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WBS: 1.2.5.3.6

QA: NA

NR93090703

GENISES

Preliminary Spatial Data Sets

EG&G/EM

9/24/93

1028

9310210222 931014

The following spatial data sets are provided from the Yucca Mountain Site Characterization Project's (YMP) "Geographic Nodal Information Study and Evaluation System" (GENISES). GENISES maintains spatial data sets in support of the YMP Database. The data provided is categorized as EXISTING DATA and is not TECHNICAL DATA as defined by YMP AP-5.1Q.

The GENISES database uses two software packages, ARC/INFO and INGRES, to operate the database. ARC/INFO, a Geographic Information System (GIS) product of Environment Systems Research Institute(ESRI) is the spatial-indexing software used for the GENISES database. The listed data sets are provided in ARC/INFO export format.

GIS technology is considered relatively new and national standards are currently under development. GENISES uses x,y (Cartesian) coordinate system to reference geographic locations. Geographic is the standard spherical reference grid used by GENISES. All spatial data sets are provided in Geographic decimal degrees.

This document describes the data sets provided. The first section lists the data files by name and a short description. The second section provides the ARC/INFO description and a listing of the attributes for each file. The attributes are listed in the order held by ARC/INFO. Each attribute is listed with column number, the name of the attribute, input size, output size, type domain, and number of characters to the left of the decimal.

The GENISES database staff is currently reviewing source information on all spatial data sets held. The spatial data sets below are current as of 9/24/93. The GENISES database data dictionary will be available as soon as the source information is complete.

- nts: The geographic boundary of the Nevada Test Site.
Source : Processed by EG&G/EM from USGS
 National Mapping Program 1:100,000 Digital
 Line Graphs.
- nfr: The geographic boundary of the Nellis Air Force Range.
Source : Processed by EG&G/EM from USGS

National Mapping Program 1:100,000 Digital
Line Graphs.

- benchmarks: Geographic reference point in the Yucca Mountain area.
Source: Processed by EG&G/EM from Raytheon Services Nevada Mater Control file of control points for Yucca Mountain Site Characterization Project, Taytheon Services Nevada Ground Control points, Raytheon Services Nevada Control Points Surveyed for NRDS, Coast&Geodetic Survey field sketches, Nev30,Nev31-1, and NEV12-11, UGD Nevada Test Site Master, USGS Pahute Mesa Project Mater, USGS Location of Bare Mountain benchmark, and USGS Big Dune Reprint Project.
- cab: YMP Conceptual Control Area geographic boundary.
Source: Processed by EG&G/EM from Sandia National Laboratories Product Number CAL0166.
- pdb: YMP Conceptual Perimeter Drift geographic boundary.
Source: Processed by EG&G/EM from Raytheon Services Nevada drawing Number YMP-025-2-MING-M101.
- townrange: Nevada township and range grid system.
Source: Sources under review
- deathval: The geographic boundary for Death Valley National Monument.
Source : Processed by EG&G/EM from USGS National Mapping Program 1:100,000 Digital Line Graphs.
- toiyabe: The geographic boundary for the Toiyabe National Forest.
Source: Processed by EG&G/EM from U. S. Forestry Service.

- weststates:** The state and county geographic boundaries for Nevada, California, Oregon, Washington, Idaho, western area of Montana, Utah, New Mexico, and Arizona.
Source : Processed by EG&G/EM from USGS National Mapping Program 1:1,000,000 Digital Line Graphs.
- actmines:** The geographic location of active mines in Nevada.
Source: Processed by EG&G/EM from data files provided by the Nevada Bureau of Mines and Geology.
- oil_gas:** The geographic location of oil and gas wells in Nevada.
Source: Processed by EG&G/EM from data files provided by the Nevada Bureau of Mines and Geology.
- ramps:** Proposed ramp configuration for the Yucca Mountain Project repository.
Source: Processed by EG&G/EM from Raytheon Services drawing YMP-025-1-MING-M101
- esf92:** The proposed foot print for the surface facilities in support of the Experimental Studies Facilities.
Source: Processed by EG&G/EM from Raytheon Services Nevada drawing number YMP-025-1-CIVL-PLO1
- tigerroads:** The geographic location of roads in the Yucca Mountain area.
Source: Processed by EG&G/EM from the Tiger files provided by U.S Department of Commerce Bureau of the Census. Code documentation provided in attachment 1.
- aluvcontact:** The geographic location of the alluvium contact in the Yucca Mountain.
Source: Processed by EG&G/EM from Scott and Bonk USGS map.

faults: The geographic location of the faults in the Yucca Mountain.
Source: Processed by EG&G/EM from Scott and Bonk USGS map.

nvgeonorth: The geographic location of geologic features in Nevada.
Source: This data is provided as published data from USGS. USGS documentation provided in attachment 2.

nvgeosouth: The geographic location of geologic features in Nevada.
Source: This data is provided as published data from USGS. USGS documentation provided in attachment 2.

trstreams: The geographic location of streams in the Yucca Mountain area and southern Nevada.
Source: Processed by EG&G/EM from U. S. Department of Commerce Bureau of the CensusTiger files.

springs: The location of springs in the state of Nevada.
Source: Processed by EG&G/EM from files provided by DRI Water Resource Center NWPO-TR-006-87.

demelev: The location of recorded elevation.
Source: Source information currently under review. This data is currently under development.

elcontour: Elevation contours
Source: Processed by EG&G/EM from USGS 1:24,000 scale Digital Line Graph(DLG). Contour interval 20 feet.

recsites: The geographic location of reclamation sites in the Yucca Mountain area.
Source: Processed from EG&G/EM Environmental Sciences Department.

predsuv: The geographic location of predator studies in the Yucca Mountain area.
Source: Processed from EG&G/EM document EGG 10617-2195 Annual Report FY92.

ecopt: The geographic location of ecological study plots in the Yucca Mountain area.
Source: Processed from EG&G/EM document EGG 10617-2195 Annual Report FY92.

lagtrv: The geographic location of lagomorph study plots in the Yucca Mountain area.
Source: Processed from EG&G/EM document EGG 10617-2195 Annual Report FY92.

magsuv: The geographic location of magnetic monitoring sites in the Yucca Mountain area.
Source: Source information currently under review.

spgmon: The geographic location of spring flow monitoring sites in the Yucca Mountain area.
Source: Processed by EG&G/EM from USGS 1991 Quarterly Report.

spgwell: The geographic location of springs and well in the state of Nevada.
Source: Source information currently under review.

steamflo: The geographic location of stream flow monitoring sites in the Yucca Mountain area.
Source: Source information currently under review.

tempre: The geographic location of temperature and precipitation monitoring sites in the Yucca Mountain area.
Source: Source information currently under review.

sbnetwork: The geographic location of the Souther Great Basin Seismic Monitoring Network.
Source: Processed by EG&G/EM from USGS Open File Report 91-572.

existbh: The geographic location of existing boreholes in the Yucca mountain area.
Source: Yucca Mountain Project Database,
GENISES.

existtrn: The geographic location of existing trenches in the Yucca mountain area.
Source: Yucca Mountain Project Database,
GENISES.

existpit: The geographic location of existing pits in the Yucca mountain area.
Source: Yucca Mountain Project Database,
GENISES.

existpav: The geographic location of existing pavements in the Yucca mountain area.
Source: Yucca Mountain Project Database,
GENISES.

planbh: The geographic location of planned boreholes in the Yucca mountain area.
Source: Yucca Mountain Project Database,
GENISES.

planpit: The geographic location of planned pits in the Yucca mountain area.
Source: Yucca Mountain Project Database,
GENISES.

plantrn: The geographic location of planned trench in the Yucca mountain area.
Source: Yucca Mountain Project Database,
GENISES.

Description of SINGLE precision coverage nts

ARCS

POLYGONS

Arcs = 109 Polygons = 0
Segments = 122 There is NO Polygon Topology.
32 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 84 Label Points = 26
0 bytes of Node Attribute Data 16 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	26	0 bytes

TOLERANCES

SECONDARY FEATURES

Fuzzy =	0.000 N	Tics =	63
Dangle =	0.000 N	Links =	0

COVERAGE BOUNDARY

Xmin =	-116.572	Ymin =	36.578
Xmax =	-115.927	Ymax =	37.385

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.
COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Units	DD	Spheroid	.CLARKE1866

DATAFILE NAME: NTS.AAT

09/24/1993

8 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP
1	FNODE#	4	5 B	-
5	TNODE#	4	5 B	-
9	LPOLY#	4	5 B	-
13	RPOLY#	4	5 B	-
17	LENGTH	4	12 F	3
21	NTS#	4	5 B	-
25	NTS-ID	4	5 B	-
29	CODE	4	4 N	-

DATAFILE NAME: NTS.PAT

09/24/1993

4 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME	WDTH	OPUT	TYP
1	AREA	4	12 F	3
5	PERIMETER	4	12 F	3
9	NTS#	4	5 B	-
13	NTS-ID	4	5 B	-

Description of DOUBLE precision coverage nafr

ARCS

Arcs = 35
Segments = 170
32 bytes of Arc Attribute Data

POLYGONS

Polygons = 1
Polygon Topology is present.
24 bytes of Polygon Attribute Data

NODES

Nodes = 41
0 bytes of Node Attribute Data

POINTS

Label Points = 0

TOLERANCES

Fuzzy = 0.002 V
Dangle = 0.000 V

SECONDARY FEATURES

Tics = 221
Links = 0

COVERAGE BOUNDARY

Xmin = -117.095 Ymin = 36.469
Xmax = -115.309 Ymax = 37.889

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: NAFR.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	NAFR#	4	5	B	-
29	NAFR-ID	4	5	B	-

DATAFILE NAME: NAFR.PAT
4 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	NAFR#	4	5	B	-
21	NAFR-ID	4	5	B	-

Description of SINGLE precision coverage benchmarks

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 228
0 bytes of Node Attribute Data 52 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	107	0 bytes

TOLERANCES

SECONDARY FEATURES

Fuzzy =	0.000 N	Tics =	4
Dangle =	0.000 N	Links =	0

COVERAGE BOUNDARY

Xmin =	-116.947	Ymin =	36.215
Xmax =	-115.904	Ymax =	37.255

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: BENCHMARKS.PAT

09/24/1993

8 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	BENCH92#	4	5	B	-
13	BENCH92-ID	4	5	B	-
17	ELEV	8	8	F	3
25	ACTID	20	20	C	-
45	X-COORD	4	12	F	3
49	Y-COORD	4	12	F	3

Description of SINGLE precision coverage cab

ARCS

POLYGONS

Arcs = 5 Polygons = 0
Segments = 197 There is NO Polygon Topology.
36 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 7 Label Points = 1
0 bytes of Node Attribute Data 16 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	2	0 bytes

TOLERANCES

SECONDARY FEATURES

Fuzzy =	0.000 N	Tics =	333
Dangle =	0.000 N	Links =	0

COVERAGE BOUNDARY

Xmin =	-116.497	Ymin =	36.785
Xmax =	-116.388	Ymax =	36.903

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.
COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: CAB.AAT

09/24/1993

9 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	CAB#	4	5	B	-
25	CAB-ID	4	5	B	-
29	SYMBOLWIDE	4	5	B	-
33	SYMBOLNARROW	4	5	B	-

DATAFILE NAME: CAB.PAT

09/24/1993

4 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	CAB#	4	5	B	-
13	CAB-ID	4	5	B	-

Description of SINGLE precision coverage pdb

ARCS

Arcs = 9
Segments = 356
72 bytes of Arc Attribute Data

POLYGONS

Polygons = 3
Polygon Topology is present.
16 bytes of Polygon Attribute Data

NODES

Nodes = 8
0 bytes of Node Attribute Data

POINTS

Label Points = 0

TOLERANCES

Fuzzy = 0.000 V
Dangle = 0.000 V

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -116.471 Ymin = 36.832
Xmax = -116.444 Ymax = 36.864

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: PDB.AAT
10 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	PDB#	4	5	B	-
25	PDB-ID	4	5	B	-
29	CODE	4	5	B	-
33	SKEY	20	21	C	-
53	SOURCE	20	21	C	-

DATAFILE NAME: PDB.PAT
4 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	PDB#	4	5	B	-
13	PDB-ID	4	5	B	-

Description of SINGLE precision coverage townrange

ARCS

Arcs = 7923
Segments = 13478
28 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 4593
0 bytes of Node Attribute Data

POINTS

Label Points = 3331
40 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.001 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 92
Links = 0

COVERAGE BOUNDARY

Xmin = -120.000 Ymin = 35.001
Xmax = -114.039 Ymax = 42.000

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866

DATAFILE NAME: townrange.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	NV_T_R#	4	5	B	-
25	NV_T_R-ID	4	5	B	-

