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# Appendix A: FILE FORMAT TABLES AND CORRESPONDING SAMPLE

## Conventions Applicable to Appendix A

A. File format tables in this appendix use the following notation in the ROW column of the ROW & ELEMENT POSITION column:

nn Unique kind of row. “nn” is some number which identifies the unique type of row in the file.

M or C Mandatory or Conditional. Default = M.

Indicates whether the given type of row is always present (Mandatory), or may not be present (Conditional).

S or R Single or Repeating. Default = S.

Indicates whether the row will occur only once (Single), or may occur more than once (Repeat).

Example: (1) A row encoding of “2MS” indicates that this kind of row (2) must (M) be present in the file, and that it occurs only one time (S).

(2) A row encoding of “3CR” indicates that the third kind of row (3) in this file is conditional (C) and that it may occur many times (R).

B. File format tables in this appendix use the following notation in the DATA TYPE column:

A/N The value is alphanumeric.

CHAR The value is alphabetic.

INT The value is an integer.

F<sub>n</sub>.m The value is a real number, whose length (including the decimal point symbol) is n bytes long, with m places to the right of the decimal point.

Example: (1) “T22NR14E” is A/N, alphanumeric.

(2) “ORIGIN” is CHAR, alphabetic.

(3) “10” is INT, an integer.

(4) “123.4” is F<sub>5</sub>.1, a real number,

where n = 5, m = 1.

C. Other Conventions

- The question mark, ?, appearing in the ELEMENT NAME column, represents a software prompt to the user.
- The quotes, “ ”, appearing in the ELEMENT NAME column, indicate a program default.

- The brackets, [ ], appearing in the ELEMENT NAME column, provides more detailed information on the data.
- A vertical dot pattern/ellipsis appearing in some sample data files implies a continuation of the repeating row pattern within the data.

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
[PROGRAM PROMPT: Q99]	1	1	1	A/N	1
STATE PLANE ZONE	2	2	41	A/N	40
DATUM USED; 1=NAD27, 2=NAD83	3	1	1	INT	1
COORDINATE UNITS USED; 2=FEET	4	1	1	INT	1
PROJECT ELEV	5	2	11	F 10.3	10
READ ELEV FROM .LEV?	6	1	1	A/N	1
READ ERROR EST FROM.SD?	7	1	1	A/N	1
DIST ERROR EST; CONSTANT	8	2	11	F 10.3	10
DIST ERROR EST; SYSTEMATIC (PPM)	8	12	21	F 10.1	10
ANGLE ERROR EST	9	2	11	F 10.1	10
BEARING ERROR EST	10	2	11	F 10.1	10
EASTING CNTRL ERROR EST	11	2	11	F 10.3	10
NORTHING CNTRL ERROR EST	12	2	11	F 10.3	10
BEARING TYPE; MEAN GEODETIC	13	1	1	A/N	1
DISTANCE RESIDUAL PRINT LIMIT	14	2	11	F 10.3	10
ANGLE RESIDUAL PRINT LIMIT	15	2	11	F 10.1	10
AZIMUTH RESIDUAL PRINT LIMIT	16	2	11	F 10.1	10

ERROR ELLIPSES COMPUTED?	17	1	1	A/N	1
READJUST W/ROBUST ERROR EST?	18	1	1	A/N	1
PRINT ADJ BEARINGS AND DIST?	19	1	1	A/N	1
PRINT .COR FILE?	20	1	1	A/N	1
TOWNSHIP AND RANGE	21	1	30	A/N	30
PRINCIPAL MERIDIAN	22	1	30	A/N	30
STATE/LOCAL DESIGNATOR	23	1	30	A/N	30
UTM ZONE	24	1	3	INT	3

TOWNSHIP.DEF File - Sample Data

Y

4 ARIZONA EAST MERCATOR

1

2

6000.000

N

Y

1.000 1000.0

4.0

120.0

25.000

25.000

Y

.000

.0

.0

Y

Y

N

Y

T30NR24E

14

AZ

12

ELEMENT NAME	ROW & ELEMENT POSITION			DATA TYPE	SIZE
	ROW	START	STOP		
	FILE HEADER (*1)	1			
“ORIGIN”	2	2	7	CHAR	6
NORTH	2	12	22	F11.4	11
EAST	2	24	35	F12.4	12
ELEV	2	36	44	F9.3	9
“0”	2	48	48	A/N	1
“0”	2	53	53	A/N	1
“2000.0000”	2	56	64	F9.4	9
“5000.0000”	2	66	74	F9.4	9
CONTROL AVAIL/USED (*2)	3R	1	1	A/N	1
CONTROL STATION NAME	3R	2	7	INT	6
NORTH	3R	12	22	F11.4	11
EAST	3R	24	35	F12.4	12
STATION/PROJECT ELEV	3R	36	44	F9.3	9
NORTHING ERROR IN FEET	3R	45	48	CHAR	4
EASTING ERROR IN FEET	3R	50	53	CHAR	4
X-COORDINATE (*3)	3R	55	64	CHAR	10
Y-COORDINATE (*3)	3R	65	74	CHAR	10

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers, no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) An asterisk (\*) in this field indicates that control is available but is not used.

(\*3) These fields may or may not be populated.

TOWNSHIP.CON File - Sample Data

TWP 0300	RNG	0500	PM	2	CONTROL POINTS		DATE 06/29/93
ORIGIN	402800.0000	1162000.0000	6000.000	0	0	2000.0000	5000.0000
100100	402521.8550	1162348.6430	6000.000	25	25	17195.0100	13154.4743
100200	402614.2320	1162350.3610	6000.000	25	25	17189.7266	13234.6365
100500	402851.3000	1162349.2510	6000.000	25	25	17181.2013	13475.3149
147100	402521.8780	1162308.1290	6000.000	25	25	17242.4050	13156.3907
153700	403036.6470	1162320.9650	6000.000	25	25	17207.6558	13638.0150
247100	402521.8280	1162201.9370	6000.000	25	25	17319.8433	13159.4002
*700999	402906.7890	1161705.1050	6000.000	25	25	17652.5686	13518.0532



**APPENDIX A.03 3.2.1.5 TOWNSHIP.RAW FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER (*1)	1				
“999999”	2	1	6	INT	6
POINT FROM	3R	1	6	INT	6
POINT TO	3R	10	T15	INT	6
DISTANCE (*2)	3R	17	24	F8.3	8
QUADRANT	3R	27	27	INT	1
DIRECTION/BEARING	3R	31	38	F8.1	8
SURVEY ID	3R	40	57	A/N	18
“999998”	4	1	6	INT	6

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers; no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) The distance is in chains.

TOWNSHIP.RAW File - Sample Data

TWP 30N    RNG    50E    PM    Mnt    Diablo Nevada (NV)    DATE 93/05/13  
999999  
700100 700133        29.832        4            .0 R0462:0249  
700133 700140        10.188        4            .0 R0462:0249  
700140 700147        6.840        4        10300.0 R0498:0019  
700167 700200        11.290        4        10300.0 R0498:0019  
700200 700240        38.130        4        10300.0 R0498:0019  
700660 700700        19.060        4        10300.0 R0498:X019  
600100 600140        40.000        4            .0 R0140:0134  
600140 600200        40.000        4            .0 R0140:0134  
600200 600240        40.000        4            .0 R0140:0134  
100657 100660        .225        4        300.0 R0414:X369  
100660 100700        20.225        4        300.0 R0414:X369

107100	100100	7.405	3	900000.0 R0414:0153
700200	640200	40.090	4	895400.0 R0140:0134
640200	600200	40.090	4	895400.0 R0140:0134
600200	540200	40.040	3	900000.0 R0140:0134
140700	120700	19.336	3	895000.0 R0414:0385
120700	103700	13.712	3	895000.0 R0414:0385
103700	100700	2.840	3	895000.0 R0414:0385
999998				

**APPENDIX A.04 3.2.1.6 TOWNSHIP.SID FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
“S” [survey record]	1R	1	1	CHAR	1
SURVEY ID	1R	2	19	A/N	18
DISTANCE ERROR, CONSTANT	1R	20	26	F7.3	7
DISTANCE ERROR, PPM	1R	27	34	F8.1	8
BEARING ERROR EST	1R	35	42	F8.1	8
EASTING CNTRL ERROR EST	1R	43	51	F9.3	9
NORTHING CNTRL ERROR EST	1R	52	60	F9.3	9
“C” [comment record]	2CR	1	1	CHAR	1
SURVEY DESCRIPTION (*1)	2CR	2	41	A/N	40

(\*1) The SURVEY DESCRIPTION field is an optional 40 character free-format comment field that may occur multiple times after each survey record in the TOWNSHIP.SID file. Some states have entered data into this comment field in consistent ways. Appendices A.04a-A.04e provide state-specific format information for any individual data elements stored consistently within the free-format comment field. Discrete data elements stored within the free-format SURVEY DESCRIPTION comment field are indented underneath the SURVEY DESCRIPTION field where they exist.

TOWNSHIP.SID File - Sample Data

```
SR0140:0134 1.000 30000.0 10800.0 25.000 25.000
C 1874 SKINNER, ORIG., INT.
SR0414:0153 1.000 1560.0 300.0 25.000 25.000
C 1901 MORSE, ORIG. S. BDY. SEC. 31
SR0414:0247 1.000 3125.0 600.0 25.000 25.000
C 1901 MORSE, RESURVEY, S. BDY.
SR0414:0369 1.000 1560.0 300.0 25.000 25.000
C 1901 MORSE, RESURVEY, W. BDY.
SR0414:0385 2.000 3125.0 600.0 25.000 25.000
C 1901 MORSE, RESURVEY, N. BDY. SEC. 6
SR0462:0249 1.000 3125.0 600.0 25.000 25.000
C 1909 KEARNEY, RESURVEY, E. BDY. SEC. 3
SR0414:X369 1.000100000.0 36000.0 25.000 25.000
```

C 1901 MORSE COARSE ADJUSTER

SR0140:X134 1.000100000.0      36000.0      25.000 25.000

C 1874 SKINNER COARSE ADJUSTER

**APPENDIX A.04A 3.2.1.6 IDAHO TOWNSHIP.SID FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA TYPE	SIZE
	ROW	START	STOP		
“S” [survey record]	1R	1	1	CHAR	1
SURVEY ID	1R	2	19	A/N	18
DISTANCE ERROR, CONSTANT	1R	20	26	F7.3	7
DISTANCE ERROR, PPM	1R	27	34	F8.1	8
BEARING ERROR EST	1R	35	42	F8.1	8
EASTING CNTRL ERROR EST	1R	43	51	F9.3	9
NORTHING CNTRL ERROR EST	1R	52	60	F9.3	9
“C” [comment record]	2CR	1	1	CHAR	1
SURVEY DESCRIPTION	2CR	2	41	A/N	40
SOURCE AGENCY (*1)	2CR	3-5-5	5-8	A/N	3-6
ACCEPTANCE DATE (*2)	2CR	7-10	17-20	A/N	11
FIELD NOTE SURSYS CODE (*3)	2CR	19-22	20-23	INT	2
SURVEYOR	2CR	22-25	41	A/N	17-20
“C” [comment record]	3CR	1	1	CHAR	1
SURVEY DESCRIPTION	3CR	2	41	A/N	40

The C-record for Idaho contains four elements (SOURCE AGENCY, ACCEPTANCE DATE, FIELD NOTE SURSYS CODE, and SURVEYOR). These elements are written to the C-record in the order they are listed in the table, but do not have an absolute size and location. The start column for an element is two columns after the stop column for the previous element. A space separates each element in the record.

(\*1) The domain for SOURCE AGENCY is DED9125.

(\*2) ACCEPTANCE DATE format should be “DD-MMM-YYYY”.

(\*3) See Appendix B-14 “PCCS CODE” for FIELD NOTE SURSYS CODE domain.

