence of geospatial data in a networked environment. The word metadata shares the same Greek root as the word metamorphosis. Meta means change and metadata, or "data about data," describe the origins of and track the changes to geospatial data.

Metadata can help the city planner, the graduate student in geography, or the forest manager find and use geospatial data, but they also benefit the primary creator of the data by maintaining the value of the data and assuring their continued use over a span of years.

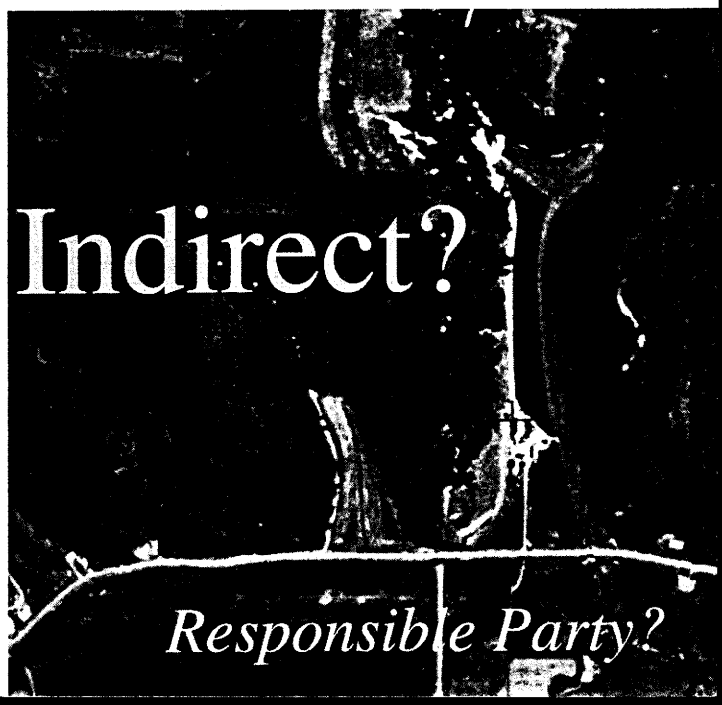
What are metadata?

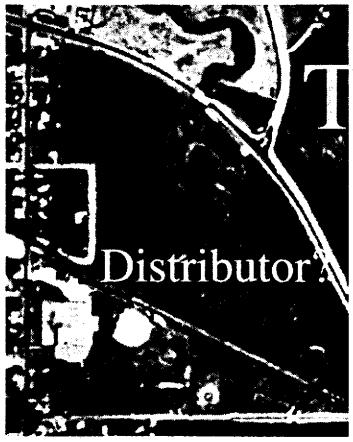
The concept of metadata is familiar to most people who deal with spatial issues. A map legend is pure metadata. The legend contains information about the publisher of the map, the publication date, the type of map, a description of the map, spatial references, the map's scale and its accuracy, among many other things. Metadata are simply that type of descriptive information applied to a digital geospatial file. They're a common set of terms and definitions to use when documenting geospatial data. Most digital geospatial files now have some associated metadata.

Why bother with metadata?

Metadata helps people who use geospatial data find the data they need and determine how best to use it. Metadata benefit the data producing organization as well. As personnel change in an organization, undocumented data may lose their value. Later workers may have little understanding of the contents and uses for a digital data base and may find they can't trust results generated from these data. Lack of knowledge about other organizations' data can lead to duplication of effort.

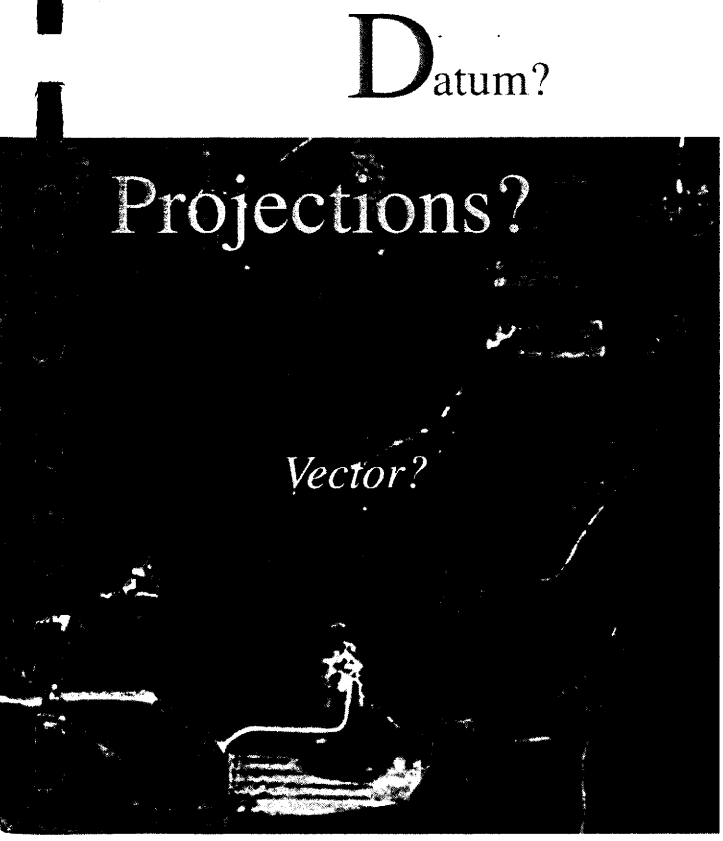
It may seem burdensom to add the cost of generating metadata to the cost of data collection, but in the long run it's worth it.





How can metadata be produced?

The information needed to create metadata is often readily available when the data are collected. A small amount of time invested at the beginning of a project may save money in the future. Data producers and users cannot afford to be without documented data. The initial expense of documenting data clearly outweighs the potential costs of duplicated or redundant data generation. Recently developed metadata standards provide a systematic way to collect metadata.



Why use standards?

When producing a map, the cartographer must organize all the descriptive information that goes into the map legend in a particular format. Titles are put in a specific place, tic marks are made a certain way, meters may be used instead of feet, and so forth. Metadata standards are simply a common set of terms and definitions that describe geospatial data.

What standards should be used?

The Federal Geographic Data Committee (FGDC) recently adopted content standards for metadata. According to an Executive order signed by President Clinton on April 11, 1994, all Federal agencies will begin to use these standards to document newly created geospatial data as of January, 1995. These standards provide a consistent approach and format for the description of data characteristics. The standards were developed over a two-year period, with extensive review by professionals at all levels of government. They provide a way for data users to know:

What data are available

Whether the data meet specific needs

Where to find the data

How to access the data

Because large amounts of Federal data will be available in these standards, data managers from State and local governments and private industry will have an incentive to adopt these standards to document their own data.

The FGDC is also sponsoring the creation of a National Geospatial Data Clearinghouse which will point users toward the best spatial data for a particular project. The intent is not to centralize all geographic data in one location, but to provide links through the Internet to distributed sites where data are produced or maintained. Managers who document data using the metadata standards will provide these metadata to the National Geospatial Data Clearinghouse so that users can easily find data. Easier access to data will mean that a company's customers or an agency's cooperators could be increased.

Why use metadata?

Twenty-five years ago, humans landed on the Moon. Data from that era are still being used today, and it is reasonable to assume that today's geospatial data could still be used in the year 2020 and beyond to study climate change, ecosystems, and other natural processes. Metadata standards will increase the value of such data by facilitating data sharing through time and space.

The value of Picasso's painting did not depend solely on his having signed the work, a signature that could easily have been forged. Information about the painting, where it came from and where it had been, increased its value. So, when a manager launches a new project, investing a small amount of time and resources at the beginning will pay dividends in the future. Metadata will help you protect the value of your organization's intellectual assets.

For more information

If you would like to explore available training or seek information about the FGDC metadata standards or the National Geospatial Data Clearinghouse contact:

FGDC Secretariat
c/o U.S. Geological Survey
590 National Center
Reston, Virginia 22092

Telephone: (703) 648-5514
Facsimile: (703) 648-5755
Internet: gdc@usgs.gov
Anonymous ftp: fgdc.er.usgs.gov

Users with World Wide Web browser software can access the FGDC server at
<URL: http://fgdc.er.usgs.gov/>

Utah State
UNIVERSITY

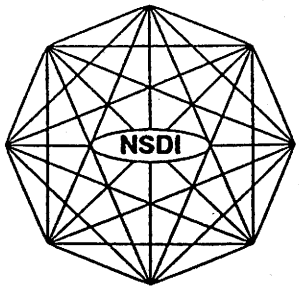
Spatial Data

Status Report

Attachment #13

Content Standards for Digital Geospatial Metadata FGDC June 8, 1994

Department of Geography and Earth Resources, College of Natural Resources



National Spatial Data Infrastructure

Content Standards for Digital Geospatial Metadata Workbook

(Describes the June 8, 1994 version of the metadata standard)

Workbook Version 1.0

Federal Geographic Data Committee

March 24, 1995

Federal Geographic Data Committee

Department of Agriculture • Department of Commerce • Department of Defense • Department of Energy
Department of Housing and Urban Development • Department of the Interior • Department of State
Department of Transportation • Environmental Protection Agency
Federal Emergency Management Agency • Library of Congress
National Aeronautics and Space Administration • National Archives and Records Administration
Tennessee Valley Authority

Federal Geographic Data Committee

Established by Office of Management and Budget Circular A-16, the Federal Geographic Data Committee (FGDC) promotes the coordinated development, use, sharing, and dissemination of geographic data.

The FGDC is composed of representatives from the Departments of Agriculture, Commerce, Defense, Energy, Housing and Urban Development, the Interior, State, and Transportation; the Environmental Protection Agency; the Federal Emergency Management Agency; the Library of Congress; the National Aeronautics and Space Administration; the National Archives and Records Administration; and the Tennessee Valley Authority. Additional Federal agencies participate on FGDC subcommittees and working groups. The Department of the Interior chairs the committee.

FGDC subcommittees work on issues related to data categories coordinated under the circular. Subcommittees establish and implement standards for data content, quality, and transfer; encourage the exchange of information and the transfer of data; and organize the collection of geographic data to reduce duplication of effort. Working groups are established for issues that transcend data categories.

For more information about the committee, or to be added to the committee's newsletter mailing list, please contact:

Federal Geographic Data Committee Secretariat
c/o U.S. Geological Survey
590 National Center
Reston, Virginia 22092

Telephone: (703) 648-5514
Facsimile: (703) 648-5755
Internet (electronic mail): gdc@usgs.gov
Anonymous FTP: ftp://fgdc.er.usgs.gov/pub/
World Wide Web: http://fgdc.er.usgs.gov/fgdc.html

The following is the recommended bibliographic citation for this publication:

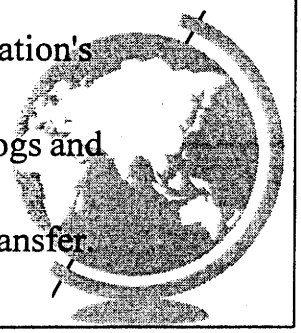
Federal Geographic Data Committee. 1995. Development of a national digital geospatial data framework. Federal Geographic Data Committee. Washington, D.C.

Metadata

Metadata — describe the content, quality, condition, and other characteristics of data.

Major uses of metadata:

- organize and maintain an organization's investment in data.
- provide information to data catalogs and clearinghouses.
- provide information to aid data transfer.



Definition: Metadata are "data about data." They describe the content, quality, condition, and other characteristics of data. Metadata help a person to locate and understand data.

Major uses of metadata:

Organize and maintain and organization's investment in data. Metadata help insure an organization's investment in data. As personnel change or time passes, information about an organization's data will be lost and the data may lose their value. Later workers may have little understanding of the content and uses for a digital data base and may find that they can't trust results generated from these data. Complete metadata descriptions of the content and accuracy of a geospatial data set will encourage appropriate use of the data. Such descriptions also may provide some protection for the producing organization if conflicts arise over the misuse of data.

Provide information to data catalogs and clearinghouses. Applications of geographic information systems often require many themes of data. Few organizations can afford to create all data they need. Often data created by an organization also may be useful to others. By making metadata available through data catalogs and clearinghouses, organizations can find data to use, partners to share data collection and maintenance efforts, and customers for their data. The FGDC is sponsoring the development of the National Geospatial Data Clearinghouse through which data producers can provide metadata to others using the Internet.

Provide information to aid data transfer. Metadata should accompany the transfer of a data set. The metadata will aid the organization receiving the data process and interpret data, incorporate data into its holdings, and update internal catalogs describing its data holdings.

Examples of Metadata

Identification

Title? Area covered? Themes? Currentness? Restrictions?

Data Quality

Accuracy? Completeness? Logical Consistency? Lineage?

Spatial Data Organization

Indirect? Vector? Raster? Type of elements? Number?

Spatial Reference

Projection? Grid system? Datum? Coordinate system?

Entity and Attribute Information

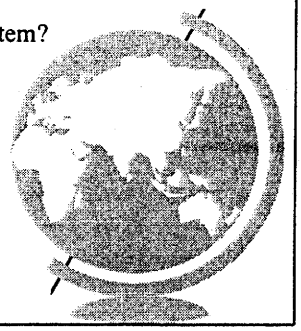
Features? Attributes? Attribute values?

Distribution

Distributor? Formats? Media? Online? Price?

Metadata Reference

Metadata currentness? Responsible party?



Metadata describe different aspect of data, including:

Identification -- What is the name of the data set? Who developed the data set? What geographic area does it cover? What themes of information does it include? How current are the data? Are there restrictions on accessing or using the data?

Data Quality -- How good are the data? Is information available that allows a user to decide if the data are suitable for his or her purpose? What is the positional and attribute accuracy? Are the data complete? Were the consistency of the data verified? What data were used to create the data set, and what processes were applied to these sources?

Spatial Data Organization -- What spatial data model was used to encode the spatial data? How many spatial objects are there? Are methods other than coordinates, such as street addresses, used to encode locations?

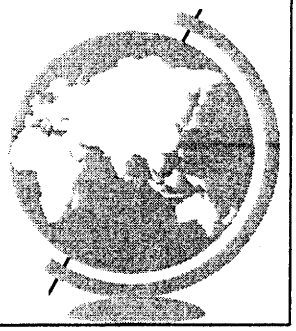
Spatial Reference -- Are coordinate locations encoded using longitude and latitude? Is a map projection or grid system, such as the State Plane Coordinate System, used? What horizontal and vertical datums are used? What parameters should be used to convert the data to another coordinate system?

Entity and Attribute Information -- What geographic information (roads, houses, elevation, temperature, etc.) is included? How is this information encoded? Were codes used? What do the codes mean?

Distribution -- From whom can I obtain the data? What formats are available? What media are available? Are the data available online? What is the price of the data?

Metadata Reference -- When were the metadata compiled? By whom?

Background



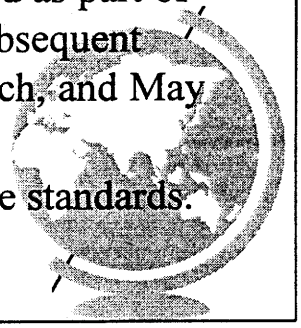
Development of the Standards

Summer 1992 - FGDC forum on metadata

Fall 1992 - draft standard released for 5½-month public comment period

Summer 1993 - revised draft tested as part of the clearinghouse prototype; subsequent drafts provided in January, March, and May 1994.

June 8, 1994 - FGDC approves the standards.



Why and how was the standard developed?

Much data are developed by the geospatial community, and these data often can serve many applications. The lack of an ability to identify what data exist, the quality of data, and how to access and use the data results in wasteful duplication of effort occurs, and hinders improved cooperation.

During June 1992, the FGDC sponsored an "Information Exchange Forum on Spatial Data." Presentations were given on many aspects of metadata, including efforts to standardize metadata, uses of metadata, and systems used to provide metadata to users. The need for a common definition of metadata in the community was identified. The FGDC accepted the offer of ASTM to develop a draft standard.

The FGDC sponsored a public review of the draft from October 1992 to April 1993. Many comments were received, and the draft was revised extensively. The revised draft was tested as part of a prototype for the National Geospatial Data Clearinghouse. Comments from this effort, a comparison of the draft with the U.S. Machine Readable Catalog (USMARC) standard and other documents, and other activities resulted in additional refinements.

The FGDC approved the standard on June 8, 1994. Executive Order 12906, "Coordinating Geographic Data Acquisition and Access: The National Spatial Data Infrastructure," requires Federal agencies to use the standard to document data that they produce beginning in 1995.

Objectives (Does)

Supports common uses of metadata.

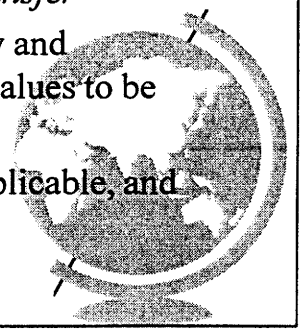
– *internal investment - clearinghouse - transfer*

Developed from the perspective of "what do I need to know about a data set?"

– *availability - fitness - access - transfer*

Provides a common set of terminology and definitions, and information about values to be provided.

Identifies mandatory, mandatory if applicable, and optional data elements.



The standard specifies the elements needed to support three major uses of metadata: (1) to maintain an organization's *internal investment* in geospatial data, (2) to provide information to data *clearinghouses* and catalogs, and (3) to provide information needed to process and interpret data *transferred* from another organization.

The standard defines the information required by a prospective user (1) to determine the *availability* of a set of geospatial data, (2) to determine the *fitness* of a set of geospatial data for an intended use, (3) to determine the means to *access* the set of geospatial data, and (4) to *transfer* the set of geospatial data successfully.

The standard specifies the information content for a set of digital geospatial data. The standard establishes a common set of terminology and definitions for concepts related to metadata, including:

the names of data elements and compound elements (groups of data elements) to be used,

the definitions of these compound and data elements, and

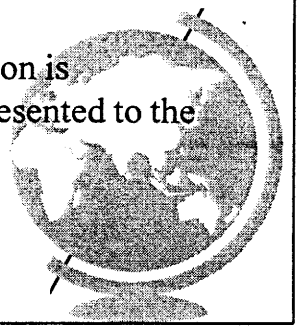
information about the values that are to be provided for the data elements.

The standard also specifies the elements that are mandatory (must be provided), mandatory if applicable (must be provided if the data set exhibits the defined characteristic), and optional (provided at the discretion of the producer of the data set).

The standard defines a data set as a "collection of related data."

Objectives (Doesn't)

- The standards do not specify:
  - the means to organize information in a computer system.
  - the means to organize information in a data transfer.
  - the means by which the information is transmitted, communicated, or presented to the user.



The standard specifies information content, but not how to organize this information in a computer system or in a data transfer, or how to transmit, communicate, or present the information to a user. There are several reasons for this approach:

There are many means by which metadata could be organized in a computer. There include incorporating data as part of a geographic information system, in a separate data base, and as a text file. Organizations can choose the approach which suits their data management strategy, budget, and other institutional and technical factors.

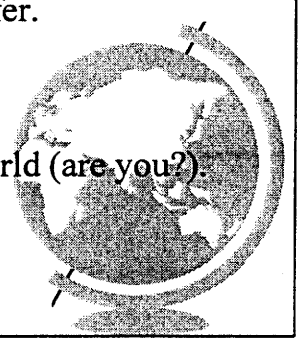
There are many standards and formats with which geospatial and related data are transferred. Some include mechanisms permit the transfer metadata, some do not. Decisions about how to accommodate metadata in a transfer must be made by the organizations that maintain these standards and formats.

There are a large number of ways by which to transmit, communicate, and present metadata. Different metadata element will be valued by different users, or by one user for different tasks. The Internet and other technologies are causing rapid change in means to providing information. Many users continue to need or prefer metadata to be provided on physical media, including paper. The standard allows information providers to use the techniques and forms which best meet the needs of their users.

Persons implementing the standard have recommended that some common approaches to implementing the standard be provided, especially for use with the National Geospatial Data Clearinghouse. The FGDC invited recommendations about approaches that should be taken.

Implementation Decisions

- What is a "data set?"
- When is the best time to collect metadata?
- Who is this for, anyway?
  - Management — catalog — transfer.
  - Details, details, details.
  - "25¢ worth of metadata."
  - You're not responsible for the world (are you?).
- Legacy data and the future.



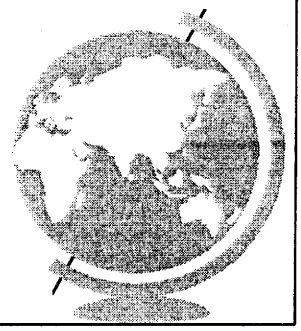
The standard defines a *data set* as a "collection of related data." No statement is made about the granularity of data to which the standard should be applied, or limitations of how to apply the standard. Many organizations start to implement the standard for a collection known as a "layer" or "coverage." Some organizations have a series of "layers" for which some elements, such as spatial reference, entity and attribute, and distribution information, are the same. These elements are recorded once and "inherited" by the member "layers" of the series. Others are concerned about differences within a "layer," and are implementing some elements, such as lineage information, for components of the "layer." These components "inherit" other information from the "layer" and "series" levels. As long as the "mandatory" and appropriate "mandatory if applicable" are available to users, the metadata comply with the standard. Decisions about what approach to take depend on the needs, budgets, and information strategies of an organization.

The *best time to collect metadata* is while the data are being developed, when the information needed for metadata is known. Waiting until after the data are developed risks less accurate information being recorded and increased costs caused by searching for information.

There are many decisions to make about metadata. Metadata serve many purposes, and not all purposes may need the same information. Internal data management activities may require more information than a clearinghouse or transfer. A huge number of details can be encoded in metadata; judgment is needed on what information is useful. The costs and value of metadata, to both immediate and longer term operations, should be evaluated. Judgment also is needed on deciding what information about source materials should be retained.

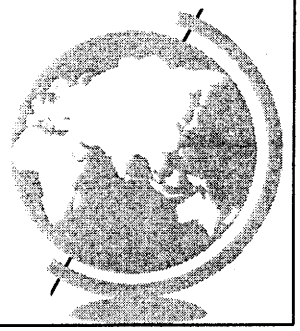
Documenting existing or "legacy" data can be daunting. Details are long forgotten and costs can be high. These concerns are valid, but care should be taken to avoid allowing issues related to legacy data to unduly influence the documentation of new data.

The Standards



Elements of Definition

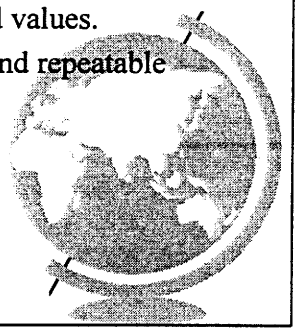
- Sections
- Compound Elements
- Data Elements



The standard is organized in series of elements that define the information content for metadata to document a set of digital geospatial data.

Sections

- Main "chapters" of the standards.
- Composed of:
  - Section definition.
  - List of elements, definitions, types, and values.
  - Information about what is mandatory and repeatable



The standard is organized using numbered chapters called "sections."

Each section begins with the name and definition of the section. These are followed by the component elements of the section. Each section provides the names and definitions of the component elements, information about the types of values that can be provided for the elements, and information about the elements that are mandatory or repeatable.

Example of a Section

Identification Information

<Definition>

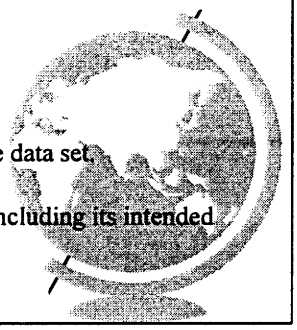
Identification Information -- basic information about the data set.
Type: compound

<Production Rules>

Identification_Information =
Citation +
Description+
Time_Period_of_Content +
Status + . . .

<--List -->

1.1 Citation -- information to be used to reference the data set.
Type: compound
1.2 Description -- a characterization of the data set, including its intended use and limitations.
Type: compound



In the standard, sections are organized in three parts: section definition, production rules, and list of component elements.

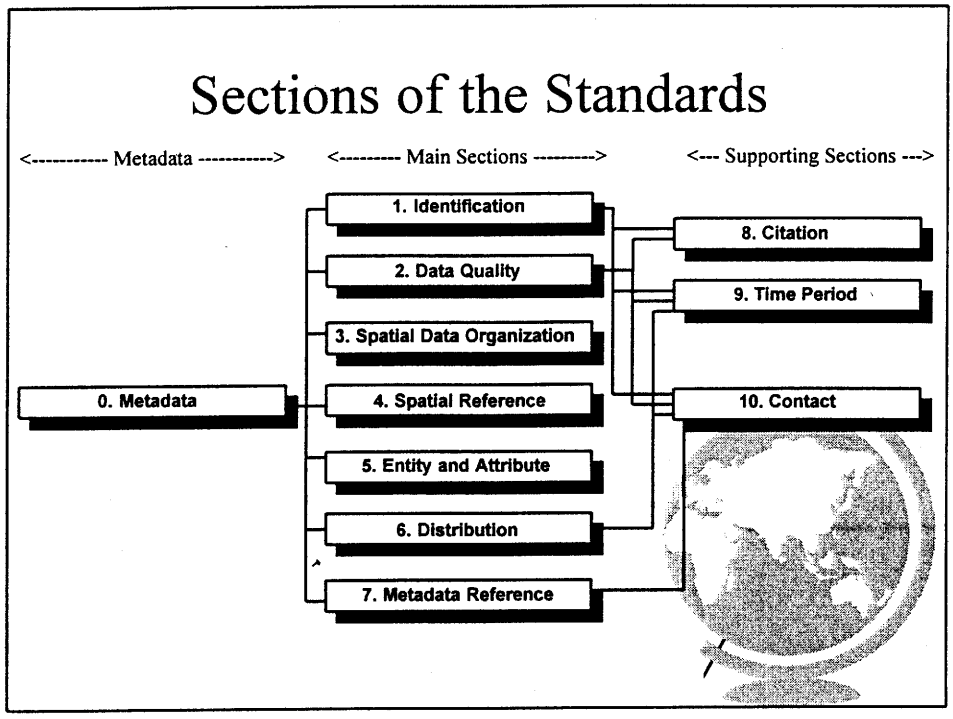
The *section definition* includes the name and definition of the section.

The *production rules* describe the section in terms of lower-level component elements. Each production rule has an identifier (left side) and an expression (right side) connected by the symbol "=", meaning that the term on the left side is replaced by or produces the term on the right side. By making substitutions using matching terms in the production rules, one can explain higher-level concepts using data elements. In addition to specifying the composition of higher-level elements, the production rules specify the elements that are mandatory and that can be repeated.

The production rules are provided using the syntax developed by Yourdan. The introduction to the standard describes the syntax and provides examples.

Each section is composed of data elements, either directly or through the use of intermediate elements. The composition of intermediate elements also is provided in the production rules.

The *list of component elements* provides the name and definition of each component element in the section, and information about values to be provided for data elements.



The standard has 11 sections numbered 0 through 10.

Section 0, "Metadata," provides the starting point. It is composed of the main sections of the standard.

Sections 1 through 7 are the main sections of the standard.

Sections 8 through 10 support other sections. They provide a common method to define citation, temporal, and contact information. <u>These sections are never used alone</u>.

Compound Element

A group of related data elements or other compound elements.

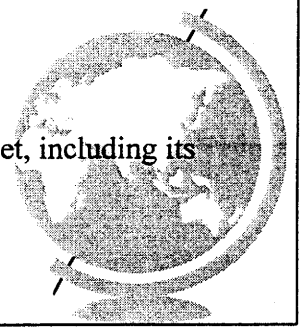
All compound elements ultimately are comprised of data elements.

Form:

Compound element name -- definition.
Type: compound

Example:

Description -- a characterization of the data set, including its intended use and limitations.
Type: compound



A compound element is a group of data elements and other compound elements. All compound elements are described by data elements, either directly or through intermediate compound elements. Compound elements represent higher-level concepts that cannot be represented by an individual data element.

The form for the definition of a compound element is:

Compound element name -- definition.
Type: compound

The type of "compound" uniquely identifies the compound elements in the list of component elements.

An example of the definition of a compound element:

Description -- a characterization of the data set, including its intended use and limitations.
Type: compound

As stated above, a compound element is a group of elements. The composition of the element is needed to complete the example. Using the syntax for the production rules:

Description = Abstract + Purpose + (Supplemental Information)

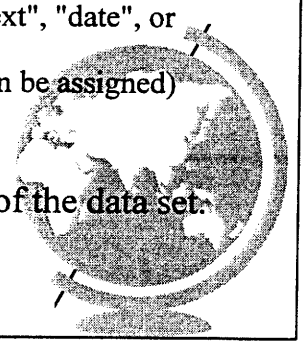
which means that the compound element "Description" is composed of the elements "Abstract," "Purpose," and (optionally) "Supplemental Information."