DATAFILE NAME: townrange.PAT
09/24/1993
10 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	NV_T_R#	4	5	B	-
13	NV_T_R-ID	4	5	B	-
17	P_NUMBER	6	6	I	-
23	TOWNSHIP	6	6	N	1
29	N_S	1	1	C	-
30	RANGE	6	6	N	1
36	E_W	1	1	C	-
37	NUM	4	5	B	-

Description of DOUBLE precision coverage deathval

ARCS

Arcs = 14
Segments = 242
36 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 14
0 bytes of Node Attribute Data

POINTS

Label Points = 1
24 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 221
Links = 0

COVERAGE BOUNDARY

Xmin = -117.620 Ymin = 35.650
Xmax = -116.261 Ymax = 37.085

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: DEATHVAL.AAT
8 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	DEATHV#	4	5	B	-
29	DEATHV-ID	4	5	B	-
33	CODE	4	5	B	-

DATAFILE NAME: DEATHVAL.PAT
4 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	DEATHV#	4	5	B	-
21	DEATHV-ID	4	5	B	-

Description of DOUBLE precision coverage toiyabe

ARCS

POLYGONS

Arcs = 2 Polygons = 0
Segments = 160 There is NO Polygon Topology.
36 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 3 Label Points = 0
0 bytes of Node Attribute Data 24 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.000 N Tics = 221
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.014 Ymin = 35.912
Xmax = -115.431 Ymax = 36.509

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: TOIYABE.AAT
8 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	TOIYABE#	4	5	B	-
29	TOIYABE-ID	4	5	B	-
33	CODE	4	5	B	-

DATAFILE NAME: TOIYABE.PAT
4 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	TOIYABE#	4	5	B	-
21	TOIYABE-ID	4	5	B	-

Description of DOUBLE precision coverage weststates

ARCS

POLYGONS

Arcs = 1161
Segments = 29619
64 bytes of Arc Attribute Data

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 866
0 bytes of Node Attribute Data

Label Points = 296
60 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.002 N
Dangle = 0.000 N

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -125.633
Xmax = -102.997

Ymin = 31.334
Ymax = 49.246

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection
Datum
Units

GEOGRAPHIC
NAD27
DD

Spheroid

CLARKE1866

DATAFILE NAME: WESTSTATES.AAT
12 ITEMS: STARTING IN POSITION 1

09/24/1993

COL	ITEM NAME				
1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	W_STATES#	4	5	B	-
29	W_STATES-ID	4	5	B	-
33	MAJOR1	6	6	I	-
39	MINOR1	6	6	I	-
45	MAJOR2	6	6	I	-
51	MINOR2	6	6	I	-
57	CODE	7	8	I	-

DATAFILE NAME: WESTSTATES.PAT
10 ITEMS: STARTING IN POSITION 1

09/24/1993

COL	ITEM NAME				
1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	W_STATES#	4	5	B	-
21	W_STATES-ID	4	5	B	-
25	MAJOR1	6	6	I	-
31	MINOR1	6	6	I	-
37	MAJOR2	6	6	I	-
43	MINOR2	6	6	I	-
49	MAJOR3	6	6	I	-
55	MINOR3	6	6	I	-

Description of SINGLE precision coverage actmines

ARCS

Arcs = 0
Segments = 0
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 110
132 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	110	0 bytes

TOLERANCES

Fuzzy = 0.001 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 39
Links = 0

COVERAGE BOUNDARY

Xmin =	-119.798	Ymin =	35.781
Xmax =	-114.238	Ymax =	41.826

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC	Spheroid	CLARKE1866
Units	DD		

DATAFILE NAME: ACTMINES.PAT

09/24/1993

11 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	AMINES#	4	5	B	-
13	AMINES-ID	4	5	B	-
17	MINE_#	4	5	B	-
21	NAME	40	40	C	-
61	OPERATOR	40	40	C	-
101	TOWNSHIP	4	4	C	-
105	RANGE	7	7	C	-
112	COMMOD1	10	10	C	-
122	COMMOD2	10	10	C	-

Description of SINGLE precision coverage oil_gas

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 600
0 bytes of Node Attribute Data 434 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	0	0 bytes

TOLERANCES

SECONDARY FEATURES

Fuzzy =	0.002 N	Tics =	39
Dangle =	0.000 N	Links =	0

COVERAGE BOUNDARY

Xmin =	-119.909	Ymin =	35.529
Xmax =	-114.052	Ymax =	41.634

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: OIL_GAS.PAT
22 ITEMS: STARTING IN POSITION 1

09/24/1993

COL	ITEM NAME				
1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	OIL_GAS#	4	5	B	-
13	OIL_GAS-ID	4	5	B	-
17	PERMIT	3	3	I	-
20	API	14	14	C	-
34	OPERATOR	45	45	C	-
79	WELL	45	45	C	-
124	PARTSECT	16	16	C	-
140	S	2	2	C	-
142	T	5	5	C	-
147	R	5	5	C	-
152	COMPL_DATE	9	9	C	-
161	STATUS	14	14	C	-
175	TD	6	6	I	-
181	ELEVATION	7	7	I	-
188	TOPS	200	200	C	-
388	SHOW	15	15	C	-
403	OIL_FIELD	15	15	C	-
418	UTME	6	6	I	-
424	UTMN	7	7	I	-
431	SYMBOL	3	3	I	-

Description of DOUBLE precision coverage ramps

ARCS

Arcs = 10
Segments = 203
32 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 13
0 bytes of Node Attribute Data

POINTS

Label Points = 0

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	2	0 bytes

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 0
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.470	Ymin =	36.828
Xmax =	-116.427	Ymax =	36.860

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: RAMPS.AAT
7 ITEMS: STARTING IN POSITION 1

09/24/1993

COL ITEM NAME

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	RAMPS#	4	5	B	-
29	RAMPS-ID	4	5	B	-

Description of SINGLE precision coverage esf92

ARCS

Arcs = 144
Segments = 2031
28 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 125
0 bytes of Node Attribute Data

POINTS

Label Points = 40
50 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	43	0 bytes

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.450	Ymin =	36.827
Xmax =	-116.423	Ymax =	36.856

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: ESF92.AAT

09/24/1993

7 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	ESF92#	4	5	B	-
25	ESF92-ID	4	5	B	-

Description of DOUBLE precision coverage tigerroads

ARCS

Arcs = 144697
Segments = 557535
36 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 0

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -119.123 Ymin = 35.004
Xmax = -114.045 Ymax = 39.163

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.
COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Units DD Spheroid CLARKE1866

DATAFILE NAME: TIGERROADS.AAT
9 ITEMS: STARTING IN POSITION 1

09/24/1993

COL ITEM NAME

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	TIGER#	4	5	B	-
29	TIGER-ID	4	5	B	-
33	RT	1	1	I	-
34	CFCC	3	3	C	-

Description of DOUBLE precision coverage aluvcontact

ARCS

Arcs = 455
Segments = 80758
36 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 427
0 bytes of Node Attribute Data

POINTS

Label Points = 244
24 bytes of Point Attribute Data

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 136
Links = 0

COVERAGE BOUNDARY

Xmin = -116.500 Ymin = 36.797
Xmax = -116.393 Ymax = 36.918

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: ALUVCONTACT.AAT
8 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	GAC#	4	5	B	-
29	GAC-ID	4	5	B	-
33	CODE	4	5	B	-

DATAFILE NAME: ALUVCONTACT.PAT
4 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	GAC#	4	5	B	-
21	GAC-ID	4	5	B	-

Description of DOUBLE precision coverage faults

ARCS

Arcs = 5642
Segments = 19344
36 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 11212
0 bytes of Node Attribute Data

POINTS

Label Points = 0

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 136
Links = 0

COVERAGE BOUNDARY

Xmin = -116.500 Ymin = 36.797
Xmax = -116.395 Ymax = 36.919

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: FAULTS.AAT

09/24/1993

8 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	FAULTS#	4	5	B	-
29	FAULTS-ID	4	5	B	-
33	CODE	4	5	B	-

Description of SINGLE precision coverage nvgonorth

ARCS

Arcs = 42691
Segments = 134679
28 bytes of Arc Attribute Data

POLYGONS

Polygons = 9308
Polygon Topology is present.
34 bytes of Polygon Attribute Data

NODES

Nodes = 39412
0 bytes of Node Attribute Data

POINTS

Label Points = 9279

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	0	0 bytes

TOLERANCES

Fuzzy = 0.000 V
Dangle = 0.000 V

SECONDARY FEATURES

Tics = 28
Links = 0

COVERAGE BOUNDARY

Xmin =	-120.001	Ymin =	38.996
Xmax =	-113.999	Ymax =	42.003

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.
COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: NVGEONORTH.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	NV_GEOL_N#	4	5	B	-
25	NV_GEOL_N-ID	4	5	B	-

DATAFILE NAME: NVGEONORTH.PAT
8 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	NV_GEOL_S#	4	5	B	-
13	NV_GEOL_S-ID	4	5	B	-
17	FMATN	5	5	C	-
22	COLR	4	4	F	0
26	COLR2	4	4	F	0
30	COLR3	4	4	F	0

Description of SINGLE precision coverage nvgeosouth

ARCS

Arcs = 42260
Segments = 179036
28 bytes of Arc Attribute Data

POLYGONS

Polygons = 11106
Polygon Topology is present.
34 bytes of Polygon Attribute Data

NODES

Nodes = 35577
0 bytes of Node Attribute Data

POINTS

Label Points = 11100

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	0	0 bytes

TOLERANCES

Fuzzy = 0.000 V
Dangle = 0.000 V

SECONDARY FEATURES

Tics = 23
Links = 125

COVERAGE BOUNDARY

Xmin =	-120.062	Ymin =	34.996
Xmax =	-114.000	Ymax =	39.038

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.
COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: NVGEOSOUTH.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	NV_GEOL_N#	4	5	B	-
25	NV_GEOL_N-ID	4	5	B	-

DATAFILE NAME: NVGEOSOUTH.PAT
8 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	NV_GEOL_N#	4	5	B	-
13	NV_GEOL_N-ID	4	5	B	-
17	FMATN	5	5	C	-
22	COLR	4	4	F	0
26	COLR2	4	4	F	0
30	COLR3	4	4	F	0

Description of DOUBLE precision coverage trstreams

ARCS

Arcs = 7202
Segments = 256384
32 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 7205
0 bytes of Node Attribute Data

POINTS

Label Points = 4

TOLERANCES

Fuzzy = 0.002 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin = -125.629 Ymin = 31.336
Xmax = -102.996 Ymax = 49.248

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: TRSTREAMS.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	W_STRM#	4	5	B	-
29	W_STRM-ID	4	5	B	-

Description of SINGLE precision coverage springs

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 754
0 bytes of Node Attribute Data 108 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.002 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -118.194 Ymin = 35.136
Xmax = -114.608 Ymax = 38.701

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: SPRINGS.PAT

09/24/1993

14 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	SPR_WI100#	4	5	B	-
13	SPR_WI100-ID	4	5	B	-
17	X-COORD	4	12	F	3
21	Y-COORD	4	12	F	3
25	X	4	12	F	3
29	Y	4	12	F	3
33	SKEY	20	20	C	-
53	DATE	13	14	C	-
66	ACTIVITY_TYPE	30	30	C	-
96	Y_SP	4	12	F	3
100	X_SP	4	12	F	3
104	REF_NO	4	5	I	-

Description of DOUBLE precision coverage demelev

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 1420020
0 bytes of Node Attribute Data 24 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.002 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -118.000 Ymin = 36.001
Xmax = -114.001 Ymax = 38.000

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: DEMELEV.PAT
4 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	ELEV_DEM#	4	5	B	-
21	ELEV_DEM-ID	4	5	B	-

Description of DOUBLE precision coverage elcontour

ARCS

Arcs = 21466
Segments = 1734398
80 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 0
0 bytes of Node Attribute Data

POINTS

Label Points = 0

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	20	0 bytes

TOLERANCES

Fuzzy = 14.672 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 48
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.750	Ymin =	36.625
Xmax =	-116.250	Ymax =	37.000

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.
COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: ELCONTOUR.AAT
17 ITEMS: STARTING IN POSITION 1

09/24/1993

COL	ITEM NAME				
1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	YMPHYPSO#	4	5	B	-
29	YMPHYPSO-ID	4	5	B	-
33	MAJOR1	6	6	I	-
39	MINOR1	6	6	I	-
45	MAJOR2	6	6	I	-
51	MINOR2	6	6	I	-
57	INDX100	4	5	B	-
61	INDX200	4	5	B	-
65	INDX400	4	5	B	-
69	INDEX600	4	5	B	-
73	INDEX800	4	5	B	-
77	INDEX1000	4	5	B	-