**APPENDIX A.04B 3.2.1.6 MONTANA TOWNSHIP.SID FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
“S” [survey record]	1R	1	1	CHAR	1
SURVEY ID	1R	2	19	A/N	18
DISTANCE ERROR, CONSTANT	1R	20	26	F7.3	7
DISTANCE ERROR, PPM	1R	27	34	F8.1	8
BEARING ERROR EST	1R	35	42	F8.1	8
EASTING CNTRL ERROR EST	1R	43	51	F9.3	9
NORTHING CNTRL ERROR EST	1R	52	60	F9.3	9
“C” [comment record]	2CR	1	1	CHAR	1
SURVEY DESCRIPTION	2CR	2	41	A/N	40
SOURCE AGENCY (*1)	2CR	3-5	5-8	A/N	3-6
DOCUMENT DATE (*2)	2CR	7-10	17-20	A/N	11
SURSYS CODE (*3)	2CR	19-22	19-22	CHAR	1
SURVEYOR	2CR	21-24	41	A/N	18-21
“C” [comment record]	3CR	1	1	CHAR	1
REMARKS	3CR	2	41	A/N	40

The C-record for Montana and North Dakota contains four elements (SOURCE AGENCY, DOCUMENT DATE, SURSYS CODE, and SURVEYOR). These elements are written to the C-record in the order they are listed in the table, but do not have an absolute size and location. The start column for an element is two columns after the stop column for the previous element. A space separates each element in the record.

(\*1) The domain for SOURCE AGENCY is Appendix A in “GCDB Data Collection Attribute Definitions Version 2.0”.

(\*2) DOCUMENT DATE format should be “DD-MMM-YYYY”.

(\*3) See Appendix B-14 “Data Attribute Definition 2.0 Code” for SURSYS CODE domain.

**APPENDIX A.04C 3.2.1.6 NEW MEXICO TOWNSHIP.SID FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA TYPE	SIZE
	ROW	START	STOP		
“S” [survey record]	1R	1	1	CHAR	1
SURVEY ID	1R	2	19	A/N	18
DISTANCE ERROR, CONSTANT	1R	20	26	F7.3	7
DISTANCE ERROR, PPM	1R	27	34	F8.1	8
BEARING ERROR EST	1R	35	42	F8.1	8
EASTING CNTRL ERROR EST	1R	43	51	F9.3	9
NORTHING CNTRL ERROR EST	1R	52	60	F9.3	9
“C” [comment record] (*1)	2CR	1	1	CHAR	1
SURVEY DESCRIPTION	2CR	2	41	A/N	40
TOWNSHIP DESIGNATOR	2CR	3	11	A/N	9
COMPLETION DATE	2CR	13	16	INT	4
SURVEYOR	2CR	18	(*1)	A/N	(*1)
ORACLE COMMENT FIELD (*2)	2CR	(*1)	(*1)	A/N	(*1)

(\*1) The C-record for New Mexico contains three elements: TOWNSHIP DESIGNATOR, COMPLETION DATE, and SURVEYOR. The SURVEYOR field is of indefinite size. If a comment field exists in ORACLE, it is concatenated one space after the last character in the SURVEYOR field.

(\*2) This field may or may not be present.

**APPENDIX A.04D 3.2.1.6 OREGON AND WASHINGTON TOWNSHIP.SID FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
“S” [survey record]	1R	1	1	CHAR	1
SURVEY ID	1R	2	19	A/N	18
DISTANCE ERROR, CONSTANT	1R	20	26	F7.3	7
DISTANCE ERROR, PPM	1R	27	34	F8.1	8
BEARING ERROR EST	1R	35	42	F8.1	8
EASTING CNTRL ERROR EST	1R	43	51	F9.3	9
NORTHING CNTRL ERROR EST	1R	52	60	F9.3	9
“C” [comment record]	2CR	1	1	CHAR	1
SURVEY DESCRIPTION	2CR	2	41	A/N	40
SOURCE AGENCY (*1)	2CR	3-5	VAR	A/N	VAR
“,” [element end delimiter]	2CR	VAR	VAR	CHAR	VAR
ACCEPTANCE DATE (*2)	2CR	VAR	VAR	A/N	VAR
“,” [element end delimiter]	2CR	VAR	VAR	CHAR	VAR
SURSYS CODE (*3)	2CR	VAR	VAR	INT	VAR
“,” [element end delimiter]	2CR	VAR	VAR	CHAR	VAR
SURVEYOR	2CR	VAR	VAR	A/N	VAR

The C-record for Oregon and Washington contains four elements (SOURCE AGENCY, ACCEPTANCE DATE, SURSYS CODE, and SURVEYOR). These elements are written to the C-record in the order they are listed in the table, but do not have an absolute size and location. A comma separates each element in the record.

(\*1) The domain for SOURCE AGENCY is “Data Collection Attribute Definitions Version 2.0” Appendix A. A ”-“ may or may not exist between the state and country designator (i.e. OR-023 or OR023).

(\*2) ACCEPTANCE DATE format is “DD-MMM-YYYY”.

(\*3) See Appendix B-14 “PCCS CODE” for SURSYS CODE domain. The leading zero may or may not be present (i.e. PCCS CODE “01” may exist as “1”)



**APPENDIX A.04E 3.2.1.6**

**UTAH TOWNSHIP.SID FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
“S” [survey record]	1R	1	1	CHAR	1
SURVEY ID	1R	2	19	A/N	18
SURVEY TYPE CODE (*1)	1R	10	10	INT	1
DISTANCE ERROR, CONSTANT	1R	20	26	F7.3	7
DISTANCE ERROR, PPM	1R	27	34	F8.1	8
BEARING ERROR EST	1R	35	42	F8.1	8
EASTING CNTRL ERROR EST	1R	43	51	F9.3	9
NORTHING CNTRL ERROR EST	1R	52	60	F9.3	9
“C” [comment record]	2CR	1	1	CHAR	1
SURVEY DESCRIPTION	2CR	2	41	A/N	40
SOURCE AGENCY (*2)	2CR	3	8	A/N	6
“C” [comment record]	3CR	1	1	CHAR	1
SURVEY DESCRIPTION	3CR	2	41	A/N	40
SURVEYOR	3CR	3	40	A/N	38
“C” [comment record]	4CR	1	1	CHAR	1
SURVEY DESCRIPTION	4CR	2	41	A/N	40
ACCEPTANCE DATE (3*)	4CR	3	11	A/N	9
“C” [comment record]	5CR	1	1	CHAR	1
SURVEY DESCRIPTION	5CR		41	A/N	40

Utah has collected SURSYS as a one digit code in column 10 of each survey record (the code is part of the SURVEY ID). Utah has collected SOURCE AGENCY, SURVEYOR, and ACCEPTANCE DATE, respectively, in the first three comment records following each survey record:

(\*1) SURSYS CODE may have these values:

- 1 = original survey
- 2 = retracement survey
- 3 = dependent resurvey
- 4 = independent resurvey
- 5 = special survey

- 6 = mineral survey
- 7 = meander survey
- 8 = protraction diagram
- 9 = field control tie
- 0 = supplemental plat

(\*2) See GCDB Data Collection Attribute Definitions Version 2.0 Appendix A for SOURCE AGENCY codes.

(\*3) ACCEPTANCE DATE will usually be in the format YYYYMMDD but may sometimes be in the format YYYYMMDD.

**APPENDIX A.05 3.2.1.7 TOWNSHIP.NOT FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
COUNT OF UNWANTED POINTS	1C	1	6	INT	6
ID OF UNWANTED POINT	2CR	1	6	INT	6
COUNT OF UNWANTED LINES	3C	1	6	INT	6
FROM-CORNID OF UNWANTED LINE	4CR	1	6	INT	6
TO-CORNID OF UNWANTED LINE	4CR	8	13	INT	6

TOWNSHIP.NOT File - Sample Data

1  
340640  
1  
911020 915010

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER	1				
“ORIGIN”	2	2	7	CHAR	6
NORTH	2	12	22	F11.4	11
EAST	2	23	35	F13.4	13
X-COORDINATE (*2)	2	54	64	F11.2	11
Y-COORDINATE (*2)	2	65	74	F10.2	10
STATION/POINT ID	3R	2	7	INT	6
NORTH	3R	9	19	F11.4	11
EAST	3R	20	32	F13.4	13
STATION/PROJECT ELEV	3R	33	41	F9.2	9
NORTHING ERROR IN FEET	3R	42	45	CHAR	4
EASTING ERROR IN FEET	3R	46	50	CHAR	5
LINE COUNT	3R	51	53	INT	3
LINE TYPE	3R	54	55	INT	2
PEN COMMAND	3R	56	57	INT	2
X-COORDINATE (*2)	3R	58	68	F11.2	11
Y-COORDINATE (*2)	3R	70	80	F11.2	11
“999999” [end S-N lines; begin W-E lines]	4	2	7	INT	6
STATION/POINT ID	5R	2	7	INT	6
NORTH	5R	9	19	F11.4	11
EAST	5R	20	32	F13.4	13
STATION/PROJECT ELEV	5R	33	41	F9.2	9
NORTHING ERROR IN FEET	5R	42	45	CHAR	4
EASTING ERROR IN FEET	5R	46	50	CHAR	5
LINE COUNT	5R	51	53	INT	3
LINE TYPE	5R	54	55	INT	2

PEN COMMAND	5R	56	57	INT	2
X-COORDINATE (*2)	5R	58	68	F11.2	11
Y-COORDINATE (*2)	5R	70	80	F11.2	11
“999999” [end W-E lines; begin specials] (*3)	6	2	7	INT	6
STATION/POINT ID	7CR	2	7	INT	6
NORTH	7CR	9	19	F11.4	11
EAST	7CR	20	32	F13.4	13
STATION/PROJECT ELEV	7CR	33	41	F9.2	9
NORTHING ERROR IN FEET	7CR	42	45	CHAR	4
EASTING ERROR IN FEET	7CR	46	50	CHAR	5
LINE COUNT	7CR	51	53	INT	3
LINE TYPE (*4)	7CR	54	55	INT	2
PEN COMMAND (*5)	7CR	56	57	INT	2
X-COORDINATE (*2)	7CR	58	68	F11.2	11
Y-COORDINATE (*2)	7CR	70	80	F11.2	11
“999999” [end specials]	8C	2	7	INT	6

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers; no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) X, Y COORDINATES may be UTM, State Plane, or Map inches.

(\*3) The LX file may end with Row 6 if no special surveys exist for the township.

(\*4) LINE TYPE may have these values:

0 = Section/Township/Special-survey line

1 = 20-Chain line

2 = 40-Chain line

3 = 60-Chain line

4 = Blank Line (dashed)

(\*5) PEN COMMAND may have these values:

1 = Store point

2 = Pen down [begin line]

3 = Continue

4 = Pen up [end line].