Data Element

A logically primitive item of data.
Data elements are the things that you "fill in."

Form:
Data element name -- definition.
Type: (choice of "integer", "real", "text", "date", or "time")
Domain: (describes valid values that can be assigned)

Example:
Abstract -- a brief narrative summary of the data set.
Type: text
Domain: free text



A data element is a logically primitive item of data. The entry for a data element includes the name of the data element, the definition of the data element, and a description of the values that can be assigned to the data element.

The form for the definition of a data element is:

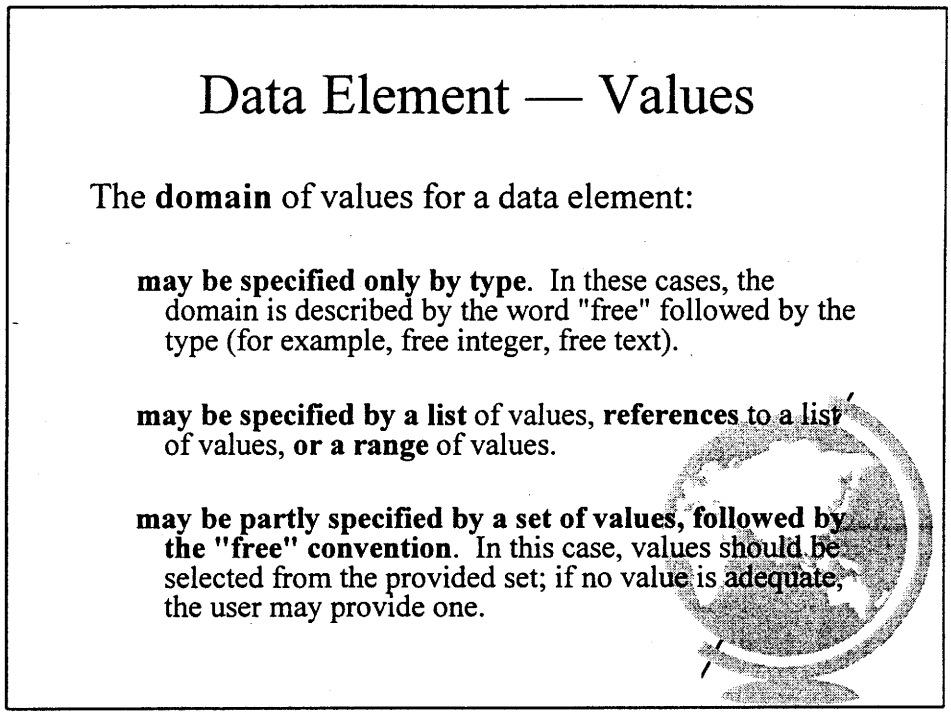
Data element name -- definition.
Type: (choice of "integer", "real", "text", "date", or "time")
Domain: (describes valid values that can be assigned)

The information about the values for that data elements include a description of the type of value, and a description of the domain of values. The type of the data element describes the kind of value to be provided. The choices are "integer" for integer numbers, "real" for real numbers, "text" for ASCII characters, "date" for day of the year, and "time" for time of the day.

The domain describes valid values that can be assigned to the data element. The domain may specify a list of valid values, or restrictions on the range of values that can be assigned to a data element.

An example of the definition of a data element is:

Abstract -- a brief narrative summary of the data set.
Type: text
Domain: free text



The domain of values for a data element:

may be specified only by type. Any values that can be represented by the type of the data element can be assigned. These domains are represented by the use of the word "free" followed by the type of the data element (that is, free integer, free real, free text, free date, free time). For example:

Abstract -- a brief narrative summary of the data set.
Type: text
Domain: free text

may be specified by a list of values, references to a list of values, or a range of values. The value assigned must be selected from the domain. For example:

Progress -- the state of the data set.
Type: text
Domain: "Complete" "In work" "Planned"

may be partly specified by a set of values, followed by the "free" convention. The value assigned should be from the domain provided if possible. If a needed value is not available, providers may create and assign their own value. For example:

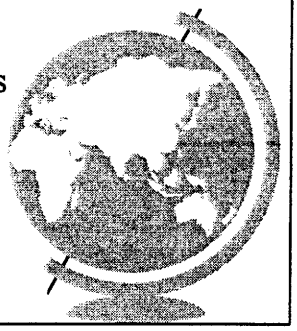
Depth Distance Units -- units in which depths are recorded.
Type: text
Domain: "meters" "feet" free text

A created value should not redefine a value provided by the standard.

Data Element Forms for Special Values

The standards specify the forms of four types of values:

- Calendar dates
- Time of day
- Latitude and longitude
- Network addresses and file names



Forms for Special Values

The form of the representation of data values is important to applications that will manipulate the data elements. This importance is especially true for metadata provided through the National Geospatial Data Clearinghouse. If the values are provided in a standard way, "client" software can help a user to evaluate data.

The following conventions for forms of values for data elements shall be used with the metadata standards:

Calendar Dates (Years, Months, and Days)

- A.D. Era to December 31, 9999 A.D. -- Values for day and month of year, and for years, shall follow the calendar date convention (general forms of YYYY for years; YYYYMM for month of a year (with month being expressed as an integer), and YYYYMMDD for a day of the year) specified in American National Standards Institute, 1986, Representation for calendar date and ordinal date for information interchange (ANSI X3.30-1985): New York, American National Standards Institute (adopted as Federal Information Processing Standard 4-1).

- B.C. Era to 9999 B.C. -- Values for day and month of year, and for years, shall follow the calendar date convention, preceded by the lower case letters "bc" (general forms of bcYYYY for years; bcYYYYMM for month of a year (with month being expressed as an integer), and bcYYYYMMDD for a day of the year).

- B.C. Era before 9999 B.C. -- Values for the year shall consist of as many numeric characters as are needed to represent the number of the year B.C., preceded by the lower case letters "cc" (general form of ccYYYYYYY...).

- A.D. Era after 9999 A.D. -- Values for the year shall consist of as many numeric characters as are needed to represent the number of the year A.D., preceded by the lower case letters "cd" (general form of cdYYYYYYY...).

Time of Day (Hours, Minutes, and Seconds)

- Because some geospatial data and related applications are sensitive to time of day information, three conventions are permitted. Only one convention shall be used for metadata for a data set. The conventions are:

  - Local Time. For producers who wish to record time in local time, values shall follow the 24-hour timekeeping system for local time of day in the hours, minutes, seconds, and decimal fractions of a second (to the precision desired) without separators convention (general form of HHMMSSSS) specified in American National Standards Institute, 1986, Representations of local time of day for information interchange (ANSI X3.43-1986): New York, American National Standards Institute (adopted as Federal Information Processing Standard 58-1).

  - Local Time with Time Differential Factor. For producers who wish to record time in local time and the relationship to Universal Time (Greenwich Mean Time), values shall follow the 24-hour timekeeping system for local time of day in hours, minutes, seconds, and decimal fractions of a second (to the resolution desired) without separators convention. This value shall be followed, without separators, by the time differential factor. The time differential factor expresses the difference in hours and minutes between local time and Universal Time. It is represented by a four-digit number preceded by a plus sign (+) or minus sign (-), indicating the hours and minutes the local time is ahead of or behind Universal Time, respectively. The general form is HHMMSSSSshhmm, where HHMMSSSS is the local time using 24-hour timekeeping (expressed to the precision desired), 's' is the plus or minus sign for the time differential factor, and hhmm is the time differential factor. (This option allows producers to record local time and time zone information. For example, Eastern Standard Time has a time differential factor of -0500, Central Standard Time has a time differential factor of -0600, Eastern Daylight Time has a time differential factor of -0400, and Central Daylight Time has a time differential factor of -0500.) This option is specified in American National Standards Institute, 1975, Representations of universal time, local time differentials, and United States time zone reference for information interchange (ANSI X3.51-1975): New York, American National Standards Institute (adopted as Federal Information Processing Standard 59).

  - Universal Time (Greenwich Mean Time). For producers who wish to record time in Universal Time (Greenwich Mean Time), values shall follow the 24-hour timekeeping system for Universal Time of day in hours, minutes, seconds, and decimal fractions of a second (expressed to the precision desired) without separators convention, with the upper case letter "Z" directly following the low-order (or extreme right hand) time element of the 24-hour clock time expression. The general form is HHMMSSSSZ, where HHMMSSSS is Universal Time using 24-hour timekeeping, and Z is the letter "Z". This option is specified in American National Standards Institute, 1975, Representations of universal time, local time differentials, and United States time zone reference for information interchange (ANSI X3.51-1975): New York, American National Standards Institute (adopted as Federal Information Processing Standard 59).

Latitude and Longitude

- Values for latitude and longitude shall be expressed as decimal fractions of degrees. Whole degrees of latitude shall be represented by a two-digit decimal number ranging from 0 through 90. Whole degrees of longitude shall be represented by a three-digit decimal number ranging from 0 through 180. When a decimal fraction of a degree is specified, it shall be separated from the whole number of degrees by a decimal point. Decimal fractions of a degree may be expressed to the precision desired.

  - Latitudes north of the equator shall be specified by a plus sign (+), or by the absence of a minus sign (-), preceding the two digits designating degrees. Latitudes south of the Equator shall be designated by a minus sign (-) preceding the two digits designating degrees. A point on the Equator shall be assigned to the Northern Hemisphere.

- Longitudes east of the prime meridian shall be specified by a plus sign (+), or by the absence of a minus sign (-), preceding the three digits designating degrees of longitude. Longitudes west of the meridian shall be designated by minus sign (-) preceding the three digits designating degrees. A point on the prime meridian shall be assigned to the Eastern Hemisphere. A point on the 180th meridian shall be assigned to the Western Hemisphere. One exception to this last convention is permitted. For the special condition of describing a band of latitude around the earth, the East Bounding Coordinate data element shall be assigned the value +180 (180) degrees.

- Any spatial address with a latitude of +90 (90) or -90 degrees will specify the position at the North or South Pole, respectively. The component for longitude may have any legal value.

With the exception of the special condition described above, this form is specified in Department of Commerce, 1986, Representation of geographic point locations for information interchange (Federal Information Processing Standard 70-1): Washington, Department of Commerce, National Institute of Standards and Technology.

Network Addresses and File Names

- values for file names, network addresses for computer systems, and related services should follow the Uniform Resource Locator convention of the Internet when possible. See http://www.ncsa.uiuc.edu/demoweb/url-primer.html for additional details about the Uniform Resource Locator.

FAQ: What is a Uniform Resource Locator (URL), and what is its form?

A URL is a network extension of the UNIX file naming conventions. A URL can point to any file in any directory of any machine. It also describes the Internet service available for use with the resource.

The basic form of the URL is:

service://hostname:port/path/filename

where

service — the name of the service to be used with the resource. Examples include "file", "ftp", "telnet", "gopher", "wais", "news", "http", "rlogin", and "tn3270".

hostname:port — the Internet address of the machine and the port through which the service is provided. The identification of the port is required only if a non-standard implementation is being used.

path — the directory path to the file.

filename — the name of the file.

Examples:

Anonymous FTP: ftp://fgdc.er.usgs.gov/gdc/metadata/meta.6984.ps

World Wide Web: http://www.rpi.edu/Internet/Guides/decemj/icmc/top.html

Gopher: gopher://bingsuns.cc.binghamton.edu/11/acad/geogenv

Telnet: telnet://fedworld.doc.gov

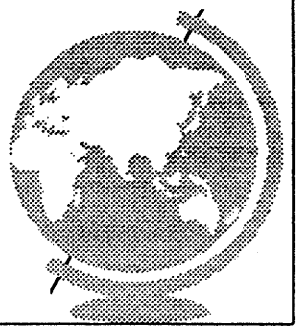
News: news:comp.infosystems.gis

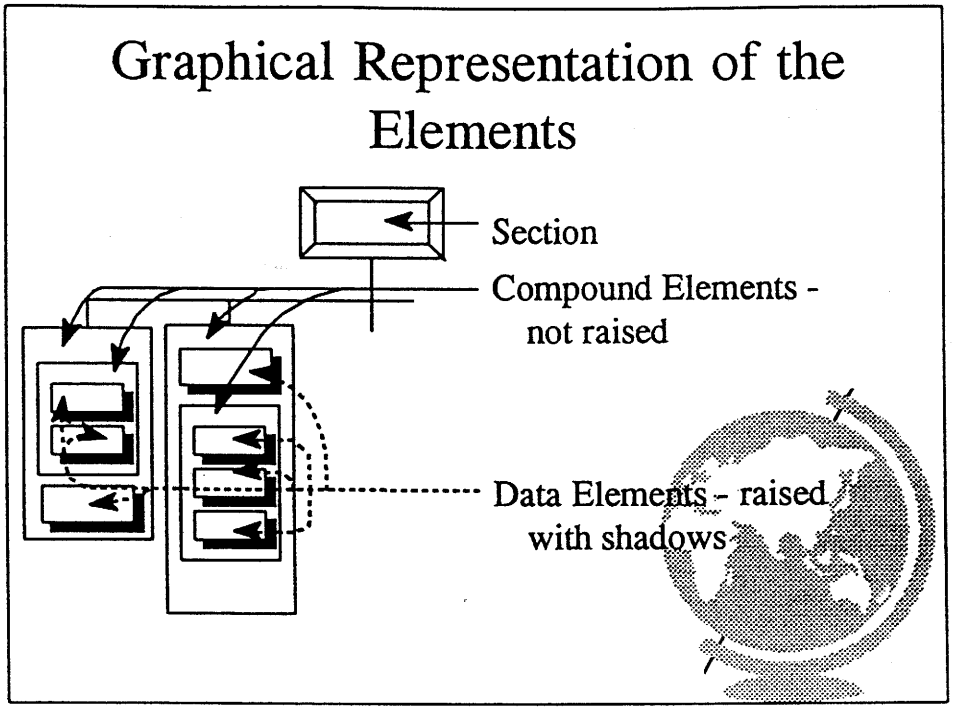
Local file on the your (DOS) computer: file:///c|/wp51/mad/letter.wp

FAQ: I'm planning to implement the metadata standard using a data base, but the data base software does not support the forms of the date and time special values. How do I comply with the standard?

Software systems often use special methods internally to encode values such as date and time. The main concern is that metadata provided to others, especially metadata provided through the National Geospatial Data Clearinghouse and for data transfer, be encoded using the forms specified by the metadata standards.

Graphical Representation of the Elements





The workbook uses graphics to illustrate the organization of the standard. The graphics include most of the information provided by the production rules, including:

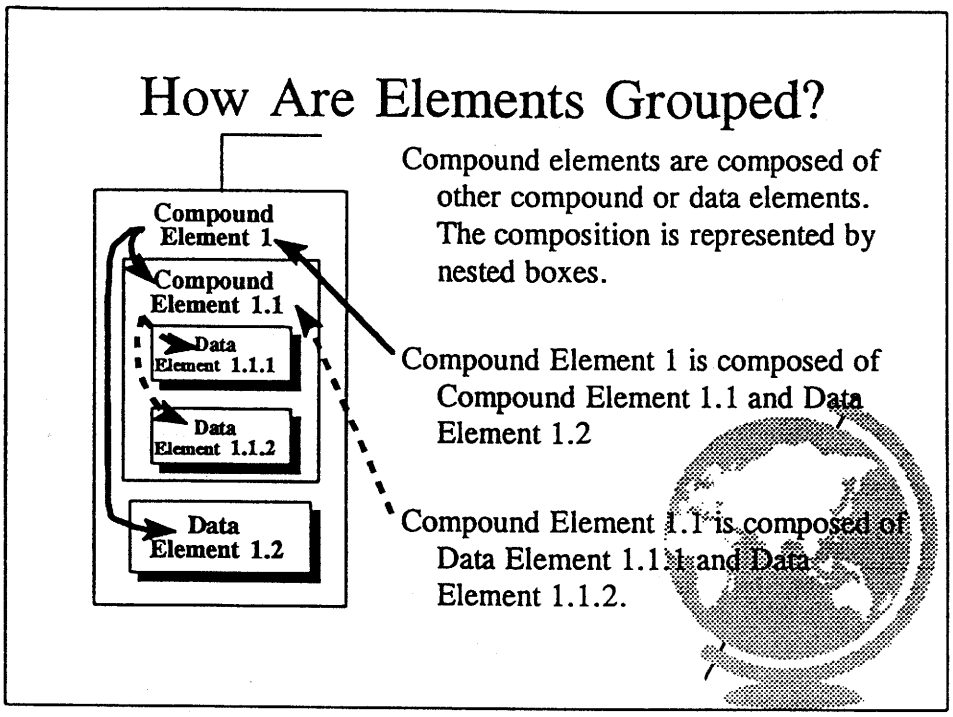
- How are elements grouped?
- What's mandatory? What's not?
- What can repeat? How many times?

(One exception is in section 4, for which the graphics do not provide the details for documenting map projection and grid system parameters (these details are provided in the text of the section in the workbook).)

Sections are depicted using the symbol:

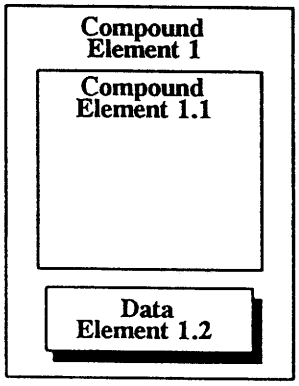
Compound elements are depicted using a box:

Data elements are depicted using a raised box with shadow:

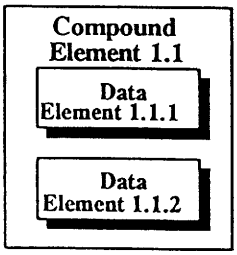


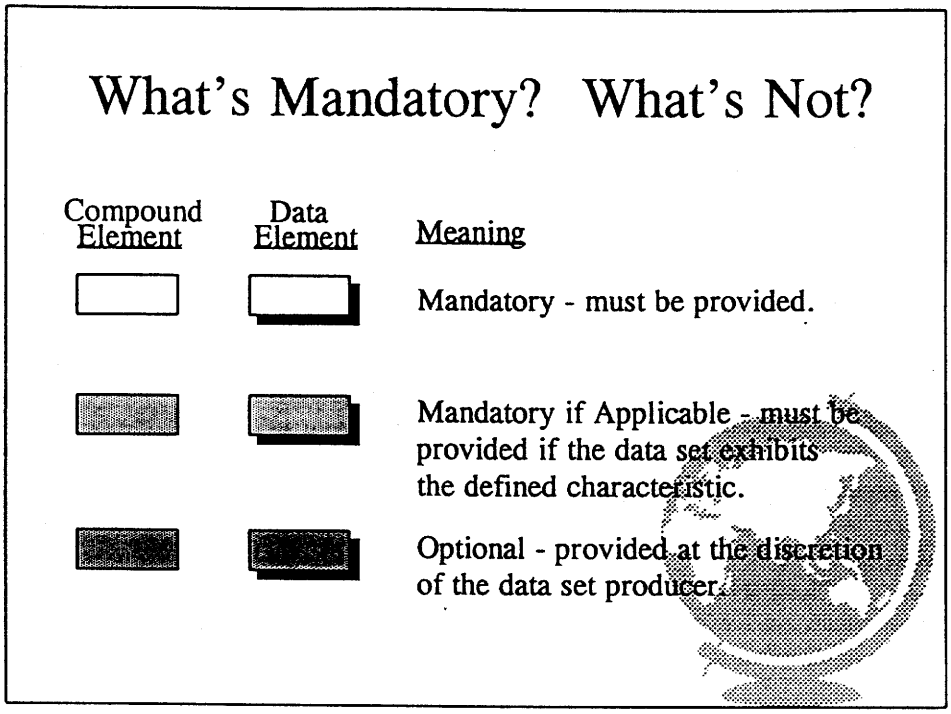
Compound elements are composed of other compound or data elements. The composition of compound elements is represented by nested boxes.

Compound Element 1 is composed of Compound Element 1.1 and Data Element 1.2:



Compound Element 1.1 is composed of Data Element 1.1.1 and Data Element 1.1.2:





The standard defines sections, compound elements, and data elements as being mandatory, mandatory if applicable, or option.

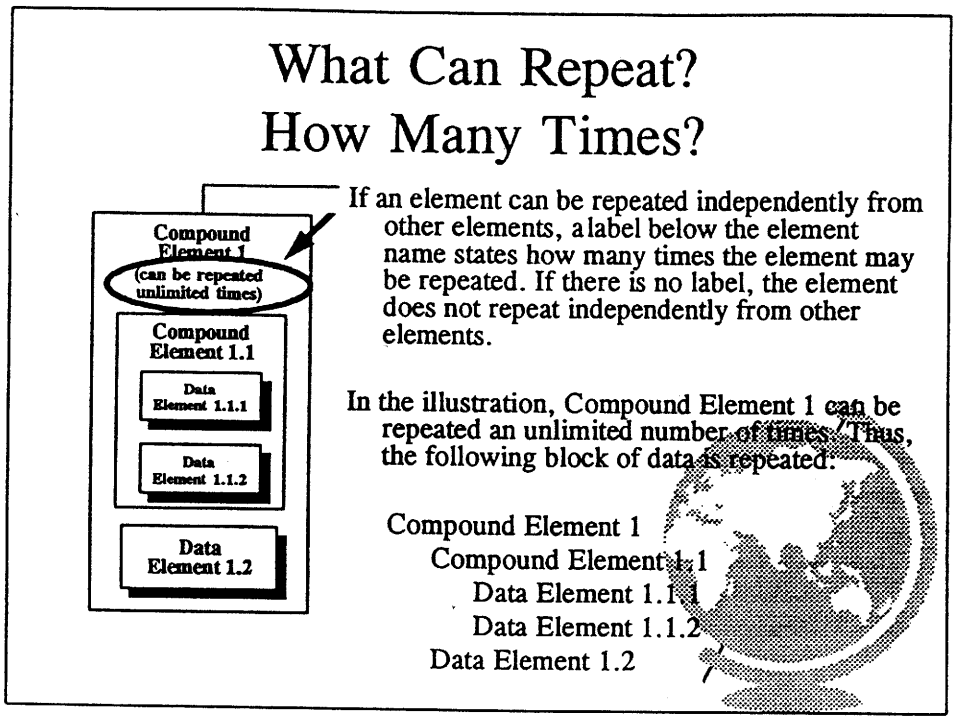
Mandatory elements must be provided. If the information is not know for a mandatory data element, the entry "Unknown" or a similar statement should be given. An example is compound element 1.2, Description. The element description must be provided for all data sets. The boxes representing mandatory data elements are not shaded in the graphics.

Mandatory if applicable elements must be provided if the data set exhibits the characteristic defined by the element. An example is compound element 4.2, Vertical Coordinate System Definition, from Section 4, Spatial Reference Information. The element is mandatory if applicable. So:

> If a data set has vertical (altitude/elevation or depth) information, the element is applicable and must be provided.
>
> If the data set does not have vertical information, the element is not applicable and is not provided.

The boxes representing the mandatory if applicable elements are lightly shaded in the graphics.

Optional elements are provided at the discretion of the data set producer. An example is data element 10.7, Contact Facsimile Telephone. The producer may provide the telephone number of a contact's facsimile machine if it wishes to do so; otherwise, the element is not provided. The boxes representing optional elements are darkly shaded in the graphics.



The standard defines compound elements and data elements that can be repeated.

In the graphical representation, a label is placed below elements that can be repeated. The label tells the limits (if any) on the number of times the element can be repeated.

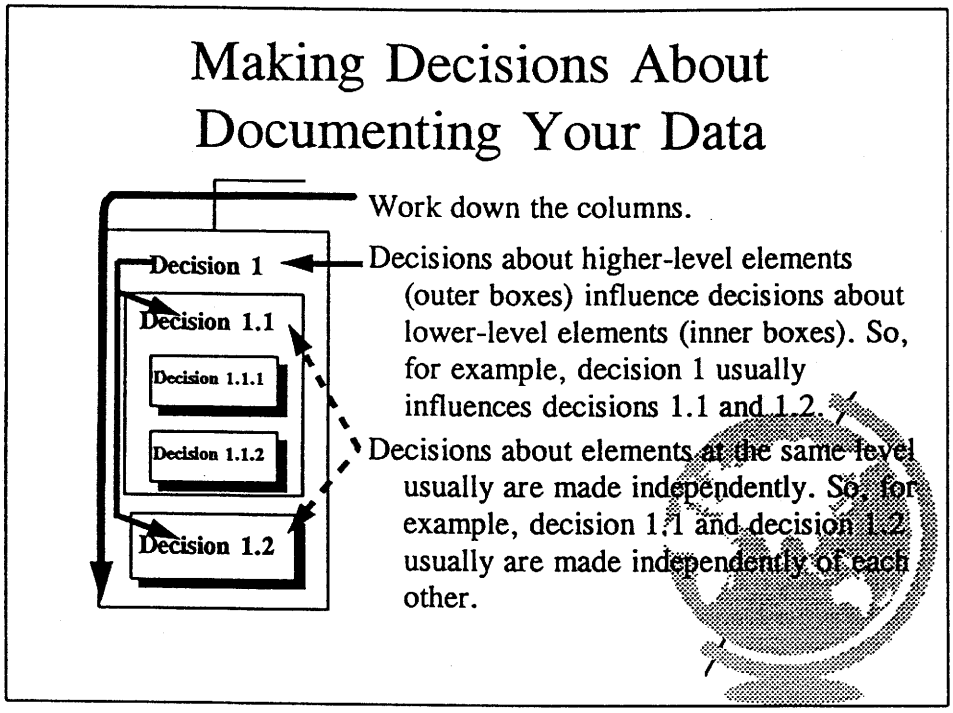
If an element is not followed by a label, it cannot be repeated.

In the example, Compound Element 1 can be repeated an unlimited number of times. So, the result is:

Compound Element 1
- Compound Element 1.1
  - Data Element 1.1.1
  - Data Element 1.1.2
- Data Element 1.2

Compound Element 1
- Compound Element 1.1
  - Data Element 1.1.1
  - Data Element 1.1.2
- Data Element 1.2

Compound Element 1
- Compound Element 1.1
  - •
  - •
  - •

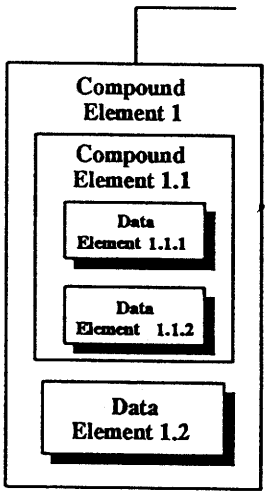


To use the graphical representation, work down the columns.

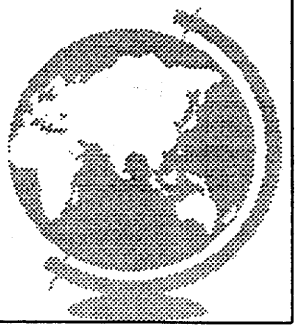
Higher-level compound elements can influence their component lower-level elements. Decisions about whether or not a higher-level "mandatory if applicable" element is applicable, if an optional higher-level element is to be provided, or if a higher-level element can be repeated will influence the elements nested within the element. So, decision 1 can influence decisions 1.1 and 1.2.

Elements at the same level of "nesting" in a column (for example, decisions 1.1 and 1.2) usually are independent of each other. A decision about one element normally will not influence a decision about another element at the same level.

Using the Graphics to Make Decisions - 1



No elements are shaded, so all are mandatory and must be reported.



Working down the column: Compound element 1 is mandatory (not shaded), so it must be provided. The element is not repeatable (no label under the element name). So:

Compound Element 1

Compound element 1.1 is mandatory and not repeatable. So:

Compound Element 1
Compound Element 1.1

Data element 1.1.1 is mandatory and not repeatable. In addition, it is the first element that requires an entry. So:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>

Data element 1.1.2 is mandatory and not repeatable. So:

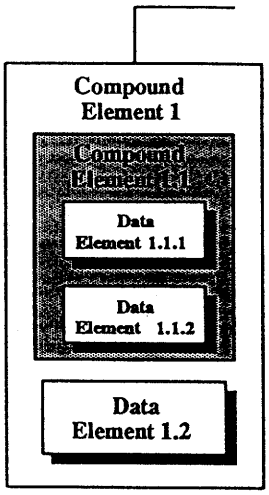
Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.1.2: <value>

Data element 1.2 is mandatory and not repeatable. So:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.1.2: <value>
Data Element 1.2: <value>

Outcome

Using the Graphics to Make Decisions - 2



Compound Element 1 is mandatory.

Compound Element 1.1 is optional. The producer must decide if it wants to provide the element.

If yes, Data Elements 1.1.1 and 1.1.2 are mandatory.

If no, do not report Compound Element 1.1, Data Element 1.1.1 or 1.1.2, and skip to Data Element 1.2.