Description of DOUBLE precision coverage recsites

ARCS

Arcs = 35
Segments = 880
32 bytes of Arc Attribute Data

POLYGONS

Polygons = 8
Polygon Topology is present.
106 bytes of Polygon Attribute Data

NODES

Nodes = 33
0 bytes of Node Attribute Data

POINTS

Label Points = 7

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	5	0 bytes

TOLERANCES

Fuzzy = 0.000 V
Dangle = 0.000 V

SECONDARY FEATURES

Tics = 961
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.465	Ymin =	36.812
Xmax =	-116.392	Ymax =	36.878

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: RECSITES.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	8	18	F	5
25	REC#	4	5	B	-
29	REC-ID	4	5	B	-

DATAFILE NAME: RECSITES.PAT
9 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	REC#	4	5	B	-
21	REC-ID	4	5	B	-
25	ACTIVITY_ID	15	16	C	-
40	ACTIVITY_TYPE	30	31	C	-
70	DATE	13	14	C	-
83	REF_NO	4	5	I	-
87	SKEY	20	21	C	-

Description of SINGLE precision coverage predsuv

ARCS

POLYGONS

Arcs = 22 Polygons = 0
Segments = 168 There is NO Polygon Topology.
28 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 21 Label Points = 13
0 bytes of Node Attribute Data 76 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	66	0 bytes

TOLERANCES

SECONDARY FEATURES

Fuzzy =	0.000 N	Tics =	0
Dangle =	0.000 N	Links =	0

COVERAGE BOUNDARY

Xmin =	-116.559	Ymin =	36.770
Xmax =	-116.388	Ymax =	36.871

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: PREDUV.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	PREDUV#	4	5	B	-
25	PREDUV-ID	4	5	B	-

DATAFILE NAME: PREDUV.PAT
14 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	PREDUV#	4	5	B	-
13	PREDUV-ID	4	5	B	-
17	DT_NO	4	5	B	-
21	DATE	2	3	B	-
23	RAWD	4	5	B	-
27	DETAIL	2	3	B	-
29	REL	2	3	B	-
31	FLAG	2	3	B	-
33	ORIGIN_ID	6	7	I	-
39	JB_NO	6	7	I	-
45	ACTID	25	26	C	-
70	ACTTYPE	6	6	I	-

Description of SINGLE precision coverage ecoplt

ARCS

Arcs = 96
Segments = 192
28 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 96
0 bytes of Node Attribute Data

POINTS

Label Points = 48
76 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	48	0 bytes

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 0
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.508	Ymin =	36.757
Xmax =	-116.372	Ymax =	36.891

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: ECOPLT.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	ECOPLT#	4	5	B	-
25	ECOPLT-ID	4	5	B	-

DATAFILE NAME: ECOPLT.PAT
14 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	ECOPLT#	4	5	B	-
13	ECOPLT-ID	4	5	B	-
17	DT_NO	4	5	B	-
21	DATE	2	3	B	-
23	RAWD	4	5	B	-
27	DETAIL	2	3	B	-
29	REL	2	3	B	-
31	FLAG	2	3	B	-
33	ORIGIN_ID	6	7	I	-
39	JB_NO	6	7	I	-
45	ACTID	25	26	C	-
70	ACTTYPE	6	6	I	-

Description of SINGLE precision coverage lagtrv

ARCS

Arcs = 10
Segments = 32
28 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 10
0 bytes of Node Attribute Data

POINTS

Label Points = 5
22 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	5	0 bytes

TOLERANCES

Fuzzy = 0.000 N
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 72
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.553	Ymin =	36.793
Xmax =	-116.394	Ymax =	36.865

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: LAGTRV.AAT
7 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	FNODE#	4	5	B	-
5	TNODE#	4	5	B	-
9	LPOLY#	4	5	B	-
13	RPOLY#	4	5	B	-
17	LENGTH	4	12	F	3
21	LAGTRV#	4	5	B	-
25	LAGTRV-ID	4	5	B	-

DATAFILE NAME: LAGTRV.PAT
5 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	LAGTRV#	4	5	B	-
13	LAGTRV-ID	4	5	B	-
17	ID	6	6	C	-

Description of SINGLE precision coverage magsuv

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 19
0 bytes of Node Attribute Data 46 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.000 N Tics = 134
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.467 Ymin = 36.846
Xmax = -116.406 Ymax = 36.911

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: MAGSUV.PAT
5 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	MAGSUV#	4	5	B	-
13	MAGSUV-ID	4	5	B	-
17	ACTIVITY_TYPE	30	30	C	-

Description of SINGLE precision coverage spgmon

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 5
0 bytes of Node Attribute Data 48 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	10	0 bytes

TOLERANCES

SECONDARY FEATURES

Fuzzy =	0.000 N	Tics =	153
Dangle =	0.000 N	Links =	0

COVERAGE BOUNDARY

Xmin =	-116.618	Ymin =	34.820
Xmax =	-116.449	Ymax =	34.855

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: SPGMON.PAT
8 ITEMS: STARTING IN POSITION 1

09/24/1993

COL	ITEM NAME				
1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	SPGMON#	4	5	B	-
13	SPGMON-ID	4	5	B	-
17	X-COORD	4	12	F	3
21	Y-COORD	4	12	F	3
25	SITENUM	6	6	I	-
31	NAME	18	18	C	-

Description of SINGLE precision coverageE spwell

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 80
0 bytes of Node Attribute Data 108 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.002 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -117.863 Ymin = 36.765
Xmax = -114.791 Ymax = 40.900

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: SPWELL.PAT
10 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/24/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	SPWELL#	4	5	B	-
13	SPWELL-ID	4	5	B	-
17	ACTIVITY_TYPE	31	31	C	-
48	SOURCE	20	20	C	-
68	DATE	13	14	C	-
81	X-COORD	4	12	F	3
85	Y-COORD	4	12	F	3
89	SKEY	20	20	C	-

Description of SINGLE precision coverage streamflo

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 79
0 bytes of Node Attribute Data 108 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.002 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.759 Ymin = 36.018
Xmax = -115.811 Ymax = 37.285

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: STREAMFLO.PAT

09/24/1993

10 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	STREAMFL#	4	5	B	-
13	STREAMFL-ID	4	5	B	-
17	SKEY	20	20	C	-
37	SOURCE	20	20	C	-
57	ACTIVITY_TYPE	30	30	C	-
87	DATE	13	14	C	-
100	X-COORD	4	12	F	3
104	Y-COORD	4	12	F	3

Description of SINGLE precision coverage tempre

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 6
0 bytes of Node Attribute Data 136 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.000 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -118.331 Ymin = 34.739
Xmax = -118.331 Ymax = 34.739

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: TEMPRE.PAT

09/24/1993

12 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	TEMPRE#	4	5	B	-
13	TEMPRE-ID	4	5	B	-
17	SOURCE	20	20	C	-
37	DATE	13	14	C	-
50	SKEY	20	20	C	-
70	ACTIVITY_TYPE	30	30	C	-
100	ACTIVITY_ID	20	20	C	-
120	ELEVATION	8	8	F	3
128	X-COORD	4	12	F	3
132	Y-COORD	4	12	F	3

Description of SINGLE precision coverage sbnetwork

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 109
0 bytes of Node Attribute Data 222 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.002 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -117.907 Ymin = 35.922
Xmax = -114.738 Ymax = 38.233

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: SBNETWORK.PAT
26 ITEMS: STARTING IN POSITION 1

09/24/1993

COL	ITEM NAME				
1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	SB_NETWORK#	4	5	B	-
13	SB_NETWORK-ID	4	5	B	-
17	ACTIVITY_ID	15	16	C	-
32	LOCATION	30	31	C	-
62	START_DATE	14	15	C	-
76	ENDING_DATE	14	15	C	-
90	TYPE_MONITOR	20	21	C	-
110	GAIN	4	5	B	-
114	LOCATION_METHOD	6	7	C	-
120	SYMBOL	4	5	I	-
124	CODE	4	5	I	-
128	LASTEDIT	6	7	I	-
134	ACTIVITY_TYPE	20	20	C	-
154	SKEY	20	20	C	-
174	POSITION_DATE	13	14	C	-
187	EASTING_SP V	4	12	F	3
191	NORTHING_SP	4	12	F	3
195	EASTING_UTM	4	12	F	3
199	NORTHING_UTM	4	12	F	3
203	LATITUDE	4	12	F	3
207	LONGITUDE	4	12	F	3
211	REF_NO	4	5	I	-
215	X-COORD	4	12	F	3
219	Y-COORD	4	12	F	3

Description of SINGLE precision coverage EXISTPIT

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 113
0 bytes of Node Attribute Data 194 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.000 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.639 Ymin = 36.788
Xmax = -116.409 Ymax = 36.867

Continue?

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: EXISTPIT.PAT
21 ITEMS: STARTING IN POSITION 1

09/25/1993

COL	ITEM NAME				
1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	EXISTPIT#	4	5	B	-
13	EXISTPIT-ID	4	5	B	-
17	ACTIVITY_DESIG	10	11	C	-
27	ACTIVITY_ID	20	21	C	-
47	ACTIVITY_TYPE	30	31	C	-
77	ELEVATION	8	9	F	3
85	CODE	4	5	I	-
89	X-COORD	4	12	F	3
93	Y-COORD	4	12	F	3
97	LAST_EDIT	13	14	C	-
110	DATE	13	14	C	-
123	EASTING_SP	8	9	F	3
131	NORTHING_SP	8	9	F	3
139	EASTING_UTM	8	9	F	3
147	NORTHING_UTM	8	9	F	3
155	LONGITUDE	8	9	F	3
163	LATITUDE	8	9	F	3
171	SKEY	20	21	C	-
191	REF_NO	4	5	B	-

Description of SINGLE precision coverage PLANPIT

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 11
0 bytes of Node Attribute Data 194 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.000 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.632 Ymin = 36.755
Xmax = -116.417 Ymax = 36.868

Continue?

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

09/25/1993

DATAFILE NAME: PLANPIT.PAT
21 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME				
1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	PLANPIT#	4	5	B	-
13	PLANPIT-ID	4	5	B	-
17	ACTIVITY_DESIG	10	11	C	-
27	ACTIVITY_ID	20	21	C	-
47	ACTIVITY_TYPE	30	31	C	-
77	ELEVATION	8	9	F	3
85	CODE	4	5	I	-
89	X-COORD	4	12	F	3
93	Y-COORD	4	12	F	3
97	LAST_EDIT	13	14	C	-
110	DATE	13	14	C	-
123	EASTING_SP	8	9	F	3
131	NORTHING_SP	8	9	F	3
139	EASTING_UTM	8	9	F	3
147	NORTHING_UTM	8	9	F	3
155	LONGITUDE	8	9	F	3
163	LATITUDE	8	9	F	3
171	SKEY	20	21	C	-
191	REF_NO	4	5	B	-

Description of SINGLE precision coverage EXISTTRN

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 104
0 bytes of Node Attribute Data 194 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.002 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.778 Ymin = 36.275
Xmax = -114.939 Ymax = 50.462

Continue?

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: EXISTTRN.PAT

09/25/1993

21 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	EXISTTRN#	4	5	B	-
13	EXISTTRN-ID	4	5	B	-
17	ACTIVITY_DESIG	10	11	C	-
27	ACTIVITY_ID	20	21	C	-
47	ACTIVITY_TYPE	30	31	C	-
77	ELEVATION	8	9	F	3
85	CODE	4	5	I	-
89	X-COORD	4	12	F	3
93	Y-COORD	4	12	F	3
97	LAST_EDIT	13	14	C	-
110	DATE	13	14	C	-
123	EASTING_SP	8	9	F	3
131	NORTHING_SP	8	9	F	3
139	EASTING_UTM	8	9	F	3
147	NORTHING_UTM	8	9	F	3
155	LONGITUDE	8	9	F	3
163	LATITUDE	8	9	F	3
171	SKEY	20	21	C	-
191	REF_NO	4	5	B	-

Description of SINGLE precision coverage PLANTRN

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 13
0 bytes of Node Attribute Data 194 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.000 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.631 Ymin = 36.768
Xmax = -116.413 Ymax = 36.868

Continue?