TOWNSHIP.LX-File - Sample Data

TWP 08S	RNG 51W	PM	Umiat Alaska(AK)	DATE	09/25/91
ORIGIN	684500.0000	1635700.000	200.00 0 0 0 0	2	542470.547626668.94
100100	684156.7200	1640835.8097	200.00 40 40 1 0	2	534732.287620871.34
100120	684209.7044	1640835.8065	200.00 40 40 1 0	3	534726.727621273.48
100140	684222.6888	1640835.8032	200.00 40 40 1 0	3	534726.157621675.62
100160	684235.6732	1640835.8000	200.00 40 40 1 0	3	534715.597622077.76
100200	684248.6577	1640835.7967	200.00 40 40 1 0	3	534710.027622479.90
100220	684301.6421	1640835.7911	200.00 40 40 1 0	3	534704.487622882.04
100240	684314.6265	1640835.7854	200.00 40 40 1 0	3	534698.947623284.18
100260	684327.6109	1640835.7798	200.00 40 40 1 0	3	534693.407623686.32
100300	684340.5953	1640835.7742	200.00 40 40 1 0	3	534687.867624088.46
100320	684353.5796	1640835.7674	200.00 40 40 1 0	3	534682.337624490.60
100340	684406.5640	1640835.7606	200.00 40 40 1 0	3	534676.807624892.74
100360	684419.5484	1640835.7537	200.00 40 40 1 0	3	534671.287625294.88
100400	684432.5328	1640835.7469	200.00 40 40 1 0	3	534665.757625697.02
100420	684445.5171	1640835.7399	200.00 40 40 1 0	3	534660.227626099.16
100440	684458.5015	1640835.7329	200.00 40 40 1 0	3	534654.707626501.30
100460	684511.4859	1640835.7260	200.00 40 40 1 0	3	534649.177626903.44
100500	684524.4702	1640835.7190	200.00 40 40 1 0	3	534643.647627305.58
100520	684537.4546	1640835.7127	200.00 40 40 1 0	3	534638.117627707.72
100540	684550.4389	1640835.7065	200.00 40 40 1 0	3	534632.577628109.86
100560	684603.4233	1640835.7003	200.00 40 40 1 0	3	534627.047628512.00
100600	684616.4076	1640835.6940	200.00 40 40 1 0	3	534621.507628914.14
100616	684627.7236	1640835.6932	200.00 40 40 1 0	3	534616.637629264.61
100620	684629.3919	1640835.6929	200.00 40 40 1 0	3	534615.917629316.28
100640	684642.3761	1640835.6917	200.00 40 40 1 0	3	534610.327629718.42
100646	684646.6410	1640835.6910	200.00 40 40 1 0	3	534608.487629850.50
100660	684655.3600	1640835.6905	200.00 40 40 1 0	3	534604.727630120.54
100700	684708.3445	1640835.6894	200.00 40 40 1 0	4	534599.137630522.69
.700620	684629.3918	1635418.7095	200.00 40 40 25 0	3	544233.277629468.97
700640	684642.3761	1635418.7093	200.00 40 40 25 0	3	544226.117629871.09
700660	684655.3604	1635418.7092	200.00 40 40 25 0	3	544218.947630273.21

700700	684708.3446	1635418.7091	200.00	40	40	25	0	4	544211.787630675.32
999999				0	0	0	0	9	0.00 0.00
100100	684156.7200	1640835.8097	200.00	40	40	1	0	2	534732.287620871.34
120100	684156.7200	1640800.1349	200.00	40	40	1	0	3	535134.017620876.97
140100	684156.7200	1640724.4601	200.00	40	40	1	0	3	535535.737620882.67
640700	684708.3446	1635530.3948	200.00	40	40	25	0	3	543407.717630661.13
660700	684708.3446	1635454.5519	200.00	40	40	25	0	3	543809.757630668.19
700700	684708.3446	1635418.7091	200.00	40	40	25	0	4	544211.787630675.32
999999				0	0	0	0	9	0.00 0.00
100616	684627.7236	1640835.6932	200.00	40	40	1	0	2	534616.637629264.61
900005	684627.5713	1640834.2671	200.00	40	40	1	0	3	534632.707629260.12
900010	684626.8314	1640822.1296	200.00	40	40	1	0	3	534769.237629239.11
900020	684620.6242	1640759.3713	200.00	40	40	1	0	3	535027.367629050.45
900030	684618.0920	1640743.7754	200.00	40	40	1	0	3	535203.527628974.50
900040	684619.2968	1640741.6574	200.00	40	40	1	0	3	535226.767629012.15
900050	684629.8759	1640723.0592	200.00	40	40	1	0	3	535430.837629342.77
100646	684646.6410	1640835.6910	200.00	40	40	1	0	4	534608.487629850.50
999999				0	0	0	0	9	0.00 0.00

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
“SEC_/Sec_”	1R	1	4	CHAR	4
SECTN	1R	5	6	A/N	3
FRSTSF (*1)	1R	7	7	A/N	1
SEC NO SPECIAL (*1a)	1R	7	7	A/N	1
NOMINAL LOCATION (*2)	1R	9	9	CHAR	1
“T ”	1R	11	12	CHAR	2
SURSYS (*6)	1R	13	13	CHAR	1
SURNUM (*3)	1R	15	19	A/N	5
SURNUM(SUFFIX) (*3)	1R	20	21	A/N	2
“N ” (*3)	1R	23	24	CHAR	2
SURNUM (NOTE) (*3)	1R	25	25	CHAR	1
ACREAGE	1R	27	35	F9.3	9
“.”	1R	36	36	CHAR	1
“M”	1R	38	38	CHAR	1
PRINMER_CD (*4)	1R	39	40	A/N	2
“T”	1R	41	41	CHAR	1
TOWN	1R	42	44	A/N	3
TWNFRT/TIER DUP_CD (*5)	1R	45	45	A/N	1
TWNDIR	1R	46	46	CHAR	1
“R”	1R	47	47	CHAR	1
RANGE	1R	48	50	INT	3
RNGFRT/RANGE DUP_CD (*5)	1R	51	51	A/N	1
RNGDIR	1R	52	52	CHAR	1
NORTH	1R	54	64	F11.4	11
EAST	1R	66	77	F12.4	12

(\*1) Alpha characters other than ‘A’, ‘B’, or ‘U’ in column 7, result in an E4 error being reported. For example, Section 12 = 012, and Section 12 duplicate = 12A.

(\*1a) May be alpha numeric part of the SECTN or may be the section duplicate code.

(\*2) See Appendix B.01, Nominal Locations.

(\*3) These fields may or may not be populated.



(\*4) See Appendix B.02, Principal Meridians.

(\*5) See Appendix B.11, Tier/Range Codes.

(\*6) See Appendix B.15, Survey

TOWNSHIP.AN File - Sample Data

SEC_031 A T_A	40.000; MO6T0070SR0980W	394430.2829	1071155.7398
SEC_031 B T_A	40.000; MO6T0070SR0980W	394430.2829	1071212.7398
SEC_031 C T_A	40.000; MO6T0070SR0980W	394412.2829	1071212.7398
SEC_031 D T_A	40.000; MO6T0070SR0980W	394412.2829	1071155.7398
SEC_031 J T_L 2	41.300; MO6T0070SR0980W	394400.2829	1071245.7398
SEC_031 K T_L 1	41.330; MO6T0070SR0980W	394345.2829	1071245.7398

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER (*1)	1				
“ORIGIN”	2	2	7	CHAR	6
NORTH	2	11	22	F12.4	12
EAST	2	23	35	F13.4	13
ELEV (*2)	2	36	44	F9.3	9
“0”	2	48	48	INT	1
“0”	2	53	53	INT	1
“2000.0000”	2	56	65	F10.4	10
“5000.0000”	2	66	75	F10.4	10
CONTROL CORNNO	3R	2	7	INT	6
NORTH	3R	11	22	F12.4	12
EAST	3R	23	35	F13.4	13
ELEV (*2)	3R	36	44	F9.3	9
AVERAGE RELIABILITY	3R	46	48	INT	3
MAXIMUM RELIABILITY	3R	50	53	INT	4
TANGENT PLANE X-COORDINATE	3R	55	64	F10.4	10
TANGENT PLANE Y-COORDINATE	3R	65	74	F10.4	10

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content nor format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers, no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) ELEV values may have only two places after the decimal point rather than the standard three places. ELEVS having 2 decimal places are right-justified within the elev field. The positions of other elements in the file are not affected.

CTOWNSHIP File - Sample Data

TWP 112N	RNG 103W	PM Fairbanks	Alaska(AK)	DATE 10/26/94
ORIGIN	661500.0000	1073500.0000	5000.000 0	0 2000.0000 5000.0000
100100	661548.7630	1073724.9460	5000.000 10	25 1910.0384 5075.1329
100300	664248.2310	1074218.2450	5000.000 10	25 1732.8606 7569.6907
600600	665818.5640	1074224.5690	5000.000 10	25 1731.8454 9002.6111
700700	665920.3321	1074236.6610	5000.000 10	25 1734.6627 9052.2314

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER (*1)	1				
“ORIGIN”	2	2	7	CHAR	6
NORTH	2	12	22	F11.4	11
EAST	2	23	35	F13.4	13
GRAPHICAL X-ORIGIN OF SW	2	42	44	F3.1	3
GRAPHICAL Y-ORIGIN OF SW	2	48	53	F6.4	6
X-COORDINATE (*2)	2	54	64	F11.2	11
Y-COORDINATE (*2)	2	65	74	F10.2	10
CORNID	3R	2	7	INT	6
NORTH	3R	9	19	F11.4	11
EAST	3R	20	32	F13.4	13
ELEV	3R	33	41	F9.2	9
AVERAGE RELIABILITY	3R	42	45	INT	4
MAXIMUM RELIABILITY	3R	46	50	INT	5
LINE COUNT	3R	51	53	INT	3
LINE TYPE	3R	54	55	INT	2
PEN COMMAND	3R	56	57	INT	2
X-COORDINATE (*2)	3R	58	68	F11.2	11
Y-COORDINATE (*2)	3R	70	80	F11.2	11
“999999” [end S-N LINES; begin W-E	4	2	7	INT	6
CORNID	5R	2	7	INT	6
NORTH	5R	9	19	F11.4	11
EAST	5R	20	32	F13.4	13
ELEV	5R	33	41	F9.2	9
AVERAGE RELIABILITY	5R	42	45	INT	4
MAXIMUM RELIABILITY	5R	46	50	INT	5
LINE COUNT	5R	52	53	INT	2
LINE TYPE	5R	55	55	INT	1
PEN COMMAND	5R	57	57	INT	1
X-COORDINATE (*2)	5R	58	68	F11.2	11
Y-COORDINATE (*2)	5R	70	80	F11.2	11

ELEMENT NAME	ROW & ELEMENT POSITION			DATA TYPE	SIZE
	ROW	START	STOP		
“999999” [end W-E lines; begin specials] (*3)	6	2	7	INT	6
CORNID	7CR	2	7	INT	6
NORTH	7CR	9	19	F11.4	11
EAST	7CR	20	32	F13.4	13
ELEV	7CR	33	41	F9.2	9
AVERAGE RELIABILITY	7CR	42	45	INT	4
MAXIMUM RELIABILITY	7CR	46	50	INT	5
LINE COUNT	7CR	52	53	INT	2
LINE TYPE (*4)	7CR	55	55	INT	1
PEN COMMAND (*5)	7CR	57	57	INT	1
X-COORDINATE (*2)	7CR	58	68	F11.2	11
Y-COORDINATE (*2)	7CR	70	80	F11.2	11
“999999” [end specials]	8	2	7	INT	6

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers; no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) X,Y COORDINATES will be UTM with the exception of Oregon, which will be State Plane.

(\*3) The LX file may end with Row 6 if no special surveys exist for the township.