Data Element 1.2 is mandatory.

Working down the column: Compound element 1 is mandatory and not repeatable. So:

Compound Element 1

Compound element 1.1 is optional and not repeatable:

If the producer decides to provide the optional element:

Compound Element 1
Compound Element 1.1

Data elements 1.1.1 and 1.1.2 are mandatory and not repeatable. So:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.1.2: <value>

Data element 1.2 is mandatory and not repeatable. So:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.1.2: <value>
Data Element 1.2: <value>

If the producer decides not to provide the optional element:

Compound Element 1

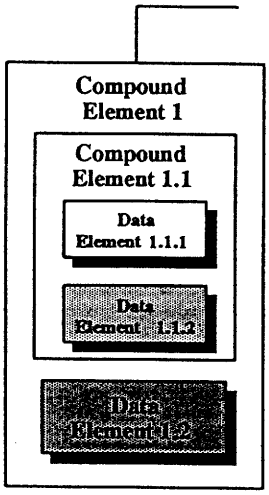
(Data elements 1.1.1 and 1.1.2 are not considered because the element of which they are a part, Compound element 1.1, is not being provided.)

Data element 1.2 is mandatory and not repeatable. So:

Compound Element 1
Data Element 1.2: <value>

Possible Outcomes

Using the Graphics to Make Decisions - 3



Compound Element 1 is mandatory.

Compound Element 1.1 is mandatory.

Data Element 1.1.1 is mandatory.

Data Element 1.1.2 is mandatory if applicable. The producer must decide if the data set has the characteristic defined by the data element. If yes, then Data Element 1.1.2 is mandatory. If no, then Data Element 1.1.2 is not reported.

Data Element 1.2 is optional.

Working down the column: Compound elements 1 and 1.1 and data element 1.1.1 are mandatory and not repeatable:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>

Data element 1.1.2 is mandatory if applicable and not repeatable:

If the element is applicable:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.1.2: <value>

If the element is not applicable:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>

Data element 1.2 is optional and not repeatable:

Decide to provide:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.1.2: <value>
Data Element 1.2: <value>

Decide not to provide:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.1.2: <value>

Data element 1.2 is optional and not repeatable:

Decide to provide:

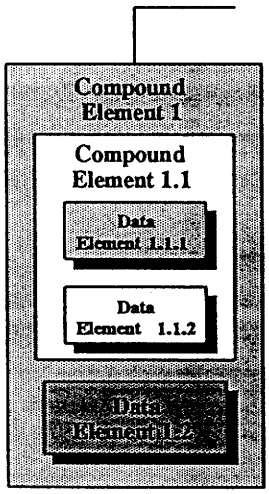
Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>
Data Element 1.2: <value>

Decide not to provide:

Compound Element 1
Compound Element 1.1
Data Element 1.1.1: <value>

Possible Outcomes

Using the Graphics to Make Decisions - 4



Compound Element 1 is mandatory if applicable. If not applicable to the data set, do not report any elements. If applicable, it is mandatory and:

Compound Element 1.1 is mandatory.

Data Element 1.1.1 is mandatory if applicable. If not applicable, do not report it. If applicable, it is mandatory.

Data Element 1.1.2 is mandatory.

Data Element 1.2 is optional.

Working down the column: Compound element 1 is mandatory if applicable and not repeatable:

If the element is applicable:
Compound Element 1

If the element is not applicable:
< no elements >

Compound element 1.1 is mandatory and not repeatable:
Compound Element 1
Compound Element 1.1

- Possible Outcomes

Data element 1.1.1 is mandatory if applicable and not repeatable:

If the element is applicable:
Compound Element 1
Compound Element 1.1
Data Element 1.1.1: < value >

If the element is not applicable:
Compound Element 1
Compound Element 1.1

Data element 1.1.2 is mandatory and not repeatable; data element 1.2 is optional and not repeatable:

Decide to provide:
Compound Element 1
Compound Element 1.1
Data Element 1.1.1: < value >
Data Element 1.1.2: < value >
Data Element 1.2: < value >

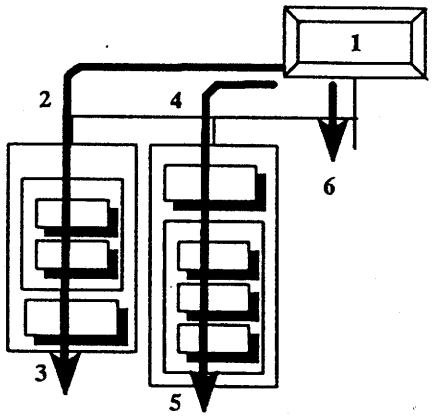
Decide not to provide:
Compound Element 1
Compound Element 1.1
Data Element 1.1.1: < value >
Data Element 1.1.2: < value >

Data element 1.1.2 is mandatory and not repeatable; data element 1.2 is optional and not repeatable:

Decide to provide:
Compound Element 1
Compound Element 1.1
Data Element 1.1.2: < value >
Data Element 1.2: < value >

Decide not to provide:
Compound Element 1
Compound Element 1.1
Data Element 1.1.2: < value >

How to Read the Graphic Representation



Start at the section symbol (1).

Go to the leftmost column (2), and work down (3).

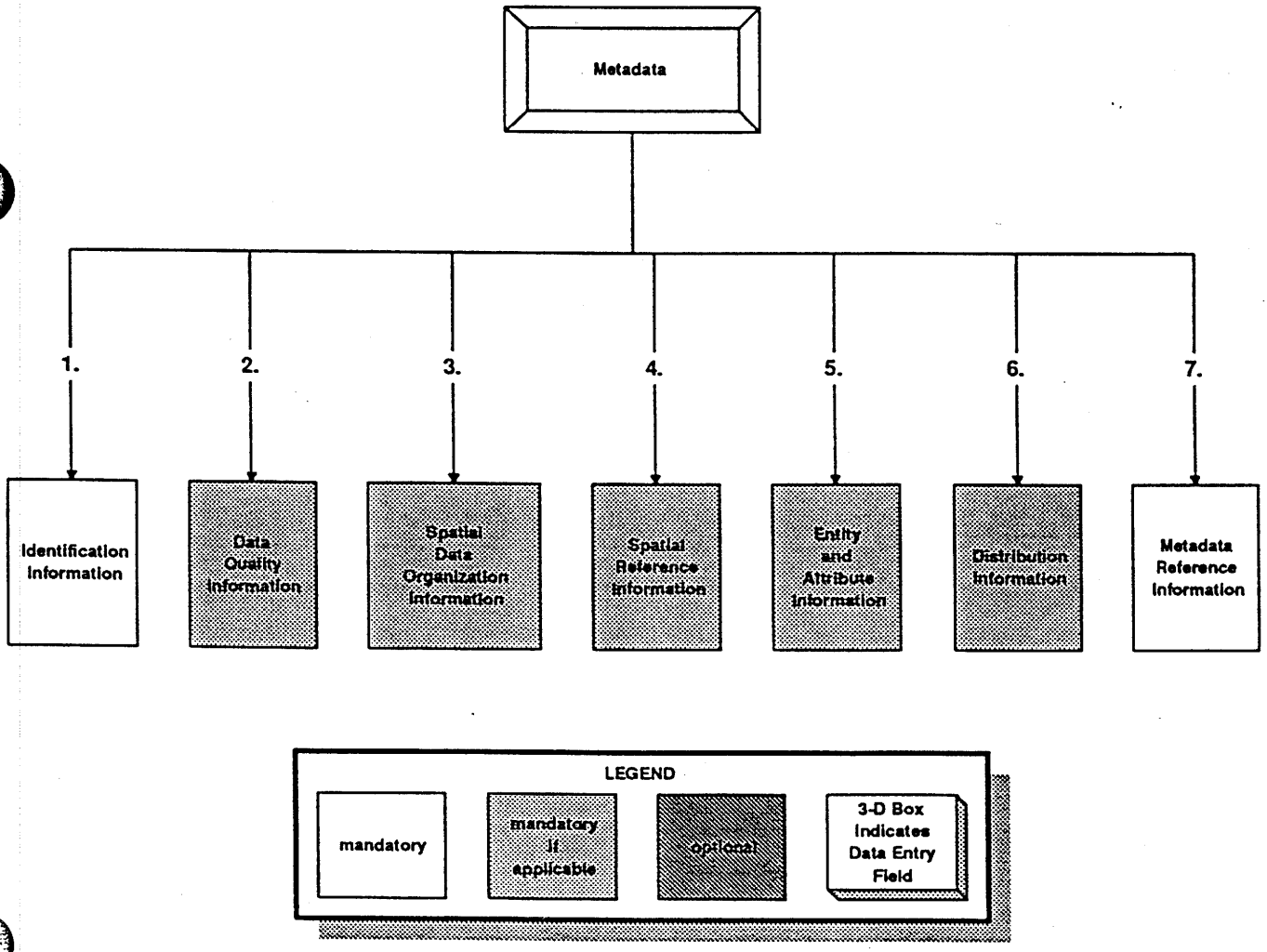
After completing the column, move right one column (4) and work down (5).

Continue across the graphic (6) until all the elements have been considered.

Graphical Representation of:
The Federal Geographic Data Committee's
Content Standards for Digital Geospatial Metadata

June 8, 1994 version

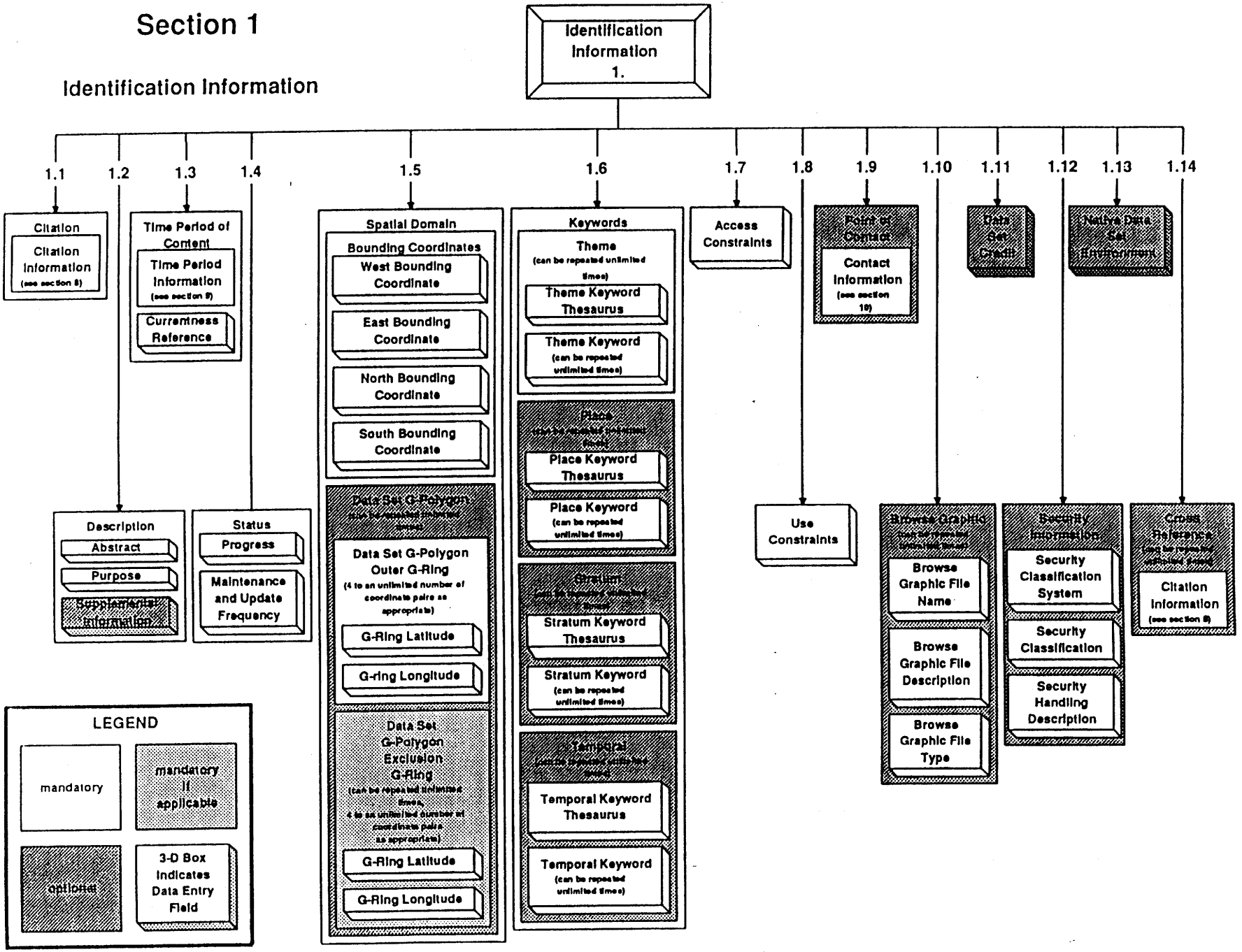
Prepared by Susan Stitt, Technology Transfer Center, National Biological Survey
In conjunction with the FGDC Standards Working Group



0 Metadata -- data about the content, quality, condition, and other characteristics of data.
Type: compound

Section 1

Identification Information



1 Identification Information -- basic information about the data set.
Type: compound

1.1 Citation -- information to be used to reference the data set.
Type: compound

FAQ: Where are the data elements for the "Citation" element?

Because the "Citation" elements are required by another section, the elements were grouped in Section 8.

1.2 Description -- a characterization of the data set, including its intended use and limitations.
Type: compound

1.2.1 Abstract -- a brief narrative summary of the data set.
Type: text
Domain: free text

1.2.2 Purpose -- a summary of the intentions with which the data set was developed.
Type: text
Domain: free text

FAQ: What is the difference between the "Abstract" and the "Purpose" elements?

The "Abstract" briefly describes the "what" aspects of the data set (For example, what information is in the data set? What area is covered?). The "Purpose" describes the "why" aspects of the data set (For example, why was the data set created?).

1.2.3 Supplemental Information -- other descriptive information about the data set.
Type: text
Domain: free text

1.3 Time Period of Content -- time period(s) for which the data set corresponds to the ground.
Type: compound

FAQ: Where are the data elements for the "Time Period of Content" element?

Because the "Time Period of Content" elements are required by another section, the elements were grouped in Section 9.

1.3.1 Currentness Reference -- the basis on which the time period of content information is determined.
Type: text
Domain: "ground condition" "publication date" free text

FAQ: What does "currentness reference" mean?

Information about the currentness of a data set (that is, information about how "up-to-date" is a data set) is important to many, if not most, potential users. Most users are interested in the currentness of a data set related to the "ground condition" (that is, when the "real world" looked the way it is described in the data set). Unfortunately, sometimes only the time that the information was recorded or published is known. The Currentness Reference element requires the producer to identify if the Time Period of Content dates and times refer to the ground condition, or some later time when the information was recorded, published, etc.

1.4 Status -- the state of and maintenance information for the data set.
Type: compound

1.4.1 Progress -- the state of the data set.
Type: text
Domain: "Complete" "In work" "Planned"

1.4.2 Maintenance and Update Frequency -- the frequency with which changes and additions are made to the data set after the initial data set is completed.
Type: text
Domain: "Continually" "Daily" "Weekly" "Monthly" "Annually" "Unknown" "As needed" "Irregular" "None planned" free text

1.5 Spatial Domain - the geographic areal domain of the data set.
Type: compound

1.5.1 Bounding Coordinates - the limits of coverage of a data set expressed by latitude and longitude values in the order western-most, eastern-most, northern-most, and southern-most. For data sets that include a complete band of latitude around the earth, the West Bounding Coordinate shall be assigned the value -180.0, and the East Bounding Coordinate shall be assigned the value 180.0
Type: compound

1.5.1.1 West Bounding Coordinate -- western-most coordinate of the limit of coverage expressed in longitude.
Type: real
Domain: -180.0 <= West Bounding Coordinate < 180.0

1.5.1.2 East Bounding Coordinate -- eastern-most coordinate of the limit of coverage expressed in longitude.
Type: real
Domain: -180.0 <= East Bounding Coordinate <= 180.0

1.5.1.3 North Bounding Coordinate -- northern-most coordinate of the limit of coverage expressed in latitude.
Type: real
Domain: -90.0 <= North Bounding Coordinate <= 90.0;
North Bounding Coordinate >=
South Bounding Coordinate

1.5.1.4 South Bounding Coordinate -- southern-most coordinate of the limit of coverage expressed in latitude.

Type: real

Domain: -90.0 <= South Bounding Coordinate <= 90.0; South Bounding Coordinate <= North Bounding Coordinate

1.5.2 Data Set G-Polygon -- coordinates defining the outline of an area covered by a data set.

Type: compound

1.5.2.1 Data Set G-Polygon Outer G-Ring -- the closed nonintersecting boundary of an interior area.

Type: compound

1.5.2.1.1 G-Ring Latitude -- the latitude of a point of the g-ring.

Type: real

Domain: -90.0 <= G-Ring Latitude <= 90.0

1.5.2.1.2 G-Ring Longitude -- the longitude of a point of the g-ring.

Type: real

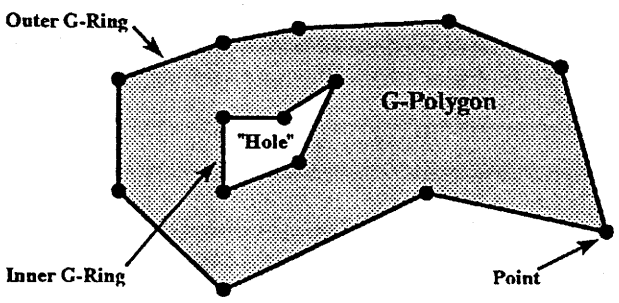
Domain: -180.0 <= G-Ring Longitude < 180.0

1.5.2.2 Data Set G-Polygon Exclusion G-Ring -- the closed nonintersecting boundary of a void area (or "hole") in an interior area.

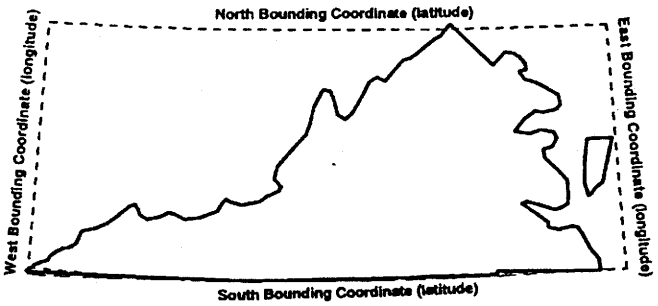
Type: compound

FAQ: What is a G-Polygon? What is a G-Ring? What is the difference between an "outer" and "inner" G-Ring?

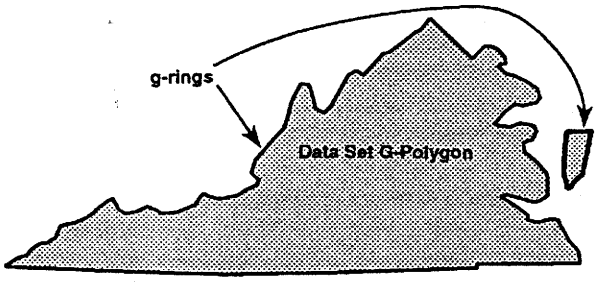
The terminology of G-Polygon and G-Ring is taken from the Spatial Data Transfer Standard. In simple terms, a G-Polygon is a closed, connected (contiguous) area. A G-Ring is a set of coordinates that defines a boundary of the area. The first and last points in the set of coordinates must be the same. The "outer" G-Ring describes the outside edge of the G-Polygon. "Inner" G-Rings describe any "holes" that might occur in the G-Polygon.



FAQ: What is the difference between the Bounding Coordinates and the Data Set G-Polygon?



The Bounding Coordinates are the west-, east-, north-, and south-most extents of the data set.



The g-rings that describe the Data Set G-Polygon form the outline of the data set.

FAQ: Why do the standards allow both Bounding Coordinates and Data Set G-Polygons? Why are Bounding Coordinates mandatory, and the Data Set G-Polygons optional?

The purpose of the Spatial Domain element is to describe the "footprint" of the data set. This footprint can be used for spatial searches in data catalogs and other purposes.

Comments received during the development of the standards recommended requiring the Bounding Coordinates instead of the more demanding (but more exact) Data Set G-Polygons. To provide a common means of conducting spatial searches on all metadata, Bounding Coordinates were made mandatory. Many users indicated a desire to provide the Data Set G-Polygons to allow the results of spatial searches to be more exact, and so the Data Set G-Polygon elements were added as an option.

FAQ: Why are the g-rings composed of four or more points? A triangle can be represented by three points.

The ring must be closed (that is, the first and last points must be the same). So the minimum number of points to describe a triangle is four (point 1, point 2, point 3, point 1).

1.6 Keywords -- words or phrases summarizing an aspect of the data set.
Type: compound

FAQ: What is the purpose of the keywords?

A keyword is a word or phrase that signifies the meaning or main ideas of a data set. They often are used as an index to the contents of a data set. The standards provide for four types of keywords: theme (the subject of the data set, such as wetlands, vegetation, etc.), place (the geographic location of the data set, such as Montgomery County, Yellowstone National Park), stratum (the vertical location of the data set, such as seafloor, seabed, troposphere, stratosphere), and temporal (time references for a data set, such as pre-Columbian, World War II).

1.6.1 Theme -- subjects covered by the data set (for a list of some commonly-used thesauri, see Part IV: Subject/index term sources *in* Network Development and MARC Standards Office, 1988, USMARC code list for relators, sources, and description conventions: Washington, Library of Congress).
Type: compound

1.6.1.1 Theme Keyword Thesaurus -- reference to a formally registered thesaurus or a similar authoritative source of theme keywords.
Type: text
Domain: "None" free text

1.6.1.2 Theme Keyword -- common-use word or phrase used to describe the subject of the data set.
Type: text
Domain: free text

1.6.2 Place -- geographic locations characterized by the data set.
Type: compound

1.6.2.1 Place Keyword Thesaurus -- reference to a formally registered thesaurus or a similar authoritative source of place keywords.
Type: text
Domain: "None" "Geographic Names Information System" free text

1.6.2.2 Place Keyword -- the geographic name of a location covered by a data set.
Type: text
Domain: free text

1.6.3 Stratum -- layered, vertical locations characterized by the data set.
Type: compound

1.6.3.1 Stratum Keyword Thesaurus -- reference to a formally registered thesaurus or a similar authoritative source of stratum keywords.
Type: text
Domain: "None" free text

1.6.3.2 Stratum Keyword -- the name of a vertical location used to describe the locations covered by a data set.
Type: text
Domain: free text

1.6.4 Temporal -- time period(s) characterized by the data set.
Type: compound

1.6.4.1 Temporal Keyword Thesaurus -- reference to a formally registered thesaurus or a similar authoritative source of temporal keywords.
Type: text
Domain: "None" free text

1.6.4.2 Temporal Keyword -- the name of a time period covered by a data set.
Type: text
Domain: free text

1.7 Access Constraints -- restrictions and legal prerequisites for accessing the data set. These include any access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the data set.

Type: text
Domain: "None" free text

1.8 Use Constraints -- restrictions and legal prerequisites for using the data set after access is granted. These include any access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the data set.

Type: text
Domain: "None" free text

CORRECTION: Use Constraints -- restrictions and legal prerequisites for using the data set after access is granted. These include any ~~access~~use constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on ~~obtaining~~using the data set.

FAQ: What types of constraints are to be provided for Access Constraints and Use Constraints?

The types of constraints intended are those applied to ensure rights of privacy or intellectual property, and any other special restrictions, limitations, or warranties on obtaining or using the information resources, or its component products. Recommendations on the types of uses to which the data set may or may not be applied should be described in the "Purpose" data element (1.2.2). Descriptions of data quality should be provided using the elements in section 2.

1.9 Point of Contact -- contact information for an individual or organization that is knowledgeable about the data set.

Type: compound

FAQ: Where are the data elements for the "Point of Contact" element?

Because the "Point of Contact" elements are required by another section, the elements were grouped in Section 10.

FAQ: What is the difference between the "Originator" in compound element "Citation" (1.1) and the "Point of Contact" element?

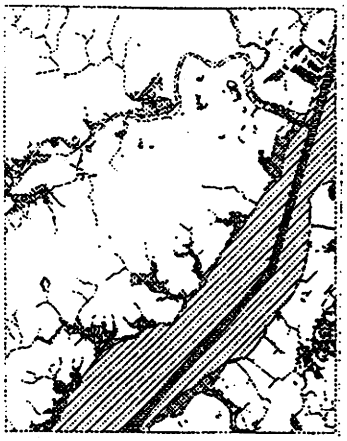
The "Originator" is the person(s) and organization(s) that developed the data set. The "Point of Contact" is the person(s) and organization(s) that can be contacted if questions arise about the data set. The "Originator" and the "Point of Contact" may be the same.

1.10 Browse Graphic -- a graphic that provides an illustration of the data set. The graphic should include a legend for interpreting the graphic.

Type: compound

FAQ: What is the purpose of a browse graphic?

A browse graphic is an image of the data set. The image allows prospective users move beyond textual descriptions and see what the data set looks like. The image might show a simple display of the data set, the results of an application that used the data set, different aspects of the quality of the data set, or other information. Examples:



A reduced-scale plot of the hydrography overlay from the SDTS-encoded Digital Line Graph data set for Wilmington South, Delaware-New Jersey.

Portion of an orthophotoquad near Palm Springs, California.

1.10.1 Browse Graphic File Name -- name of a related graphic file that provides an illustration of the data set.

Type: text
Domain: free text

1.10.2 Browse Graphic File Description -- a text description of the illustration.

Type: text
Domain: free text

1.10.3 Browse Graphic File Type -- graphic file type of a related graphic file.

Type: text
Domain: domain values in the table below; free text

Domain Value	Definition
"CGM"	Computer Graphics Metafile
"EPS"	Encapsulated Postscript format
"GIF"	Graphic Interchange Format
"JPEG"	Joint Photographic Experts Group format
"PBM"	Portable Bit Map format
"PS"	Postscript format
"TIFF"	Tagged Image File Format
"XWD"	X-Windows Dump

1.11 Data Set Credit -- recognition of those who contributed to the data set.
Type: text
Domain: free text

FAQ: What is the purpose of the "Data Set Credit" data element?

The "Data Set Credit" data element was provided to allow the originator to recognize other person(s), organization(s), or events that made the data set possible. These might include sponsors, sources of funds, reviewers, dedications, etc.