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: PLANTRN.PAT
21 ITEMS: STARTING IN POSITION 1
COL ITEM NAME

09/25/1993

1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	PLANTRN#	4	5	B	-
13	PLANTRN-ID	4	5	B	-
17	ACTIVITY_DESIG	10	11	C	-
27	ACTIVITY_ID	20	21	C	-
47	ACTIVITY_TYPE	30	31	C	-
77	ELEVATION	8	9	F	3
85	CODE	4	5	I	-
89	X-COORD	4	12	F	3
93	Y-COORD	4	12	F	3
97	LAST_EDIT	13	14	C	-
110	DATE	13	14	C	-
123	EASTING_SP	8	9	F	3
131	NORTHING_SP	8	9	F	3
139	EASTING_UTM	8	9	F	3
147	NORTHING_UTM	8	9	F	3
155	LONGITUDE	8	9	F	3
163	LATITUDE	8	9	F	3
171	SKEY	20	21	C	-
191	REF_NO	4	5	B	-

Description of SINGLE precision coverage EXISTPAV

ARCS

POLYGONS

Arcs = 0 Polygons = 0
Segments = 0 There is NO Polygon Topology.
0 bytes of Arc Attribute Data 0 bytes of Polygon Attribute Data

NODES

POINTS

Nodes = 0 Label Points = 13
0 bytes of Node Attribute Data 194 bytes of Point Attribute Data

TOLERANCES

SECONDARY FEATURES

Fuzzy = 0.000 N Tics = 4
Dangle = 0.000 N Links = 0

COVERAGE BOUNDARY

Xmin = -116.457 Ymin = 36.783
Xmax = -116.412 Ymax = 36.868

Continue?

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection GEOGRAPHIC
Datum NAD27
Units DD Spheroid CLARKE1866

DATAFILE NAME: EXISTPAV.PAT
21 ITEMS: STARTING IN POSITION 1

09/25/1993

COL	ITEM NAME				
1	AREA	4	12	F	3
5	PERIMETER	4	12	F	3
9	EXISTPAV#	4	5	B	-
13	EXISTPAV-ID	4	5	B	-
17	ACTIVITY_DESIG	10	11	C	-
27	ACTIVITY_ID	20	21	C	-
47	ACTIVITY_TYPE	30	31	C	-
77	ELEVATION	8	9	F	3
85	CODE	4	5	I	-
89	X-COORD	4	12	F	3
93	Y-COORD	4	12	F	3
97	LAST_EDIT	13	14	C	-
110	DATE	13	14	C	-
123	EASTING_SP	8	9	F	3
131	NORTHING_SP	8	9	F	3
139	EASTING_UTM	8	9	F	3
147	NORTHING_UTM	8	9	F	3
155	LONGITUDE	8	9	F	3
163	LATITUDE	8	9	F	3
171	SKEY	20	21	C	-
191	REF_NO	4	5	B	-

Description of DOUBLE precision coverage existbh_dd

ARCS

Arcs = 47
Segments = 47
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 309
0 bytes of Node Attribute Data

POINTS

Label Points = 243
150 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	239	0 bytes

TOLERANCES

Fuzzy = 0.000 N
Continue?
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.577	Ymin =	36.723
Xmax =	-116.092	Ymax =	37.050

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

09/25/1993

DATAFILE NAME: EXISTBH.PAT
20 ITEMS: STARTING IN POSITION 1

COL	ITEM NAME				
1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	EXISTBH#	4	5	B	-
21	EXISTBH-ID	4	5	B	-
25	DESIG	6	7	C	-
31	ACTIVITY_ID	20	21	C	-
51	ACTIVITY_TYPE	30	31	C	-
81	ELEVATION	4	12	F	3
85	DEPTH	4	12	F	3
89	CODE	4	5	B	-
93	REF_NO	4	5	B	-
97	DATE	13	14	C	-
110	X-COORD	8	18	F	5
118	Y-COORD	8	18	F	5
126	LONGITUDE	4	12	F	3
130	LATITUDE	4	12	F	3
134	EASTING_SP	4	12	F	3
138	NORTHING_SP	4	12	F	3
142	EASTING_UTM	4	12	F	3
146	NORTHING_UTM	4	12	F	3

Description of DOUBLE precision coverage planbh_dd

ARCS

Arcs = 21
Segments = 21
0 bytes of Arc Attribute Data

POLYGONS

Polygons = 0
There is NO Polygon Topology.
0 bytes of Polygon Attribute Data

NODES

Nodes = 39
0 bytes of Node Attribute Data

POINTS

Label Points = 110
162 bytes of Point Attribute Data

ANNOTATIONS

Subclass	Annotations	Text Attribute Data
(blank):	105	0 bytes

TOLERANCES

Fuzzy = 0.000 N
Continue?
Dangle = 0.000 N

SECONDARY FEATURES

Tics = 4
Links = 0

COVERAGE BOUNDARY

Xmin =	-116.605	Ymin =	36.558
Xmax =	-116.275	Ymax =	36.950

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COORDINATE SYSTEM DESCRIPTION

Projection	GEOGRAPHIC		
Datum	NAD27		
Units	DD	Spheroid	CLARKE1866

DATAFILE NAME: PLANBH.PAT

09/25/1993

20 ITEMS: STARTING IN POSITION 1

COL ITEM NAME

1	AREA	8	18	F	5
9	PERIMETER	8	18	F	5
17	PLANBH#	4	5	B	-
21	PLANBH-ID	4	5	B	-
25	DESIG	6	7	C	-
31	ACTIVITY_ID	20	21	C	-
51	ACTIVITY_TYPE	50	51	C	-
101	ELEVATION	4	12	F	3
105	DEPTH	4	12	F	3
109	CODE	4	5	B	-
113	DATE	13	14	C	-
126	EASTING_SP	4	12	F	3
130	NORTHING_SP	4	12	F	3
134	EASTING_UTM	4	12	F	3
138	NORTHING_UTM	4	12	F	3
142	LONGITUDE	4	12	F	3
146	X-COORD	4	12	F	3
150	Y-COORD	4	12	F	3
154	REF_NO	4	5	B	-
158	LATITUDE	4	12	F	3

Attachment 1

1990 TIGER/LINE Precensus

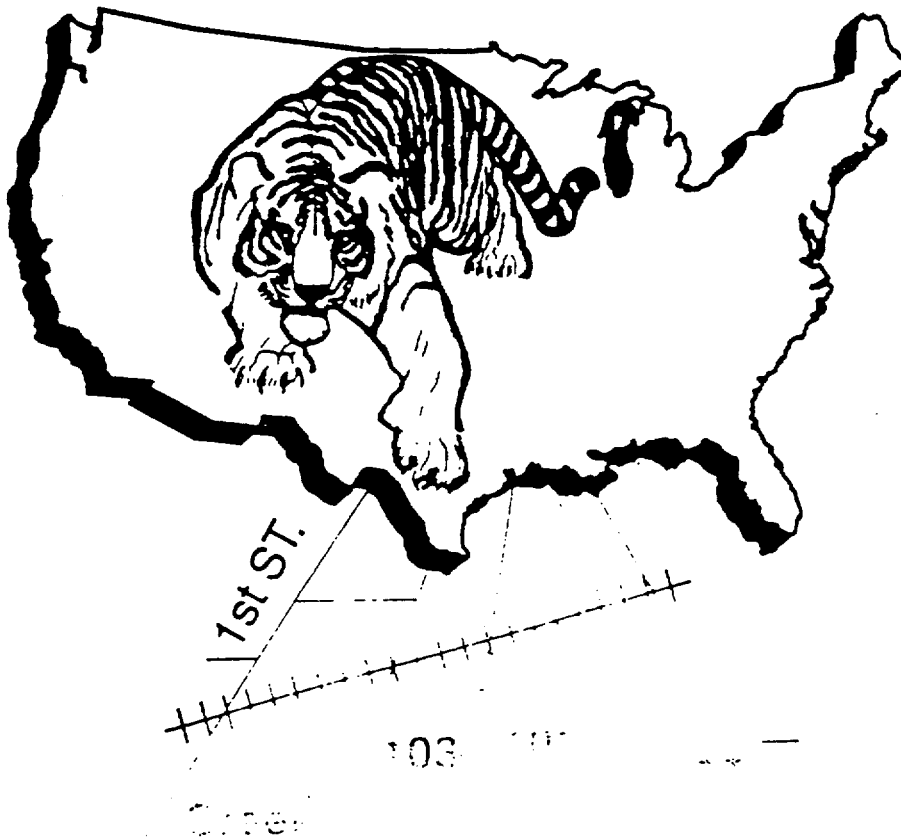
Code

CENSUS '90



Technical Documentation

TIGER/Line Precensus Files, 1990



VI. TIGER/Line PRECENSUS FILE CODES

SOURCE CODES

A series of codes that specify the original digital source of the line segment, such as a Census Bureau's 1980 GBF/DIME-File or a USGS 1:100,000-scale DLG-3 file.

Value	Description
(Blank)	Nondocumented
A	1980 GBF/DIME-File
B	USGS 1:100,000-Scale DLG-3 File
C	Other USGS Map
D	Census Bureau Precensus Update
E	Census Bureau Enumerator Update
F	Census Bureau—Other Operations
G	Unconfirmed Local Official Updates

DIRECTION CODES

(Blank)	No Direction
N	North, Norte
S	South, Sur
E	East, Este
W	West, Oeste
NE	Northeast, Norte Este
NW	Northwest, Norte Oeste
SE	Southeast, Sur Este
SW	Southwest, Sur Oeste
EX	Extended, Extension

DIACRITICAL CODES

The following three special characters will appear in the name field for the TIGER/Line file only for Puerto Rico:

}	Following Character has Accent
[Following Character has Dieresis
#	Following Character has Tilde

CENSUS FEATURE CLASS CODES (CFCC)

This is a series of codes that provides more detailed information on the classification of the line segment, such as class of road, class of stream, and so forth. This field provides more information than the 1980 GBF/DIME-File "NS" code (nonstreet feature code) field. For line segments that originated with the USGS DLG-3 files, the CFCC is based on the USGS classification code in the DLG-3 file. For line segments that originated with the 1980 GBF/DIME-Files, the CFCC is based on the NS code and other feature identification content of the GBF/DIME-File. A list of these codes follows.

CFCC CLASSIFICATION A = ROAD FEATURES

A00	Road, Classification Unknown or Not Elsewhere Classified
A01	Road, undivided
A02	Road, undivided, in tunnel

- A03 Road, undivided, underpassing
- A04 Road, undivided, with rail line in center
- A05 Road, divided
- A06 Road, divided, in tunnel
- A07 Road, divided, underpassing
- A08 Road, divided, with rail line in center

- A10 Primary road, interstate highway and limited access road: This category includes interstate highways, primary U.S. highways, primary state highways, most multi-lane roads and most other limited access roads
- A11 Primary road, interstate highway and limited access road, undivided
- A12 Primary road, interstate highway and limited access road, undivided, in tunnel
- A13 Primary road, interstate highway and limited access road, undivided, underpassing
- A14 Primary road, interstate highway and limited access road, undivided, with rail line in center
- A15 Primary road, interstate highway and limited access road, divided
- A16 Primary road, interstate highway and limited access road, in tunnel
- A17 Primary road, interstate highway and limited access road, divided, underpassing
- A18 Primary road, interstate highway and limited access road, divided, with rail line in center

- A20 Secondary road, U.S. highway not classified A10, and state roads: This category includes the U.S. highways not classified as A10 and state roads. Most of the roads in this category tend to be state-level roads
- A21 Secondary road, U.S. highway not classified A11, and state roads, undivided
- A22 Secondary road, U.S. highway not classified A12, and state roads, undivided, in tunnel
- A23 Secondary road, U.S. highway not classified A13, and state roads, undivided, underpassing
- A24 Secondary road, U.S. highway not classified A14, and state roads, undivided, with rail line in center
- A25 Secondary road, U.S. highway not classified A15, and state roads, divided
- A26 Secondary road, U.S. highway not classified A16, and state roads, divided, underpassing
- A27 Secondary road, U.S. highway not classified A17, and state roads, divided, underpassing
- A28 Secondary road, U.S. highway not classified A18, and state roads, divided, with rail line in center

- A30 Connecting road, county roads, and roads not classified as A10 or A20: This category includes county roads, roads not classified A10 or A20 that connect towns or major features, and principal non-A10/A20 roads through built-up areas. Most of the roads in this category are county roads
- A31 Connecting road, county roads, and roads not classified as A11 or A21, undivided
- A32 Connecting road, county roads, and roads not classified as A12 or A22, undivided, in tunnel
- A33 Connecting road, county roads, and roads not classified as A13 or A23, undivided, underpassing
- A34 Connecting road, county roads, and roads not classified as A14 or A24, undivided, with rail line in center
- A35 Connecting road, county roads, and roads not classified as A15 or A25, divided
- A36 Connecting road, county roads, and roads not classified as A16 or A26, divided, in tunnel
- A37 Connecting road, county roads, and roads not classified as A17 or A27, divided, underpassing
- A38 Connecting road, county roads, and roads not classified as A18 or A28, divided, with rail line in center

- A40 Neighborhood roads, city streets and unimproved roads. This category includes city streets in built-up areas, unpaved roads that are passable with an automobile in non built-up areas, and other remaining improved roads
- A41 Neighborhood roads, city streets and unimproved roads, undivided
- A42 Neighborhood roads, city streets and unimproved roads, undivided, in tunnel
- A43 Neighborhood roads, city streets and unimproved roads, undivided, underpassing
- A44 Neighborhood roads, city streets and unimproved roads, undivided, with rail line in center
- A45 Neighborhood roads, city streets and unimproved roads, divided
- A46 Neighborhood roads, city streets and unimproved roads, divided, in tunnel
- A47 Neighborhood roads, city streets and unimproved roads, divided, underpassing

A48	Neighborhood roads, city streets and unimproved roads, divided, with rail line in center
A50	Class 5 Road - (Jeep Trail)
A51	Class 5 road, undivided
A52	Class 5 road, undivided, in tunnel
A53	Class 5 road, undivided, underpassing
A60	Special Road Feature
A61	Cul-de-sac
A62	Traffic circle
A63	Cloverleaf or interchange
A64	Service drive
A65	Ferry crossing
A70	Other Thoroughfare
A71	Walkway
A72	Stairway
A73	Alley

NOTE: In the portion of the TIGER/Line file prepared from the GBF/DIME-Files, the roads are classified as Class 4 roads with a few exceptions. The interstate highways that were identified by name as such in the GBF/DIME-File, are classified as Class 1 roads. Also, in the GBF/DIME-File coverage areas, users may not find many roads with alternate names; if used, it usually represents another local name and not a Route Number.