(\*4) LINE TYPE may have these values:

0 = Section/Township/Special-survey line

1 = 20-Chain line

2 = 40-Chain line

3 = 60-Chain line

4 = Blank Line (dashed)

(\*5) PEN COMMAND may have these values:

1 = Store point

2 = Pen down [begin line]

3 = continue

4 = Pen up [end line]

Oregon structures their LX\_TOWNSHIP file in the following format:

Header Information

999999

South to North Section Lines

999999

West to East Section Lines

999999

Section Subdivisional Lines

Special Surveys

999999

Points

999999

Points

999999

LXTOWNSHIP File - Sample Data

TWP T09S	RNG R90W	PM	6 th	Colorado(CO)	DATE	91/01/15
ORIGIN	391600.0000	1072700.0000	.00	0 0 0 0 0	288630.44	4349022.28
100100	391319.6006	1072932.0156	9200.00	40 40 1 0 2	284850.78	4344176.39
100120	391332.6281	1072932.0021	9200.00	40 55 1 0 3	284862.16	4344578.04
100140	391345.6553	1072931.9882	9200.00	38 55 1 0 3	284873.55	4344979.68
100160	391358.6827	1072931.9747	9200.00	38 55 1 0 3	284884.93	4345381.33
100200	391411.7099	1072931.9608	9200.00	38 55 1 0 3	284896.32	4345782.97
100220	391424.7372	1072931.9473	9200.00	38 55 1 0 3	284907.70	4346184.62
100240	391437.7644	1072931.9334	9200.00	38 55 1 0 3	284919.10	4346586.26
100260	391450.7917	1072931.9198	9200.00	38 55 1 0 3	284930.48	4346987.91
100300	391503.8190	1072931.9059	9200.00	38 55 1 0 3	284941.88	4347389.56
100320	391516.8463	1072931.8923	9200.00	38 55 1 0 3	284953.26	4347791.21
100323	391522.3633	1072931.8864	9200.00	38 55 1 0 3	284958.09	4347961.30
100340	391529.8735	1072931.8785	9200.00	38 55 1 0 3	284964.66	4348192.85
100343	391530.9873	1072931.8773	9200.00	38 55 1 0 3	284965.63	4348227.19
100360	391542.9008	1072931.8649	9200.00	38 55 1 0 3	284976.05	4348594.50
100400	391555.9280	1072931.8511	9200.00	38 55 1 0 3	284987.44	4348996.14
100420	391608.9552	1072931.8375	9200.00	38 55 1 0 3	284998.83	4349397.79
100440	391621.9824	1072931.8237	9200.00	38 55 1 0 3	285010.23	4349799.44
100460	391635.0096	1072931.8101	9200.00	38 55 1 0 3	285021.62	4350201.08
100500	391648.0368	1072931.7963	9200.00	38 55 1 0 3	285033.02	4350602.73
100520	391701.0640	1072931.7827	9200.00	38 55 1 0 3	285044.41	4351004.37

100540	391714.0912	1072931.7688	9200.00	38	55	1	0	3	285055.82	4351406.02
100560	391727.1183	1072931.7553	9200.00	38	55	1	0	3	285067.21	4351807.66
100600	391740.1455	1072931.7414	9200.00	38	55	1	0	3	285078.61	4352209.31
100620	391753.1726	1072931.7279	9200.00	38	55	1	0	3	285090.01	4352610.95
100640	391806.1998	1072931.7140	9200.00	38	55	1	0	3	285101.41	4353012.60
100660	391819.2270	1072931.7003	9200.00	38	55	1	0	3	285112.81	4353414.25
100700	391833.9346	1072931.6848	9200.00	40	40	1	0	4	285125.69	4353867.71
104100	391319.6284	1072921.1558	9200.00	24	46	1	0	1	285111.26	4344170.08
104700	391833.8800	1072921.9845	9200.00	190	501	1	0	1	285358.00	4353859.62
117700	391833.8300	1072913.1189	9200.00	190	501	1	0	1	285570.31	4353852.23
120100	391319.6712	1072904.4483	9200.00	24	46	2	1	1	285511.99	4344160.39
120700	391833.7859	1072905.2885	9200.00	190	501	2	1	1	285757.84	4353845.71
137700	391833.7360	1072856.4230	9200.00	190	501	2	1	1	285970.16	4353838.34
140100	391319.7140	1072847.7409	9200.00	24	46	3	2	1	285912.72	4344150.73
140700	391833.6919	1072848.5926	9200.00	190	501	3	2	1	286157.68	4353831.83
160700	391833.5979	1072831.8967	9200.00	190	501	4	3	1	286557.52	4353817.97
197700	391833.5479	1072823.0311	9200.00	190	501	4	3	1	286769.84	4353810.61
200100	391319.7995	1072814.3260	9200.00	40	40	5	0	2	286714.18	4344131.46
200200	391411.8828	1072814.5366	9200.00	190	501	5	0	3	286752.95	4345737.42
200300	391503.9165	1072814.6567	9200.00	190	501	5	0	3	286793.87	4347341.79
200400	391555.9229	1072814.7695	9200.00	190	501	5	0	3	286834.95	4348945.31
200500	391647.9036	1072814.9014	9200.00	190	501	5	0	3	286875.56	4350548.06
200600	391739.8687	1072815.0459	9200.00	190	501	5	0	3	286915.88	4352150.34
200700	391833.5038	1072815.2007	9200.00	190	501	5	0	4	286957.37	4353804.12
220700	391833.4098	1072758.5048	9200.00	190	501	6	1	1	287357.21	4353790.30
237700	391833.3599	1072749.6393	9200.00	190	501	6	1	1	287569.53	4353782.97
240100	391319.8846	1072740.9089	9200.00	24	46	7	2	1	287515.70	4344112.26
240700	391833.3158	1072741.8089	9200.00	190	501	7	2	1	287757.05	4353776.50
260700	391833.2217	1072725.1129	9200.00	190	501	8	3	1	288156.90	4353762.72
297700	391833.1718	1072716.2474	9200.00	190	501	8	3	1	288369.21	4353755.41
999999				0	0	0	0	0	9	0.000.00
100100	391319.6006	1072932.0156	9200.00	40	40	1	0	2	284850.78	4344176.39
104100	391319.6284	1072921.1558	9200.00	24	46	1	0	3	285111.26	4344170.08

120100	391319.6712	1072904.4483	9200.00	24	46	1	0	3	285511.99	4344160.39
140100	391319.7140	1072847.7409	9200.00	24	46	1	0	3	285912.72	4344150.73
200100	391319.7995	1072814.3260	9200.00	40	40	1	0	3	286714.18	4344131.46
240100	391319.8846	1072740.9089	9200.00	24	46	1	0	3	287515.70	4344112.26
300100	391319.9696	1072707.4918	9200.00	40	40	1	0	3	288317.21	4344093.14
340100	391320.0885	1072633.7267	9200.00	24	46	1	0	3	289127.09	4344074.92
400100	391320.2074	1072559.9616	9200.00	40	40	1	0	3	289936.97	4344056.78
420100	391320.2237	1072543.1881	9200.00	40	47	1	0	3	290339.26	4344046.48
440100	391320.2394	1072526.4145	9200.00	26	47	1	0	3	290741.55	4344036.19
460100	391320.2557	1072509.6409	9200.00	40	47	1	0	3	291143.84	4344025.93
500100	391320.2714	1072452.8673	9200.00	40	40	1	0	3	291546.13	4344015.68
520100	391320.3160	1072436.1064	9200.00	40	47	1	0	3	291948.14	4344006.35
540100	391320.3600	1072419.3453	9200.00	26	47	1	0	3	292350.16	4343997.02
560100	391320.4045	1072402.5844	9200.00	40	47	1	0	3	292752.16	4343987.72
600100	391320.4485	1072345.8232	9200.00	40	40	1	0	3	293154.18	4343978.43
620100	391320.4758	1072329.0497	9200.00	40	47	1	0	3	293556.47	4343968.64
640100	391320.5026	1072312.2759	9200.00	26	47	1	0	3	293958.78	4343958.85
660100	391320.5297	1072255.5023	9200.00	26	47	1	0	3	294361.07	4343949.10
700100	391320.5563	1072239.0138	9200.00	40	40	1	0	4	294756.53	4343939.53
700103	391323.2924	1072239.0567	9200.00	20	40	1	0	1	294757.72	4344023.91
100120	391332.6281	1072932.0021	9200.00	40	55	2	1	1	284862.16	4344578.04
400120	391333.2592	1072559.9719	9200.00	40	40	2	1	2	289947.54	4344459.19
420120	391333.2699	1072543.1955	9200.00	40	47	2	1	3	290349.87	4344448.72
440120	391333.2798	1072526.4191	9200.00	26	47	2	1	3	290752.21	4344438.25
460120	391333.2898	1072509.6427	9200.00	40	47	2	1	3	291154.54	4344427.80
500120	391333.2991	1072452.8663	9200.00	40	40	2	1	3	291556.87	4344417.34
520120	391333.3376	1072436.1067	9200.00	40	47	2	1	3	291958.82	4344407.82
540120	391333.3754	1072419.3472	9200.00	26	47	2	1	3	292360.77	4344398.30
560120	391333.4132	1072402.5876	9200.00	40	47	2	1	3	292762.72	4344388.80
600120	391333.4503	1072345.8280	9200.00	40	40	2	1	3	293164.67	4344379.30
620120	391333.4853	1072329.0557	9200.00	40	47	2	1	3	293566.92	4344369.74
640120	391333.5195	1072312.2835	9200.00	26	47	2	1	3	293969.17	4344360.19
660120	391333.5538	1072255.5008	9200.00	40	47	2	1	3	294371.67	4344350.65



700120	391333.5862	1072239.3916	9200.00	20	40	2	1	4	294758.02	4344341.49
700123	391336.0807	1072239.4728	9200.00	20	40	2	1	1	294758.09	4344418.45
100140	391345.6553	1072931.9882	9200.00	38	55	3	2	1	284873.55	4344979.68
999999				0	0	0	0	9	0.00	0.00
918010	391530.9873	1072931.8773	9200.00	38	55	1	0	2	284965.63	4348227.19
918020	391529.5996	1072928.7557	9200.00	190	501	1	0	3	285039.28	4348182.34
918030	391522.3070	1072928.9854	9200.00	190	501	1	0	3	285027.58	4347957.65
918040	391522.3633	1072931.8864	9200.00	38	55	1	0	4	284958.09	4347961.30
999999				0	0	0	0	9	0.00	0.00

**APPENDIX A.10 3.2.2.5 RTOWNSHIP FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER (*1)	1				
CONTROL CORNNO	2CR	1	6	INT	6
NORTH	2CR	10	19	F10.3	10
EAST	2CR	23	33	F11.3	11
ELEV (*2)	2CR	37	44	F8.3	8
CONTROL SOURCE CODE [document type]	2CR	47	48	A/N	2
CONTROL RELIABILITY CODE [coord. determ. process]	2CR	50	51	A/N	2
“999999”	3	1	6	INT	6
POINT FROM	4R	1	6	INT	6
POINT TO	4R	10	15	INT	6
DISTANCE	4R	17	24	F8.3	8
QUADRANT	4R	27	27	INT	1
DIRECTION/BEARING	4R	31	37	F7.0	7
SOURCE ID (*3)	4R	40	49	A/N	10
“999998”	5	1	6	INT	6

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers, no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) Elev values may have only two places after the decimal point rather than the standard three places. ELEVS having two decimal places are right-justified within the elev field. The positions of other elements in the file are not affected.

(\*3) This field may or may not be populated.