1.12 Security Information -- handling restrictions imposed on the data set because of national security, privacy, or other concerns.
Type: compound

1.12.1 Security Classification System -- name of the classification system.
Type: text
Domain: free text

1.12.2 Security Classification -- name of the handling restrictions on the data set.
Type: text
Domain: "Top secret" "Secret" "Confidential" "Restricted" "Unclassified" "Sensitive" free text

1.12.3 Security Handling Description -- additional information about the restrictions on handling the data set.
Type: text
Domain: free text

1.13 Native Data Set Environment -- a description of the data set in the producer's processing environment, including items such as the name of the software (including version), the computer operating system, file name (including host-, path-, and filenames), and the data set size.
Type: text
Domain: free text

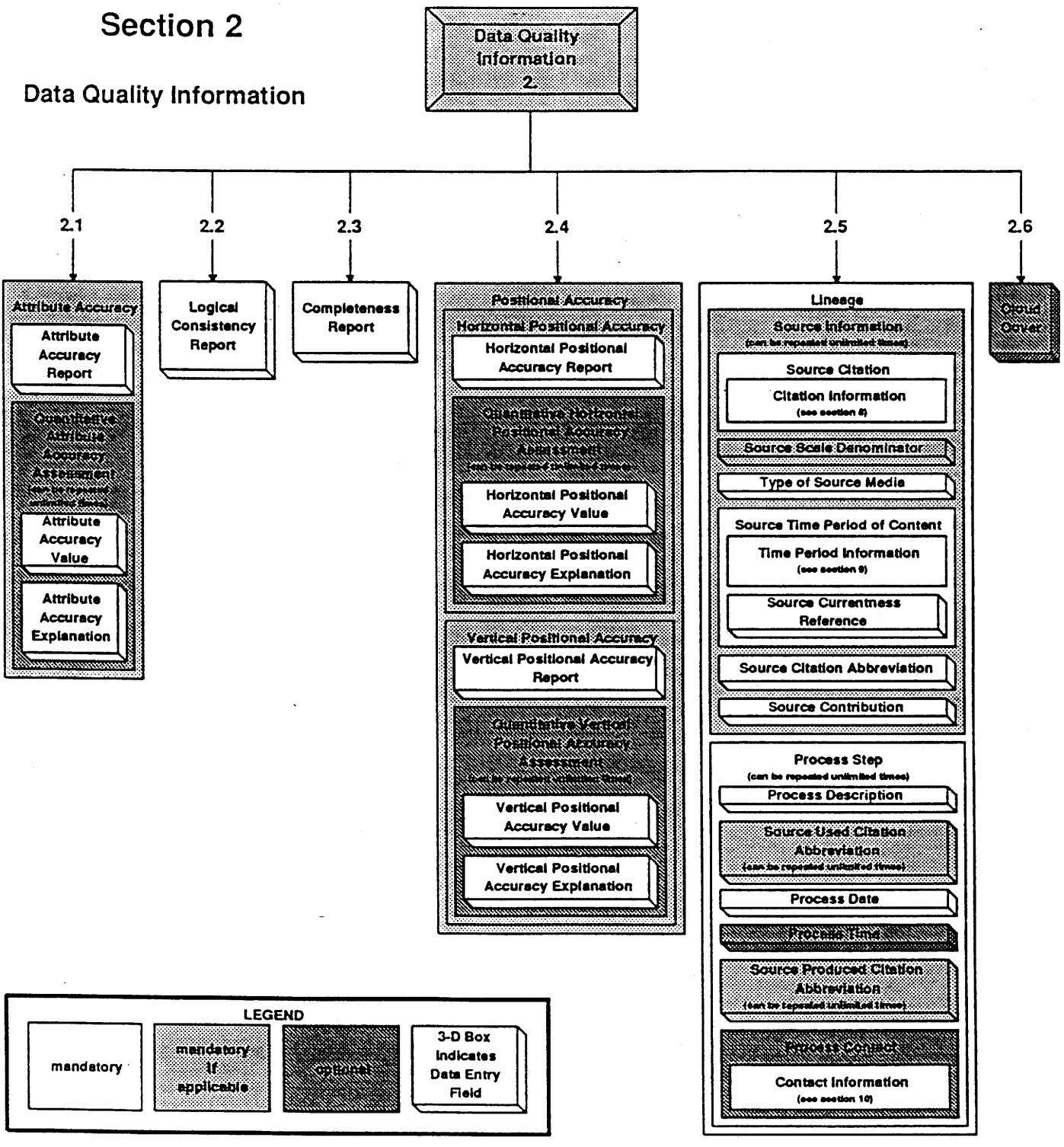
1.14 Cross Reference -- information about other, related data sets that are likely to be of interest.
Type: compound

FAQ: Where are the data elements for the Cross Reference element?

Because the "Cross Reference" elements are required by another section, the elements were grouped in Section 8.

Section 2

Data Quality Information



2 Data Quality Information -- a general assessment of the quality of the data set. (Recommendations on information to be reported and tests to be performed are found in "Spatial Data Quality," which is chapter 3 of part 1 *in* Department of Commerce, 1992, Spatial Data Transfer Standard (SDTS) (Federal Information Processing Standard 173): Washington, Department of Commerce, National Institute of Standards and Technology.)
Type: compound

FAQ: Must the quality information be reported only in textual form?

No. Quality and other information can be provided in the form of browse graphics, or through online services. To provide non-textual information, furnish the URL of the graphic or service at the appropriate place in the quality report.

2.1 Attribute Accuracy -- an assessment of the accuracy of the identification of entities and assignment of attribute values in the data set.
Type: compound

2.1.1 Attribute Accuracy Report -- an explanation of the accuracy of the identification of the entities and assignments of values in the data set and a description of the tests used.
Type: text
Domain: free text

2.1.2 Quantitative Attribute Accuracy Assessment -- a value assigned to summarize the accuracy of the identification of the entities and assignments of values in the data set and the identification of the test that yielded the value.
Type: compound

2.1.2.1 Attribute Accuracy Value -- an estimate of the accuracy of the identification of the entities and assignments of attribute values in the data set.
Type: text
Domain: "Unknown" free text

2.1.2.2 Attribute Accuracy Explanation -- the identification of the test that yielded the Attribute Accuracy Value.
Type: text
Domain: free text

FAQ: What is the difference between the Attribute Accuracy Report and the Quantitative Attribute Accuracy Assessment?

[This answer applies to both the attribute and positional accuracy elements.] The Attribute Accuracy Report is a complete description of the accuracy of the attribute information in the data set, include the identification of tests used, testing metholodogy, results obtained, etc.

In developing the metadata standard, reviewers asked that a summary method of providing results also be permitted. While this summary method would not relieve producers of the obligation to provide a thorough report, it would allow users, especially those using a data catalog, to quickly exclude those data sets that obviously would not serve a user's needs. The Quantitative Attribute

Accuracy Assessment (and its horizontal and vertical accuracy counterparts) were provided in response to this request. A producer identifies the test used by name and the value obtained from the test. The derivation of these values should be described in the accuracy reports.

FAQ: What does SDTS say about attribute accuracy?

Attribute Accuracy

Accuracy assessment for measures on a continuous scale shall be performed using procedures similar to those used for positional accuracy (providing a numerical estimate of expected discrepancies). The report of a test of attribute accuracy shall include the date of the test and the dates of the materials used. In the case of different dates, the report shall describe the rates of change in the phenomena classified. Spatial variations in attribute accuracy may be reported in a quality overlay.

Accuracy tests for categorical attributes may be performed by one of the following methods. All methods shall make reference to map scale in interpreting classifications.

Deductive Estimate. Any estimate, even a guess based on experience, is permitted. The basis for the deduction shall be explained. Statements such as "good" or "poor" should be explained in as quantitative a manner as possible.

Tests Based on Independent Samples. A misclassification matrix shall be reported as counts of sample units crosstabulated by the categories of the sample and of the tested material. The sampling procedure and the location of sample units shall be described.

Tests Based on Polygon Overlay. A misclassification matrix shall be reported as areas. The relationship between the two maps shall be explained; as far as possible, the two sources should be independent and one should have higher accuracy.

2.2 Logical Consistency Report -- an explanation of the fidelity of the relationships in the data set and the tests used.

Type: text
Domain: free text

FAQ: What does SDTS say about logical consistency?

Logical Consistency

A report on logical consistency shall describe the fidelity of relationships encoded in the data structure of the digital spatial data. The report shall detail the tests performed and the results of the tests.

Tests of Valid Values. Tests for permissible values may be applied to any data structure. Such a test can detect gross blunders, but it does not ensure all aspects of logical consistency.

General Tests for Graphic Data. A data base containing lines may be subjected to the following general questions:

- Do lines intersect only where intended?
- Are any lines entered twice?
- Are all areas completely described?
- Are there any overshoots or undershoots?
- Are any polygons too small, or any lines too close?

Different tests may be applied to address these questions, but the quality report shall contain a description of the tests applied or a reference to documentation of the software used. The report shall state whether all inconsistencies were corrected or it shall detail the remaining errors by case.

Specific Topological Tests. For exhaustive areal coverage data transmitted as chains or derived from chains, it is permissible to report logical consistency as "Topologically Clean" under the condition that an automated procedure has verified the following conditions:

(a) All chains intersect at nodes. Use of exact case or tolerance shall be reported.

(b) Cycles of chains and nodes are consistent around polygons. Or, alternatively, cycles of chains and polygons are consistent around nodes.

(c) Inner rings embed consistently in enclosing polygons.

The quality report shall identify the software (name and version) used to verify these conditions.

Date of Test. The report shall include the date on which the tests were applied. If corrections and modifications have occurred after the test for logical consistency, the quality report shall indicate how the new information was checked for logical consistency.

2.3 Completeness Report -- information about omissions, selection criteria, generalization, definitions used, and other rules used to derive the data set.
Type: text
Domain: free text

FAQ: What does SDTS say about completeness?

Completeness

The quality report shall include information about selection criteria, definitions used and other relevant mapping rules. For example, geometric thresholds such as minimum area or minimum width shall be reported.

In encoding spatial entities, standard geocodes (such as described in the FIPS codes for States, counties, municipalities, and places) shall be employed if possible. Deviations from standard definitions and interpretations shall be described.

The report on completeness shall describe the relationship between the objects represented and the abstract universe of all such objects. In particular, the report shall describe the exhaustiveness of a set of features. Exhaustiveness concerns spatial and taxonomic (attribute) properties, both of which can be tested. A test for spatial completeness can be obtained from topological tests for logical consistency described in 3.4.3 [of SDTS]. Tests for taxonomic completeness operate by comparison of a master list of geocodes to the codes actually appearing in the file. The procedures used for testing and the results shall be described in the quality report.

2.4 Positional Accuracy -- an assessment of the accuracy of the positions of spatial objects.
Type: compound

2.4.1 Horizontal Positional Accuracy -- an estimate of accuracy of the horizontal positions of the spatial objects.
Type: compound

2.4.1.1 Horizontal Positional Accuracy Report -- an explanation of the accuracy of the horizontal coordinate measurements and a description of the tests used.
Type: text
Domain: free text

2.4.1.2 Quantitative Horizontal Positional Accuracy Assessment -- numeric value assigned to summarize the accuracy of the horizontal coordinate measurements and the identification of the test that yielded the value.
Type: compound

2.4.1.2.1 Horizontal Positional Accuracy Value -- an estimate of the accuracy of the horizontal coordinate measurements in the data set expressed in (ground) meters.
Type: real
Domain: free real

2.4.1.2.2 Horizontal Positional Accuracy Explanation -- the identification of the test that yielded the Horizontal Positional Accuracy Value.
Type: text
Domain: free text

2.4.2 Vertical Positional Accuracy -- an estimate of accuracy of the vertical positions in the data set.
Type: compound

2.4.2.1 Vertical Positional Accuracy Report -- an explanation of the accuracy of the vertical coordinate measurements and a description of the tests used.
Type: text
Domain: free text

2.4.2.2 Quantitative Vertical Positional Accuracy Assessment -- numeric value assigned to summarize the accuracy of vertical coordinate measurements and the identification of the test that yielded the value.
Type: compound

2.4.2.2.1 Vertical Positional Accuracy Value -- an estimate of the accuracy of the vertical coordinate measurement in the data set expressed in (ground) meters.
Type: real
Domain: free real

2.4.2.2.2 Vertical Positional Accuracy Explanation -- the identification of the test that yielded the Vertical Positional Accuracy Value.
Type: text
Domain: free text

FAQ: What is the difference between the positional accuracy reports and the positional quantitative accuracy assessments?

See faq for Attribute Accuracy (element 2.1).

FAQ: What does SDTS say about positional accuracy?

Positional Accuracy

The quality report portion on positional accuracy shall include the degree of compliance to the spatial registration standard (see section 4.1.3.5 [of SDTS]). Quality of control surveys shall be reported by using the procedures established in the geodetic standard. If a separate control survey has been used, it shall be described in the standard form, even if results fall below the recognized classification thresholds.

Descriptions of positional accuracy shall consider the quality of the final product after all transformations. The information on transformations forms a part of the lineage portion of the quality report.

The report of any test of positional accuracy shall include the date of the test. Variations in positional accuracy shall be reported either as additional attributes of each spatial object or through a quality overlay (reliability diagram).

Measures of positional accuracy may be obtained by one of the following optional methods.

Deductive Estimate. Any deductive statement based on knowledge of errors in each production step shall include reference to complete calibration tests and shall also describe assumptions concerning error propagation. Results from deductive estimates shall be distinguished from results of other tests.

Internal Evidence. Federal Geodetic Control Committee procedures will be used for tests based on repeated measurement and redundancy such as closure of traverse or residuals from an adjustment.

Comparison to Source. When using graphic inspection of results ("check plots"), the geometric tolerances applied shall be reported and the method of registration shall also be described. Use of check plots shall be included in the lineage portion.

Independent Source of Higher Accuracy. The preferred test for positional accuracy is a comparison to an independent source of higher accuracy. The test shall be conducted using the rules prescribed in the "ASPRS Accuracy Standards for Large Scale Maps" (see 1.3.3 [of SDTS]). When the dates of testing and source material differ, the report shall describe the procedures used to ensure that the results relate to positional error and not to temporal effects. The numerical results in ground units, as well as the number and location of the test points, shall be reported. A statement of compliance to a particular threshold is not adequate in itself. This test may only be applicable to well-defined points.

2.5 Lineage -- information about the events, parameters, and source data which constructed the data set, and information about the responsible parties.
Type: compound

2.5.1 Source Information -- list of sources and a short discussion of the information contributed by each.
Type: compound

2.5.1.1 Source Citation -- reference for a source data set.
Type: compound

FAQ: Where are the data elements for the "Source Citation" element?

Because the elements are required by another section, the elements were grouped in Section 8.

2.5.1.2 Source Scale Denominator -- the denominator of the representative fraction on a map (for example, on a 1:24,000-scale map, the Source Scale Denominator is 24000).
Type: integer
Domain: Source Scale Denominator > 1

2.5.1.3 Type of Source Media -- the medium of the source data set.
Type: text
Domain: "paper" "stable-base material" "microfiche" "microfilm" "audiocassette" "chart" "filmstrip" "transparency" "videocassette" "videodisc" "videotape" "physical model" "computer program" "disc" "cartridge tape" "magnetic tape" "online" "CD-ROM" "electronic bulletin board" "electronic mail system" free text

2.5.1.4 Source Time Period of Content -- time period(s) for which the source data set corresponds to the ground.
Type: compound

2.5.1.4.1 Source Currentness Reference -- the basis on which the source time period of content information of the source data set is determined.
Type: text
Domain: "ground condition" "publication date" free text

2.5.1.5 Source Citation Abbreviation -- short-form alias for the source citation.
Type: text
Domain: free text

2.5.1.6 Source Contribution -- brief statement identifying the information contributed by the source to the data set.
Type: text
Domain: free text

2.5.2 Process Step -- information about a single event.
Type: compound

2.5.2.1 Process Description -- an explanation of the event and related parameters or tolerances.
Type: text
Domain: free text

2.5.2.2 Source Used Citation Abbreviation -- the Source Citation Abbreviation of a data set used in the processing step.
Type: text
Domain: Source Citation Abbreviations from the Source Information entries for the data set.

2.5.2.3 Process Date -- the date when the event was completed.
Type: date
Domain: "Unknown" "Not complete" free date

2.5.2.4 Process Time -- the time when the event was completed.
Type: time
Domain: free time

2.5.2.5 Source Produced Citation Abbreviation -- the Source Citation Abbreviation of an intermediate data set that (1) is significant in the opinion of the data producer, (2) is generated in the processing step, and (3) is used in later processing steps.
Type: text
Domain: Source Citation Abbreviations from the Source Information entries for the data set.

2.5.2.6 Process Contact -- the party responsible for the processing step information.
Type: compound

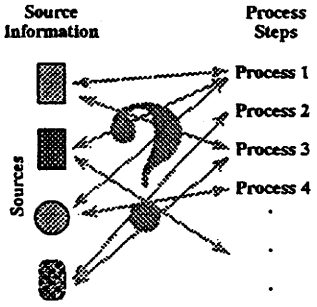
FAQ: Where are the data elements for the "Process Contact" element?

Because the elements are required by another section, the elements were grouped in Section 10.

FAQ: How do the "Source Citation Abbreviation" and "Source Used Citation Abbreviation" work?

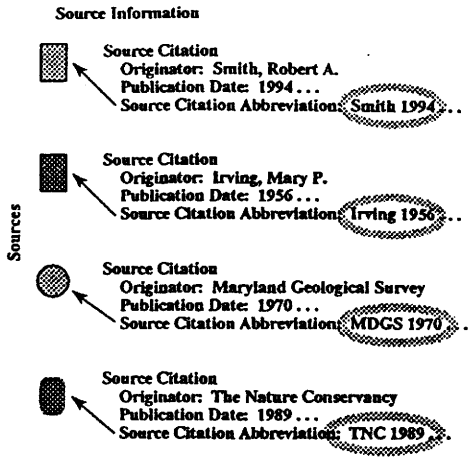
The standards establish a set of sources (the "Source Information" element) and a set of processes (the "Process Step" element). Usually, many sources and many processes are used to develop a data set of geospatial data. How can the sources and the process steps be linked?

One could describe each source used in the description of each processing step, or describe all the processing steps in which each source participates in the description of the sources. A better way would be to link the source descriptions to the appropriate processing steps. The standards do this through the source abbreviations.



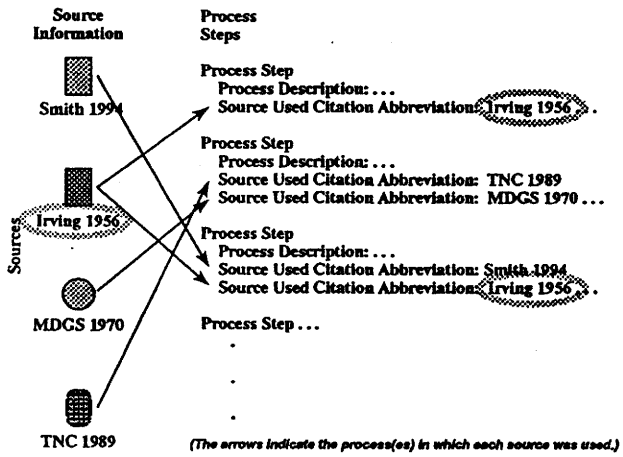
How can the sources and the processing steps be linked?

Assign a unique abbrevation to each source. The standards do not describe how to create the abbreviation. One means is to use the Originator and Publication Date of the source. Other styles also are possible. For example, a discipline that had a standard style for citing references in professional papers might choose that style for the abbreviation. Large organizations that have a library of source materials may choose to use the library's unique identifier for each source as the abbreviation. The most important thing is that each source must have a unique abbreviation.



Assign a unique abbreviation to each source.

Use the abbreviations to link the sources to the processing steps.

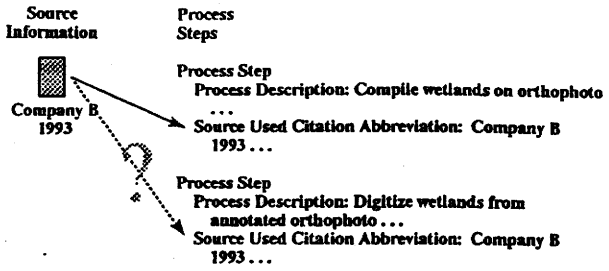


Use the abbreviations to link sources to process steps.

FAQ: How does the "Source Produced Citation Abbreviation" work?

The "Source Produced Citation Abbreviation" is used when a process generates an intermediate data set that an organization wishes to note separately. To use this feature, the intermediate data set must be documented as a source. It can then be referenced by any processing step.

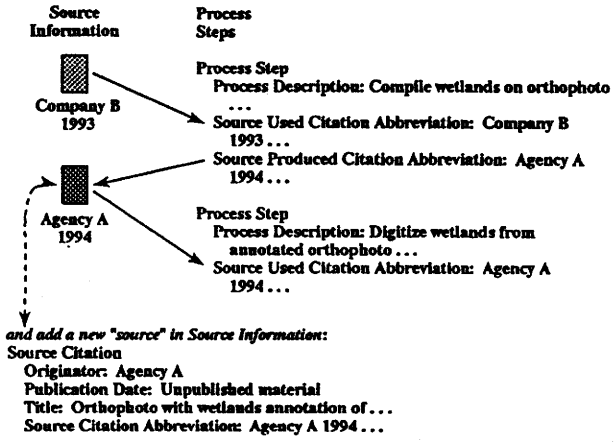
For example (see figures at right), an organization (named Agency A) might compile wetlands information on an orthophoto and then digitizes wetlands information. The organization wishes to document the activity using the standards, and requires that the compilation and digitizing process steps be described separately. In addition, the organization obtained the orthophoto from another organization (named Company B).



Is source "Company B 1993" the source for the second processing step . . .

In the first process step, wetlands are compiled onto the orthophoto (source Company B 1993). In the second step, the wetlands are digitized from the annotated orthophoto. But from what source? One choice is source Company B 1993, although that source (the orthophoto) does not have the compiled wetlands information.

Another choice is to have the first process step produce a "source" which is the annotated orthophoto. This source would be described using the Source Information element, and abbreviated as Agency A 1994. Source Agency A 1994 (the annotated orthophoto) can then be referenced by subsequent process steps.



or is source "Agency A 1994"?

FAQ: What does SDTS say about lineage?

Lineage

The lineage portion of a quality report shall include a description of the source material from which the data were derived and the methods of derivation, including all transformations involved in producing the final digital files. The description shall include the dates of the source material and the dates of ancillary information used for update. The date assigned to a source shall reflect the date that the information corresponds to the ground; however, if this date is not known, then a date of publication may be used, if declared as such.

Any data base created by merging information obtained from distinct sources shall be described in sufficient detail to identify the actual source for each element in the file. In these cases, either a lineage code on each element or a quality overlay (source data index, etc.) shall be required.

The lineage portion shall also include reference to the specific control information used. Control from the National Geodetic Reference System shall be identified according to identifiers in that system, while other points used for control shall be described with sufficient detail to allow recovery.

3 Spatial Data Organization Information -- the mechanism used to represent spatial information in the data set.
Type: compound

3.1 Indirect Spatial Reference -- name of types of geographic features, addressing schemes, or other means through which locations are referenced in the data set.
Type: text
Domain: free text

FAQ: What is an indirect spatial reference?

An indirect spatial reference is any way to describe a location without using coordinates. Indirect spatial reference methods usually use a geographic feature, such as a county, state, township or section of the Public Land Survey System, or a road, to uniquely identify a place. The reference may use the name of the feature (for example "Westmoreland County") or a code that identifies the feature (such as a county FIPS code). Other examples of indirect spatial references include street addresses, linear reference systems, and River Reach codes.

FAQ: Why are indirect spatial references included in the metadata standards?

Indirect spatial references are included because they are a very common means by which observations or other attribute information are tied to a place. The location of many socioeconomic, environmental, and other data often are referenced by identifying a unit of political geography (e.g. a city, county, or state), census geography (e.g. block, block group, or tract), street address, linear referencing system (e.g. milepost), and so on. While these indirect spatial references alone may not be sufficient for geographic analyses, they can serve as a means to link the attribute data to coordinate descriptions of the places to which the attribute data apply.

3.2 Direct Spatial Reference Method -- the system of objects used to represent space in the data set.
Type: text
Domain: "Point" "Vector" "Raster"

3.3 Point and Vector Object Information -- the types and numbers of vector or nongridded point spatial objects in the data set.
Type: compound

3.3.1 SDTS Terms Description -- point and vector object information using the terminology and concepts from "Spatial Data Concepts," which is chapter 2 of part 1 *in* Department of Commerce, 1992, Spatial Data Transfer Standard (SDTS) (Federal Information Processing Standard 173): Washington, Department of Commerce, National Institute of Standards and Technology. *(Note that this reference to the SDTS is used ONLY to provide a set of terminology for the point and vector objects.)*
Type: compound

3.3.1.1 SDTS Point and Vector Object Type -- name of point and vector spatial objects used to locate zero-, one-, and two-dimensional spatial locations in the data set.

Type: text

Domain: (The domain is from "Spatial Data Concepts," which is chapter 2 of part 1 *in* Department of Commerce, 1992, Spatial Data Transfer Standard (SDTS) (Federal Information Processing Standard 173): Washington, Department of Commerce, National Institute of Standards and Technology):
"Point" "Entity point" "Label point" "Area point" "Node, planar graph" "Node, network" "String" "Link" "Complete chain" "Area chain" "Network chain, planar graph"
"Network chain, nonplanar graph"
"Circular arc, three point center" "Elliptical arc"
"Uniform B-spline" "Piecewise Bezier"
"Ring with mixed composition"
"Ring composed of strings" "Ring composed of chains"
"Ring composed of arcs" "G-polygon"
"GT-polygon composed of rings"
"GT-polygon composed of chains"
"Universe polygon composed of rings"
"Universe polygon composed of chains"
"Void polygon composed of rings"
"Void polygon composed of chains"

3.3.1.2 Point and Vector Object Count -- the total number of the point or vector object type occurring in the data set.

Type: integer

Domain: Point and Vector Object Count > 0

3.3.2 VPF Terms Description -- point and vector object information using the terminology and concepts from Department of Defense, 1992, Vector Product Format (MIL-STD-600006): Philadelphia, Department of Defense, Defense Printing Service Detachment Office. *(Note that this reference to the VPF is used ONLY to provide a set of terminology for the point and vector objects.)*

Type: compound

3.3.2.1 VPF Topology Level -- the completeness of the topology carried by the data set. The levels of completeness are defined in Department of Defense, 1992, Vector Product Format (MIL-STD-600006): Philadelphia, Department of Defense, Defense Printing Service Detachment Office.

Type: integer

Domain: 0 <= VPF Topology Level <= 3

3.3.2.2 VPF Point and Vector Object Type -- name of point and vector spatial objects used to locate zero-, one-, and two-dimensional spatial locations in the data set.

Type: text

Domain: (The domain is from Department of Defense, 1992, Vector Product Format (MIL-STD-600006): Philadelphia, Department of Defense, Defense Printing Service Detachment Office):
"Node" "Edge" "Face" "Text"

3.4 Raster Object Information -- the types and numbers of raster spatial objects in the data set.

Type: compound

3.4.1 Raster Object Type -- raster spatial objects used to locate zero-, two-, or three-dimensional locations in the data set.

Type: text

Domain: (With the exception of "voxel", the domain is from "Spatial Data Concepts," which is chapter 2 of part 1 *in* Department of Commerce, 1992, Spatial Data Transfer Standard (SDTS) (Federal Information Processing Standard 173): Washington, Department of Commerce, National Institute of Standards and Technology):
"Point" "Pixel" "Grid Cell" "Voxel"

3.4.2 Row Count -- the maximum number of raster objects along the ordinate (y) axis. For use with rectangular raster objects.

Type: Integer

Domain: Row Count > 0

3.4.3 Column Count -- the maximum number of raster objects along the abscissa (x) axis. For use with rectangular raster objects.

Type: Integer

Domain: Column Count > 0

3.4.4 Vertical Count -- the maximum number of raster objects along the vertical (z) axis. For use with rectangular volumetric raster objects (voxels).

Type: Integer

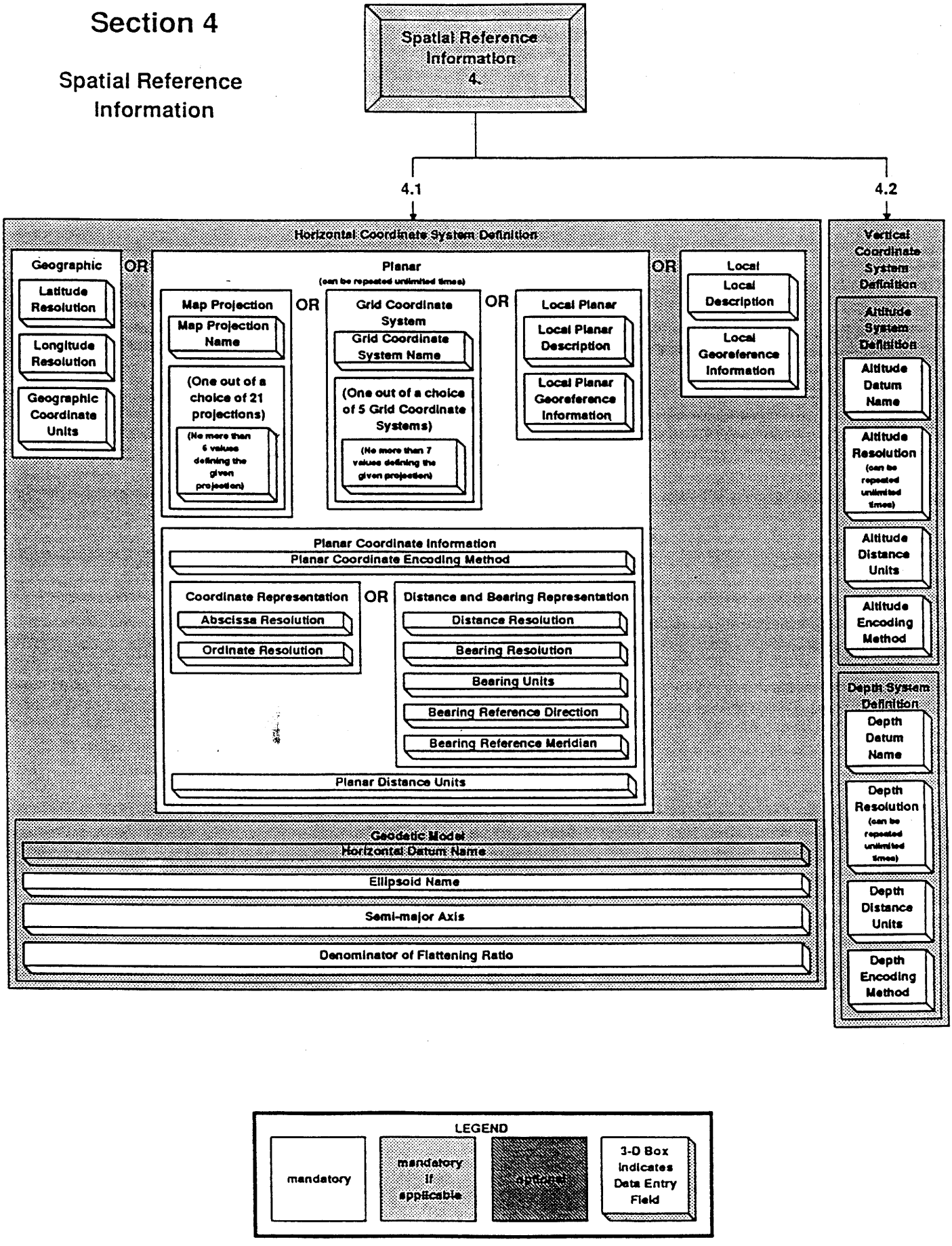
Domain: Depth Count > 0

FAQ: Where can I record the resolution of the raster objects?