CFCC CLASSIFICATION B = RAIL FEATURES

B00	Railroad, Classification Unknown or Not Elsewhere Classified
B01	Railroad track
B02	Railroad track, in tunnel
B03	Railroad track, underpassing
B10	Railroad Main Track
B11	Railroad main track
B12	Railroad main track, in tunnel
B13	Railroad main track, underpassing
B20	Railroad Spur Track
B21	Railroad spur track
B22	Railroad spur track, in tunnel
B23	Railroad spur track, underpassing
B30	Railroad Yard
B31	Railroad yard
B32	Railroad yard, in tunnel
B33	Railroad yard, underpassing
B40	Railroad Ferry Crossing
B50	Other Rail Feature
B51	Cartline
B52	Cog railroad, incline railway, or logging tram

CFCC CLASSIFICATION C = PIPELINES, POWER TRANSMISSION LINES, AND MISCELLANEOUS TRANSPORTATION FEATURES

C00 Special Transportation Feature, Classification Unknown or Not Elsewhere Classified

C10 Pipeline

C20 Power Transmission Line

C30 Other Special Transportation Feature

C31 Aerial tramway, monorail, or ski lift

CFCC CLASSIFICATION D = SPECIAL TRANSPORTATION FEATURES

D00 Feature Not Elsewhere Classified

D50 Transportation Terminal

D51 Airport or airfield

CFCC CLASSIFICATION E = OTHER PHYSICAL FEATURES

E00 Physical Feature, Classification Unknown or Not Elsewhere Classified

E10 Fence Line

E20 Topographic Feature

E21 Ridge line

CFCC CLASSIFICATION F = NONVISIBLE BOUNDARIES

F00 Nonvisible Boundary, Classification Unknown or Not Elsewhere Classified

F10 Nonvisible Political Boundary

F11 Offset corporate boundary

F12 Corporate corridor

F13 Nonvisible interpolated boundary

F20 Feature Extension (Extensions Not Otherwise Classified)

F21 Automated extension

F22 Manually added block extension

F23 Closure extension

F24 Nonvisible Separation Line

F25 Nonvisible Corporate Corridor Centerline

F30 Point-to-Point Line

F40 Property Line

F50 ZIP Code Boundary

F60 Map Edge

F70 Statistical Area Boundary

F71 1980 Statistical area boundary

F72 1990 Block boundary

F73 Urbanized area land use boundary
 F74 1990 Statistical area boundary

CFCC CLASSIFICATION H = HYDROGRAPHIC FEATURES

H00 Water Feature, Classification Unknown or Not Elsewhere Classified

H01 Shoreline of perennial water feature ←
 H02 Shoreline of intermittent water feature

H10 Stream
 H11 Perennial stream
 H12 Intermittent stream or wash
 H13 Braided stream

H20 Canal, Ditch, or Aqueduct
 H21 Perennial canal, ditch, or aqueduct
 H22 Intermittent canal, ditch, or aqueduct

H70 Nonvisible Water Definition Boundary
 H71 USGS closure line
 H72 Census-computed center line
 H73 Census international water boundary
 H74 Census water boundary
 H75 3-mile limit water boundary

CFCC CLASSIFICATION X = FEATURES NOT YET CLASSIFIED

X00 Feature Not Yet Classified

Note: The list of census feature class codes provides for the possible inclusion of these types of features. For example, a property line will appear in the file only when a statistical or political boundary is known to follow that property line, and only then will a line carry the F40 property line code.

FEATURE TYPE ABBREVIATIONS

For all hydrography and for all nonroad features, the feature type normally will follow the feature name in the feature name field. If the feature type is not one of the types that appears in the following list, the feature type will appear in the feature name field. Roads normally will have an entry in the feature type field. The feature type is present only when it is part of the proper name. One should not confuse proper name feature types with the census feature class codes (CFCC).

The following entries may appear in the feature type field. These name abbreviations also may appear in the feature name field.

Abbreviation		Abbreviation	
AL	Alley	OVAL	Oval
ARC	Arcade	OVPS	Overpass
AVE	Avenue, Avenida	PARK	Park
BLVD	Boulevard	PKWY	Parkway
BR	Branch	PASS	Pass
BRDG	Bridge	PATH	Path
BYP	Bypass	PIKE	Pike
C	Calle	PL	Place

CSWY
CTR
CIR
COM
CT
COVE
CRES
CRSG
DR
EXWY
FRWY
GDNS
HWY
LANE
LOOP
MALL
MNR
MEWS
MTWY

Causeway
Center
Circle
Common
Court
Cove
Crescent
Crossing
Drive
Expressway
Freeway
Gardens
Highway
Lane
Loop
Mall
Manor
Mews
Motorway

PLZ
PT
RAMP
ROAD
ROW
RUE
SKWY
SQ
ST
TER
THWY
TFWY
TRL
TUN
TPKE
UNP
WALK
WALL
WAY

Plaza
Point
Ramp
Road
Row
Rue
Skyway
Square
Street
Terrace
Throughway
Trafficway
Trail
Tunnel
Turnpike
Underpass
Walk
Wall
Way

Attachment 2

USGS Geology of Nevada

Digital Data Series DDS-2

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TECHNICAL INFORMATION

PROCEDURES FOR MAKING THE DIGITAL COVERAGE

The development of the Nevada digital geologic coverage, as with all digital products, is a multi-step, reiterative process. Information describing how the Nevada digital geologic coverage was produced is provided here to indicate possible limitations to these data.

The black linework showing formation contacts and faults on the Stewart and Carlson (1978) map was photographed at the 1:500,000 scale to produce a photographic negative. This negative was then scanned by using an optical drum scanner. The raster data were converted to vector data and stored.

The geographic information system used to create the Nevada digital coverage is ARC/INFO version 5.0.1. (Environmental Systems Research Institute (ESRI), 1990). The file was edited to remove extraneous or undesirable linework including miscellaneous lettering, symbols, and honeycombing, which occurred in patterned units.

The next step was to establish the integrity of the remaining lines or arcs by repairing unwanted gaps and reintroducing missing arcs. The ARC/INFO commands BUILD and CLEAN were used to link arcs to create polygons representing the original formations. Labels were then inserted into these closed polygons to provide a link by which attributes could be attached to each polygon. Use of these attributes assigned to each of the polygons provides a powerful tool for analysis.

The tagging or assigning of attributes to each of the polygons was the final step in producing this digital geologic coverage. For Nevada, 101 map units (table 1) present in the legend were used. Each polygon was tagged with a map unit name and a unique numeric code (table 1) to be used during manipulation or plotting.

Hard-copy plots made at this stage may reveal errors that occurred during the creation of the coverage. Correcting these errors is a reiterative process of repairing, adding or deleting arcs; adding or deleting labels; retagging polygons; and replotting.

Products Contained on this CD-ROM

This release of the digital geologic coverage of Nevada is structured to be useful to the greatest possible number of expected users. For this reason, demonstration software to preview the coverages and multiple formats of these coverages are supplied. Refer to table 2 and the CD-ROM jacket for the extent and size of these files.

Provided on this CD-ROM are:

1. Software and associated ASCII and binary files to enable users to view the coverages on a MS/PC-DOS computer terminal. Provisions for coloring, labeling, and identifying polygons at different resolutions are included.
2. The north half and south half of the geologic map of Nevada as separate but adjoining ARC/INFO 5.0.1 EXPORT files. The ARC/INFO EXPORT format is provided because of the ease with which other ARC/INFO users at different sites and on different computers can access the data and because ARC/INFO EXPORT is the original archival medium.
3. The geologic coverage of Nevada as six separate but adjoining files in the DLG-3 optional format. The DLG-3 format files are included because this format is widely used for transferring digital data between various users and different computers when not in an ARC/INFO environment.
4. Twelve ASCII files containing arc and polygon attributes. These ASCII files consist of an arc attribute table (AAT) and a polygon attribute table (PAT) corresponding to each of the six DLG-3 panels. This information can supplement the six DLG files as well as the ASCII and binary files provided for the demonstration program. Unique arc and label numbers provide a link between these disk files.

Please refer to the 'GETTING STARTED' section of this text for more information on how to preview these coverages with the accompanying software and how to use the digital data sets.

Limitations of the Digital Geologic Coverage

The digital geologic coverage of Nevada is a representation of the geology of the published geologic map of Nevada (Stewart and Carlson, 1978). A major difference between the published map and this digital geologic coverage is the lack of non-geologic thematic data such as roads, cities, topographic contours, and water bodies. Also, there are slight variations between the geology presented on the printed map and the computer-generated geologic coverage. Deviations between the geologic map and digital coverage are noted below.

Colors

The published geologic map of Nevada contains a legend of 101 map units (table 1). These map units are uniquely represented on the printed map by combinations of colored polygons overlain in some instances with a textured pattern. On the digital geologic coverage, each of these map units is represented by a unit numeric code (table 3). Because of this code, formations can be uniquely identified and manipulated by using either their formation mnemonic or the numeric code.

Water Bodies

Nevada water bodies, including reservoirs, lakes, rivers, and streams, are not included on the digital geologic coverage. However, these features can be represented and incorporated as a separate digital cover.

The formations beneath water-covered areas of the published geologic map are present on the digital geologic coverage inferred from the surrounding geology. For the locations of these water-covered areas, see Stewart and Carlson (1978).

Faults

As shown on conventional geologic maps, fault lines are differentiated from lithologic contact lines by their increased line thickness. The confidence with which these fault and contact lines are located on geologic maps is shown as solid, very confident; dashed, inferred; or dotted, concealed. Due to the limitations of the technology used and the changing orientations of the arcs, line thickness could not confidently be scanned, maintained, and used to differentiate between faults and lithologic contacts. Therefore, there is no distinction by line thickness made on the digital coverage between contacts and faults.

Conventional geologic maps also show relative movement along faults, whether strike-slip, dip-slip, normal, or reversed, through the use of secondary symbols. Such symbols were also used for the digital geologic coverage. However, some of these ancillary symbols present on the printed map are not present on the digital coverage.

Inferred faults are shown on the published geologic map as dashed lines. This convention was used on the digital geologic coverage where the fault cuts a single formation. However, when different formations are present on either side of the fault, this dashed and faulted contact was converted into a solid line on the digital coverage. A solid line was needed to create closed polygons on either side of the fault, which could then be tagged with the appropriate formation identifier.

Faults concealed by Quaternary alluvium are shown as dotted lines; the presence of these dotted and concealed faults is not shown consistently throughout the digital coverage. A few small intra-formational faults are missing in some places.

Break Lines

Within the ARC/INFO 5.0.1 environment, the size of a polygon that could be color-filled is limited. This maximum size is exceeded by some of the large Quaternary alluvium areas, which are interconnected sedimentary basins. For this reason, break lines were introduced with the Quaternary alluvium to subdivide these large polygons into smaller polygons. These break lines are found only with the Quaternary alluvium.

Published Map Inconsistencies

Within the Stewart and Carlson geologic map, occasional inconsistencies were found between the formation name and its color or pattern. These inconsistencies were resolved on the digital geologic coverage by using the formation that made the best geologic sense.