RTOWNSHIP File - Sample Data

TWP 112N RNG 103W PM Fairbanks Alaska(AK) DATE 9/10/94  
 100100 661548.763 1073724.946 5000.000 40 16  
 100300 664248.231 1074218.245 5000.000 40 16

.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.
600600	665818.564	1074224.569	5000.000	40	16
500400	665212.321	1074516.256	5000.000	40	16
999999					
100100	100200	80.000	1	100.	0123456789
100200	100300	80.000	1	100.	0123456789
100300	100400	80.000	1	100.	0123456789
100400	100500	80.000	1	100.	0123456789
100500	100600	80.000	1	100.	0123456789
100600	100640	40.000	1	100.	0123456789
100640	100660	20.000	1	100.	0123456789
100660	100700	18.240	1	100.	0123456789
200100	200200	80.000	1	400.	2345678999
200200	200300	80.000	1	400.	2345678999
200300	200400	80.000	1	400.	2345678999
200400	200500	80.000	1	400.	2345678999
200500	200600	80.000	1	400.	2345678999
200600	200640	40.000	1	400.	2345678999
200640	200660	20.000	1	400.	2345678999
200660	200700	18.340	1	100.	2345678999
.	.	.	.	.	.
.	.	.	.	.	.
.	.	.	.	.	.
700640	700660	20.000	1	400.	2345678999
700660	700700	18.340	1	100.	2345678999
999998					

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER (*1)	1				
Q-FILE RECORD TYPE	2	1	1	INT	1
COORDINATE SYSTEM CODE	2	3	6	CHAR	4
COORDINATE SYSTEM DESCRIPTION	2	8	48	A/N	41
DATA ELEMENT DICTIONARY CODE	2	50	56	A/N	7
Q-FILE RECORD TYPE	3	1	1	INT	1
COORDINATE SYSTEM INDEX CODE	3	3	6	A/N	4
COORDINATE SYSTEM INDEX DESCRIPTION	3	8	48	A/N	41
DATA ELEMENT DICTIONARY CODE	3	50	56	A/N	7
Q-FILE RECORD TYPE	4	1	1	INT	1
DIRECTION/BEARING UNITS CODE	4	3	6	CHAR	4
DIRECTION/BEARING UNITS DESCRIPTION	4	8	48	CHAR	41
DATA ELEMENT DICTIONARY CODE	4	50	56	A/N	7
Q-FILE RECORD TYPE	5	1	1	INT	1
DISTANCE UNITS CODE	5	3	6	CHAR	1
DISTANCE UNITS DESCRIPTION	5	8	48	CHAR	41
DATA ELEMENT DICTIONARY CODE	5	50	56	A/N	7
Q-FILE RECORD TYPE	6	1	1	INT	1
ELEV DATUM CODE	6	3	6	CHAR	4
ELEV DATUM DESCRIPTION	6	8	48	A/N	41

ELEMENT NAME	ROW & ELEMENT POSITION			DATA TYPE	SIZE
	ROW	START	STOP		
DATA ELEMENT DICTIONARY CODE	6	50	56	A/N	7
Q-FILE RECORD TYPE	7	1	1	INT	1
ELEV DETERMINATION PROCESS CODE	7	3	6	A/N	4
ELEV DETERMINATION PROCESS DESCRIPTION	7	8	48	A/N	41
DATA ELEMENT DICTIONARY CODE	7	50	56	A/N	7
Q-FILE RECORD TYPE	8	1	1	INT	1
HORIZONTAL DETERMINATION PROCESS CODE	10	3	6	A/N	4
HORIZONTAL DETERMINATION PROCESS DESCRIPTION	10	8	48	A/N	41
DATA ELEMENT DICTIONARY CODE	10	50	56	A/N	7
Q-FILE RECORD TYPE	11	1	1	INT	1
POSITION DETERMINATION PROCESS CODE	11	3	6	A/N	4
POSITION DETERMINATION PROCESS DESCRIPTION	11	8	48	A/N	41
DATA ELEMENT DICTIONARY CODE	11	50	56	A/N	7
Q-FILE RECORD TYPE	12	1	1	INT	1
REFERENCE MERIDIAN CODE	12	3	6	CHAR	4
REFERENCE MERIDIAN DESCRIPTION	12	8	48	CHAR	41
DATA ELEMENT DICTIONARY CODE	12	50	56	A/N	7
Q-FILE RECORD TYPE	13	1	1	INT	1
TOWNSHIP	13	3	7	A/N	5

ELEMENT NAME	ROW & ELEMENT POSITION			DATA TYPE	SIZE
	ROW	START	STOP		
TOWNSHIP DESCRIPTION	13	9	48	A/N	40
DATA ELEMENT DICTIONARY CODE	13	50	56	A/N	7
Q-FILE RECORD TYPE	14	1	1	INT	1
RANGE	14	3	7	A/N	5
RANGE DESCRIPTION	14	9	48	A/N	40
DATA ELEMENT DICTIONARY CODE	14	50	56	A/N	7
Q-FILE RECORD TYPE	15CR	1	1	INT	1
PRIMARY PCCS POINT IDENTIFIER	15CR	3	8	INT	6
SECONDARY PCCS POINT IDENTIFIER	15CR	10	15	INT	6
Q-FILE RECORD TYPE	16CR	1	1	INT	1
PCCS POINT IDENTIFIER	16CR	3	8	INT	6
SECTION IDENTIFIER	16CR	17	19	INT	3
CORNER CLASSIFICATION [primary corner name] (*3)	16CR	21	22	INT	2
CORNER CLASSIFICATION [corner status] (*3)	16CR	23	23	A/N	1
CORNER CLASSIFICATION [qualifying corner attribute] (*3)	16CR	24	24	A/N	1
CORNER CLASSIFICATION [geopolitical boundary attribute] (*3)	16CR	25	25	A/N	1

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers, no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) See Appendix B.10, Hdatum Codes.

(\*3) See Appendix B.12, Corner Classification Codes.

QTOWNSHIP File - Sample Data

TWP 500N RNG 052W PM New Mexico Colorado(CO) DATE 1/17/92

1 C	Geographic North/East	DED9021
1 W	West	DED9022
1 A	Deg-Min-Sec DDDmmss.ss (PCCS)	DED9046
1 A	Chains - ground	DED9049
1 A	Ntl Geodetic Vdatum 1929	DED9062
1 31	BLM - PCCS Program	DED9063
1 F	Feet	DED9064
1 A	NAD 27	DED9075
1 31	BLM - PCCS Program	DED9076
1 31	BLM - PCCS Program	DED9107
1 I	Astronomic (true) mean from North	DED9114
1	5000N full (not a fractional) township	DED1695
1	0520W full (not a fractional) range	DED1699
2	836050 840010	
2	836040 839010	
2	836030 838010	
2	836020 837010	
2	500100 836010	
2	600100 837020	
2	620100 838020	
2	640100 839020	
2	660100 840020	
2	700100 836080	
3	598600 001 180C0	
3	600598 001 180C0	
3	600614 001 070C0	
3	600620 001 210C0	
3	600640 001 170C0	
3	600660 001 210C0	
3	600700 001 180B0	
3	618600 001 210C0	

3 620700	001 210B0
3 638600	001 170C0
3 640598	001 170C0
3 640700	001 170B0
3 658600	001 210C0
3 660700	001 210B0
3 700600	001 180B0
3 700606	001 070B0
3 700609	001 210B0
3 700614	001 070B0
3 700617	001 210B0
3 700620	001 210B0
3 700637	001 070B0
3 700640	001 170B0
3 700657	001 210B0
3 700660	001 210B0
3 700661	001 210B0
3 700700	001 220B0
3 500600	002 180C0
3 500620	002 210C0



**APPENDIX A.12**

**3.2.2.7**

**ZTOWNSHIP FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER (*1)	1				
SOURCE ID	2R	3	12	A/N	10
SUBJECTIVE RELIABILITY REMARKS (*2)	2R	15	19	A/N	5
SOURCE DOCUMENT AGENCY (*3)	2R	22	27	A/N	6
SOURCE DOCUMENT DATE	2R	30	40	A/N	11
SURVEY PROCEDURE CODE	2R	43	44	INT	2

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers; no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) The SUBJECTIVE RELIABILITY REMARKS field may or may not be populated.

(\*3) See reference document "GCDB Attributes, Version 2.0 Appendix A".

ZTOWNSHIP File - Sample Data

TWP 14N	RNG 04E	PM Boise	Idaho(ID)	DATE
				9/10/94
1880		BLM 01-MAY-1880	01	Warren, Thomas L.
1968	9999	BLM 08-JUN-1968	02	Ward, Fred W.
1942	99999	BLM 15-DEC-1942	02	Sibley, Eldon W.

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILE HEADER (*1)	1				
SOURCE ID	2R	1	9	A/N	9
SUBJECTIVE RELIABILITY REMARKS (*2)	2R	10	14	A/N	5
SOURCE DOCUMENT AGENCY (*3)	2R	17	22	A/N	6
SOURCE DOCUMENT DATE	2R	25	35	A/N	11
SURVEY PROCEDURE CODE	2R	38	39	INT	2
SURVEYOR	2R	42	76	A/N	35

(\*1) The first row of this file contains header information. While the file headers of PCCS and GMM files are not standardized for content or format, they typically contain values for township, range, principal meridian, name of state, and date. Because of the inconsistent nature of the data contained in these file headers, no information will be extracted from them for purposes of data conversion. This information will instead be extracted from LLD attributed files (LINK, QLINK, and GLINK).

(\*2) The SUBJECTIVE RELIABILITY REMARKS field may or may not be populated.

(\*3) See reference document "GCDB Attributes, Version 2.0 Appendix A".

ALTERNATE ZTOWNSHIP FILE - Sample Data

TWP 3S	RNG 45E	PM Willamette	Oregon (OR)	DATE
				91/09/06
2	BLM	21-MAR-1882	01 MOORE, R & THOMPSON	
1	BLM	07-FEB-1868	01 GRAY, J & ODELL	
3	OR-063	01-APR-1972	02 AUGHENBAUGH, W R	
5	OR-063	19-SEP-1985	02 BURRIS, J W	
7	OR-063	22-NOV-1989	02 BLACKMAN, G T	
4	OR-063	01-OCT-1978	02 GRIFFITH, D I	
6	OR-063	26-APR-1988	02 GRIFFITH, D I	
8	BLM	22-NOV-1893	02 COLE, W P	
9	BLM	18-MAR-1882	02 MELDRUM, H & CAMPBELL	

**APPENDIX A.13 3.2.3.3 LQTOWNSHIP FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
FILENAME	1	1	13	A/N	13
DATE TIME STAMP	1	27	42	A/N	16
“UTM ZONE =”/”STATE PLAN”	1	45	54	CHAR	10
ZONE NUMBER (*1)	1	56	59	INT	4
“SEC_”	2R	1	4	CHAR	4
SECTION	2R	5	7	A/N	3
NOMINAL LOCATION (*2)	2R	9	9	CHAR	1
“T_”	2R	11	12	CHAR	2
SURSYS (*6)	2R	13	13	CHAR	1
SURNUM (*3)	2R	15	19	A/N	5
SURNUM (SUFFIX) (*3)	2R	20	21	A/N	2
“N_” (*3)	2R	23	24	CHAR	2
SURNUM (NOTE) (*3)	2R	25	25	CHAR	1
ACREAGE	2R	27	35	F9.3	9
“.” ”	2R	36	36	CHAR	1
“M”	2R	38	38	CHAR	1
MERIDIAN (*4)	2R	39	40	A/N	2
“T”	2R	41	41	CHAR	1
TOWNSHIP (*5)	2R	42	46	A/N	5
“R”	2R	47	47	CHAR	1
RANGE (*5)	2R	48	52	A/N	5
NORTH	2R	54	64	F11.4	11
EAST	2R	66	77	F12.4	12

(\*1) If two digits then ZONE NUMBER is a UTM ZONE. If four digits then ZONE NUMBER is a STATE PLANE ZONE.

(\*2) See Appendix B.01, Nominal Locations.

(\*3) These fields may or may not be populated.

(\*4) See Appendix B.02, Principal Meridians.

(\*5) See Appendix B.11, Tier/Range Codes.