Coordinate resolution information is encoded in section 4. For raster data recorded in geographic (longitude-latitude) coordinates, use "Latitude Resolution" (4.1.1.1) and "Longitude Resolution" (4.1.1.2). For planar (x-y) coordinates, use "Abscissa Resolution" (4.1.2.4.2.1) and "Ordinate Resolution" (4.1.2.4.2.2). For other (local) systems, include resolution information in "Local Description" (4.1.3.1). The resolution of vertical measurements should be provided in "Altitude Resolution" (4.2.1.2) for altitudes or elevations and "Depth Resolution" (4.2.2.2) for depths.

Section 4

Spatial Reference Information



4 Spatial Reference Information -- the description of the reference frame for, and the means to encode, coordinates in the data set.
Type: compound

4.1 Horizontal Coordinate System Definition -- the reference frame or system from which linear or angular quantities are measured and assigned to the position that a point occupies.
Type: compound

4.1.1 Geographic -- the quantities of latitude and longitude which define the position of a point on the Earth's surface with respect to a reference spheroid.
Type: compound

4.1.1.1 Latitude Resolution -- the minimum difference between two adjacent latitude values expressed in Geographic Coordinate Units of measure.
Type: real
Domain: Latitude Resolution > 0.0

4.1.1.2 Longitude Resolution -- the minimum difference between two adjacent longitude values expressed in Geographic Coordinate Units of measure.
Type: real
Domain: Longitude Resolution > 0.0

4.1.1.3 Geographic Coordinate Units -- units of measure used for the latitude and longitude values.
Type: text
Domain: "Decimal degrees" "Decimal minutes" "Decimal seconds" "Degrees and decimal minutes" "Degrees, minutes, and decimal seconds" "Radians" "Grads"

4.1.2 Planar -- the quantities of distances, or distances and angles, which define the position of a point on a reference plane to which the surface of the Earth has been projected.
Type: compound

FAQ: (!) Do I really need to do all the map projections that follow? all the grid systems that follow? (!)

Remember that the purpose of the metadata standards is to allow the description of data sets. The standards provide explicit means to encode parameters for map projections and grid systems that are commonly used in the United States, as well as the means to develop encodings of parameters for map projections and grid systems that are used less frequently. You only need to use the parts of the standards for the maps projections and grid systems that you use in your data sets. The rest of the map projections and grid systems don't apply to you; ignore them.

4.1.2.1 Map Projection -- the systematic representation of all or part of the surface of the Earth on a plane or developable surface.
Type: compound

4.1.2.1.1 Map Projection Name -- name of the map projection.
Type: text
Domain: "Albers Conical Equal Area"
"Azimuthal Equidistant" "Equidistant Conic"

"Equirectangular" "General Vertical Near-sided Projection" "Gnomomic" "Lambert Azimuthal Equal Area" "Lambert Conformal Conic" "Mercator" "Modified Stereographic for Alaska" "Miller Cylindrical" "Oblique Mercator" "Orthographic" "Polar Stereographic" "Polyconic" "Robinson" "Sinusoidal" "Space Oblique Mercator" "Stereographic" "Transverse Mercator" "van der Grinten" "other projection"

4.1.2.1.2 *(map projection parameters for:)* Albers Conical Equal Area, Azimuthal Equidistant, Equidistant Conic, Equirectangular, General Vertical Near-sided Projection, Gnomomic, Lambert Azimuthal Equal Area, Lambert Conformal Conic, Mercator, Modified Stereographic for Alaska, Miller Cylindrical, Oblique Mercator, Orthographic, Polar Stereographic, Polyconic, Robinson, Sinusoidal, Space Oblique Mercator (Landsat), Stereographic, Transverse Mercator, van der Grinten[1] -- parameters for a specific map projection, each having a unique mathematical relationship between the Earth and the plane or developable surface.

Type: compound

(The data elements 4.1.2.1.2.1 through 4.1.2.1.2.17 are map projection parameters. Each map projection has a specific set of defining parameters. These sets of parameters are provided in the syntax for each projection.)

Assemble the parameters for the projection as follows:

Albers Conical Equal Area
- *(one or two occurrences of)* Standard Parallel:
- Longitude of Central Meridian:
- Latitude of Projection Origin:
- False Easting:
- False Northing:

Azimuthal Equidistant
- Longitude of Central Meridian:
- Latitude of Projection Origin:
- False Easting:
- False Northing:

Equidistant Conic
- *(one or two occurrences of)* Standard Parallel:
- Longitude of Central Meridian:
- Latitude of Projection Origin:
- False Easting:
- False Northing:

Equirectangular
- Standard Parallel:
- Longitude of Central Meridian:
- False Easting:
- False Northing:

General Vertical Near-sided Perspective
- Height of Perspective Point Above Surface:
- Longitude of Projection Center:
- Latitude of Projection Center:
- False Easting:
- False Northing:

Gnomonic
- Longitude of Projection Center:
- Latitude of Projection Center:
- False Easting:
- False Northing:

[1]-Reference information on these map projections and their parameters can be found in Synder, John, 1987, Map projections: a working manual (U.S. Geological Survey Professional Paper 1395): Washington, U.S. Government Printing Office.

Lambert Azimuthal Equal Area
Longitude of Projection Center:
Latitude of Projection Center:
False Easting:
False Northing:

Lambert Conformal Conic
(one or two occurrences of) Standard Parallel:
Longitude of Central Meridian:
Latitude of Projection Origin:
False Easting:
False Northing:

Mercator =
Standard Parallel: *or* Scale Factor at Equator:
Longitude of Central Meridian:
False Easting:
False Northing:

Modified Stereographic for Alaska
False Easting:
False Northing:

Miller Cylindrical
Longitude of Central Meridian:
False Easting:
False Northing:

Oblique Mercator
Scale Factor at Center Line:

Oblique Line Azimuth
Azimuthal Angle:
Azimuth Measure Point Longitude:
or
Oblique Line Point
(two occurrences of both)
Oblique Line Latitude:
Oblique Line Longitude:

Latitude of Projection Origin:
False Easting:
False Northing:

Orthographic
Longitude of Projection Center:
Latitude of Projection Center:
False Easting:
False Northing:

Polar Stereographic
Straight-Vertical Longitude from Pole:

Standard Parallel:
or
Scale Factor at Projection Origin:

False Easting:
False Northing:

Polyconic
Longitude of Central Meridian:
Latitude of Projection Origin:
False Easting:
False Northing:

Robinson
Longitude of Projection Center:
False Easting:
False Northing:

Sinusoidal
Longitude of Central Meridian:
False Easting:
False Northing:

Space Oblique Mercator (Landsat)
Landsat Number:
Path Number:
False Easting:
False Northing:

Stereographic
Longitude of Projection Center:
Latitude of Projection Center:
False Easting:
False Northing:

Transverse Mercator
Scale Factor at Central Meridian:
Longitude of Central Meridian:
Latitude of Projection Origin:
False Easting:
False Northing:

van der Grinten
Longitude of Central Meridian:
False Easting:
False Northing:

CORRECTION: Albers Conical Equal Area, Azimuthal Equidistant, Equidistant Conic, Equirectangular, General Vertical Near-sided ~~Projection~~Perspective, ~~Gnomonic~~Gnomonic, Lambert Azimuthal Equal Area, Lambert Conformal Conic, Mercator, Modified Stereographic for Alaska, Miller Cylindrical, Oblique Mercator, Orthographic, Polar Stereographic, Polyconic, Robinson, Sinusoidal, Space Oblique Mercator (Landsat), Stereographic, Transverse Mercator, van der Grinten -- parameters for a specific map projection, each having a unique mathematical relationship between the Earth and the plane or developable surface.

4.1.2.1.2.1 Standard Parallel -- line of constant latitude at which the surface of the Earth and the plane or developable surface intersect.

Type: real
Domain: -90.0 <= Standard Parallel <= 90.0

4.1.2.1.2.2 Longitude of Central Meridian -- the line of longitude at the center of a map projection generally used as the basis for constructing the projection.

Type: real
Domain: -180.0 <= Longitude of Central Meridian < 180.0

4.1.2.1.2.3 Latitude of Projection Origin -- latitude chosen as the origin of rectangular coordinates for a map projection.

Type: real
Domain: -90.0 <= Latitude of Projection Origin <= 90.0

4.1.2.1.2.4 False Easting -- the value added to all "x" values in the rectangular coordinates for a map projection. This value frequently is assigned to eliminate negative numbers. Expressed in the unit of measure identified in Planar Coordinate Units.

Type: real
Domain: free real

4.1.2.1.2.5 False Northing -- the value added to all "y" values in the rectangular coordinates for a map projection. This value frequently is assigned to eliminate negative numbers. Expressed in the unit of measure identified in Planar Coordinate Units.

Type: real
Domain: free real

4.1.2.1.2.6 Scale Factor at Equator -- a multiplier for reducing a distance obtained from a map by computation or scaling to the actual distance along the equator.

Type: real
Domain: Scale Factor at Equator > 0.0

4.1.2.1.2.7 Height of Perspective Point Above Surface -- height of viewpoint above the Earth, expressed in meters.

Type: real
Domain: Height of Perspective Point Above Surface > 0.0

4.1.2.1.2.8 Longitude of Projection Center -- longitude of the point of projection for azimuthal projections.
Type: real
Domain: -180.0 <= Longitude of Projection Center < 180.0

4.1.2.1.2.9 Latitude of Projection Center -- latitude of the point of projection for azimuthal projections.
Type: real
Domain: -90.0 <= Latitude of Projection Center <= 90.0

4.1.2.1.2.10 Scale Factor at Center Line -- a multiplier for reducing a distance obtained from a map by computation or scaling to the actual distance along the center line.
Type: real
Domain: Scale Factor at Center Line > 0.0

4.1.2.1.2.11 Oblique Line Azimuth -- method used to describe the line along which an oblique mercator map projection is centered using the map projection origin and an azimuth.
Type: compound

4.1.2.1.2.11.1 Azimuthal Angle -- angle measured clockwise from north, and expressed in degrees.
Type: real
Domain: 0.0 <= Azimuthal Angle < 360.0

4.1.2.1.2.11.2 Azimuth Measure Point Longitude -- longitude of the map projection origin.
Type: real
Domain: -180.0 <= Azimuth Measure Point Longitude < 180.0

4.1.2.1.2.12 Oblique Line Point -- method used to describe the line along which an oblique mercator map projection is centered using two points near the limits of the mapped region that define the center line.
Type: compound

4.1.2.1.2.12.1 Oblique Line Latitude -- latitude of a point defining the oblique line.
Type: real
Domain: -90.0 <= Oblique Line Latitude <= 90.0

4.1.2.1.2.12.2 Oblique Line Longitude -- longitude of a point defining the oblique line.
Type: real
Domain: -180.0 <= Oblique Line Longitude < 180.0

4.1.2.1.2.13 Straight Vertical Longitude from Pole -- longitude to be oriented straight up from the North or South Pole.
Type: real
Domain: -180.0 <= Straight Vertical Longitude from Pole < 180.0

4.1.2.1.2.14 Scale Factor at Projection Origin -- a multiplier for reducing a distance obtained from a map by computation or scaling to the actual distance at the projection origin.

Type: real
Domain: Scale Factor at Projection Origin > 0.0

4.1.2.1.2.15 Landsat Number -- number of the Landsat satellite. *(Note: This data element exists solely to provide a parameter needed to define the space oblique mercator projection. It is not used to identify data originating from a remote sensing vehicle.)*

Type: Integer
Domain: 0 < Landsat Number < 5

4.1.2.1.2.16 Path Number -- number of the orbit of the Landsat satellite. *(Note: This data element exists solely to provide a parameter needed to define the space oblique mercator projection. It is not used to identify data originating from a remote sensing vehicle.)*

Type: integer
Domain: 0 < Path Number < 251 for Landsats 1, 2, or 3
0 < Path Number < 233 for Landsats 4 or 5

4.1.2.1.2.17 Scale Factor at Central Meridian -- a multiplier for reducing a distance obtained from a map by computation or scaling to the actual distance along the central meridian.

Type: real
Domain: Scale Factor at Central Meridian > 0.0

4.1.2.1.3 Other Projection's Definition -- a complete description of a projection, not defined elsewhere in this standard, that was used for the data set. The information provided shall include the name of the projection, the names of the parameters and values used for the data set, and the citation of the specification for the algorithms that describe the mathematical relationship between the Earth and the plane or developable surface for the projection.

Type: text
Domain: free text

4.1.2.2 Grid Coordinate System -- a plane-rectangular coordinate system usually based on, and mathematically adjusted to, a map projection so that geographic positions can be readily transformed to and from plane coordinates.

Type: compound

4.1.2.2.1 Grid Coordinate System Name -- name of the grid coordinate system.

Type: text
Domain: "Universal Transverse Mercator"
"Universal Polar Stereographic"
"State Plane Coordinate System 1927"
"State Plane Coordinate System 1983"
"ARC Coordinate System" "other grid system"

Assemble the parameters for the grid system as follows:

Universal Transverse Mercator
UTM Zone Number:
Transverse Mercator
(use parameters from Transverse Mercator)

Universal Polar Stereographic
UPS Zone Identifier:
Polar Stereographic
(use parameters from Polar Stereographic)

ARC Coordinate System
ARC System Zone Identifier:
Equirectangular
or
Azimuthal Equidistant
(use parameters from the appropriate projection)

State Plane Coordinate System
SPCS Zone Identifier:
Lambert Conformal Conic
or
Transverse Mercator
or
Oblique Mercator
or
Polyconic
(use parameters from the appropriate projection)

4.1.2.2.2 Universal Transverse Mercator (UTM) -- a grid system based on the transverse mercator projection, applied between latitudes 84 degrees north and 80 degrees south on the Earth's surface.
Type: compound

4.1.2.2.2.1 UTM Zone Number -- identifier for the UTM zone.
Type: integer
Domain: 1 <= UTM Zone Number <= 60 for the northern hemisphere;
-60 <= UTM Zone Number <= -1 for the southern hemisphere

4.1.2.2.3 Universal Polar Stereographic (UPS) -- a grid system based on the polar stereographic projection, applied to the Earth's polar regions north of 84 degrees north and south of 80 degrees south.
Type: compound

4.1.2.2.3.1 UPS Zone Identifier -- identifier for the UPS zone.
Type: text
Domain: "A" "B" "Y" "Z"

4.1.2.2.4 State Plane Coordinate System (SPSC) -- a plane-rectangular coordinate system established for each state in the United States by the National Geodetic Survey.
Type: compound

4.1.2.2.4.1 SPCS Zone Identifier -- identifier for the SPCS zone.
Type: text
Domain: Four-digit numeric codes for the State Plane Coordinate Systems based on the North American Datum of 1927 are found in Department of Commerce, 1986, Representation of geographic point locations for information interchange (Federal

Information Processing Standard 70-1): Washington: Department of Commerce, National Institute of Standards and Technology. Codes for the State Plane Coordinate Systems based on the North American Datum of 1983 are found in Department of Commerce, 1989 (January), State Plane Coordinate System of 1983 (National Oceanic and Atmospheric Administration Manual NOS NGS 5): Silver Spring, Maryland, National Oceanic and Atmospheric Administration, National Ocean Service, Coast and Geodetic Survey.

4.1.2.2.5 ARC Coordinate System -- the Equal Arc-second Coordinate System, a plane-rectangular coordinate system established *in* Department of Defense, 1990, Military specification ARC Digitized Raster Graphics (ADRG) (MIL-A-89007): Philadelphia, Department of Defense, Defense Printing Service Detachment Office.
Type: compound

4.1.2.2.5.1 ARC System Zone Identifier -- identifier for the ARC Coordinate System Zone.
Type: integer
Domain: 1 <= ARC System Zone Identifier <= 18

4.1.2.2.6 Other Grid System's Definition -- a complete description of a grid system, not defined elsewhere in this standard, that was used for the data set. The information provided shall include the name of the grid system, the names of the parameters and values used for the data set, and the citation of the specification for the algorithms that describe the mathematical relationship between the Earth and the coordinates of the grid system.
Type: text
Domain: free text

4.1.2.3 Local Planar -- any right-handed planar coordinate system of which the z-axis coincides with a plumb line through the origin that locally is aligned with the surface of the Earth.
Type: compound

FAQ: What is a "local planar" system?

A local planar coordinate system is any planar coordinate system for which the relationship between the planar coordinates and geographic (latitude and longitude) coordinates is not known. In these cases, the standards ask the producer to describe the coordinate system (the orientation of the axes, etc.) and any means that can be used to link the local system to geographic coordinates.

4.1.2.3.1 Local Planar Description -- a description of the local planar system.
Type: text
Domain: free text

4.1.2.3.2 Local Planar Georeference Information -- a description of the information provided to register the local planar system to the Earth (e.g. control points, satellite ephemeral data, inertial navigation data).
Type: text
Domain: free text

4.1.2.4 Planar Coordinate Information -- information about the coordinate system developed on the planar surface.
Type: compound

4.1.2.4.1 Planar Coordinate Encoding Method -- the means used to represent horizontal positions.
Type: text
Domain: "coordinate pair" "distance and bearing" "row and column"

4.1.2.4.2 Coordinate Representation -- the method of encoding the position of a point by measuring its distance from perpendicular reference axes (the "coordinate pair" and "row and column" methods).
Type: compound

4.1.2.4.2.1 Abscissa Resolution -- the (nominal) minimum distance between the "x" or column values of two adjacent points, expressed in Planar Distance Units of measure.
Type: real
Domain: Abscissa Resolution > 0.0

4.1.2.4.2.2 Ordinate Resolution -- the (nominal) minimum distance between the "y" or row values of two adjacent points, expressed in Planar Distance Units of measure.
Type: real
Domain: Ordinate Resolution > 0.0

FAQ: What is meant by coordinate resolution?

The coordinate resolution is the smallest difference that can be encoded between adjacent coordinate values in the data set. In raster data sets, these values normally are the dimensions of the pixel or grid cell. In vector data sets, the resolution is the shortest line that can be encoded in the data set.

4.1.2.4.3 Distance and Bearing Representation -- a method of encoding the position of a point by measuring its distance and direction (azimuth angle) from another point.
Type: compound

4.1.2.4.3.1 Distance Resolution -- the minimum distance measurable between two points, expressed Planar Distance Units of measure.
Type: real
Domain: Distance Resolution > 0.0

4.1.2.4.3.2 Bearing Resolution -- the minimum angle measurable between two points, expressed in Bearing Units of measure.
Type: real
Domain: Bearing Resolution > 0.0

4.1.2.4.3.3 Bearing Units -- units of measure used for angles.
Type: text
Domain: "Decimal degrees" "Decimal minutes" "Decimal seconds" "Degrees and decimal minutes" "Degrees, minutes, and decimal seconds" "Radians" "Grads"

4.1.2.4.3.4 Bearing Reference Direction -- direction from which the bearing is measured.
Type: text
Domain: "North" "South"

4.1.2.4.3.5 Bearing Reference Meridian -- axis from which the bearing is measured.
Type: text
Domain: "Assumed" "Grid" "Magnetic" "Astronomic" "Geodetic"

4.1.2.4.4 Planar Distance Units -- units of measure used for distances.
Type: text
Domain: "meters" "international feet" "survey feet" free text

4.1.3 Local -- a description of any coordinate system that is not aligned with the surface of the Earth.
Type: compound

FAQ: What is a "local" system?

A local coordinate system is any non-planar, non-geographic coordinate system. Examples include oblique photography and unrectified satellite images. In these cases, the standards ask the producer to describe the coordinate system and any means that can be used to link the local system to geographic coordinates.

4.1.3.1 Local Description -- a description of the coordinate system and its orientation to the surface of the Earth.
Type: text
Domain: free text

4.1.3.2 Local Georeference Information -- a description of the information provided to register the local system to the Earth (e.g. control points, satellite ephemeral data, inertial navigation data).
Type: text
Domain: free text

4.1.4 Geodetic Model -- parameters for the shape of the earth.
Type: compound

4.1.4.1 Horizontal Datum Name -- the identification given to the reference system used for defining the coordinates of points.
Type: text
Domain: "North American Datum of 1927" "North American Datum of 1983" free text

4.1.4.2 Ellipsoid Name -- identification given to established representations of the Earth's shape.

Type: text

Domain: "Clarke 1866" "Geodetic Reference System 80" free text

---

FAQ: Is there a relationship between horizontal datums and ellipsoids?

A horizontal datum is defined in part by the parameters of a reference ellipsoid.

FAQ: What are the ellipsoids associated with the horizontal datums listed in the domain of the "Horizontal Datum Name" element?

Horizontal Datum	Ellipsoid
North American Datum of 1927	Clarke 1866
North American Datum of 1983	Geodetic Reference System 80

4.1.4.3 Semi-major Axis -- radius of the equatorial axis of the ellipsoid.

Type: real

Domain: Semi-major Axis > 0.0

4.1.4.4 Denominator of Flattening Ratio -- the denominator of the ratio of the difference between the equatorial and polar radii of the ellipsoid when the numerator is set to 1.

Type: real

Domain: Denominator of Flattening > 0.0

FAQ: What are the values for the semi-major axis and denominator of flattening ratio for some commonly used ellipsoids?

The table below provides the values for some commonly used ellipsoids. Note, however, that it is important that you record the values that were used in your computer software with your data, and not merely those that are available in a reference book.

Name	Date	Semi-major (equitorial) axis, meters	Denominator of Flattening Ratio	Source
Geodetic Reference System 80	1980	6,378,137 *	298.257	Snyder 1987 **
			298.25722210088 ***	Department of Commerce 1989
World Geodetic System 72	1972	6,378,135 *	298.26	Snyder 1987 ****
Clarke	1866	6,378,206.4 *	294.98	Snyder 1987

* - Taken as exact values.

** - "Ellipsoid derived from adopted model of Earth. World Geodetic System 84 has same dimensions within accuracy shown." (Snyder 1987).

*** - To 14 significant digits by computation.

**** - Ellipsoid derived from adopted model of Earth.

4.2 Vertical Coordinate System Definition -- the reference frame or system from which vertical distances (altitudes or depths) are measured.
Type: compound

4.2.1 Altitude System Definition -- the reference frame or system from which altitudes (elevations) are measured. The term "altitude"' is used instead of the common term "elevation" to conform to the terminology in Federal Information Processing Standards 70-1 and 173.
Type: compound

4.2.1.1 Altitude Datum Name -- the identification given to the level surface taken as the surface of reference from which altitudes are measured.
Type: text
Domain: "National Geodetic Vertical Datum of 1929"
"North American Vertical Datum of 1988" free text

4.2.1.2 Altitude Resolution -- the minimum distance possible between two adjacent altitude values, expressed in Altitude Distance Units of measure.
Type: real
Domain: Altitude Resolution > 0.0

4.2.1.3 Altitude Distance Units -- units in which altitudes are recorded.
Type: text
Domain: "meters" "feet" free text

4.2.1.4 Altitude Encoding Method -- the means used to encode the altitudes.
Type: text
Domain: "Explicit elevation coordinate included with horizontal coordinates" "Implicit coordinate" "Attribute values"

4.2.2 Depth System Definition -- the reference frame or system from which depths are measured.
Type: compound

4.2.2.1 Depth Datum Name -- the identification given to surface of reference from which depths are measured.
Type: text
Domain: "Local surface" "Chart datum; datum for sounding reduction" "Lowest astronomical tide"
"Highest astronomical tide" "Mean low water" "Mean high water" "Mean sea level" "Land survey datum"
"Mean low water springs" "Mean high water springs"
"Mean low water neap" "Mean high water neap"
"Mean lower low water" "Mean lower low water springs"
"Mean higher high water" "Mean higher low water"
"Mean lower high water" "Spring tide" "Tropic lower low water" "Neap tide" "High water" "Higher high water"
"Low water" "Low-water datum" "Lowest low water"
"Lower low water" "Lowest normal low water" "Mean tide level" "Indian spring low water"
"High-water full and charge" "Low-water full and charge"
"Columbia River datum" "Gulf Coast low water datum"
"Equatorial springs low water" "Approximate lowest astronomical tide" "No correction" free text

4.2.2.2 Depth Resolution -- the minimum distance possible between two adjacent depth values, expressed in Depth Distance Units of measure.

Type: real
Domain: Depth Resolution > 0.0

4.2.2.3 Depth Distance Units -- units in which depths are recorded.

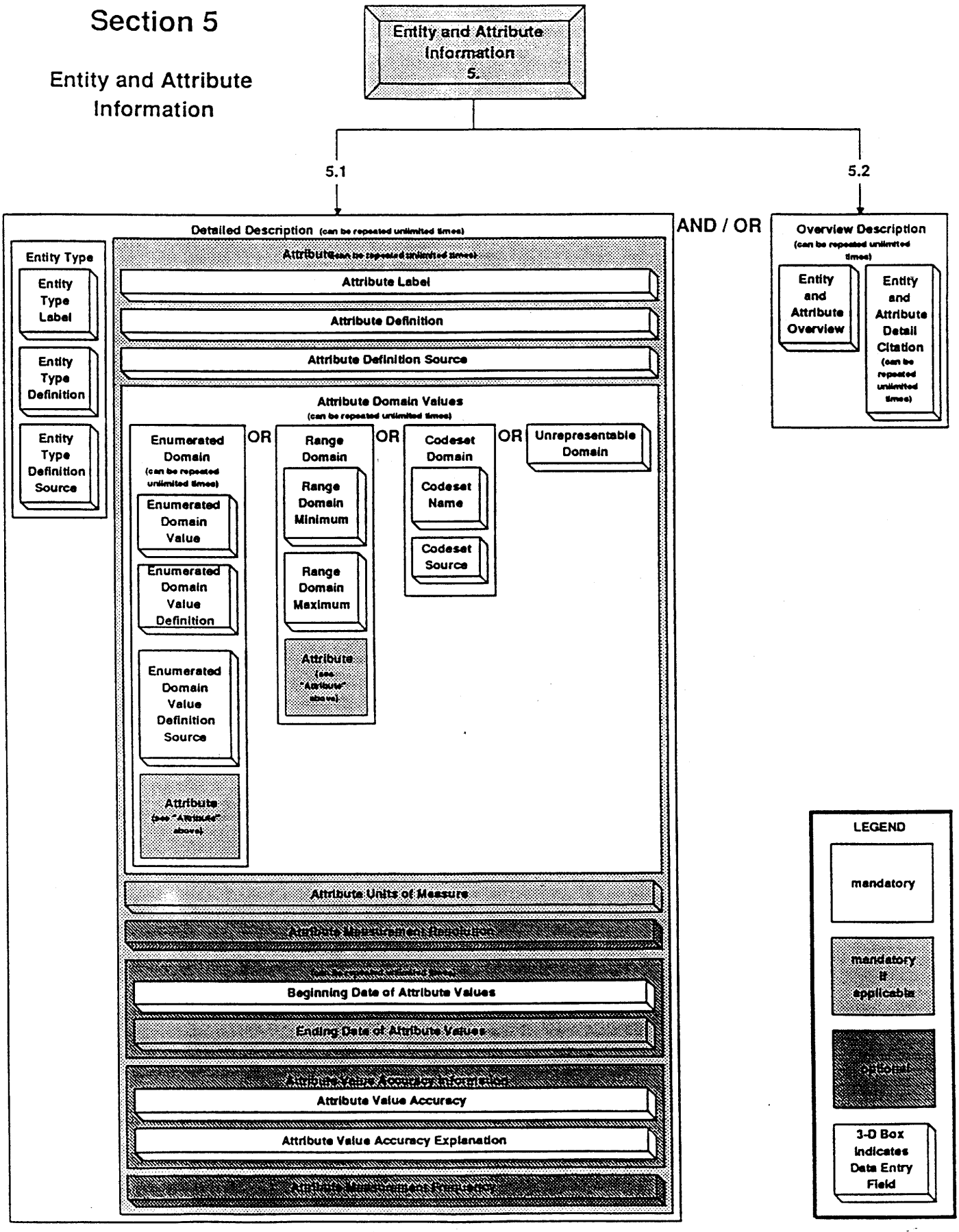
Type: text
Domain: "meters" "feet" free text

4.2.2.4 Depth Encoding Method -- the means used to encode depths.

Type: text
Domain: "Explicit depth coordinate included with horizontal coordinates" "Implicit coordinate" "Attribute values"

Section 5

Entity and Attribute Information



5 Entity and Attribute Information -- information about the information content of the data set, including the entities types, their attributes, and the domains from which attribute values may be assigned.
Type: compound

FAQ: What is the purpose of the Entity and Attribute Information section?