ARC/INFO EXPORT Files

The ARC/INFO command EXPORT converts the coverages, INFO data files, text files, font files or symbol set files into an ARC/INFO interchange file for export to another site or type of computer running ARC/INFO. This command was used to create EXPORT files for the north and south halves of Nevada, which was partitioned at 39 degrees north latitude. A graphic showing the extent of these EXPORT files is found on the CD-ROM jacket, and their sizes are given in table 2. These EXPORT interchange files contain all coverage information and appropriate INFO file information in a fixed-length ASCII format. The north EXPORT file is named NVNLL, the south EXPORT file is named NVSLL. The descriptions of these digital coverages are found in table 4. The 'NONE' variable was used for the compression argument of the EXPORT command during the generation of these files, which indicates no compression of blanks or numbers has occurred and enables the files to be transferred more readily to other computer systems.

The ARC/INFO command IMPORT creates a coverage, INFO data files, text files, font files or symbol set files from an ARC/INFO interchange file, which was exported from another computer running ARC/INFO. This command is the most efficient way to pull these coverages into an ARC/INFO environment.

Digital Line Graph Files

Six digital line graph files (DLG) were created to represent the digital geologic coverage of Nevada. These DLG's represent six panels paralleling lines of latitude across the state. The locations and file names of these panels are found on the CD-ROM jacket. Descriptions of the digital data sets representing each of these panels are found in table 5.

ARC/INFO ARCDLG and DLGARC Commands

The ARC/INFO command ARCDLG created a DLG-3 Optional format file for each of the six horizontal panels. This was performed with the 'NOTRANS' option, which prevents the transformation of coordinates to a new origin and retains the original coordinates of the coverage.

The DLG-3 Optional format is the most accepted method of transferring map data because it stores topology (which the DLG standard format does not), has a shorter record format (80 compared to 144 bytes per record), and is the preferred method used internally by the U.S. Geological Survey (USGS). This ability to record coordinates, feature topology, and descriptive attributes has made the DLG-3 Optional format a popular, public-domain format for data transfer.

The procedure required to produce a DLG-3 Optional format file from an ARC/INFO coverage includes generating major and minor attribute codes for each feature, building a 'projection' file, and building a 'header information file.' The major and minor codes are used here to assign attributes to individual polygons; they are described in the following section entitled 'ASCII Files'.

The ARC/INFO command DLGARC is used to incorporate DLG formatted data into the ARC/INFO environment.

For more detailed information on the ARC/INFO commands EXPORT, IMPORT, ARCDLG, and DLGARC, refer to the ARC/INFO users guide. For more detailed information on the use of digital line graphs, refer to USGS Data User Guides 1-3 (U.S. Geological Survey, 1986, 1987, 1989).

ASCII Files

ASCII files were created for each of the six areas converted to DLG-3 format (see CD-ROM jacket). An ASCII arc attribute table (AAT) and polygon attribute table (PAT) were generated for each of these six panels. The purpose of these twelve files is to supplement the DLG-3 files and the ASCII and binary coverages associated with the preview software. The combination of location data associated with the preview software and unique identifiers extracted from the EXPORT files for arc and label attributes within these ASCII files allows users to generate a cover if they are unable to process the other formats provided.

The north half and south half of Nevada have been treated as separate covers within the EXPORT format. Each of these covers is partitioned into three panels; the unique identification numbers for each arc and label are retained in all files and can be used to correlate information among the various files and formats. Note, however, that identification numbers will be duplicated and refer to different arcs or labels in the two halves.

An example of the ASCII arc attribute table (AAT) format and data set is shown in table 6. Brief descriptions of the items observed are also present. It should be noted that the MAJOR1 item is equivalent to the right polygon identification number, and the MINOR1 item is equivalent to the left polygon identification number.

An example of the ASCII polygon attribute table (PAT) format and data set is shown in table 7. For these files the MAJOR1 code is equated to the unique color3 numeric code, and MINOR1 code equals the color number.

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TABLES

Table 1.--Description of map units

Unique number code	Unit abbreviation	Unit name	Description
131	Qa	ALLUVIAL DEPOSITS	Locally includes beach and sand dune deposits
129	Qp	PLAYA, MARSH, AND ALLUVIAL-FLAT DEPOSITS, LOCALLY ERODED	
122	Qls	LANDSLIDE DEPOSITS	
120	Qm	MORAINAL DEPOSITS	
9	QToa	OLDER ALLUVIAL DEPOSITS	
176	QTr	RHYOLITIC FLOWS AND SHALLOW INTRUSIVE ROCKS	
158	QTa	ANDESITE FLOWS AND BRECCIAS	
175	QTb	BASALT FLOWS	Locally includes maar deposits
254	QTs	SEDIMENTARY ROCKS	Mostly lake deposits
192	Tri	RHYOLITIC INTRUSIVE ROCKS	
5	Tmi	INTRUSIVE ROCKS OF MAFIC AND INTERMEDIATE COMPOSITION	

188	Ti	INTRUSIVE ROCKS	Aphanitic, porphyritic, and coarsely granular rocks ranging in composition from diorite to granite. Clark County
167	Tbr	BRECCIA	Volcanic, thrust, and jasperoid breccia and landslide megabreccia
187	Tt3	WELDED AND NONWELDED SILICIC ASH-FLOW TUFFS	Locally includes thin units of air-fall and tuff and sedimentary rock
200	Trt	ASH-FLOW TUFFS, RHYOLITIC FLOWS, AND SHALLOW INTRUSIVE ROCKS	
182	Tr3	RHYOLITIC FLOWS AND SHALLOW INTRUSIVE ROCKS	
164	Ta3	ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION	Flows and breccias
173	Tba	ANDESITE AND BASALT FLOWS	Mostly in ~17 to ~6 m.y. age range. In Humboldt County, locally includes rocks as old as 21 m.y. May include rocks younger than 6 m.y. in places
107	Tb	BASALT FLOWS	
106	Tbg	BANBURY FORMATION	Basalt, gravel, and tuffaceous sediments locally. Northeast Humboldt County and northwest Elko County
154	Tts	ASH-FLOW TUFFS AND TUFFACEOUS SEDIMENTARY ROCKS	
139	Ts3	TUFFACEOUS SEDIMENTARY ROCKS	Locally includes minor amounts of tuff
137	Ths	HORSE SPRING FORMATION	Tuffaceous sedimentary rocks, southern Nevada

100	TKsu	CONTINENTAL SEDIMENTARY ROCKS	Clark County
171	Tt2	WELDED AND NONWELDED SILICIC ASH-FLOW TUFFS	Locally includes thin units of air-fall tuff and sedimentary rock
174	Tr2	RHYOLITIC FLOWS AND SHALLOW INTRUSIVE ROCKS	
152	Ta2	ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION	Flows and breccias
133	Tob	OLDER BASALT ROCKS	
146	Ts2	TUFFACEOUS SEDIMENTARY ROCKS	Locally includes minor amounts of tuff
189	Tt1	WELDED AND NONWELDED SILICIC ASH-FLOW TUFFS	Locally includes thin units of air-fall tuff and sedimentary rocks
161	Tr1	RHYOLITIC FLOWS AND SHALLOW INTRUSIVE ROCKS	
160	Ta1	ANDESITE AND RELATED ROCKS OF INTERMEDIATE COMPOSITION	Flows and breccias
127	Ts1	SEDIMENTARY ROCKS	Includes Sheep Pass Formation (Eocene) and related units and unnamed tuffaceous sedimentary rocks
140	TKs	CONTINENTAL SEDIMENTARY ROCKS	Includes units such as Pansy Lee Conglomerate in Humboldt County, part of Cretaceous(?) and Tertiary rocks of Kleinhampl and Ziony (1967) in northern Nye County, and part of "older clastic rocks" of Tschanz and Pampeyan (1970) in Lincoln County

141	Ks	CONTINENTAL DEPOSITS OF SILTSTONE, SHALE, CONGLOMERATE, AND LIMESTONE	Includes units such as King Lear Formation in Humboldt County, Newark Canyon Formation in Eureka County, Willow Tank Formation and Baseline Sandstone in Clark County
157	TJgr	GRANITIC ROCKS, CENTRAL AND EASTERN NEVADA	Mostly quartz monzonite and granodiorite. Inconclusively dated or not dated radiometrically
11	Tgr	GRANITIC ROCKS	Mostly quartz monzonite and granodiorite
184	Mzgr	GRANITIC ROCKS, WESTERN NEVADA (Mesozoic)	Mostly quartz monzonite and granodiorite. Inconclusively dated or not dated radiometrically
249	Kgr	GRANITIC ROCKS	Mostly quartz monzonite and granodiorite
198	Kjd	DIORITE	
180	Jgr	GRANITIC ROCKS	Mostly quartz monzonite and granodiorite
241	Trgr	GRANITIC ROCKS	Quartz monzonite in northern Esmeralda County
165	KJim	IGNEOUS AND METAMORPHIC COMPLEX	Pegmatitic granite and other granitic rocks complexly intermixed with metasedimentary rocks. Considered to be Mesozoic igneous complex intruding lower Paleozoic and possibly Precambrian Z sedimentary rocks. Grades into units shown on map as lower Paleozoic. Ruby Mountains and East Humboldt Range, Elko County

145	JTrsv	SHALE, SANDSTONE, VOLCANOGENIC CLASTIC ROCKS, ANDESITE, RHYOLITE, AND LOCALLY THICK CARBONATE UNITS	Undivided sequence locally containing recognizable equivalents of the Luning and Dunlap Formations
76	Jd	DUNLAP FORMATION (Lower and Middle Jurassic)	Conglomerate, sandstone, greenstone, felsite, and tuff. Locally contemporaneous with folding and thrusting. Mineral County and adjacent parts of Esmeralda and Nye Counties
99	Jgb	GABBROIC COMPLEX (Lower and Middle Jurassic)	Includes gabbro, basalt, and synorogenic quartz sandstone (Boyer Ranch Formation). Churchill and Pershing Counties
83	Jv	VOLCANIC SANDSTONE, FELSIC ASH-FLOW TUFFS, RHYOLITE, AND RHYODACITE FLOWS (Upper? Jurassic)	Pony Trail Group of Cortez Mountains, Eureka County
77	JTrs	SHALE, MUDSTONE, SILTSTONE, SANDSTONE, AND CARBONATE ROCK; SPARSE VOLCANIC ROCK (Upper Triassic and Lower Jurassic)	Includes Auld Lang Syne Group, Nightingale sequence on Bonham (1969), and Gabbs and Sunrise Formations
78	Trc	LIMESTONE, MINOR AMOUNTS OF DOLOMITE, SHALE, AND SANDSTONE; LOCALLY THICK CONGLOMERATE UNITS (Lower, Middle, and Upper Triassic)	Includes Tobin, Dixie Valley, Favret, Augusta Mountain, and Cane Spring Formations and Star Peak Group in central Nevada and Grantsville and Luning Formations in west-central Nevada

87	Trk	KOIPATO GROUP AND RELATED ROCKS (Lower Triassic)	Altered andesitic flows, rhyolitic tuffs and flows, and clastic rocks. Includes rocks mapped by Silberling (1959) as Pablo Formation and originally considered to be Permian in the Shoshone Mountains, Nye County. Includes Tallman Fanglomerate (Permian?) in Humboldt County
92	Trlgr	LEUCOGRANITE AND RHYOLITE PORPHYRY	
251	JTra	AZTEC SANDSTONE (Triassic? and Jurassic)	Friable fine- to medium-grained sandstone with conspicuous large-scale cross strata; considered eolian. Age based on correlation with Navajo Sandstone
79	Trch	CHINLE FORMATION AND ASSOCIATED ROCKS (Upper Triassic)	Continental deposits of variegated bentonitic claystone, siltstone, and clayey sandstone; ledge-forming sandstone; and red siltstone
250	Trmt	MOENKOPI FORMATION, THAYNES FORMATION, AND RELATED ROCKS (Lower Triassic)	Marine deposits of siltstone, limestone, and sparse conglomerate
85	JPu	VOLCANOGENIC SEDIMENTARY ROCKS, TUFF, ANDESITIC AND FELSITIC FLOWS, AND CARBONATE ROCKS	Age uncertain. Mineral, Esmeralda, and northwest Nye Counties
110	TrPs	SILTY LIMESTONE, MINOR AMOUNTS OF SHALE, AND SOME GREENSTONE	Unnamed sequence in Adobe Range, northern Elko County
80	TrPvs	VOLCANIC FLOWS AND FLOW BRECCIAS, CHIEFLY OF ANDESITIC COMPOSITION, TUFFS, SPARSE SANDSTONE AND GRAYWACKE	Includes Happy Creek Volcanic Series and related rocks in Humboldt County and similar rocks in Washoe and Pershing Counties; includes andesite breccias and volcanogenic sedimentary rocks in Mineral County