(\*6) See Appendix B.15, SURSYS

LQTOWNSHIP File - Sample Data

LQT0030S0870W		01/18/9512:17:22	UTM_ZONE = 13
SEC_031 L T_L_8		15.630;M06T0030SR0870W	394436.8300 1071215.8800
SEC_031 I T_L_7		15.640;M06T0030SR0870W	394449.9000 1071215.8400
SEC_031 H T_L_6		15.660;M06T0030SR0870W	394502.9600 1071215.7700
SEC_031 E T_L_5		15.670;M06T0030SR0870W	394516.0300 1071215.7100
SEC_030 L T_L_8		15.650;M06T0030SR0870W	394529.0700 1071215.6700
SEC_030 I T_L_7		15.590;M06T0030SR0870W	394542.0800 1071215.6500
SEC_030 H T_L_6		5.530;M06T0030SR0870W	394555.0800 1071215.6600
SEC_030 E T_L_5		15.470;M06T0030SR0870W	394608.1100 1071215.6500
SEC_019 L T_L_9		15.440;M06T0030SR0870W	394621.1100 1071215.6600
SEC_019 I T_L_8		15.450;M06T0030SR0870W	394634.1200 1071215.6500
SEC_019 H T_L_7		15.450;M06T0030SR0870W	394647.1200 1071215.6300
SEC_019 E T_L_6		15.460;M06T0030SR0870W	394700.1500 1071215.6200
SEC_018 L T_L_12		2.920;M06T0030SR0870W	394712.7600 1071216.0900
SEC_018 L T_T_43	N_A	117.120;M06T0030SR0870W	394712.7600 1071216.0900
SEC_018 I T_L_11		4.180;M06T0030SR0870W	394726.5600 1071215.7900
SEC_018 I T_T_43	N_A	117.120;M06T0030SR0870W	394726.5600 1071215.7900
SEC_018 H T_L_6		15.420;M06T0030SR0870W	394739.1700 1071215.5800
SEC_018 E T_L_5		15.410;M06T0030SR0870W	394752.1700 1071215.5600
SEC_007 L T_L_8		15.410;M06T0030SR0870W	394805.2000 1071215.5500
SEC_007 I T_L_7		5.430;M06T0030SR0870W	394818.2200 1071215.5800
SEC_007 H T_L_6		15.460;M06T0030SR0870W	394831.2700 1071215.5700
SEC_007 E T_L_5		15.490;M06T0030SR0870W	394844.2900 1071215.5800
SEC_006 L T_L_19		5.510;M06T0030SR0870W	394857.3400 1071215.6200
SEC_006 I T_L_16		15.520;M06T0030SR0870W	394910.3800 1071215.6300
SEC_006 H T_L_15		15.530;M06T0030SR0870W	394923.4200 1071215.6400
SEC_006 E T_L_10	N_X	11.430;M06T0030SR0870W	394936.4500 1071215.6600

SEC_006 E T_L_11		15.540;M06T0030SR0870W	394936.4500	1071215.6600
SEC_006 E T_L_10	N_X	11.430;M06T0030SR0870W	394947.7600	1071215.6700
SEC_006 E T_L_11		15.540;M06T0030SR0870W	394947.7600	1071215.6700
SEC_031 O T_A		40.000;M06T0030SR0870W	394436.8200	1071204.1500
SEC_031 N T_A		40.000;M06T0030SR0870W	394449.8600	1071204.0800
SEC_031 C T_A		40.000;M06T0030SR0870W	394502.9300	1071204.0200
SEC_031 B T_A		40.000;M06T0030SR0870W	394515.9700	1071203.9500
SEC_030 O T_A		40.000;M06T0030SR0870W	394529.0200	1071203.9100
SEC_030 N T_A		40.000;M06T0030SR0870W	394542.0200	1071203.9200
SEC_030 C T_A		40.000;M06T0030SR0870W	394555.0300	1071203.9300
SEC_030 B T_A		40.000;M06T0030SR0870W	394608.0500	1071203.9200
SEC_019 O T_A		40.000;M06T0030SR0870W	394621.0800	1071203.9300
SEC_019 N T_A		40.000;M06T0030SR0870W	394634.0900	1071203.9200
SEC_019 C T_A		40.000;M06T0030SR0870W	394647.1100	1071203.9000
SEC_019 B T_A		40.000;M06T0030SR0870W	394700.1200	1071203.9100
SEC_018 O T_L_13		2.540;M06T0030SR0870W	394708.6900	1071203.8700
SEC_018 O T_T_43	N_A	117.120;M06T0030SR0870W	394708.6900	1071203.8700
SEC_018 L T_L_12		12.920;M06T0030SR0870W	394715.1900	1071213.1200
SEC_018 L T_T_43	N_A	117.120;M06T0030SR0870W	394715.1900	1071213.1200
SEC_018 N T_L_10		23.890;M06T0030SR0870W	394722.8500	1071202.6700
SEC_018 N T_T_43	N_A	117.120;M06T0030SR0870W	394722.8500	1071202.6700
SEC_018 I T_L_11		14.180;M06T0030SR0870W	394721.8700	1071213.1300
SEC_036 C T_L_7		38.630;M06T0030SR0870W	394739.2500	1071204.1200
SEC_036 C T_T_43	N_A	117.120;M06T0030SR0870W	394739.2500	1071204.1200
SEC_036 N T_L_10		23.890;M06T0030SR0870W	394728.3400	1071204.6500
SEC_036 N T_T_43	N_A	117.120;M06T0030SR0870W	394728.3400	1071204.6500
SEC_036 B T_A		40.000;M06T0030SR0870W	394752.1000	1071203.8300

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
LINK LINE OPTION NUMBER	1R	1	1	INT	1
SURNUM (NOTE) (*4)	1R	3	3	CHAR	1
ROW NUMBER FROM LLD	1R	5	8	INT	4
MERIDIAN CODE (*1)	1R	10	11	A/N	2
TOWNSHIP (*2)	1R	13	17	A/N	5
RANGE (*2)	1R	19	23	A/N	5
SECTION	1R	25	27	A/N	3
LAND UNIT TYPE	1R	29	29	CHAR	1
SURNUM (*3)	1R	31	35	A/N	5
ALIQUOT PART	1R	37	52	CHAR	16
ACREAGE OF THE PARCEL	1R	54	60	F7.2	7
CORNID	1R	62	67	INT	6
CORNER TYPE (*4)	1R	69	73	INT	5
LAND UNIT TYPE (*4)	1R	79	80	INT	2
COMMENT FIELD (*4)	1R	82	121	A/N	40

(\*1) See Appendix B.02, Principal Meridians.

(\*2) See Appendix B.11, Tier/Range Codes.

(\*3) The SURNUM field will not be populated for this file.

(\*4) These fields may or may not be populated.

California's TOWNSHIP.AA File - Sample Data

```

1 4010 21 0070S 0210E 001 A X,,,,,,,,,,,,, 40.00 660660
1 4010 21 0070S 0210E 001 A X,,,,,,,,,,,,, 40.00 660700
1 4010 21 0070S 0210E 001 A X,,,,,,,,,,,,, 40.00 700660
1 4010 21 0070S 0210E 001 A X,,,,,,,,,,,,, 40.00 700700
1 4020 21 0070S 0210E 001 A ,X,,,,,,,,,,,,, 40.00 640660
1 4020 21 0070S 0210E 001 A ,X,,,,,,,,,,,,, 40.00 640700
1 4020 21 0070S 0210E 001 A ,X,,,,,,,,,,,,, 40.00 660660
    
```

1 4020 21 0070S 0210E 001 A ,X,,,,,,,,,,,,, 40.00 660700

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
LINK LINE OPTION NUMBER	1R	1	1	INT	1
SURNUM (NOTE) (*4)	1R	3	3	CHAR	1
ROW NUMBER FROM LLD	1R	5	8	INT	4
MERIDIAN CODE (*1)	1R	10	11	A/N	2
TOWNSHIP (*2)	1R	13	17	A/N	5
RANGE (*2)	1R	19	23	A/N	5
SECTION	1R	25	27	A/N	3
LAND UNIT TYPE	1R	29	29	CHAR	1
SURNUM (*3)	1R	31	35	A/N	5
ALIQUOT PART	1R	37	52	CHAR	16
ACREAGE OF THE PARCEL	1R	54	60	F7.2	7
CORNID	1R	62	67	INT	6
CORNER TYPE (*4)	1R	69	73	INT	5
LAND UNIT TYPE (*4)	1R	79	80	INT	2
COMMENT FIELD (*4)	1R	82	121	A/N	40

(\*1) See Appendix B.02, Principal Meridians.

(\*2) See Appendix B.11, Tier/Range Codes.

(\*3) The SURNUM field will not be populated for this file.

(\*4) The ACREAGE OF THE PARCEL has an implied decimal place between positions 58 and 59.

Wyoming's TOWNSHIP.AA File - Sample Data

```

4 000000 06 1050W 0430N 001 A ,,,,, ,,,,,,X,,,,,, 0004000 620620      01
4 000000 06 1050W 0430N 001 A ,,,,, ,,,,,,X,,,,,, 0004000 620640      01
4 000000 06 1050W 0430N 001 A ,,,,, ,,,,,,X,,,,,, 0004000 640620      01
4 000000 06 1050W 0430N 001 A ,,,,, ,,,,,,X,,,,,, 0004000 640640      01
4 000000 06 1050W 0430N 001 A ,,,,, ,,,,,,X,,,,,, 0004000 600620      01
4 000000 06 1050W 0430N 001 A ,,,,, ,,,,,,X,,,,,, 0004000 600640      01
4 000000 06 1050W 0430N 001 A ,,,,, ,,,,,,X,,,,,, 0004000 620620      01
    
```





4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 560620	01
4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 560640	01
4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 600620	01
4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 600640	01
4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 540620	01
4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 540640	01
4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 560620	01
4 000000 06 1050W 0430N 002 A ,,,,, ,,,,,,,X,,	0004000 560640	01

ELEMENT NAME	ROW & ELEMENT POSITION			DATA TYPE	SIZE
	ROW	START	STOP		
LINK LINE OPTION NUMBER	1R	1	1	INT	1
SURNUM (NOTE) (*4)	1R	3	3	CHAR	1
ROW NUMBER FROM LLD	1R	5	8	INT	4
MERIDIAN CODE (*1)	1R	10	11	A/N	2
TOWNSHIP (*2)	1R	13	17	A/N	5
RANGE (*2)	1R	19	23	A/N	5
SECTION	1R	25	27	A/N	3
LAND UNIT TYPE	1R	29	29	CHAR	1
SURNUM (*3)	1R	31	35	A/N	5
ALIQUOT PART	1R	37	52	CHAR	16
ACREAGE OF THE PARCEL	1R	54	60	F7.2	7
CORNID	1R	62	67	INT	6
CORNER TYPE (*4)	1R	69	73	INT	5
LAND UNIT TYPE (*4)	1R	79	80	INT	2
COMMENT FIELD (*4)	1R	82	121	A/N	40

(\*1) See Appendix B.02, Principal Meridians.

(\*2) See Appendix B.11, Tier/Range Codes.

(\*3) The SURNUM field will not be populated for this file.

(\*4) The ACREAGE OF THE PARCEL has an implied decimal place between positions 58 and 59.