Users of a data set need to know the meaning of entity, attribute, and attribute value information associated with the spatial information. For example, a data set might include the entity "road." A "road" might have the attribute "road type," which can be assigned the attribute values of "heavy duty," "medium duty," "light duty," or "trail." The producer of the data set may have different definitions for "road," "road type," "heavy duty," "medium duty," "light duty," and "trail" than a user. The Entity and Attribute Information section provides the way for a producer to describe the meaning of this nonspatial entity, attribute, and attribute value information so a user can understand the information content of a data set and use the data appropriately.

FAQ: What is the difference between the Detailed Description and Overview Description elements?

As stated above, users must have access to the meanings of the entities, attributes, and attribute values in a data set. The Detailed Description provides the elements needed to describe these meanings.

In developing the metadata standards, reviewers noted that they often had complete data dictionaries for their entity, attribute, and attribute value information, and preferred to refer to the existing descriptions instead of duplicating them. The Overview Description provides the elements needed to give users a sense of the information content and a reference to the source(s) of the complete description. Note that the Overview Description does not relieve the producer of the responsibility to provide a complete description. The Overview Description elements refer to the source of the complete description, and do not allow a producer merely to summarize the information content.

The two approaches can be used together to document a data set. The Overview Description would be used to describe data for which a complete description is available elsewhere; the Detailed Description would be used to describe data for which a complete description has not be compiled elsewhere.

5.1 Detailed Description -- description of the entities, attributes, attribute values, and related characteristics encoded in the data set.
Type: compound

5.1.1 Entity Type -- the definition and description of a set into which similar entity instances are classified.
Type: compound

5.1.1.1 Entity Type Label -- the name of the entity type.
Type: text
Domain: free text

5.1.1.2 Entity Type Definition -- the description of the entity type.
Type: text
Domain: free text

5.1.1.3 Entity Type Definition Source -- the authority of the definition.
Type: text
Domain: free text

5.1.2 Attribute -- a defined characteristic of an entity.
Type: compound

5.1.2.1 Attribute Label -- the name of the attribute.
Type: text
Domain: free text

5.1.2.2 Attribute Definition -- the description of the attribute.
Type: text
Domain: free text

5.1.2.3 Attribute Definition Source -- the authority of the definition.
Type: text
Domain: free text

5.1.2.4 Attribute Domain Values -- the valid values that can be assigned for an attribute.
Type: compound

FAQ: What is a domain? an enumerated domain? a range domain? a codeset domain? an unrepresentable domain?

A domain is the set of possible data values of an attribute. From the example used above, the domain for the attribute "road type" consists of "heavy duty," "medium duty," "light duty," and "trail."

An enumerated domain is one comprised of a list of values. The "road type" attribute has an enumerated domain which contains the values "heavy duty," "medium duty," "light duty,' and "trail." In this case, the list of possible values, the definitions of the values, and the sources of the definitions should be provided.

A range domain is one comprised of a sequence, series, or scale of (usually numeric) values between limits. For example, an attribute of age might have a range domain of integers from 0 to 100. In this case, the minimum and maximum values should be provided.

A codeset domain is one in which the data values are defined by a set of codes. Examples include the Federal Information Processing Standards that contain numeric codes for nations, States, and counties. In this case, the title of the publication containing the code set and the source of the codeset should be provided.

An unrepresentable domain is one for which the set of data values cannot be represented. Reasons include attributes whose values do not exist in a known, predefined set (for example, the values for an attribute of people's names), or attributes whose values cannot be depicted using the forms of representation (available character set, etc) used for the metadata. In these cases, the information content of the set of values should be provided.

FAQ: What is the purpose of the "Attribute" compound element at the end of the "Enumerated Domain" and "Range Domain" compound elements?

Comments provided during the public review requested the ability to document a construct named "attribute of attribute value." This construct allows additional information to be provided about an

attribute value assigned to an entity. For example, an entity "well" may have an attribute "product." The attribute values for "product" include "water" and other items.

Additional information about the water from the well may be known. Using the "attribute of attribute value" construct, the value "water" is assigned attributes (for example "water characteristics") that provide this information.

5.1.2.4.1 Enumerated Domain -- the members of an established set of valid values.
Type: compound

5.1.2.4.1.1 Enumerated Domain Value -- the name or label of a member of the set.
Type: text
Domain: free text

5.1.2.4.1.2 Enumerated Domain Value Definition -- the description of the value.
Type: text
Domain: free text

5.1.2.4.1.3 Enumerated Domain Value Definition Source -- the authority of the definition.
Type: text
Domain: free text

5.1.2.4.2 Range Domain -- the minimum and maximum values of a continuum of valid values.
Type: compound

5.1.2.4.2.1 Range Domain Minimum -- the least value that the attribute can be assigned.
Type: text
Domain: free text

5.1.2.4.2.2 Range Domain Maximum -- the greatest value that the attribute can be assigned.
Type: text
Domain: free text

5.1.2.4.3 Codeset Domain -- reference to a standard or list which contains the members of an established set of valid values.
Type: compound

5.1.2.4.3.1 Codeset Name -- the title of the codeset.
Type: text
Domain: free text

5.1.2.4.3.2 Codeset Source -- the authority for the codeset.
Type: text
Domain: free text

5.1.2.4.4 Unrepresentable Domain -- description of the values and reasons why they cannot be represented.
Type: text
Domain: free text

5.1.2.5 Attribute Units of Measurement -- the standard of measurement for an attribute value.
Type: text
Domain: free text

CORRECTION: Attribute Units of ~~Measurement~~Measure -- the standard of measurement for an attribute value.

5.1.2.6 Attribute Measurement Resolution -- the smallest unit increment to which an attribute value is measured.
Type: real
Domain: Attribute Measurement Resolution > 0.0

5.1.2.7 Beginning Date of Attribute Values -- earliest or only date for which the attribute values are current. In cases when a range of dates are provided, this is the earliest date for which the information are valid.
Type: date
Domain: free date

5.1.2.8 Ending Date of Attribute Values -- latest date for which the information are current. Used in cases when a range of dates are provided.
Type: date
Domain: free date

5.1.2.9 Attribute Value Accuracy Information -- an assessment of the accuracy of the assignment of attribute values.
Type: compound

FAQ: What is the purpose of the Attribute Value Accuracy Information element? How does it relate to the Attribute Accuracy element in section 2?

In developing the metadata standards, reviewers asked for the ability to report the accuracy of the values assigned to an attribute with the definition of the attribute. The ability to summarize the accuracy was included as an option. The complete report of the accuracy should be included in the Attribute Accuracy element in section 2.

5.1.2.9.1 Attribute Value Accuracy -- an estimate of the accuracy of the assignment of attribute values.
Type: real
Domain: free real

5.1.2.9.2 Attribute Value Accuracy Explanation -- the definition of the Attribute Value Accuracy measure and units, and a description of how the estimate was derived.

Type: text
Domain: free text

5.1.2.10 Attribute Measurement Frequency -- the frequency with which attribute values are added.

Type: real
Domain: "Unknown" "As needed" "Irregular" "None planned" free text

5.2 Overview Description -- summary of, and citation to detailed description of, the information content of the data set.

Type: compound

5.2.1 Entity and Attribute Overview -- detailed summary of the information contained in a data set.

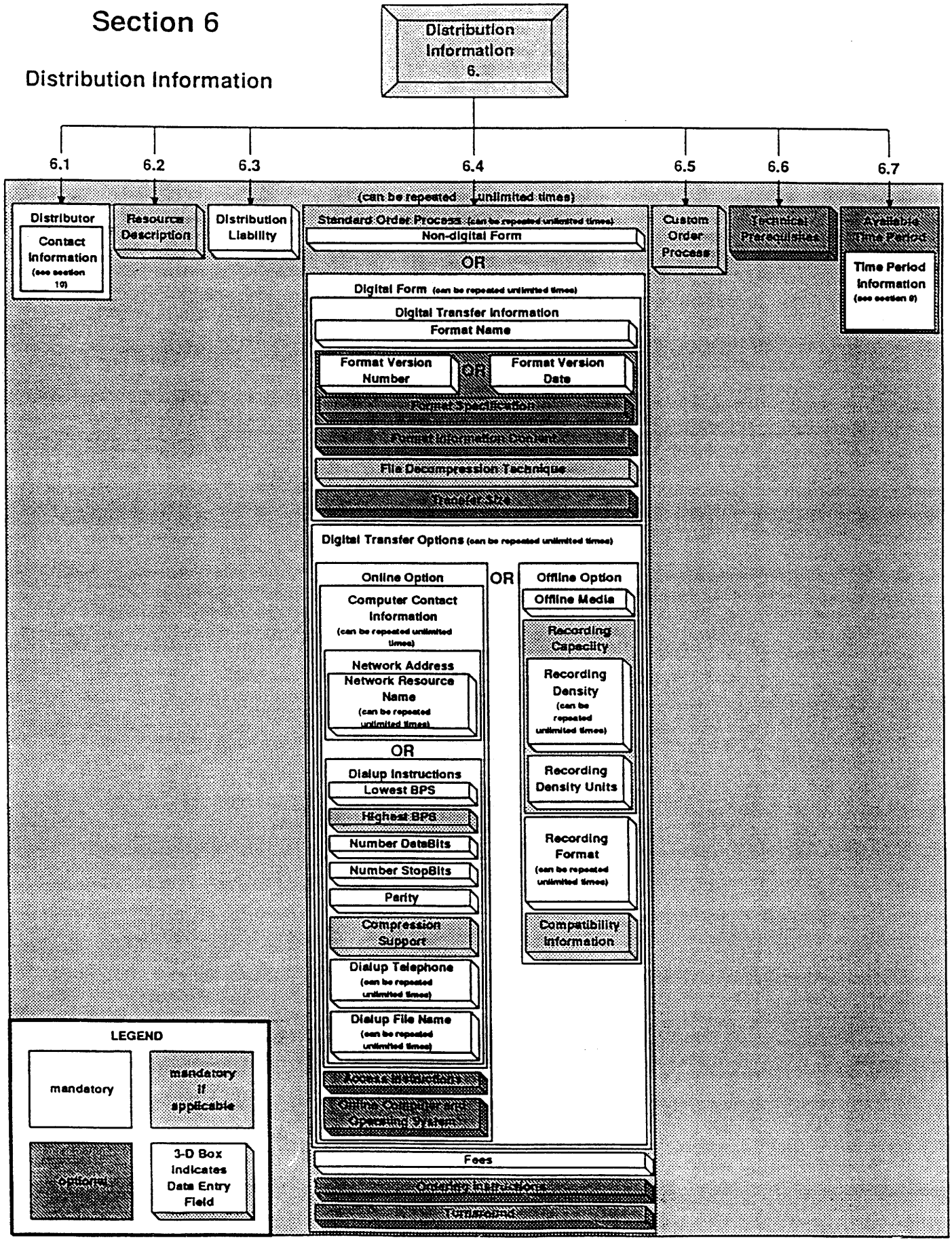
Type: text
Domain: free text

5.2.2 Entity and Attribute Detail Citation -- reference to the complete description of the entity types, attributes, and attribute values for the data set.

Type: text
Domain: free text

Section 6

Distribution Information



6 Distribution Information -- information about the distributor of and options for obtaining the data set.
Type: compound

6.1 Distributor -- the party from whom the data set may be obtained.
Type: compound

FAQ: Where are the data elements for the "Distributor" element?

Because the elements are required by another section, the elements were grouped in Section 10.

6.2 Resource Description -- the identifier by which the distributor knows the data set.
Type: text
Domain: free text

FAQ: What is an example of a Resource Description?

A Resource Description is a label by which a data set can be requested from a distributor. A catalog number is an example of a Resource Description.

6.3 Distribution Liability -- statement of the liability assumed by the distributor.
Type: text
Domain: free text

6.4 Standard Order Process -- the common ways in which the data set may be obtained or received, and related instructions and fee information.
Type: compound

6.4.1 Non-digital Form -- the description of options for obtaining the data set on non-computer-compatible media.
Type: text
Domain: free text

6.4.2 Digital Form -- the description of options for obtaining the data set on computer-compatible media.
Type: compound

6.4.2.1 Digital Transfer Information - description of the form of the data to be distributed.
Type: compound

6.4.2.1.1

Format Name -- the name of the data transfer format.
Type: text
Domain: domain values from the table below; free text

Domain Value	Definition
"ARCE"	ARC/INFO Export format
"ARCG"	ARC/INFO Generate format
"ASCII"	ASCII file, formatted for text attributes, declared format
"BIL"	Imagery, band interleaved by line
"BIP"	Imagery, band interleaved by pixel
"BSQ"	Imagery, band interleaved sequential
"CDF"	Common Data Format
"CFF"	Cartographic Feature File (U.S. Forest Service)
"COORD"	User-created coordinate file, declared format
"DEM"	Digital Elevation Model format (U.S. Geological Survey)
"DFAD"	Digital Feature Analysis Data (Defense Mapping Agency)
"DGN"	Microstation format (Intergraph Corporation)
"DIGEST"	Digital Geographic Information Exchange Standard
"DLG"	Digital Line Graph (U.S. Geological Survey)
"DTED"	Digital Terrain Elevation Data (MIL-D-89020)
"DWG"	AutoCAD Drawing format
"DX90"	Data Exchange '90
"DXF"	AutoCAD Drawing Exchange Format
"ERDAS"	ERDAS image files (ERDAS Corporation)
"GRASS"	Geographic Resources Analysis Support System
"HDF"	Hierarchical Data Format
"IGDS"	Interactive Graphic Design System format (Intergraph Corporation)
"IGES"	Initial Graphics Exchange Standard
"MOSS"	Multiple Overlay Statistical System export file
"netCDF"	network Common Data Format
"NITF"	National Imagery Transfer Format
"RPF"	Raster Product Format (Defense Mapping Agency)
"RVC"	Raster Vector Converted format (MicroImages)
"RVF"	Raster Vector Format (MicroImages)
"SDTS"	Spatial Data Transfer Standard (Federal Information Processing Standard 173)
"SIF"	Standard Interchange Format (DOD Project 2851)
"SLF"	Standard Linear Format (Defense Mapping Agency)

"TIFF"	Tagged Image File Format
"TGRLN"	Topologically Integrated Geographic Encoding and Referencing (TIGER) Line format (Bureau of the Census)
"VPF"	Vector Product Format (Defense Mapping Agency)

FAQ: The format I use isn't included in the list! What should I do?

As described in the domain, users can add items to the list (the domain allows "free text"). Please use a character string different from those in the list. Consider using the full name of the format.

6.4.2.1.2 Format Version Number -- version number of the format.
Type: text
Domain: free text

6.4.2.1.3 Format Version Date -- date of the version of the format.
Type: date
Domain: free date

6.4.2.1.4 Format Specification -- name of a subset, profile, or product specification of the format.
Type: text
Domain: free text

6.4.2.1.5 Format Information Content -- description of the content of the data encoded in a format.
Type: text
Domain: free text

FAQ: What is the purpose of the Format Information Content element?

In developing the metadata standards, some reviewers noted that their data are distributed in a series of files, each of which has a different format and information content. For example, the spatial data might be distributed in format x, and the attribute data in format y. The reviewers asked for the ability to describe which data are encoded in which format. The Format Information Content element provides this capability:

Digital Form
Digital Transfer Information
Format Name: x
Format Information Content: spatial objects with unique identifiers and coordinate data
Digital Transfer Information
Format Name: y
Format Information Content: attribute data and the unique identifiers of the spatial objects. The identifiers are used to link the spatial objects and attributes.

6.4.2.1.6 File Decompression Technique -- recommendations of algorithms or processes (including means of obtaining these algorithms or processes) that can be applied to read or expand data sets to which data compression techniques have been applied.
Type: text
Domain: "No compression applied" free text

6.4.2.1.7 Transfer Size -- the size, or estimated size, of the transferred data set in megabytes.
Type: real
Domain: Transfer Size > 0.0

6.4.2.2 Digital Transfer Option -- the means and media by which a data set is obtained from the distributor.
Type: compound

6.4.2.2.1 Online Option -- information required to directly obtain the data set electronically.
Type: compound

6.4.2.2.1.1 Computer Contact Information -- instructions for establishing communications with the distribution computer.
Type: compound

6.4.2.2.1.1.1 Network Address -- the electronic address from which the data set can be obtained from the distribution computer.
Type: compound

6.4.2.2.1.1.1.1 Network Resource Name -- the name of the file or service from which the data set can be obtained.
Type: text
Domain: free text

FAQ: What is a Network Resource Name?

The name of the data set on the network. When appropriate, Uniform Resource Locators (URL) should be provided.

FAQ: What is the difference between the Network Resource Name and the Online Linkage (8.10) data element?

The Network Resource Name is the name of the file or service from which the data set can be obtained *from a distributor*. Different distributors that provide online access to a data set porbably would do so from different sites. The Online Linkage is the name of the file or service maintained by the originator (when used with "Citation" (1.1)) or the name of the file or service from which the data set was obtained (when used with "Source Citation" (2.5.5.1)).

6.4.2.2.1.1.2 Dialup Instructions -- information required to access the distribution computer remotely through telephone lines.
Type: compound

6.4.2.2.1.1.2.1 Lowest BPS -- lowest or only speed for the connection's communication, expressed in bits per second.
Type: integer
Domain: Lowest BPS >= 110

6.4.2.2.1.1.2.2 Highest BPS -- highest speed for the connection's communication, expressed in bits per second. Used in cases when a range of rates are provided.
Type: integer
Domain: Highest BPS > Lowest BPS

6.4.2.2.1.1.2.3 Number DataBits -- number of data bits in each character exchanged in the communication.
Type: integer
Domain: 7 <= Number DataBits <= 8

6.4.2.2.1.1.2.4 Number StopBits -- number of stop bits in each character exchanged in the communication.
Type: integer
Domain: 1 <= Number StopBits <= 2

6.4.2.2.1.1.2.5 Parity -- parity error checking used in each character exchanged in the communication.
Type: text
Domain: "None" "Odd" "Even" "Mark" "Space"

6.4.2.2.1.1.2.6 Compression Support -- data compression available through the modem service to speed data transfer.
Type: text
Domain: "V.32" "V.32bis" "V.42" "V.42bis" free text

6.4.2.2.1.1.2.7 Dialup Telephone -- the telephone number of the distribution computer.
Type: text
Domain: free text

6.4.2.2.1.1.2.8 Dialup File Name -- the name of a file containing the data set on the distribution computer.
Type: text
Domain: free text

6.4.2.2.1.2 Access Instructions -- instructions on the steps required to access the data set.
Type: text
Domain: free text

6.4.2.2.1.3 Online Computer and Operating System -- the brand of distribution computer and its operating system.
Type: text
Domain: free text

6.4.2.2.2 Offline Option -- information about media-specific options for receiving the data set.
Type: compound

6.4.2.2.2.1 Offline Media -- name of the media on which the data set can be received.

Type: text
Domain: "CD-ROM" "3-1/2 inch floppy disk" "5-1/4 inch floppy disk" "9-track tape" "4 mm cartridge tape" "8 mm cartridge tape" "1/4-inch cartridge tape" free text

6.4.2.2.2.2 Recording Capacity -- the density of information to which data are written. Used in cases where different recording capacities are possible.

Type: compound

6.4.2.2.2.2.1 Recording Density -- the density in which the data set can be recorded.

Type: real
Domain: Recording Density > 0.0

6.4.2.2.2.2.2 Recording Density Units -- the units of measure for the recording density.

Type: text
Domain: free text

6.4.2.2.2.3 Recording Format -- the options available or method used to write the data set to the medium.

Type: text
Domain: "cpio" "tar" "High Sierra" "ISO 9660" "ISO 9660 with Rock Ridge extensions" "ISO 9660 with Apple HFS extensions" free text

6.4.2.2.2.4 Compatibility Information --- description of other limitations or requirements for using the medium.

Type: text
Domain: free text

6.4.3 Fees -- the fees and terms for retrieving the data set.

Type: text
Domain: free text

6.4.4 Ordering Instructions -- general instructions and advice about, and special terms and services provided for, the data set by the distributor.

Type: text
Domain: free text

6.4.5 Turnaround -- typical turnaround time for the filling of an order.

Type: text
Domain: free text

6.5 Custom Order Process -- description of custom distribution services available, and the terms and conditions for obtaining these services.

Type: text
Domain: free text

6.6 Technical Prerequisites -- description of any technical capabilities that the consumer must have to use the data set in the form(s) provided by the distributor.

Type: text
Domain: free text

6.7 Available Time Period -- the time period when the data set will be available from the distributor.

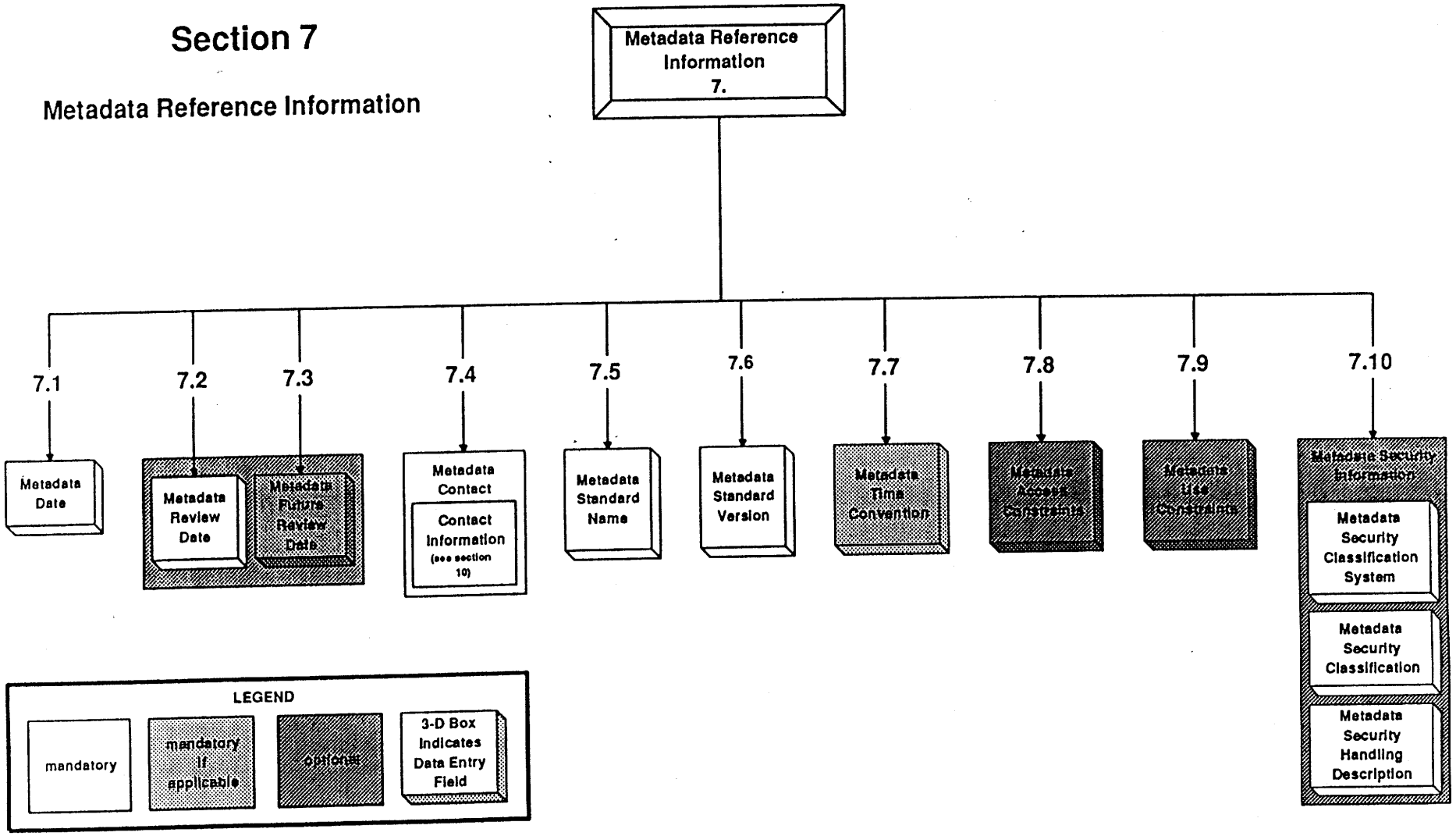
Type: compound

FAQ: Where are the data elements for the "Available Time Period" element?

Because the elements are required by another section, the elements were grouped in Section 9.

Section 7

Metadata Reference Information



7 Metadata Reference Information -- information on the currentness of the metadata information, and the responsible party.
Type: compound

7.1 Metadata Date -- the date that the metadata were created or last updated.
Type: date
Domain: free date

7.2 Metadata Review Date -- the date of the latest review of the metadata entry.
Type: date
Domain: free date; Metadata Review Date later than Metadata Date

7.3 Metadata Future Review Date -- the date by which the metadata entry should be reviewed.
Type: date
Domain: free date; Metadata Future Review Date later than Metadata Review Date

7.4 Metadata Contact -- the party responsible for the metadata information.
Type: compound

FAQ: Where are the data elements for the "Metadata Contact" element?

Because the elements are required by another section, the elements were grouped in Section 10.

FAQ: Who should be the metadata contact?

The metadata contact should be the organization or person that can answer questions about the metadata or can receive reports about errors in the metadata.

7.5 Metadata Standard Name -- the name of the metadata standard used to document the data set.
Type: text
Domain: "FGDC Content Standards for Digital Geospatial Metadata" free text

7.6 Metadata Standard Version -- identification of the version of the metadata standard used to document the data set.
Type: text
Domain: free text

7.7 Metadata Time Convention -- form used to convey time of day information in the metadata entry. Used if time of day information is included in the metadata for a data set.
Type: text
Domain: "local time" "local time with time differential factor" "universal time"

7.8 Metadata Access Constraints -- restrictions and legal prerequisites for accessing the metadata. These include any access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the metadata.
Type: text
Domain: free text

7.9 Metadata Use Constraints -- restrictions and legal prerequisites for using the metadata after access is granted. These include any access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the metadata.

Type: text
Domain: free text

CORRECTION: Metadata Use Constraints -- restrictions and legal prerequisites for using the metadata after access is granted. These include any ~~accessuse~~ constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on ~~obtaining~~using the metadata.

7.10 Metadata Security Information -- handling restrictions imposed on the metadata because of national security, privacy, or other concerns.