- | | | | |
|-----|-----|--|---|
| 39 | PMh | HAVALLAH SEQUENCE
OF SILBERLING AND
ROBERTS (1962) | Chert, argillite, shale,
greenstone, and minor
amounts of siltstone,
sandstone, conglomerate,
and limestone. Includes
Schoonover Formation of
Fagan (1962) and Reservation
Hill Formation in Elko
County, Farrel Canyon
Formation in southwestern
Humboldt County, Havallah
and Pumpnickel Formations
in Pershing, Lander, and
parts of Humboldt Counties,
and rocks originally
considered a part of the
Pablo and Excelsior
Formations in northern Nye,
northern Esmeralda, and
southern Mineral Counties.
Assignment of some rocks to
the Havallah sequence in the
East Range, Pershing County,
is highly uncertain.
Includes rocks ranging in age
from Late Mississippian to
Early Permian |
| 36 | Msv | SILICEOUS AND
VOLCANIC ROCKS | In Humboldt County, consists
of altered pillow lavas,
coarse volcanic breccias,
clastic limestone, and minor
amounts of sandstone, shale,
siliceous shale, and chert of
the Goughs Canyon Formation
(Lower and Upper Mississippian).
In the East Range, Pershing
County, consists of quartzite,
conglomerate, slate, limestone,
chert, and greenstone of the
Inskip Formation (Mississippian?) |
| 239 | Ml | MASSIVE LIMESTONE | In the San Antonio Mountains,
western Nye County |

232	TrPd	CONGLOMERATE, SANDSTONE, SHALE, AND DOLOMITE OF DIABLO FORMATION BELOW AND SHALE, SANDSTONE, AND CONGLOMERATE OF CANDELARIA FORMATION ABOVE (Lower or Upper Permian to Lower Triassic)	Mineral, Esmeralda, and northwestern Nye Counties
50	PPa	ANTLER SEQUENCE OF SILBERLING AND ROBERTS (1962) (Middle Pennsylvanian to Early or Late Permian) (Guadalupian)	Conglomerate, sandy to conglomeratic limestone, limestone, sandstone, and calcareous shale. Thin detrital and carbonate sequence within main part of Antler orogenic belt. Includes units such as Sunflower Formation of Bushnell (1967) in Elko County, Battle Formation, Antler Peak Limestone, and Edna Mountain Formation in Lander and western Eureka Counties, and Wildcat Peak Formation in northern Nye County
222	MDmc	CONGLOMERATE, LIMESTONE, META-ANDESITE, PHYLLITE, AND SHALE	Includes Grossman, Banner, Nelson, and Mountain City Formations. Northern Elko County
238	PPcd	SANDY AND SILTY LIMESTONE, CONGLOMERATE, AND SILTSTONE (Upper Pennsylvanian to Upper Permian)	Includes units such as Strathearn Formation of Dott (1955) and Buckskin Mountain, Beacon Flat, and Carlin Canyon Formations of Fails (1960) in Elko County and Carbon Ridge and Garden Valley Formations in Eureka County
62	Pcd	LIMESTONE, CHERTY LIMESTONE, SANDY LIMESTONE, AND CHERT-PEBBLE CONGLOMERATE (Lower and Middle Pennsylvanian)	Includes units such as Moleen and Tomera Formations of Dott (1955)

179	MDS	SHALE, SILTSTONE, SANDSTONE, CHERT-PEBBLE CONGLOMERATE, AND LIMESTONE	Includes units such as Pilot Shale, Joana Limestone, Chainman Shale, and Diamond Peak Formation in northern and eastern Nevada and Narrow Canyon Limestone, Mercury Limestone, and Eleana Formation in southern Nevada
64	Pc	CHERTY LIMESTONE AND SPARSE DOLOMITE, SHALE, AND SANDSTONE (Lower and Upper Permian)	Includes units such as Park City Group and equivalent rocks in northern Nevada and Torowean Formation and Kaibab Limestone in southern Nevada
221	PMc	LIMESTONE, DOLOMITE, AND SHALE (Upper Paleozoic)	Includes Van Duzer Limestone of Decker (1962)
225	Psc	SILTSTONE, SANDSTONE, LIMESTONE AND DOLOMITE (COMMONLY SILTY OR SANDY), AND GYPSUM (Lower Permian)	Includes units such as Rib Hill Sandstone and Pequop Formation of Steele (1959) in Elko County, Rib Hill Sandstone and Arcturus Formation in White Pine County, Queantoweap Sandstone of McNair (1951), Hermit Shale, and Coconino Sandstone in Clark and southern Lincoln Counties
235	PPc	LIMESTONE AND SPARSE DOLOMITE, SILTSTONE, AND SANDSTONE (Lower Pennsylvanian to Lower Permian)	Includes units such as undivided Riepe Spring Limestone of Steele (1960) and Ely Limestone or their equivalent in Elko, White Pine, and northern Lincoln Counties and most of the Bird Spring Formation and Callville Limestone in Clark and southern Lincoln Counties. Includes some stratigraphically higher Permian rocks in Leppy Peak, easternmost Elko County
60	Pc	LIMESTONE	Includes Ely Limestone (mostly Lower and Middle Pennsylvanian)
43	Mc	LIMESTONE AND MINOR AMOUNTS OF DOLOMITE AND SHALE	Includes units such as Rogers Spring and Monte Cristo Limestones

119	Pzsp	SERPENTINITE (Paleozoic)	Mineral, northwestern Nye, and eastern Humboldt Counties
242	DCsv	CHERT, SHALE, ARGILLITE, SILTSTONE, QUARTZITE, AND GREENSTONE	Undivided siliceous assemblage. Mostly Ordovician
216	Dsl	SLAVEN CHERT	Chert and sparse limy sandstone, siltstone, and limestone. Lander County
237	Ds	SHALE, SILICEOUS SILTSTONE, CHERT, AND MINOR AMOUNTS OF LIMESTONE	Includes Cockalorum Wash Wash Formation on northern Nye County and Woodruff Formation and unnamed rocks in Elko County
236	Se	ELDER SANDSTONE	Feldspathic sandstone, siltstone, shale, and chert. Lander County
178	Ss	SHALE AND CHERT	Includes Fourmile Canyon Formation in Eureka County and Noh Formation of Riva (1970) and unnamed rocks in Elko County
101	Osv	SILICEOUS AND VOLCANIC ROCKS	Chert, shale, quartzite, greenstone, and minor amounts of limestone. Includes units such as Valmy Formation of north- central Nevada and some rocks mapped as Palmetto Formation in northern part of Esmeralda County and adjacent parts of Mineral and Nye Counties. Locally includes rocks of Silurian and Devonian age
109	Os	SHALE, CHERT, AND MINOR AMOUNTS OF QUARTZITE, GREENSTONE, AND LIMESTONE	Includes units such as Vinini Formation of north- central Nevada, Palmetto Formation in southern and central parts of Esmeralda County, and Comus Formation in Humboldt County. Locally includes rocks of Silurian and Devonian age

116	Ch	HARMONY FORMATION (Upper Cambrian)	Feldspathic and arkosic sandstone and minor amounts of shale, limestone, and chert
114	Csc	SCOTT CANYON FORMATION or Middle Cambrian)	Chert, shale, greenstone, and (Lower sparse limestone and quartzite. Southeast Humboldt County and Northwest Lander County
71	Dt	ARGILLACEOUS LIMESTONE, CHERT, AND SHALE	Elko and Eureka Counties
13	St	PLATY LIMESTONE AND LIMY SILTSTONE, CHERT AT BASE	Includes units such as Roberts Mountains Formation, and Storff Formation and Chellis Limestone of Decker (1962). Locally includes rocks of Early Devonian age at top
204	Ot	SHALE, CHERT, AND LIMESTONE	Includes Aura Formation of Decker (1962) in northwest Elko County and Perkins Canyon Formation of Kay and Crawford (1964) in northern Nye County
253	Oct	PHYLLITE, SHALE, AND LIMESTONE	Locally includes chert and quartzite. Includes Tennessee Mountain Formation of Bushnell (1967) in western Elko County, Broad Canyon sequence of Means (1962) in Lander County, and rocks originally mapped as Palmetto Formation in Toiyabe and Toquima Ranges, northern Nye County
170	Ct	SHALE AND THIN-BEDDED OR LAMINATED LIMESTONE; ALSO THINLY INTERBEDDED LIMESTONE AND CHERT	Includes units such as Preble and Emigrant Formations
231	Czs	PHYLLITIC SILTSTONE, QUARTZITE, AND LESSER AMOUNTS OF LIMESTONE AND DOLOMITE	Includes Reed Dolomite; Deep Sprint, Campito, Poleta, Harkless, and Saline Valley Formations; and Mule Spring Limestone

113	Zw	WYMAN FORMATION	Phyllite and phyllitic siltstone and minor amounts of limestone, dolomite, and sandstone
41	Dc	DOLOMITE, LIMESTONE, AND MINOR AMOUNTS OF SANDSTONE AND QUARTZITE	Includes units such as Sevy and Simonson Dolomites, Guilmette and Nevada Formations, and Devils Gate Limestone
244	DCC	DOLOMITE AND LIMESTONE (Lower Paleozoic)	
248	Sc	DOLOMITE	Includes units such as Laketown and Lone Mountain Dolomites. Locally includes rocks of Early Devonian age at top
17	Soc	DOLOMITE	Includes uppermost part of Ordovician System (Ely Springs Dolomite and equivalent rocks) and all of Silurian System
212	Oc	LIMESTONE, DOLOMITE, SHALE, AND QUARTZITE	Includes units such as Pogonip Group, Eureka Quartzite, and Ely Springs Dolomite. Where Ely Springs Dolomite or equivalent rocks are included in Soc unit, this unit includes only the Pogonip Group and Eureka Quartzite or their equivalents
233	OCC	DOLOMITE AND LIMESTONE	Undivided Cambrian and Ordovician rocks in part of Clark County; mostly Cambrian
247	Cc	LIMESTONE AND DOLOMITE, LOCALLY THICK SEQUENCES OF SHALE AND SILTSTONE	Includes units such as Pioche Shale, Eldorado Dolomite, Geddes Limestone Secret Canyon Shale, Hamburg Dolomite, Dunderberg Shale, and Windfall Formation of northern Nevada and Carrara, Bonanza King, and Nopah Formations of southern Nevada

255	CZq	QUARTZITE AND MINOR AMOUNTS OF CONGLOMERATE, PHYLLITIC SILTSTONE, LIMESTONE, AND DOLOMITE	Includes Prospect Mountain Quartzite, Osgood Mountain Quartzite, and Gold Hill Formation in northern Nevada and Stirling Quartzite, Wood Canyon Formation, and Zabriskie Quartzite in southern Nevada.
108	Css	SANDSTONE AND QUARTZITE	Includes Tapeats Sandstone and related rocks. Rests on Precambrian metamorphic rocks
115	Zqs	QUARTZITE, PHYLLITIC SILTSTONE, CONGLOMERATE, LIMESTONE, AND DOLOMITE	Includes McCoy Creek Group (excluding Stella Lake Quartzite) of Misch and Hazzard (1962) in east-central Nevada and Johnnie Formation in southern Nevada
136	Ygr	GRANITIC ROCKS	Porphyritic rapakivi granite; 1,450 plus or minus 25 m.y. (L.T. Silver, oral commun., 1973)
3	Xm	METAMORPHIC ROCKS	Gneiss and schist and lesser amounts of gneissic granite, pyroxenite, hornblendite, migmatite, pegmatite, and marble. Includes highly folded granite lenses 1,740 plus or minus 25 m. y. old (L.T. Silver, oral commun., 1973). In southern Nye County, may be Precambrian Z rocks metamorphosed during the Mesozoic

Table 2.--Coverage files of Nevada contained on this CD-ROM

	EXPORT FILES	Prime Pages*
North coverage	NVNLL	3570
South coverage	NVSLL	3535
	DLG FILES	
North coverage	NVNLLP1.DLG	1528
	NVNLLP2.DLG	1405
	NVNLLP3.DLG	1566
South coverage	NVSLLP1.DLG	1755
	NVSLLP2.DLG	1743
	NVSLLP3.DLG	1439
	ASCII FILES	
North coverage	NVNLLP1.AAT	474
	NVNLLP1.PAT	116
	NVNLLP2.AAT	476
	NVNLLP2.PAT	118
	NVNLLP3.AAT	389
	NVNLLP3.PAT	93
South coverage	NVSLLP1.AAT	461
	NVSLLP1.PAT	81
	NVSLLP2.AAT	420
	NVSLLP2.PAT	93
	NVSLLP3.AAT	480
	NVSLLP3.PAT	105