California's TOWNSHIP.LL File - Sample Data

4	0198	21	0070S	0210E	001	L	1	X,,,,,,,,,,,,,	51.80	660660	01
4	0198	21	0070S	0210E	001	L	1	X,,,,,,,,,,,,,	51.80	660700	01
4	0198	21	0070S	0210E	001	L	1	X,,,,,,,,,,,,,	51.80	700660	01
4	0198	21	0070S	0210E	001	L	1	X,,,,,,,,,,,,,	51.80	700667	01
4	0198	21	0070S	0210E	001	L	1	X,,,,,,,,,,,,,	51.80	700700	01
4	0198	21	0070S	0210E	001	L	2	,X,,,,,,,,,,,,,	51.42	640660	01
4	0198	21	0070S	0210E	001	L	2	,X,,,,,,,,,,,,,	51.42	640700	01
4	0198	21	0070S	0210E	001	L	2	,X,,,,,,,,,,,,,	51.42	660660	01
4	0198	21	0070S	0210E	001	L	2	,X,,,,,,,,,,,,,	51.42	660700	01
4	0198	21	0070S	0210E	001	L	3	,,,X,,,,,,,,,,,,,	51.03	620660	01
4	0198	21	0070S	0210E	001	L	3	,,,X,,,,,,,,,,,,,	51.03	620700	01
4	0198	21	0070S	0210E	001	L	3	,,,X,,,,,,,,,,,,,	51.03	640660	01
4	0198	21	0070S	0210E	001	L	3	,,,X,,,,,,,,,,,,,	51.03	640700	01
4	0198	21	0070S	0210E	001	L	4	,,,,X,,,,,,,,,,,,,	50.65	600660	01
4	0198	21	0070S	0210E	001	L	4	,,,,X,,,,,,,,,,,,,	50.65	600700	01
4	0198	21	0070S	0210E	001	L	4	,,,,X,,,,,,,,,,,,,	50.65	620660	01
4	0198	21	0070S	0210E	001	L	4	,,,,X,,,,,,,,,,,,,	50.65	620700	01
4	0198	21	0070S	0210E	002	L	1	X,,,,,,,,,,,,,	50.13	560660	01
4	0198	21	0070S	0210E	002	L	1	X,,,,,,,,,,,,,	50.13	560700	01
4	0198	21	0070S	0210E	002	L	1	X,,,,,,,,,,,,,	50.13	600660	01
4	0198	21	0070S	0210E	002	L	1	X,,,,,,,,,,,,,	50.13	600700	01
4	0198	21	0070S	0210E	002	L	2	,X,,,,,,,,,,,,,	49.47	540660	01
4	0198	21	0070S	0210E	002	L	2	,X,,,,,,,,,,,,,	49.47	540700	01
4	0198	21	0070S	0210E	002	L	2	,X,,,,,,,,,,,,,	49.47	560660	01
4	0198	21	0070S	0210E	002	L	2	,X,,,,,,,,,,,,,	49.47	560700	01
4	0198	21	0070S	0210E	002	L	3	,,,X,,,,,,,,,,,,,	48.82	520660	01
4	0198	21	0070S	0210E	002	L	3	,,,X,,,,,,,,,,,,,	48.82	520700	01
4	0198	21	0070S	0210E	002	L	3	,,,X,,,,,,,,,,,,,	48.82	540660	01
4	0198	21	0070S	0210E	002	L	3	,,,X,,,,,,,,,,,,,	48.82	540700	01
4	0198	21	0070S	0210E	002	L	4	,,,,X,,,,,,,,,,,,,	48.16	500660	01
4	0198	21	0070S	0210E	002	L	4	,,,,X,,,,,,,,,,,,,	48.16	500700	01
4	0198	21	0070S	0210E	002	L	4	,,,,X,,,,,,,,,,,,,	48.16	520660	01

4	0198 21 0070S 0210E 002 L 4	,,,,X,,,,,,,,,	48.16 520700	01
4	0198 21 0070S 0210E 003 L 1	X,,,,,,,,,,,,,	47.07 460660	01
4	0198 21 0070S 0210E 003 L 1	X,,,,,,,,,,,,,	47.07 460700	01
4	0198 21 0070S 0210E 003 L 1	X,,,,,,,,,,,,,	47.07 500660	01
4	0198 21 0070S 0210E 003 L 1	X,,,,,,,,,,,,,	47.07 500700	01
4	0198 21 0070S 0210E 003 L 2	,X,,,,,,,,,,,,,	47.03 440660	01
4	0198 21 0070S 0210E 003 L 2	,X,,,,,,,,,,,,,	47.03 440700	01

**APPENDIX A.15B 3.2.4.2 WYOMING'S TOWNSHIP.LL FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
LINK LINE OPTION NUMBER	1R	1	1	INT	1
SURNUM (NOTE) (*4)	1R	3	3	CHAR	1
ROW NUMBER FROM LLD	1R	5	8	INT	4
MERIDIAN CODE (*1)	1R	10	11	A/N	2
TOWNSHIP (*2)	1R	13	17	A/N	5
RANGE (*2)	1R	19	23	A/N	5
SECTION	1R	25	27	A/N	3
LAND UNIT TYPE	1R	29	29	CHAR	1
SURNUM (*3)	1R	31	35	A/N	5
ALIQUOT PART	1R	37	52	CHAR	16
ACREAGE OF THE PARCEL	1R	54	60	F7.2	7
CORNID	1R	62	67	INT	6
CORNER TYPE (*4)	1R	69	73	INT	5
LAND UNIT TYPE (*4)	1R	79	80	INT	2
COMMENT FIELD (*4)	1R	82	121	A/N	40

(\*1) See Appendix B.02, Principal Meridians.

(\*2) See Appendix B.11, Tier/Range Codes.

(\*3) The SURNUM field will not be populated for this file..

(\*4) The ACREAGE OF THE PARCEL has an implied decimal place between positions 58 and 59.

Wyoming's TOWNSHIP.LL File - Sample Data

```

4 040540 06 0880W 0430N 001 L 10,,, ,,,,,,,X,,, 0003472 660620      01
4 040540 06 0880W 0430N 001 L 10,,, ,,,,,,,X,,, 0003472 660640      01
4 040540 06 0880W 0430N 001 L 10,,, ,,,,,,,X,,, 0003472 700620      01
4 040540 06 0880W 0430N 001 L 10,,, ,,,,,,,X,,, 0003472 700637      01
4 040540 06 0880W 0430N 001 L 10,,, ,,,,,,,X,,, 0003472 700640      01
4 040550 06 0880W 0430N 001 L 11,,, ,,,,,,,X,, 0003822 640620      01
4 040550 06 0880W 0430N 001 L 11,,, ,,,,,,,X,, 0003822 640624      01

```

4 040550 06 0880W 0430N 001 L 11,, ,,,,,,,X,,	0003822 640640	01
4 040550 06 0880W 0430N 001 L 11,, ,,,,,,,X,,	0003822 660620	01
4 040550 06 0880W 0430N 001 L 11,, ,,,,,,,X,,	0003822 660640	01
4 040560 06 0880W 0430N 001 L 12,, ,,,,,,X,,,,,	0003974 620620	01
4 040560 06 0880W 0430N 001 L 12,, ,,,,,,X,,,,,	0003974 620640	01
4 040560 06 0880W 0430N 001 L 12,, ,,,,,,X,,,,,	0003974 636620	01
4 040560 06 0880W 0430N 001 L 12,, ,,,,,,X,,,,,	0003974 640620	01
4 040560 06 0880W 0430N 001 L 12,, ,,,,,,X,,,,,	0003974 640624	01
4 040560 06 0880W 0430N 001 L 12,, ,,,,,,X,,,,,	0003974 640640	01
4 040570 06 0880W 0430N 001 L 13,, ,,,,,,,X,,,,	0003623 620600	01
4 040570 06 0880W 0430N 001 L 13,, ,,,,,,,X,,,,	0003623 620620	01
4 040570 06 0880W 0430N 001 L 13,, ,,,,,,,X,,,,	0003623 636600	01
4 040570 06 0880W 0430N 001 L 13,, ,,,,,,,X,,,,	0003623 636620	01
4 040570 06 0880W 0430N 001 L 13,, ,,,,,,,X,,,,	0003623 640600	01
4 040570 06 0880W 0430N 001 L 13,, ,,,,,,,X,,,,	0003623 640620	01
4 040490 06 0880W 0430N 001 L 5,, , X,,,,,,	0003445 660660	01
4 040490 06 0880W 0430N 001 L 5,, , X,,,,,,	0003445 660700	01
4 040490 06 0880W 0430N 001 L 5,, , X,,,,,,	0003445 700660	01
4 040490 06 0880W 0430N 001 L 5,, , X,,,,,,	0003445 700700	01
4 040500 06 0880W 0430N 001 L 6,, , ,X,,,,,,	0003951 640660	01
4 040500 06 0880W 0430N 001 L 6,, , ,X,,,,,,	0003951 640700	01
4 040500 06 0880W 0430N 001 L 6,, , ,X,,,,,,	0003951 657700	01
4 040500 06 0880W 0430N 001 L 6,, , ,X,,,,,,	0003951 660660	01
4 040500 06 0880W 0430N 001 L 6,, , ,X,,,,,,	0003951 660700	01
4 040510 06 0880W 0430N 001 L 7,, , , ,X,,,,,,	0003941 620660	01
4 040510 06 0880W 0430N 001 L 7,, , , ,X,,,,,,	0003941 620700	01
4 040510 06 0880W 0430N 001 L 7,, , , ,X,,,,,,	0003941 637700	01
4 040510 06 0880W 0430N 001 L 7,, , , ,X,,,,,,	0003941 640660	01
4 040510 06 0880W 0430N 001 L 7,, , , ,X,,,,,,	0003941 640700	01
4 040520 06 0880W 0430N 001 L 8,, , , ,X,,,,,,	0003931 600660	01
4 040520 06 0880W 0430N 001 L 8,, , , ,X,,,,,,	0003931 600700	01
4 040520 06 0880W 0430N 001 L 8,, , , ,X,,,,,,	0003931 617700	01

**APPENDIX A.15C 3.2.4.2  
FORMAT**

**WYOMING'S OTHER TOWNSHIP.LL FILE**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
ROW NUMBER FROM LLD	1R	1	6	INT	6
MERIDIAN CODE (*1)	1R	8	9	A/N	2
TOWNSHIP (*2)	1R	11	15	A/N	5
RANGE (*2)	1R	17	21	A/N	5
SECTION	1R	23	25	A/N	3
LAND UNIT TYPE	1R	27	27	CHAR	1
SURNUM	1R	29	33	A/N	5
ALIQUOT PART	1R	38	53	CHAR	16
ACREAGE OF THE PARCEL (*3)	1R	55	61	INT	7
CORNID	1R	63	68	INT	6

(\*1) See Appendix B.02, Principal Meridians.

(\*2) See Appendix B.11, Tier/Range Codes.

(\*3) The ACREAGE OF THE PARCEL has an implied decimal place between positions 58 and 59.

Wyoming's Other TOWNSHIP.LL File - Sample Data

```

001700 06 0860W 0130N 001 L 10,, ,,,,,,,,,,X,,, 0003302 660620
001700 06 0860W 0130N 001 L 10,, ,,,,,,,,,,X,,, 0003302 660640
001700 06 0860W 0130N 001 L 10,, ,,,,,,,,,,X,,, 0003302 700620
001700 06 0860W 0130N 001 L 10,, ,,,,,,,,,,X,,, 0003302 700637
001700 06 0860W 0130N 001 L 10,, ,,,,,,,,,,X,,, 0003302 700640
001710 06 0860W 0130N 001 L 11,, ,,,,,,,,,,X 0003342 660600
001710 06 0860W 0130N 001 L 11,, ,,,,,,,,,,X 0003342 660620
001710 06 0860W 0130N 001 L 11,, ,,,,,,,,,,X 0003342 700600
001710 06 0860W 0130N 001 L 11,, ,,,,,,,,,,X 0003342 700603
001710 06 0860W 0130N 001 L 11,, ,,,,,,,,,,X 0003342 700617
001710 06 0860W 0130N 001 L 11,, ,,,,,,,,,,X 0003342 700620
001650 06 0860W 0130N 001 L 5,,,, X,,,,,,,,,,,,, 0003497 660660