Type: compound

7.10.1 Metadata Security Classification System -- name of the classification system for the metadata.

Type: text
Domain: free text

7.10.2 Metadata Security Classification -- name of the handling restrictions on the metadata.

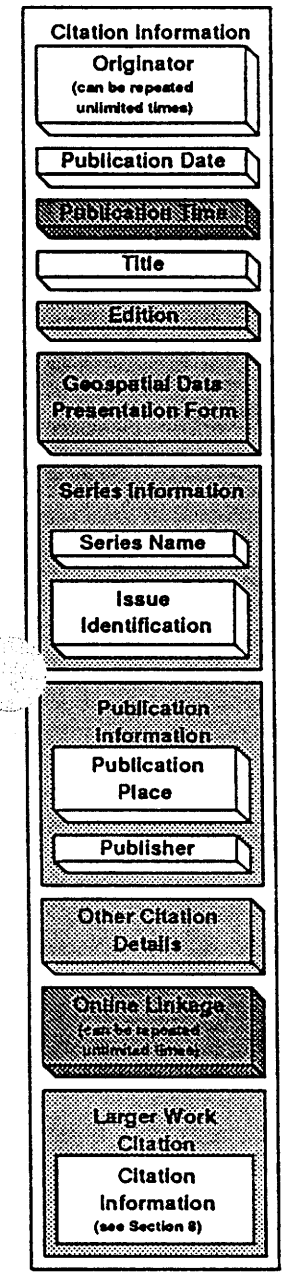
Type: text
Domain: "Top secret" "Secret" "Confidential" "Restricted" "Unclassified" "Sensitive" free text

7.10.3 Metadata Security Handling Description -- additional information about the restrictions on handling the metadata.

Type: text
Domain: free text

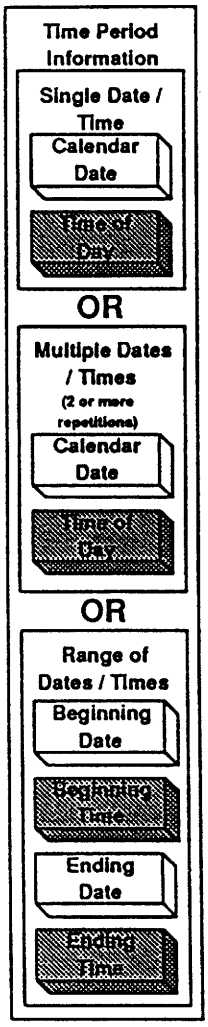
Section 8

Citation Information



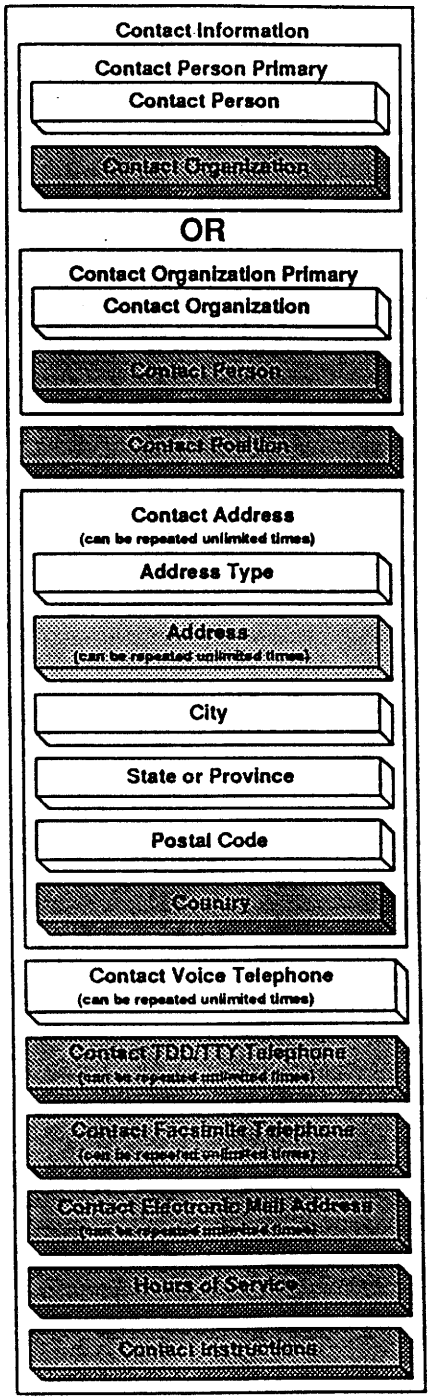
Section 9

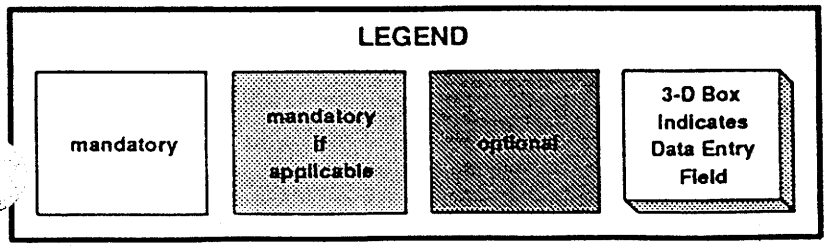
Time Period Information



Section 10

Contact Information





8 Citation Information -- the recommended reference to be used for the data set. *(Note: this section provides a means of stating the citation of a data set, and is used by other sections of the metadata standard. This section is never used alone.)*
Type: compound

8.1 Originator -- the name of an organization or individual that developed the data set. If the name of editors or compilers are provided, the name must be followed by "(ed.)" or "(comp.)" respectively.
Type: text
Domain: "Unknown" free text

8.2 Publication Date -- the date when the data set is published or otherwise made available for release.
Type: date
Domain: "Unknown" "Unpublished material" free date

8.3 Publication Time -- the time of day when the data set is published or otherwise made available for release.
Type: time
Domain: "Unknown" free time

8.4 Title -- the name by which the data set is known.
Type: text
Domain: free text

8.5 Edition -- the version of the title.
Type: text
Domain: free text

8.6 Geospatial Data Presentation Form -- the mode in which the geospatial data is represented.
Type: text
Domain: (the domain is from pp. 88-91 *in* Anglo-American Committee on Cataloguing of Cartographic Materials, 1982, Cartographic materials: A manual of interpretation for AACR2: Chicago, American Library Association):
"atlas" "diagram" "globe" "map" "model" "profile"
"remote-sensing image" "section" "view"

FAQ: When is the Geospatial Data Presentation Form element used?

The Geospatial Data Presentation Form is to identify the (usually "cartographic") style (if any) with which the originator intended that the information be presented to the user. For example, a paper map would have a "map" geospatial presentation form. A scanned image of a map also has "map" as the geospatial presentation form. Vector data digitized from a map would not have a presentation form if no particular method of presenting the data to users was intended by the originator.

FAQ: What are some examples for the values in the domain of the Geospatial Data Presentation element?

Most of the examples are taken from *Cartographic Materials: A Manual of Interpretation for AACR2* (Anglo-American Committee on Cataloguing of Cartographic Materials 1982):

Domain Value	Examples
atlas	boundary atlas; geological atlas; historical atlas; plat book; road atlas; statistical atlas (collections of maps, geospatial illustrations, and other information)
diagram	block diagram; fence diagram; reliability diagram; triangulation diagram (illustrations of specific relationships)
globe	terrestrial globe; celestial globe (physical models of celestial bodies)
map	aeronautical chart; base map; cadastral map; chart; index map; orthophotomap; plan; plat; relief map; thematic map
model	relief model (other physical models of geospatial data)
profile	(an illustration showing a vertical section of the ground)
remote-sensing image	aerial photograph; photomosaic; infrared scanning image; multispectral scanning image; Sidelooking Airborne Radar (SLAR) image; SPOT image
section	geologic section
view	panorama; perspective view

8.7 Series Information -- the identification of the series publication of which the data set is a part.
Type: compound

8.7.1 Series Name -- the name of the series publication of which the data set is a part.
Type: text
Domain: free text

8.7.2 Issue Identification -- information identifying the issue of the series publication of which the data set is a part.
Type: text
Domain: free text

FAQ: What is a series?

A series is a succession of volumes or issues published with related subjects or authors, similar format and price, or continuous numbering.

8.8 Publication Information -- publication details for published data sets.
Type: compound

8.8.1 Publication Place -- the name of the city (and state or province, and country, if needed to identify the city) where the data set was published or released.
Type: text
Domain: free text

8.8.2 Publisher -- the name of the individual or organization that published the data set.

Type: text
Domain: free text

8.9 Other Citation Details -- other information required to complete the citation.

Type: text
Domain: free text

8.10 Online Linkage -- the name of an online computer resource that contains the data set. Entries should follow the Uniform Resource Locator convention of the Internet.

Type: text
Domain: free text

8.11 Larger Work Citation -- the information identifying a larger work in which the data set is included.

Type: compound

FAQ: When is the Larger Work Citation element used?

Sometimes an item is published as part of a larger volume. For example, a map or article originated by John Jones might be published in a book compiled by Charlene Smith. The citation for the map or article item would include Jones as the originator, the date of the item, the title of the item, etc.

To obtain a copy of the item, however, one would need to find the published book. The citation of the book would include Smith as the compiler, the publication date of the book, the title of the book, etc. This information about the book in which the item was published is the Larger Work Citation.

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9 Time Period Information -- information about the date and time of an event. *(Note: this section provides a means of stating temporal information, and is used by other sections of the metadata standard. This section is never used alone.)*
Type: compound

9.1 Single Date/Time -- means of encoding a single date and time.
Type: compound

9.1.1 Calendar Date -- the year (and optionally month, or month and day).
Type: date
Domain: "Unknown" free date

9.1.2 Time of Day -- the hour (and optionally minute, or minute and second) of the day.
Type: time
Domain: "Unknown" free time

9.2 Multiple Dates/Times -- means of encoding multiple individual dates and times.
Type: compound

9.3 Range of Dates/Times -- means of encoding a range of dates and times.
Type: compound

9.3.1 Beginning Date -- the first year (and optionally month, or month and day) of the event.
Type: date
Domain: "Unknown" free date

9.3.2 Beginning Time -- the first hour (and optionally minute, or minute and second) of the day for the event.
Type: time
Domain: "Unknown" free time

9.3.3 Ending Date -- the last year (and optionally month, or month and day) for the event.
Type: date
Domain: "Unknown" "Present" free date

9.3.4 Ending Time -- the last hour (and optionally minute, or minute and second) of the day for the event.
Type: time
Domain: "Unknown" free time

10 Contact Information -- Identity of, and means to communicate with, person(s) and organization(s) associated with the data set. *(Note: this section provides a means of identifying individuals and organizations, and is used by other sections of the metadata standard. This section is never used alone.)*
Type: compound

10.1 Contact Person Primary -- the person, and the affiliation of the person, associated with the data set. Used in cases where the association of the person to the data set is more significant than the association of the organization to the data set.
Type: compound

FAQ: What is the difference between the Contact Person Primary and Contact Organization Primary elements?

In developing the metadata standard, reviewers asked for a way to distinguish cases in which the primary contact was a person, whose organizational affiliation was incidental, versus those in which the primary contact was an organization, whose personnel were incidental. The Contact Person Primary element is for the first case; the Contact Organization Primary is for the second. Both are comprised of the same elements; the difference is which elements are mandatory and which are optional.

10.1.1 Contact Person -- the name of the individual to which the contact type applies.
Type: text
Domain: free text

10.1.2 Contact Organization -- the name of the organization to which the contact type applies.
Type: text
Domain: free text

10.2 Contact Organization Primary -- the organization, and the member of the organization, associated with the data set. Used in cases where the association of the organization to the data set is more significant than the association of the person to the data set.
Type: compound

10.3 Contact Position -- the title of individual.
Type: text
Domain: free text

10.4 Contact Address -- the address for the organization or individual.
Type: compound

10.4.1 Address Type -- the information provided by the address.
Type: text
Domain: "mailing address" "physical address" "mailing and physical address"

10.4.2 Address -- an address line for the address.
Type: text
Domain: free text

10.4.3 City -- the city of the address.
Type: text
Domain: free text

10.4.4 State or Province -- the state or province of the address.
Type: text
Domain: free text

10.4.5 Postal Code -- the ZIP or other postal code of the address.
Type: text
Domain: free text

10.4.6 Country -- the country of the address.
Type: text
Domain: free text

10.5 Contact Voice Telephone -- the telephone number by which individuals can speak to the organization or individual.
Type: text
Domain: free text

10.6 Contact TDD/TTY Telephone -- the telephone number by which hearing-impaired individuals can contact the organization or individual.
Type: text
Domain: free text

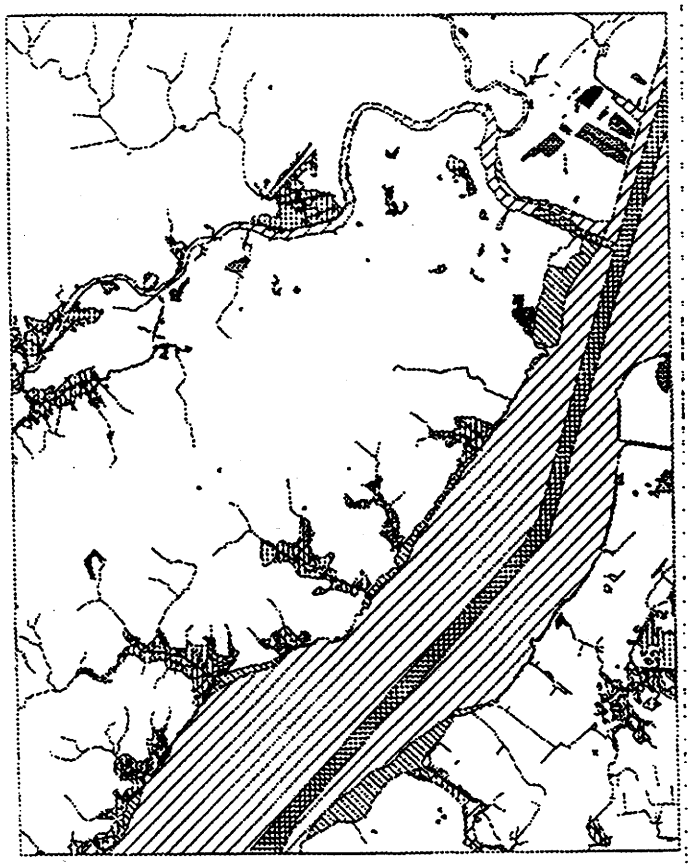
10.7 Contact Facsimile Telephone -- the telephone number of a facsimile machine of the organization or individual.
Type: text
Domain: free text

10.8 Contact Electronic Mail Address -- the address of the electronic mailbox of the organization or individual.
Type: text
Domain: free text

10.9 Hours of Service -- time period when individuals can speak to the organization or individual.
Type: text
Domain: free text

10.10 Contact Instructions -- supplemental instructions on how or when to contact the individual or organization.
Type: text
Domain: free text

Data Described by the Example: U.S. Geological Survey Digital Line Graph file



The map is a reduced-scale plot of the hydrography overlay from the SDTS-encoded Digital Line Graph data set for Wilmington South, Delaware-New Jersey. The data were digitized from a 1:24,000-scale topographic map quadrangle.

Notes:

This example makes use of "blanket" statements that describe all activities that might have happened to the data. This approach was needed because the data were developed several years ago, and the processes applied to these data are not known.

How could the example be changed? Some improvements might include:

Reporting only those processes applied to these data.

Providing several 'processing steps' to describe the development of the data set.

Providing more optional metadata elements.

This example is provided only to illustrate metadata that are 'compliant' with the standard (mandatory and applicable 'mandatory if applicable' elements are provided). It is not meant to provide guidance on formatting reports or details of information to be provided.

Identification Information

Citation
- Originator: U.S. Geological Survey
- Publication Date: 1990
- Title: Wilmington South
- Publication Information
  - Publication Place: Reston, Virginia
  - Publisher: U.S. Geological Survey

Description
- Abstract: This data set is a digital line graph (DLG), or line map information. DLG's contain selected base categories of geographic features, and characteristics of these features, in digital form. The information was collected by digitizing maps, or by compiling new information or revising digitized maps using remotely sensed and other information.

  The data structure for DLG's is based on graph theory, in which a two-dimensional diagram is expressed as a set of spatial objects in a manner that explicitly expresses logical relationships. Applied to a map, this concept is used to encode the spatial relationships between the objects, including such concepts as adjacency and connectivity between objects. A topologically structured data file can support graphic applications, as well as computations and analyses involving the spatial objects and their spatial relationships.
- Purpose: DLG's depict information about geographic features on or near the surface of the Earth, terrain, and political and administrative units. These data were collected as part of the National Mapping Program.

Time Period of Content
- Single Date/Time
  - Calendar Date: 1987
- Currentness Reference: publication date

Status
- Progress: Complete
- Maintenance and Update Frequency: Irregular

Spatial Domain
- Bounding Coordinates
  - West Bounding Coordinate: -75.625
  - East Bounding Coordinate: -75.5
  - North Bounding Coordinate: 39.75
  - South Bounding Coordinate: 39.625

Keywords
- Theme
  - Theme Keyword Thesaurus: None
  - Theme Keyword: digital line graph
  - Theme Keyword: DLG
  - Theme Keyword: hydrography
  - Theme Keyword: standing water
  - Theme Keyword: flowing water
  - Theme Keyword: rocks and reefs
  - Theme Keyword: wetlands
  - Theme Keyword: navigable
- Place
  - Place Keyword Thesaurus: None
  - Place Keyword: Delaware
  - Place Keyword: New Jersey

Access Constraints: none

Use Constraints: none. Acknowledgement of the U.S. Geological Survey would be appreciated in products derived from these data.

Data Quality Information

Attribute Accuracy

Attribute Accuracy Report: Attribute accuracy is tested by manual comparison of the source with hard copy plots and/or symbolized display of the digital line graph on an interactive computer graphic system; selected attributes that cannot be visually verified on plots or on screen, are interactively queried and verified on screen. In addition, PROSYS software (USGS) tests the attributes against a master set of valid attributes for the hydrography category; it also checks for selected valid attribute combinations, and for valid attributes relative to topology and dimensionality. All attribute data conform to the attribute codes current as of the date of digitizing as described in Part 3: Attribute Codes in "Standards for Digital Line Graphs", National Mapping Program Technical Instructions, USGS. Accuracy is estimated to be 98.5 percent. Certain attributes and/or entities, e.g. BEST_ESTIMATE, convey data quality information; for details refer to the SDTS Data Dictionary Modules.

Logical Consistency Report: Certain node/geometry and topology (GT)-polygon/chain relationships are collected or generated to satisfy topological requirements. (The GT-polygon corresponds to the DLG area). Some of these requirements include: chains must begin and end at nodes, chains must connect to each other at nodes, chains do not extend through nodes, left and right GT-polygons are defined for each chain element and are consistent throughout the transfer, and the chains representing the limits of the file (neatline) are free of gaps. The tests of logical consistency are performed by PROSYS (USGS) program. The neatline is generated by connecting the four corners of the digital file, as established during initialization of the digital file. All data outside the enclosed region are ignored and all data crossing these geographically straight lines are clipped at the neatline. (Exception: Early files may have area pointings outside of the neatline, for those areas which were too small to place the area pointing within, given software constraints at the time of collection.) Data within a specified tolerance of the neatline are snapped to the neatline. Neatline straightening aligns the digitized edges of the digital data with the generated neatline, that is, with the longitude/latitude lines in geographic coordinates. All internal polygons are tested for closure; early files were checked using plots, later files were checked using PROSYS. Certain attributes and/or entities, e.g. closure line, convey data quality information; for details refer to the SDTS Data Dictionary Modules. Throughout the transfer, null values are denoted by adjacent delimiters. When a subfield, either user-defined in Attribute Primary and Attribute Secondary Module records, or in other SDTS Module records, is implemented as fixed-length, the following null scheme is used: (a) when information to be encoded in the subfield is known to be not applicable (undefined, not relevant), then the subfield is valued by a string of spaces; and (b) when the information to be encoded is relevant but unknown (or missing), then the subfield is valued by a string of question marks "?".

Completeness Report: Data completeness for unrevised digital files reflects the content of the source graphic. Features may have been eliminated or generalized on the source graphic, due to scale and legibility constraints. If the digital data underwent limited update revision, then the content will include only (1) those features that are photoidentifiable on monoscopic source, supplemented with limited ancillary source, and (2) those features that can not be reliably photoidentified but that are not considered particularly prone to change. If the digital data underwent standard update revision, then the data meets NMD standards for feature content. For information on collection/inclusion criteria, see NMD Product Standards for DLG and Quadrangle Maps, published as the Technical Instructions.

Positional Accuracy

Horizontal Positional Accuracy

Horizontal Positional Accuracy Report: Accuracy of these digital data (if not digitally revised), is based upon the use of source graphics which are compiled to meet National Map Accuracy Standards. NMAS horizontal accuracy requires that at least 90 percent of points tested are within 0.02 inches of the true position. The digital data are estimated to contain a horizontal positional error of less than or equal to 0.003 inches standard error in the two component directions relative to the source graphic. NMAS vertical accuracy requires that at least 90% of well defined points tested be within one half contour interval of the correct value. Comparison to the graphic source is used as control to assess digital positional accuracy. Cartographic offsets may be present on the graphic source, due to scale and legibility constraints. Digital map elements require edge alignment between data sets. Data along each quadrangle edge are tested against the data set for the adjacent quadrangle; tests check for positional accuracy between data sets within a 0.02 inches tolerance. Features with like dimensionality, and with or without like attribution, that are within

the tolerance are adjusted by moving the feature equally in both data sets. Features outside the tolerance are not moved. All disconnects are identified by edge matching flags that document the mismatch. These edge matching flags are located in the SDTS AHDR Attribute Primary Module in subfields EDGEWS, EDGEWR, EDGENS, EDGENR, EDGEES, EDGEER, EDGESS, and EDGESR. If the digital data underwent limited update revision, then the data meet at least the class 2 positional accuracy specification in the draft "United States National Cartographic Standards for Spatial Accuracy". If the digital data underwent standard update revision, then the data meet the class 1 positional accuracy specifications. Certain attributes and/or entities, e.g. BEST_ESTIMATE, convey data accuracy information; for details refer to the SDTS Data Dictionary Modules.

Lineage

Source Information

Source Citation

Originator: U.S. Geological Survey

Publication Date: 1987

Title: Wilmington South

Geospatial Data Presentation Form: map

Publication Information

Publication Place: Reston, Virginia

Publisher: U.S. Geological Survey

Source Scale Denominator: 24000

Type of Source Media: stable-base material

Source Time Period of Content

Single Date/Time

Calendar Date: 1987

Source Currentness Reference: publication date

Source Citation Abbreviation: USGS1

Source Contribution: spatial and attribute information

Process Step

Process Description: This Digital Line Graph, (if not digitally revised), was digitized from a standard U.S. Geological Survey (USGS) quadrangle (name, date and scale of quadrangle indicated in SDTS Identification Module), and was archived in the National Digital Cartographic Data Base (NDCDB). Quadrangles were referenced to one of the following horizontal datums: the North American Datum of 1927 (NAD 27), NAD 83, Puerto Rico Datum 1940 adjustment, Old Hawaiian Datum, 1963 Guam Datum, or various local datums. Quadrangles were referenced to one of the following vertical datums: National Geodetic Vertical Datum of 1929, the International Great Lakes Datum of 1955, or mean sea level. Datum information is contained in the SDTS External Spatial Reference Module. The digital data were produced by either scanning or manually digitizing a stable-based copy of the graphic materials. The scanning process captured the digital data at a scanning resolution of at least 0.001 inches; the resulting raster data were vectorized and then attributed on an interactive editing station. Manual digitizing used a digitizing table to capture the digital data at a resolution of at least 0.001 inches; attribution was performed either as the data were digitized, or on an interactive edit station after the digitizing was completed. The determination of the DLG production method was based on various criteria, including feature density, feature symbology, and availability of production systems. Four control points corresponding to the four corners of the quadrangle were used for registration during data collection. An eight parameter projective transformation was performed on the coordinates used in the data collection and editing systems to register the digital data to the internal coordinates used in the USGS Production System (PROSYS), and a four parameter linear transformation was performed from the PROSYS internal coordinates to Universal Transverse Mercator (UTM) grid coordinates. These four control points are stored as point objects in the "NP" Point-Node Module, and their latitude and longitude are stored in the SDTS AHDR Attribute Primary Module. The DLG data were checked for position by comparing plots of the digital data to the graphic source. DLG data classification was checked by comparing plots of the digital data to the graphic source and/or using PROSYS verification software. The revision status and category of revision of this digital file (limited update or standard update) is indicated in the SDTS AHDR Attribute Primary Module. Limited update revision uses monoscopic imagery and limited ancillary source, with no

field verification; standard update revision uses stereoscopic imagery as needed, in addition to monoscopic imagery and field verification. Certain attributes and/or entities, e.g. PHOTOREVISED, convey data quality information; for details refer to the SDTS Data Dictionary Modules. The DLG outside area is converted to the SDTS Universe Polygon object. The Universe Polygon can be identified by the object representation code "PW"; the Universe Polygon does not reference any attributes. DLG areas coded as "void area" are converted to the SDTS Void Polygon object. Void Polygons can be identified by the object representation code of "PX"; Void Polygons do not reference any attributes. Information on the PROSYS program, the attribute standard, and the NDCDB is available from USGS.

Source Used Citation Abbreviation: USGS1

Process Date: 1990

Spatial Data Organization Information

Direct Spatial Reference Method: Vector

Spatial Reference Information

Horizontal Coordinate System Definition
- Planar
  - Grid Coordinate System
    - Grid Coordinate System Name: Universal Transverse Mercator
      - Universal Transverse Mercator
        - UTM Zone Number: 18
        - Transverse Mercator
          - Scale Factor at Central Meridian: 0.9996
          - Longitude of Central Meridian: -75.0
          - Latitude of Projection Origin: 0.0
          - False Easting: 500000.
          - False Northing: 0.0
    - Planar Coordinate Information
      - Planar Coordinate Encoding Method: coordinate pair
      - Coordinate Representation
        - Abscissa Resolution: 0.61
        - Ordinate Resolution: 0.61
      - Planar Distance Units: meters
  - Geodetic Model
    - Horizontal Datum Name: North American Datum of 1927
    - Ellipsoid Name: Clarke 1866
    - Semi-major Axis: 6378206.4
    - Denominator of Flattening Ratio: 294.98

Entity and Attribute Information

Overview Description

Entity and Attribute Overview: The DLG-3 scheme assigns any number of attribute codes to spatial objects. Some DLG-3 attribute codes identify real world entities, other codes represent attributes of those entities. Hydrography (major code: 050) contains information about streams, bodies of water, wetlands, coastal waters, and water used for transportation. Vegetative features, which are associated with wetlands or submerged areas, are included, as are manmade hydrologic features. The direction of the water flow is captured. This information is not collected for specific hydrologic studies or for navigational assistance. The SDTS model of spatial phenomena describes the real world as consisting of entities which are characterized by attributes which have attribute values. DLG-3 does not explicitly use this entity-attribute-attribute value model. The SDTS implementation of DLG-3 identifies which DLG-3 attribute codes identify entities and which identify attributes of those entities.

Entity and Attribute Detail Citation: The USGS document Standards for Digital Line Graphs, Part 3: Attribute Codes, contains a detailed description of each attribute code and a reference to the associated map symbols on the map source materials. The document is available as: ftp://nmdpow9.er.usgs.gov./public/stdlg/stpt3-HY.asc. The DLG-3 SDTS Transfer Description is available from ftp://sdts.er.usgs.gov/sdts/datasets/tvp/dlg3/dlg3.wp.

Distribution Information

Distributor
- Contact Organization Primary
  - Contact Organization: Earth Science Information Center, U.S. Geological Survey
- Contact Address
  - Address Type: mailing address
  - Address: 507 National Center
  - City: Reston
  - State or Province: Virginia
  - Postal Code: 20922
- Contact Voice Telephone: 1 800 USA MAPS
- Contact Voice Telephone: 1 703 648 6045

Distribution Liability: Although these data have been processed successfully on a computer system at the U.S. Geological Survey, no warranty expressed or implied is made by the USGS regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. The Geological Survey will warrant the delivery of this product in computer-readable format, and will offer appropriate adjustment of credit when the product is determined unreadable by correctly adjusted computer input peripherals, or when the physical medium is delivered in damaged condition. Requests for adjustment of credit must be made within 90 days from the date of this shipment from the ordering site.

Standard Order Process
- Digital Form
  - Digital Transfer Information
    - Format Name: SDTS
    - Format Version Date: 1992
    - Format Specification: Topological Vector Profile
  - Digital Transfer Option
    - Online Option
      - Computer Contact Information
        - Network Address
          - Network Resource Name: ftp://sdts.er.usgs.gov/pub/sdts/datasets/tvp/dlg3/WilmingtonHY/
    - Offline Option
      - Offline Media: 9-track tape
      - Recording Capacity
        - Recording Density: 1600
        - Recording Density: 6250
        - Recording Density Units: characters per inch
      - Recording Format: ASCII; available unlabelled or with ANSI-standard labels; available block sizes are 2048 and 30720 characters.
- Digital Form
  - Digital Transfer Information
    - Format Name: DLG
    - Format Version Date: 1988
    - Format Specification: Optional
  - Digital Transfer Option
    - Offline Option
      - Offline Media: 9-track tape
      - Recording Capacity
        - Recording Density: 1600
        - Recording Density: 6250
        - Recording Density Units: characters per inch
      - Recording Format: ASCII; available unlabelled or with ANSI-standard labels; available block sizes are multiples of 80 characters ranging from 8000 to 32720 characters.
- Digital Form
  - Digital Transfer Information
    - Format Name: DLG

Format Version Date: 1988
Format Specification: Standard
Digital Transfer Option
Offline Option
Offline Media: 9-track tape
Recording Capacity
Recording Density: 1600
Recording Density: 6250
Recording Density Units: characters per inch
Recording Format: ASCII; available unlabelled or with ANSI-standard labels; available block sizes are multiples of 144 characters ranging from 8064 to 32688 characters.
Fees: The online copy of the data set may be accessed without charge. For delivery on magnetic tape, the charge for one data set is $40; for 2 data sets is $60, for 3 data sets is $80, for 4 data sets is $100, and for 5 data sets is $120. When ordered in groups of 6 or more data sets, the charge is $7 per data set plus a $90 base fee.