*1 Prime Page = 2048 Bytes

Table 3.--Unique numeric code used for color palette of legend

1	45	89	133 - Tob	178 - Ss	222 - MDmc
2	46	90	134	179 - MDs	223
3 - Xm	47	91	135	180 - Jgr	224
4	48	92 - Trlgr	136 - Ygr	181	225 - Psc
5 - Tmi	49	93	137 - Ths	182 - Tr3	226
6	50 - PPa	94	138	183	227
7	51	95	139 - Ts3	184 - Mzgr	228
8	52	96	140 - TKs	185	229
9 - QToa	53	97	141 - Ks	186	230
10	54	98	142	187 - Tt3	231 - CZs
11 - Tgr	55	99 - Jgb	143	188 - Ti	232 - TrPd
12	56	100 - TKsu	145 - JTrsv	189 - Tt1	233 - OCC
13 - St	57	101 - Osv	146 - Ts2	190	234
14	58	102	147	191	235 - PPc
15	59	103	148	192 - Tri	236 - Se
16	60 - Pc	104	149	193	237 - Ds
17 - SO	61	105	150	194	238 - PPcd
18	62 - Pcd	106 - Tbg	151	195	239 - Ml
19	63	107 - Tb	152 - Ta2	196	240
20	64 - Pc+	108 - Css	153	197	241 - Trgr
21	65	109 - Os	154 - Tts	198 - Kjd	242 - DCsv
22	66	110 - TrPs	155	199	243
23	67	111	156	200 - Trt	244 - DCc
24	68	112	157 - TJgr	201	245
25	69	113 - Zw	158 - QTa	202	246
26	70	114 - Csc	159	203	247 - Cc
27	71 - Dt	115 - Zqs	160 - Tal	204 - Ot	248 - Sc
28	72	116 - Ch	161 - Tr1	205	249 - Kgr
29	73	117	162	206	250 - Trmt
30	74	118	163	207	251 - JTra
31	75	119 - Pzsp	164 - Ta3	208	252
32	76 - Jd	120 - Qm	165 - KJim	209	253 - OCT
33	77 - JTrs	121	166	210	254 - QTs
34	78 - Trc	122 - Qls	167 - Tbr	211	255 - CZq
35	79 - Trch	123	168	212 - Oc	256
36 - Msv	80 - TrPvs	124	169	213	
37	81	125	170 - Ct	214	
38	82	126	171 - Tt2	215	
39 - PMh	83 - Jv	127 - Tsl	172	216 - Dsl	
40	84	128	173 - Tba	217	
41 - Dc	85 - JPu	129 - Qp	174 - Tr2	218	
42	86	130	175 - QTb	219	
43 - Mc	87 - Trk	131 - Qa	176 - QTr	220	
44	88	132	177	221 - PMc	

Table 4.--Detailed descriptions of north and south ARC/INFO EXPORT coverages

NORTH COVERAGE

Arc: DESCRIBE NVNLL
Description of SINGLE precision coverage NVNLL

ARCS	POLYGONS
Arcs = 42693	Polygons = 9308
Segments = 134681	Polygon Topology is present.
40 bytes of Arc Attribute Data	46 bytes of Polygon Attribute Data
POINTS	SECONDARY FEATURES
Label Points = 9278	Tics = 28
	Annotations = 0
	Links = 0
TOLERANCES	STATUS
Fuzzy = 0.000 V	The coverage has not been Edited since the last BUILD or CLEAN.
Dangle = 0.000 V	
COVERAGE BOUNDARY	
Xmin = -120.001	Ymin = 38.997
Xmax = -113.999	Ymax = 42.003

SOUTH COVERAGE

Arc: DESCRIBE NVSLL
DESCRIBE NVSLL

OVER NVN
DESCRIBE NVNLL
Description of SINGLE precision coverage NVSLL

ARCS	POLYGONS
Arcs = 42262	Polygons = 11106
Segments = 179038	Polygon Topology is present.
28 bytes of Arc Attribute Data	34 bytes of Polygon Attribute Data
POINTS	SECONDARY FEATURES
Label Points = 11100	Tics = 23
	Annotations = 0
	Links = 0
TOLERANCES	STATUS
Fuzzy = 0.000 V	The coverage has not been Edited since the last BUILD or CLEAN.
Dangle = 0.000 V	

COVERAGE BOUNDARY

Xmin	=	-120.062	Ymin	=	34.996
Xmax	=	-114.000	Ymax	=	39.038

Table 5.--Detailed descriptions of six DLG-3 format files of Nevada

Arc: DESCRIBE NVNLLP1

Description of SINGLE precision coverage NVNLLP1

ARCS		POLYGONS	
Arcs	= 14685	Polygons	= 2815
Segments	= 46416	Polygon Topology is present.	
40 bytes of Arc Attribute Data		46 bytes of Polygon Attribute Data	

POINTS

Label Points = 2815

SECONDARY FEATURES

Tics = 28
 Annotations = 0
 Links = 0

TOLERANCES

Fuzzy = 0.000 V
 Dangle = 0.000 V

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COVERAGE BOUNDARY

Xmin = -120.000	Ymin = 41.000
Xmax = -114.000	Ymax = 42.000

Arc: DESCRIBE NVNLLP2

Description of SINGLE precision coverage NVNLLP2

ARCS		POLYGONS	
Arcs	= 13386	Polygons	= 3179
Segments	= 42410	Polygon Topology is present.	
40 bytes of Arc Attribute Data		46 bytes of Polygon Attribute Data	

POINTS

Label Points = 3189

SECONDARY FEATURES

Tics = 28
 Annotations = 0
 Links = 0

TOLERANCES

Fuzzy = 0.000 V
 Dangle = 0.000 V

STATUS

The coverage has not been Edited since the last BUILD or CLEAN.

COVERAGE BOUNDARY

Xmin = -120.000	Ymin = 40.000
Xmax = -114.000	Ymax = 41.000

Arc: DESCRIBE NVNLLP3
Description of SINGLE precision coverage NVNLLP3

ARCS
Arcs = 15179
Segments = 45679
40 bytes of Arc Attribute Data

POLYGONS
Polygons = 3592
Polygon Topology is present.
46 bytes of Polygon Attribute Data

POINTS
Label Points = 3597

SECONDARY FEATURES
Tic = 28
Annotations = 0
Links = 0

TOLERANCES
Fuzzy = 0.000 V
Dangle = 0.000 V

STATUS
The coverage has not been Edited
since the last BUILD or CLEAN.

COVERAGE BOUNDARY

Xmin = -120.000
Xmax = -114.000

Ymin = 39.000
Ymax = 40.000

Arc: DESCRIBE NVSLLP1
Description of SINGLE precision coverage NVSLLP1

ARCS
Arcs = 15104
Segments = 63943
28 bytes of Arc Attribute Data

POLYGONS
Polygons = 4017
Polygon Topology is present.
34 bytes of Polygon Attribute Data

POINTS
Label Points = 4017

SECONDARY FEATURES
Tics = 23
Annotations = 0
Links = 0

TOLERANCES
Fuzzy = 0.000 V
Dangle = 0.000 V

STATUS
The coverage has not been Edited
since the last BUILD or CLEAN.

COVERAGE BOUNDARY

Xmin = -120.000
Xmax = -114.000

Ymin = 38.000
Ymax = 39.001

Arc: DESCRIBE NVSLLP2
Description of SINGLE precision coverage NVSLLP2

ARCS		POLYGONS	
Arcs	= 14959	Polygons	= 4043
Segments	= 63795	Polygon Topology is present.	
28 bytes of Arc Attribute Data		34 bytes of Polygon Attribute Data	

POINTS		SECONDARY FEATURES	
Label Points	= 4043	Tics	= 23
		Annotations	= 0
		Links	= 0

TOLERANCES		STATUS	
Fuzzy	= 0.000 V	The coverage has not been Edited	
Dangle	= 0.000 V	since the last BUILD or CLEAN.	

COVERAGE BOUNDARY

Xmin	= -120.000	Ymin	= 37.000
Xmax	= -114.000	Ymax	= 38.001

Arc: DESCRIBE NVSLLP3
Description of SINGLE precision coverage NVSLLP3

ARCS		POLYGONS	
Arcs	= 12295	Polygons	= 3233
Segments	= 50676	Polygon Topology is present.	
28 bytes of Arc Attribute Data		34 bytes of Polygon Attribute Data	

POINTS		SECONDARY FEATURES	
Label Points	= 3233	Tics	= 23
		Annotations	= 0
		Links	= 0

TOLERANCES		STATUS	
Fuzzy	= 0.000 V	The coverage has not been Edited	
Dangle	= 0.000 V	since the last BUILD or CLEAN.	

COVERAGE BOUNDARY

Xmin	= -117.260	Ymin	= 35.000
Xmax	= -114.000	Ymax	= 37.001

Table 6.--Example of format and data set for ASCII arc attribute table (NVNLLP1.AAT)

FORMAT

DATAFILE NAME: NVNLLP1.AAT
 9 ITEMS: STARTING IN POSITION 1

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	NO.	DECIMALS	DESCRIPTION
1	FNODE#	4	5	B	-	-	FROM NODE
5	TNODE#	4	5	B	-	-	TO NODE
9	LPOLY#	4	5	B	-	-	LEFT POLYGON
13	RPOLY#	4	5	B	-	-	RIGHT POLYGON
17	LENGTH	4	12	F	3	-	LENGTH
21	NVNLLP1#	4	5	B	-	-	INTERNAL ID NUMBER
25	NVNLLP1-ID	4	5	B	-	-	USER ID NUMBER
29	MAJOR1	6	6	I	-	-	MAJOR CODE
35	MINOR1	6	6	I	-	-	MINOR CODE

DATA SET

NO.	FNODE#	TNODE#	LPOLY#	RPOLY#	LENGTH	NVNLLP1#	NVNLLP1-ID	MAJOR1	MINOR1
1	3	2	2	1	0.001	1	41900	1	2
2	10	2	1	2	0.026	2	41889	2	1
3	1	10	1	2	0.033	3	41890	2	1
4	5	11	3	1	0.010	4	41880	1	3
5	12	4	1	1	0.006	5	41743	1	1
6	13	12	1	6	0.014	6	41745	6	1
7	14	6	1	1	0.005	7	41874	1	1
8	5	14	1	3	0.081	8	41875	3	1
9	17	7	1	1	0.014	9	41811	1	1
10	12	19	1	6	0.016	10	41747	6	1
11	20	15	1	6	0.064	11	41748	6	1
12	19	20	1	6	0.004	12	41746	6	1
13	22	18	2	2	0.012	13	34352	2	2

Table 7.--Example of format and data set for ASCII polygon attribute table (NVNLLP1.PAT)

FORMAT

DATAFILE NAME: NVNLLP1.PAT

10 ITEMS: STARTING IN POSITION 1

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	NO.	DECIMALS	DESCRIPTION
1	AREA	4	12	F		3	AREA
5	PERIMETER	4	12	F		3	PERIMETER
9	NVNLLP1#	4	5	B		-	INTERNAL ID NUMBER
13	NVNLLP1-ID	4	5	B		-	USER NUMBER
17	FMATN	5	5	C		-	FORMATION NAME
22	COLR	4	4	F		0	TAGGING COLOR
26	COLR2	4	4	F		0	STEWART & CARLSON COLORS
30	COLR3	4	4	F		0	UNIQUE COLOR CODE
34	MAJOR1	6	6	I		-	MAJOR CODE
40	MINOR1	6	6	I		-	MINOR CODE

DATA SET

NO.	AREA	PERIMETER	NVNLLP1#	NVNLLP1-ID	FMATN	COLR	COLR2	COLR3	MAJOR1	MINOR1
1	-5.935	13.922	1	0	Tt3	2	189	187	187	2
2	0.391	9.840	2	9,205	Tbg	2	144	106	106	2
3	0.007	0.478	3	82	Tbg	2	144	106	106	2
4	0.037	1.470	4	78	Tt3	2	189	187	187	2
5	0.017	0.719	5	9,030	Qa	7	128	131	131	7
6	0.045	1.666	6	1	Tb	2	165	107	107	2
7	0.016	0.851	7	2	Tr3	2	182	182	182	2
8	0.001	0.227	8	9,027	Ts2	2	138	146	146	2
9	0.112	6.406	9	9,026	Tt3	2	189	187	187	2
10	0.000	0.028	10	79	Tt3	2	189	187	187	2
11	0.001	0.359	11	80	Q1s	7	128	122	122	7
12	0.001	0.214	12	9,028	Tt3	2	189	187	187	2
13	0.000	0.031	13	76	Tt1	2	187	189	189	2