```



001650 06 0860W 0130N 001 L 5,,, X,,,,,,,,,,,,, 0003497 660700  
 001650 06 0860W 0130N 001 L 5,,, X,,,,,,,,,,,,, 0003497 700660  
 001650 06 0860W 0130N 001 L 5,,, X,,,,,,,,,,,,, 0003497 700677  
 001650 06 0860W 0130N 001 L 5,,, X,,,,,,,,,,,,, 0003497 700700  
 001660 06 0860W 0130N 001 L 6,,, ,X,,,,,,,,,,,,, 0004465 640660  
 001660 06 0860W 0130N 001 L 6,,, ,X,,,,,,,,,,,,, 0004465 640700  
 001660 06 0860W 0130N 001 L 6,,, ,X,,,,,,,,,,,,, 0004465 657700  
 001660 06 0860W 0130N 001 L 6,,, ,X,,,,,,,,,,,,, 0004465 660660  
 001660 06 0860W 0130N 001 L 6,,, ,X,,,,,,,,,,,,, 0004465 660700  
 001670 06 0860W 0130N 001 L 7,,, ,,,X,,,,,,,,, 0004462 620660  
 001670 06 0860W 0130N 001 L 7,,, ,,,X,,,,,,,,, 0004462 620700  
 001670 06 0860W 0130N 001 L 7,,, ,,,X,,,,,,,,, 0004462 637700  
 001670 06 0860W 0130N 001 L 7,,, ,,,X,,,,,,,,, 0004462 640660  
 001670 06 0860W 0130N 001 L 7,,, ,,,X,,,,,,,,, 0004462 640700  
 001680 06 0860W 0130N 001 L 8,,, ,,,,X,,,,,,,, 0004459 600660  
 001680 06 0860W 0130N 001 L 8,,, ,,,,X,,,,,,,, 0004459 600700  
 001680 06 0860W 0130N 001 L 8,,, ,,,,X,,,,,,,, 0004459 617700  
 001680 06 0860W 0130N 001 L 8,,, ,,,,X,,,,,,,, 0004459 620660  
 001680 06 0860W 0130N 001 L 8,,, ,,,,X,,,,,,,, 0004459 620700  
 001690 06 0860W 0130N 001 L 9,,, ,,,X,,,,,,,,, 0003241 660640  
 001690 06 0860W 0130N 001 L 9,,, ,,,X,,,,,,,,, 0003241 660660  
 001690 06 0860W 0130N 001 L 9,,, ,,,X,,,,,,,,, 0003241 700640  
 001690 06 0860W 0130N 001 L 9,,, ,,,X,,,,,,,,, 0003241 700643  
 001690 06 0860W 0130N 001 L 9,,, ,,,X,,,,,,,,, 0003241 700657  
 001690 06 0860W 0130N 001 L 9,,, ,,,X,,,,,,,,, 0003241 700660  
 001730 06 0860W 0130N 002 L 5,,, X,,,,,,,,,,,,, 0004456 560660  
 001730 06 0860W 0130N 002 L 5,,, X,,,,,,,,,,,,, 0004456 560700  
 001730 06 0860W 0130N 002 L 5,,, X,,,,,,,,,,,,, 0004456 577700

**APPENDIX A.16A 3.2.4.3 CALIFORNIA'S TOWNSHIP.QQ FILE FORMAT**

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
LINK LINE OPTION NUMBER	1R	1	1	INT	1
SURNUM (NOTE) (*3)	1R	3	3	CHAR	1
ROW NUMBER FROM LLD	1R	5	8	INT	4
MERIDIAN CODE (*1)	1R	10	11	A/N	2
TOWNSHIP (*2)	1R	13	17	A/N	5
RANGE (*2)	1R	19	23	A/N	5
SECTION	1R	25	27	A/N	3
LAND UNIT TYPE	1R	29	29	CHAR	1
SURNUM	1R	31	35	A/N	5
ALIQUOT PART	1R	37	52	CHAR	16
ACREAGE OF THE PARCEL	1R	54	60	F7.2	7
CORNID	1R	62	67	INT	6
CORNER TYPE (*3)	1R	69	73	INT	5
LAND UNIT TYPE (*3)	1R	79	80	INT	2
COMMENT FIELD (*3)	1R	82	121	A/N	40

(\*1) See Appendix B.02, Principal Meridians.

(\*2) See Appendix B.11, Tier/Range Codes.

(\*3) These fields may or may not be populated.

California's TOWNSHIP.QQ File - Sample Data

```

4      0198 21 0070S 0210E 030 L 8      ,,X      35.50 900010 01000 01
4      0198 21 0070S 0210E 030 L 8      ,,X      35.50 900015 01000 01
4      0198 21 0070S 0210E 030 L 5      ,,X,,     32.70 900015 01000 01
4      0198 21 0070S 0210E 030 L 5      ,,X,,     32.70 900020 01000 01
4      0198 21 0070S 0210E 030 L 5      ,,X,,     32.70 900028 01000 01
4      0198 21 0070S 0210E 030 L 7      ,,X      4.55 900028 01000 01
4      0198 21 0070S 0210E 030 L 7      ,,X      4.55 900030 01000 01

```

4	0198 21 0070S 0210E 030 L 7	,,,,,,,,,X,	4.55 900040 01000 01
4	0198 21 0070S 0210E 030 L 7	,,,,,,,,,X,	4.55 900042 01000 01
4	0198 21 0070S 0210E 030 L 8	,,,,,,,,,X	35.50 900042 01000 01
4	0198 21 0070S 0210E 031 L 5	X,,,,,,,,,	40.00 901010 01000 01
4	0198 21 0070S 0210E 031 L 5	X,,,,,,,,,	40.00 901020 01000 01
4	0198 21 0070S 0210E 030 L 7	,,,,,,,,,X,	4.55 901020 01000 01
4	0198 21 0070S 0210E 030 L 7	,,,,,,,,,X,	4.55 901030 01000 01
4	0198 21 0070S 0210E 030 L 7	,,,,,,,,,X,	4.55 901034 01000 01
4	0198 21 0070S 0210E 030 L 5	,,,,,,,,,X,,	32.70 901034 01000 01
4	0198 21 0070S 0210E 030 L 5	,,,,,,,,,X,,	32.70 901038 01000 01
4	0198 21 0070S 0210E 030 A	,,,,,X,,,,,	360.00 901038 01000 01
4	0198 21 0070S 0210E 030 A	,,,,,X,,,,,	360.00 901040 01000 01
4	0198 21 0070S 0210E 030 A	,,,,,X,,,,,	360.00 901050 01000 01
4	0198 21 0070S 0210E 030 L 6	,,,,,,,,,X,	5.61 901058 01000 01
4	0198 21 0070S 0210E 030 L 6	,,,,,,,,,X,	5.61 901060 01000 01
4	0198 21 0070S 0210E 031 L 13	,X,,,,,,,,,	35.86 901070 01000 01
4	0198 21 0070S 0210E 031 L 13	,X,,,,,,,,,	35.86 901075 01000 01
4	0198 21 0070S 0210E 031 L 5	X,,,,,,,,,	40.00 901075 01000 01
4	0198 21 0070S 0210E 031 L 5	X,,,,,,,,,	40.00 901078 01000 01
4	0198 21 0070S 0210E 031 L 6	,,X,,,,,,,,,	28.86 901078 01000 01
4	0198 21 0070S 0210E 031 L 6	,,X,,,,,,,,,	28.86 901080 01000 01
4	0198 21 0070S 0210E 031 L 6	,,X,,,,,,,,,	28.86 901084 01000 01
4	0198 21 0070S 0210E 031 L 5	X,,,,,,,,,	40.00 901084 01000 01
4	0198 21 0070S 0210E 031 L 15	,,,,,,,,,X	4.95 902010 01000 01
4 A	0198 21 0070S 0210E 031M 4024A	,,,,,,,,,X	47.83 902010 01000 12
4	0198 21 0070S 0210E 031 L 10	,,,,,,,,,X	20.00 902015 01000 01
4	0198 21 0070S 0210E 031 L 7	,,,,,,,,,X,,	9.62 902015 01000 01
4	0198 21 0070S 0210E 031 L 11	,,,,,,,,,X,,	22.53 902015 01000 01
4 A	0198 21 0070S 0210E 031M 4024A	,,,,,,,,,X,,	47.83 902015 01000 12
4	0198 21 0070S 0210E 031 L 11	,,,,,,,,,X,,	22.53 902020 01000 01
4	0198 21 0070S 0210E 031 L 7	,,,,,,,,,X,,	9.62 902020 01000 01
4 A	0198 21 0070S 0210E 031 M 4024A	,,,,,,,,,X,,	47.83 902020 01000 12

ELEMENT NAME	ROW & ELEMENT POSITION			DATA	SIZE
	ROW	START	STOP	TYPE	
LINK LINE OPTION NUMBER	1R	1	1	INT	1
SURNUM (NOTE) (*3)	1R	3	3	CHAR	1
ROW NUMBER FROM LLD	1R	5	8	INT	4
MERIDIAN CODE (*1)	1R	10	11	A/N	2
TOWNSHIP (*2)	1R	13	17	A/N	5
RANGE (*2)	1R	19	23	A/N	5
SECTION	1R	25	27	A/N	3
LAND UNIT TYPE	1R	29	29	CHAR	1
SURNUM	1R	31	35	A/N	5
ALIQUOT PART	1R	37	52	CHAR	16
ACREAGE OF THE PARCEL	1R	54	60	F7.2	7
CORNID	1R	62	67	INT	6
CORNER TYPE (*3)	1R	69	73	INT	5
LAND UNIT TYPE (*3)	1R	79	80	INT	2
COMMENT FIELD (*3)	1R	82	121	A/N	40

(\*1) See Appendix B.02, Principal Meridians.

(\*2) See Appendix B.11, Tier/Range Codes.

(\*3) These fields may or may not be populated.

Wyoming's TOWNSHIP.QQ File - Sample Data

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4 040920 06 0880W 0430N 006 L17,,, ,,,,,,,,,,X,, 0000982 837040 01000 2 01
4 040920 06 0880W 0430N 006 L17,,, ,,,,,,,,,,X,, 0000982 837040 01000 01
4 040960 06 0880W 0430N 006 T37,,, ,,,,,,,,,,X,, 0004000 837040 01000 4 17
4 040970 06 0880W 0430N 006 T38,,, ,,,,,,,,,,X,, 0023544 837040 01000 1 17
4 040910 06 0880W 0430N 006 L16,,, ,X,,,,,,,,, 0002032 837045 01000 01
4 040960 06 0880W 0430N 006 T37,,, ,X,,,,,,,,, 0004000 837045 01000 17
4 040920 06 0880W 0430N 006 L17,,, ,,,,,,,,,,X,, 0000982 837045 01000 01
4 040910 06 0880W 0430N 006 L16,,, ,X,,,,,,,,, 0002032 837110 01000 01
    
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4 040960 06 0880W 0430N 006 T37,,, ,,X,,,,,,,,,,,,, 0004000 837110 01000 1 17  
4 040910 06 0880W 0430N 006 L16,,, ,,X,,,,,,,,,,,,, 0002032 837115 01000 01  
4 040960 06 0880W 0430N 006 T37,,, ,,X,,,,,,,,,,,,, 0004000 837115 01000 17  
4 040900 06 0880W 0430N 006 L15,,, ,,X,,,,,,,,,,,,, 0001698 837115 01000 01  
4 040900 06 0880W 0430N 006 L15,,, ,,X,,,,,,,,,,,,, 0001698 837120 01000 01  
4 040960 06 0880W 0430N 006 T37,,, ,,X,,,,,,,,,,,,, 0004000 837120 01000 2 17  
4 040900 06 0880W 0430N 006 L15,,, ,,X,,,,,,,,,,,,, 0001698 837130 01000 01  
4 040960 06 0880W 0430N 006 T37,,, ,,X,,,,,,,,,,,,, 0004000 837130 01000 3 17  
4 040970 06 0880W 0430N 006 T38,,, ,,X,,,,,,,,,,,,, 0023544 837130 01000 17  
4 040920 06 0880W 0430N 006 L17,,, ,,X,,,,,,,,,,,,, 0000982 837140 01000 01  
4 040960 06 0880W 0430N 006 T37,,, ,,X,,,,,,,,,,,,, 0004000 837140 01000 4 17  
4 040970 06 0880W 0430N 006 T38,,, ,,X,,,,,,,,,,,,, 0023544 837140 01000 1 17  
4 040970 06 0880W 0430N 006 T38,,, ,,X,,,,,,,,,,,,, 0023544 837140 01000 1 17  
4 999999 06 0880W 0430N 012 T39D ,,X,,,,,,,,,,,,, 0000000 839130 01000 13 01 TRACT 39D