Metadata Reference Information

Metadata Date: 19940610
Metadata Contact
Contact Organization Primary
Contact Organization: U.S. Geological Survey
Contact Address
Address Type: mailing address
Address: 590 National Center
City: Reston
State or Province: Virginia
Postal Code: 22092
Contact Voice Telephone: 1 703 648 5514
Contact Facsimile Telephone: 1 703 648 5755
Contact Electronic Mail Address: gdc@usgs.gov
Metadata Standard Name: Content Standards for Digital Geospatial Metadata
Metadata Standard Version: 19940608

Data Described by the Example: National Wetlands Inventory (NWI) wetlands data

Note: This example is provided only to illustrate metadata that are 'compliant' with the standard (mandatory and applicable 'mandatory if applicable' elements are provided). It is not meant to provide guidance on formatting reports or details of information to be provided.

Identification Information

Citation
- Originator: U.S. Fish & Wildlife Service, National Wetlands Inventory
- Publication Date: 1992
- Title: Hickory
- Publication Information
  - Publication Place: St. Petersburg, Florida
  - Publisher: U.S. Fish & Wildlife Service, National Wetlands Inventory

Description
- Abstract: NWI digital data files are records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps that were used as the source for the digital data are produced and distributed by the U.S. Fish & Wildlife Service's National Wetlands Inventory project.
- Purpose: The data provide consultants, planners, and resource managers with information on wetland location and type. The data were collected to meet U.S. Fish & Wildlife Service's mandate to map the wetland and deepwater habitats of the United States.

Time Period of Content
- Multiple Dates/Times
  - Calendar Date: 198811
  - Calendar Date: 199010
- Currentness Reference: source photography date

Status
- Progress: Complete
- Maintenance and Update Frequency: Irregular

Spatial Domain
- Bounding Coordinates
  - West Bounding Coordinate: -89.875
  - East Bounding Coordinate: -89.75
  - North Bounding Coordinate: 30.5
  - South Bounding Coordinate: 30.375

Keywords
- Theme
  - Theme Keyword Thesaurus: None
  - Theme Keyword: wetlands
  - Theme Keyword: hydrologic
  - Theme Keyword: land cover
  - Theme Keyword: surface and manmade features
- Place
  - Place Keyword Thesaurus: None
  - Place Keyword: Louisiana
  - Place Keyword: Mississippi

Access Constraints: none

Use Constraints: Federal, State, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent

to wetland areas should seek the advice of appropriate Federal, State, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Point of Contact
  Contact Organization Primary
    Contact Organization: U.S. Fish & Wildlife Service, National Wetlands Inventory
  Contact Position: Chief Cartographer
  Contact Address
    Address Type: mailing and physical address
    Address: 9720 Executive Center Drive
    City: St. Petersburg
    State or Province: Florida
    Postal Code: 33702
  Contact Voice Telephone: 1 813 570 5411

Native Data Set Environment: NWI uses Wetlands Analytical Mapping System (WAMS) software version 4.06 running under the SUNOS 4.x operating system to digitize wetlands information.

Data Quality Information

Attribute Accuracy
  Attribute Accuracy Report: Attribute accuracy is tested by manual comparison of the source with hard copy printouts and/or symbolized display of the digital wetlands data on an interactive computer graphic system. In addition, WAMS software (USFWS-NWI) tests the attributes against a master set of valid wetland attributes.

Logical Consistency Report: Polygons intersecting the neatline are closed along the border. Segments making up the outer and inner boundaries of a polygon tie end-to-end to completely enclose the area. Line segments are a set of sequentially numbered coordinate pairs. No duplicate features exist nor duplicate points in a data string. Intersecting lines are separated into individual line segments at the point of intersection. Point data are represented by two sets of coordinate pairs, each with the same coordinate values. All nodes are represented by a single coordinate pair which indicates the beginning or end of a line segment. The neatline is generated by connecting the four corners of the digital file, as established during initialization of the digital file. All data crossing the neatline are clipped to the neatline and data within a specified tolerance of the neatline are snapped to the neatline. Tests for logical consistency are performed by WAMS verification software (USFWS-NWI).

Completeness Report: All photo-interpretable wetlands are mapped. In the treeless prairies, 1/4 acre wetlands are mapped. In forested areas, small open water and emergent wetlands are mapped. In general, the minimum mapping unit is from 1 to 3 acres depending on the wetland type and the scale and emulsion of the source aerial photography. In regions of the country where evergreen forested wetlands predominate, wetlands smaller than 3 acres may not be mapped. Thus, a detailed on-the-ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included in this dataset.

Positional Accuracy
  Horizontal Positional Accuracy
    Horizontal Positional Accuracy Report: Horizontal positional accuracy for the digital data is tested by visual comparison of the source with hard copy plots.

Lineage
  Source Information
    Source Citation
      Originator: U.S. Geological Survey
      Publication Date: 198811
      Title: National High Altitude Program (NHAP)
      Geospatial Data Presentation Form: remote-sensing image
      Source Scale Denominator: 65000
      Type of Source Media: black and white aerial photograph film transparency
      Source Time Period of Content
        Single Date/Time
          Calendar Date: 198811
      Source Currentness Reference: source photography date

Source Citation Abbreviation: NWI1a
Source Contribution: aerial photo from which wetlands spatial and attribute information are interpreted
Source Information
Source Citation
Originator: U.S. Geological Survey
Publication Date: 199010
Title: National Aerial Photography Program (NAPP)
Geospatial Data Presentation Form: remote-sensing image
Source Scale Denominator: 40000
Type of Source Media: black and white aerial photograph film transparency
Source Time Period of Content
Single Date/Time
Calendar Date: 199010
Source Currentness Reference: source photography date
Source Citation Abbreviation: NWI1b
Source Contribution: aerial photo from which wetlands spatial and attribute information are interpreted
Source Information
Source Citation
Originator: U.S. Geological Survey
Publication Date: 1979
Title: Hickory
Geospatial Data Presentation Form: map
Publication Information
Publication Place: Reston, Virginia
Publisher: U.S. Geological Survey
Source Scale Denominator: 24000
Type of Source Media: stable-base material
Source Time Period of Content
Single Date/Time
Calendar Date: 1979
Source Currentness Reference: publication date
Source Citation Abbreviation: NWI2
Source Contribution: base map on which wetlands delineations are registered.
Source Information
Source Citation
Originator: U.S. Fish & Wildlife Service, National Wetlands Inventory
Publication Date: 1992
Title: Hickory NWI map
Geospatial Data Presentation Form: map
Publication Information
Publication Place: St. Petersburg, Florida
Publisher: U.S. Fish & Wildlife Service, National Wetlands Inventory
Source Scale Denominator: 24000
Type of Source Media: stable-base material
Source Time Period of Content
Single Date/Time
Calendar Date: 1992
Source Currentness Reference: publication date
Source Citation Abbreviation: NWI3
Source Contribution: source material from which compiled wetlands location and classification are digitized
Process Step
Process Description: NWI maps are compiled through manual photointerpretation of NHAP or NAPP aerial photography, supplemented by soil surveys and field checking of wetland photo signatures. Delineated wetland boundaries are manually transferred from interpreted photos to

USGS 7.5 minute topographic quadrangle maps and then manually labelled. Quality control steps occur throughout the photointerpretation, map compilation, and map reproduction processes.

Source Used Citation Abbreviation: NWI1a
Source Used Citation Abbreviation: NWI1b
Source Used Citation Abbreviation: NWI2
Process Date: 1992
Source Produced Citation Abbreviation: NWI3

Process Step

Process Description: Digital wetlands data were manually digitized from stable-base copies of the 1:24,000 scale wetlands overlays registered to the standard U.S. Geological Survey (USGS) 7.5 minute quadrangles into topologically correct data files using Wetlands Analytical Mapping System (WAMS) software. Files contain ground planimetric coordinates and wetland attributes. The quadrangles were referenced to the North American Datum of 1927 (NAD27) horizontal datum. Manual digitizing used a digitizing table to capture the digital data at a resolution of at least 0.005 inches; attribution was performed as the data were digitized. The data were checked for position by comparing plots of the digital data to the source material.

Source Used Citation Abbreviation: NWI3
Process Date: 199210

Spatial Data Organization Information

Direct Spatial Reference Method: Vector

Spatial Reference Information

Horizontal Coordinate System Definition
- Planar
  - Grid Coordinate System
    - Coordinate System Name: Universal Transverse Mercator
      - Universal Transverse Mercator
        - UTM Zone Number: 16
        - Transverse Mercator
          - Scale Factor at Central Meridian: 0.9996
          - Longitude of Central Meridian: -87.0
          - Latitude of Projection Origin: 0.0
          - False Easting: 500000.0
          - False Northing: 0.0
    - Planar Coordinate Information
      - Planar Coordinate Encoding Method: coordinate pair
        - Coordinate Representation
          - Abscissa Resolution: 0.61
          - Ordinate Resolution: 0.61
        - Planar Distance Units: meters
- Geodetic Model
  - Horizontal Datum Name: North American Datum of 1927
  - Ellipsoid Name: Clarke 1866
  - Semi-major Axis: 6378206.4
  - Denominator of Flattening Ratio: 294.9787

Entity and Attribute Information

Detailed Description
- Entity Type
  - Entity Type Label: wetland
  - Entity Type Definition: Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification wetlands must have one or more of the following three attributes: 1) at least periodically, the land supports predominantly hydrophytes; 2) the substrate is predominantly undrained hydric soil; and 3) the substrate is non-soil and is saturated with water or covered by shallow water at some time during the growing season of each year.

Entity Type Definition Source: Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildlife Service. 103 pp.

Attribute

Attribute label: wetland classification

Attribute Definition: The wetland classification system is hierarchical, with wetlands and deepwater habitats divided among five major systems at the broadest level. The five systems include Marine (open ocean and associated coastline), Estuarine (salt marshes and brackish tidal water), Riverine (rivers, creeks, and streams), Lacustrine (lakes and deep ponds), and Palustrine (shallow ponds, marshes, swamps, sloughs). Systems are further subdivided into subsystems which reflect hydrologic conditions. Below the subsystem is the class which describes the appearance of the wetland in terms of vegetation or substrate. Each class is further subdivided into subclasses; vegetated subclasses are described in terms of life form and substrate subclasses in terms of composition. The classification system also includes modifiers to describe hydrology (water regime), soils, water chemistry (pH, salinity), and special modifiers relating to man's activities (e.g., impounded, partly drained).

Attribute Definition Source: Cowardin, L.M., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildlife Service. 103 pp.

Attribute Domain Values

Codeset Domain

Codeset Name: USFWS-NWI wetland classification code set

Codeset Source: Photointerpretation Conventions for the National Wetlands Inventory, March 1990

Distribution Information

Distributor

Contact Organization Primary

Contact Organization: USGS-Earth Science Information Center

Contact Address

Address Type: mailing address

Address: 507 National Center

City: Reston

State or Province: Virginia

Postal Code: 22092

Contact Voice Telephone: 1 800 USA MAPS

Contact Voice Telephone: 1 703 648 6045

Distribution Liability: none

Standard Order Process

Non-digital Form: Hardcopy NWI wetlands maps at various scales, on diazo paper or mylar, composited with or without the USGS base map.

Digital Form

Digital Transfer Information

Format Name: DLG

Format Version Number: 3

Format Specification: Optional

Digital Transfer Options

Online Option

Computer Contact Information

Network Address

Network Resource Name: ftp://192.189.43.33/dlgdata/mobile/

Access Instructions: Anyone with access to the Internet may connect to NWI's server via anonymous ftp and download available NWI digital wetlands data in DLG3-Optional format. Indexes for NWI hardcopy maps and digital data are also available as well as digital wetlands data in a variety of other formats (MOSS Export, GRASS vector, DXF, and ARC Export) for 14 sample 7.5 minute quadrangles throughout the USA. To access: ftp to the NWI server, login as anonymous, enter your e-mail address at the password prompt, change to the dlgdata directory for DLG data, change to the maps directory for indexes, change to the

samples directory for a sampling of digital data files in formats other than DLG. Use the ftp 'get' command to transfer readme file for further instructions.

Online Computer and Operating System: Sun Model 690MP Unix server. SunOS 4.X operating system.

Offline Option

Offline Media: 8mm cartridge tape

Recording Capacity

Recording Density: 2

Recording Density: 5

Recording Density: 10

Recording Density Units: gigabytes

Recording Format: tar

Recording Format: ASCII recording mode available with no internal labels; the logical record length is 80 bytes; the block size is a multiple of 80 up to 8000 bytes

Offline Option

Offline Media: 1/4-inch cartridge tape

Recording Capacity

Recording Density: 150

Recording Density Units: megabytes

Recording Format: tar

Offline Option

Offline Media: 9-track tape

Recording Capacity

Recording Density: 1600

Recording Density: 6250

Recording Density Units: characters per inch

Recording Format: tar

Recording Format: ASCII recording mode available with no internal labels; the logical record length is 80 bytes; the block size is a multiple of 80 up to 8000 bytes

Offline Option

Offline Media: 3-1/2 inch floppy disk

Recording Capacity

Recording Density: 1.44

Recording Density Units: megabytes

Recording Format: tar

Recording Format: MS-DOS

Digital Form

Digital Transfer Information

Format Name: MOSS

Format Version Number: none

Format Specification: Export

Digital Transfer Options

Offline Option

Offline Media: 8mm cartridge tape

Recording Capacity

Recording Density: 2

Recording Density: 5

Recording Density: 10

Recording Density Units: gigabytes

Recording Format: tar

Recording Format: ASCII recording mode available with no internal labels; the logical record length is 80 bytes; the block size is a multiple of 80 up to 8000 bytes

Offline Option

Offline Media: 1/4-inch cartridge tape

Recording Capacity

Recording Density: 150

Recording Density Units: megabytes

Recording Format: tar
Offline Option
Offline Media: 9-track tape
Recording Capacity
Recording Density: 1600
Recording Density: 6250
Recording Density Units: characters per inch
Recording Format: tar
Recording Format: ASCII recording mode available with no internal labels; the logical record length is 80 bytes; the block size is a multiple of 80 up to 8000 bytes
Offline Option
Offline Media: 3-1/2 inch floppy disk
Recording Capacity
Recording Density: 1.44
Recording Density Units: megabytes
Recording Format: tar
Recording Format: MS-DOS
Digital Form
Digital Transfer Information
Format Name: GRASS
Format Version Number: 3.0
Format Specification: Vector
Digital Transfer Option
Offline Option
Offline Media: 8mm cartridge tape
Recording Capacity
Recording Density: 2
Recording Density: 5
Recording Density: 10
Recording Density Units: gigabytes
Recording Format: tar
Recording Format: ASCII recording mode available with no internal labels; the logical record length is 80 bytes; the block size is a multiple of 80 up to 8000 bytes
Offline Option
Offline Media: 1/4-inch cartridge tape
Recording Capacity
Recording Density: 150
Recording Density Units: megabytes
Recording Format: tar
Offline Option
Offline Media: 9-track tape
Recording Capacity
Recording Density: 1600
Recording Density: 6250
Recording Density Units: characters per inch
Recording Format: tar
Recording Format: ASCII recording mode available with no internal labels; the logical record length is 80 bytes; the block size is a multiple of 80 up to 8000 bytes
Offline Option
Offline Media: 3-1/2 inch floppy disk
Recording Capacity
Recording Density: 1.44
Recording Density Units: megabytes
Recording Format: tar
Recording Format: MS-DOS
Fees: Digital Form - The online copy of the DLG data set may be retrieved via ftp at no charge. For delivery of digital data on magnetic tape, the prices are: purchased by single 7.5 minute quad unit:

$40 per dataset; purchased in groups of 2 to 6: $20 per dataset; purchased in groups of 7 or more: $90 base fee plus $7 per dataset. Non-digital Form - $3.50 per diazo paper map; $5.25 per diazo mylar map.

Ordering Instructions: For digital data orders on 3.5" floppy disk, a maximum order of 10 quads is allowed. Data may be ordered in latitude/longitude or State Plane Coordinate System coordinates (Universal Transverse Mercator coordinates are standard). Latitude/longitude coordinates are not available with GRASS format. For this service, the user must order data through USGS-ESIC for delivery on magnetic media. Please specify the desired coordinate system when ordering. Non-digital form: specify wetlands overlay or wetlands overlay composited with USGS base map.

Technical Prerequisites: Check NWI's ftp site, maps directory for an explanation of the wetland codes. Check NWI's ftp site, software directory for a program that will parse the wetland codes to fixed length format. Check NWI's ftp site, software directory for an AML to convert NWI DLG files to ARC/INFO coverages.

Metadata Reference Information

Metadata Date: 19940920

Metadata Contact

Contact Person Primary

Contact Person: Linda Shaffer

Contact Organization: U.S. Fish & Wildlife Service, National Wetlands Inventory

Contact Position: Chief Cartographer

Contact Address

Address Type: mailing and physical address

Address: 9720 Executive Center Drive

City: St. Petersburg

State or Province: Florida

Postal Code: 33702

Contact Voice Telephone: 1 813 570 5411

Contact Facsimile Telephone: 1 813 570 5420

Contact Electronic Mail Address: linda@enterprise.nwi.fws.gov

Metadata Standard Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata Standard Version: 19940608

[Most of the terms and definitions are from Department of Commerce, 1992, Spatial Data Transfer Standard (SDTS) (Federal Information Processing Standard 173): Washington: Department of Commerce, National Institute of Standards and Technology.]

abscissa -- the coordinate of a point in a plane cartesian coordinate system obtained by measuring parallel to the x-axis ("the 'x' value").

accuracy -- the closeness of results of observations, computations or estimates to the true values or the values accepted as being true.

altitude -- elevation above or below a reference datum, as defined in Federal Information Processing Standard 70-1. See also elevation.

area -- a generic term for a bounded, continuous, two-dimensional object that may or may not include its boundary.

area chain -- a chain that explicitly references left and right polygons and not start and end nodes. It is a component of a two-dimensional manifold.

area point -- a representative point within an area usually carrying attribute information about that area.

arc -- a locus of points that forms a curve that is defined by a mathematical expression.

attribute -- a defined characteristic of an entity type (e.g. composition).

attribute value -- a specific quality or quantity assigned to an attribute (e.g., steel), for a specific entity instance.

chain -- a directed nonbranching sequence of nonintersecting line segments and (or) arcs bounded by nodes, not necessarily distinct, at each end. Area chain, complete chain, and network chain are special cases of chain, and share all characteristics of the general case as defined above.

clearinghouse -- see National Geospatial Data Clearinghouse.

complete chain -- a chain that explicitly references left and right polygons and start and end nodes. It is a component of a two-dimensional manifold.

compound element -- a group of data elements and other compound elements. Compound elements represent higher-level concepts that cannot be represented by individual data elements.

coordinates -- pairs of numbers expressing horizontal distances along orthogonal axes; alternatively, triplets of numbers measuring horizontal and vertical distances.

data element -- a logically primitive item of data.

data set -- a collection of related data.

depth -- perpendicular distance of an interior point from the surface of an object.

developable surface -- a surface that can be flattened to form a plane without compressing or stretching any part of it. Examples include cones and cylinders.

digital image -- a two-dimensional array of regularly spaced picture elements (pixels) constituting a picture.

digital volume -- a three-dimensional array of regularly spaced volume elements (voxels) constituting a volume.

domain -- in the definition of the elements in the metadata standard, the domain identifies valid values for a data element.

Edge, Topology Level 0 -- VPF term for a string.

Edge, Topology Level 1 -- VPF term for a network chain in a network (in SDTS, a "Network chain, non-planar graph").

Edge, Topology Level 2 -- VPF term for a network chain in a planar graph (in SDTS, a "Network chain, planar graph").

Edge, Topology Level 3 -- VPF term for a complete chain.

elevation -- conforming to Federal Information Processing Standard 70-1, the term "altitude" is used in this standard, rather than the common term elevation.

entity instance -- a spatial phenomenon of a defined type that is embedded in one or more phenomena of different type, or that has at least one key attribute value different from the corresponding attribute values of surrounding phenomena (e.g., the 10 Street Bridge).

entity point -- a point used for identifying the location of point features (or areal features collapsed to a point), such as towers, buoys, buildings, places, etc.

entity type -- the definition and description of a set into which similar entity instances are classified (e.g., bridge).

explicit -- method of identifying positions directly by pairs (for horizontal positions) or triplets (for horizontal and vertical positions) of numbers.

Face, Topology Level 3 -- VPF term for a GT-polygon composed of rings.

G-polygon -- an area consisting of an interior area, one outer G-ring and zero or more nonintersecting, nonnested inner G-rings. No ring, inner or outer, shall be collinear with or intersect any other ring of the same G-polygon.

G-ring -- a ring created from strings and (or) arcs.

geospatial data -- information that identifies the geographic location and characteristics of natural or constructed features and boundaries on the earth. This information may be derived from, among other things, remote sensing, mapping, and surveying technologies.

graph -- a set of topologically interrelated zero-dimensional (node), one-dimensional (link or chain), and sometimes two-dimensional (GT-polygon) objects that conform to a set of defined constraint rules. Numerous rule sets can be used to distinguish different types of graphs. Three such types, planar graph, network, and two-dimensional manifold, are used in this standard. All three share the following rules: each link or chain is bounded by an ordered pair of nodes, not necessarily distinct; a node may bound one or more links or chains; and links or chains may only intersect at nodes. Planar graphs and networks are two specialized types of graphs, and a two-dimensional manifold is an even more specific type of planar graph.

grid -- (1) a set of grid cells forming a regular, or nearly regular, tessellation of a surface; (2) a set of points arrayed in a pattern that forms a regular, or nearly regular, tesselation of a surface. The tessellation is regular if formed by repeating the pattern of a regular polygon, such as a square, equilateral triangle, or regular hexagon. The tessellation is nearly regular if formed by repeating the pattern of an "almost" regular polygon such as a rectangle, non-square parallelogram, or non-equilateral triangle.

grid cell -- a two-dimensional object that represents the smallest nondivisible element of a grid.

GT-polygon -- an area that is an atomic two-dimensional component of one and only one two-dimensional manifold. The boundary of a GT-polygon may be defined by GT-rings created from its bounding chains. A GT-polygon may also be associated with its chains (either the bounding set, or the complete set) by direct reference to these chains. The complete set of chains associated with a GT-polygon may also be found by examining the polygon references on the chains.

GT-ring -- a ring created from complete and (or) area chains.

horizontal -- tangent to the geoid or parallel to a plane that is tangent to the geoid.

implicit -- method of identifying positions by a place in an array of values.

interior area -- an area not including its boundary.

label point -- a reference point used for displaying map and chart text (e.g., feature names) to assist in feature identification.

latitude -- angular distance measured on a meridian north or south from the equator.

layer -- an integrated, areally distributed, set of spatial data usually representing entity instances within one theme, or having one common attribute or attribute value in an association of spatial objects. In the context of raster data, a layer is specifically a two-dimensional array of scaler values associated with all of part of a grid or image.

line -- a generic term for a one-dimensional object.

line segment -- a direct line between two points.

link -- a topological connection between two nodes. A link may be directed by ordering its nodes.

longitude -- angular distance between the plane of a meridian east or west from the plane of the meridian of Greenwich.

map -- a spatial representation, usually graphic on a flat surface, of spatial phenomena.

media -- the physical devices used to record, store, and (or) transmit data.

meridian -- a great circle on the Earth that passes through the geographic poles.

metadata -- data about the content, quality, condition, and other characteristics of data.

National Geospatial Data Clearinghouse -- a distributed network of geospatial data producers, managers, and users linked electronically. Building on initiatives such as the national information infrastructure, the clearinghouse uses a distributed, electronically connected network, such as the Internet. Each data provider will describe available data in an electronic form, and provide these descriptions (or "metadata") using means that can be accessed over a communications network. Thus, the data for the clearinghouse are located at the sites of data producers (or, where more efficient, at the sites of intermediaries) throughout the country. Using the network, users will search these descriptions to locate data that are suitable for their applications.

network -- a graph without two dimensional objects. If projected onto a two-dimensional surface, a network can have either more than one node at a point and (or) intersecting links or chains without corresponding nodes.

network chain -- a chain that explicitly references start and end nodes and not left and right polygons. It is a component of a network.

node -- a zero-dimensional object that is a topological junction of two or more links or chains, or an end point of a link or chain.

Node, Topology Level 0 -- VPF term for a point (in SDTS, a "point").

Node, Topology Level 1 -- VPF term for a node on a network (in SDTS, a "node, network").

Node, Topology Level 2 -- VPF term for a node on a planar graph (in SDTS, a "node, planar graph").

Node, Topology Level 3 -- VPF term for a point used to represent isolated features. These are topologically linked to a containing face.

object -- a digital representation of all or part of an entity instance.

ordinate -- the coordinate of a point in a plane cartesian coordinate system obtained by measuring parallel to the y-axis ("the 'y' value").

phenomenon -- a fact, occurrence or circumstance. Route 10, George Washington National Forest, and Chesterfield County are all phenomena.

pixel -- two-dimensional picture element that is the smallest nondivisible element of a digital image.

planar graph -- the node and link or chain objects of the graph occur or can be represented as though they occur upon a planar surface. Not more than one node may exist at any given point on the surface. Links or chains may only intersect at nodes.

point -- a zero-dimensional object that specifies geometric location. One coordinate pair or triplet specifies the location. Area point, entity point, and label point are special implementations of the general case.

primitive -- the quality of not being subdivided; atomic.

quality -- an essential or distinguishing characteristic necessary for cartographic data to be fit for use.

raster -- one or more overlapping layers for the same grid or digital image.

raster object - one or more images and/or grids, each grid or image representing a layer, such that corresponding grid cells and/or pixels between layers are congruent and registered.

resolution -- the minimum difference between two independently measured or computed values which can be distinguished by the measurement or analytical method being considered or used.

ring -- sequence of nonintersecting chains or strings and (or) arcs, with closure. A ring represents a closed boundary, but not the interior area inside the closed boundary.

SDTS -- the Spatial Data Transfer Standard defined by Department of Commerce, 1992, Spatial Data Transfer Standard (SDTS) (Federal Information Processing Standard 173): Washington, Department of Commerce, National Institute of Standards and Technology.

spatial data -- see geospatial data.

stratum -- one of a series of layers, levels, or gradations in an ordered system. For this standard, the term is used in the sense of (1) a region of sea, atmosphere, or geology that is distinguished by natural or arbitrary limits; (2) a socioeconomic level of society comprised of persons of the same or similar status, especially with regard to education or culture; or (3) a layer of vegetation, usually of the same or similar height.

string -- a connected nonbranching sequence of line segments specified as the ordered sequence of points between those line segments. Note: A string may intersect itself or other strings.

two-dimensional manifold -- a planar graph and its associated two dimensional objects. Each chain bounds two and only two, not necessarily distinct, GT-polygons. The GT-polygons are mutually exclusive and completely exhaust the surface.

type -- in the definition of the elements in the metadata standard, a compound element has the type "compound" to provide a unique way to identify compound elements. For a data element, the type identifies the kind of value that can be assigned to the data element. The choices are "integer" for integer numbers, "real" for real numbers, "text" for ASCII characters, "date" for day of the year, and "time" for time of the day.

universe polygon -- defines the part of the universe that is outside the perimeter of the area covered by other GT-polygons ("covered area") and completes the two-dimensional manifold. This polygon completes the adjacency relationships of the perimeter links. The boundary of the universe polygon is represented by one or more inner rings and no outer ring. Attribution of the universe polygon may not exist, or may be substantially different from the attribution of the covered area.

vector -- composed of directed lines.

vertical -- at right angles to the horizontal; includes altitude and depth.

VPF -- the Vector Product Format defined by Department of Defense, 1992, Vector Product Format (MIL-STD-600006): Philadelphia, Department of Defense, Defense Printing Service Detachment Office.

void polygon -- defines a part of the two-dimensional manifold that is bounded by other GT-polygons, but otherwise has the same characteristics as the universe polygon. The geometry and topology of a void polygon are those of a GT-polygon. Attribution of a void polygon may not exist, or may be substantially different from the attribution of the covered area.

voxel -- a three-dimensional element that is the smallest nondivisible element of a digital volume.

American Congress on Surveying and Mapping and American Society of Civil Engineering, 1978, Definitions of surveying and associated terms: Falls Church, Virginia, American Congress on Surveying and Mapping.

American National Standards Institute, 1975, Representations of universal time, local time differentials, and United States time zone reference for information interchange (ANSI X3.51-1975): New York, American National Standards Institute.

American National Standards Institute, 1986, Representation for calendar date and ordinal date for information interchange (ANSI X3.30-1985): New York, American National Standards Institute.

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