

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
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OPEN-FILE REPORT O-93-8

Documentation for the
Mineral Information Layer for Oregon by County (MILOC93) Database

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Overview

This report provides a statewide mineral database in dBASE III+ format that can be imported to computerized geographic information systems (GIS), such as those being used by the U.S. Bureau of Land Management (BLM), U.S. Bureau of Mines (USBM), U.S. Forest Service (USFS), U.S. Geological Survey (USGS), agencies of the State of Oregon, Oregon counties, and the private sector.

This computer data base gives location, commodity, and other data for an estimated 7,899 mineral occurrences, prospects, and mines in Oregon. Because each site has latitude, longitude, and Universal Transverse Mercator (UTM) coordinates, this layer can be used with many geographic information systems. The data base has utility for local, county, state, and federal planning; for exploration and mining firms; and for other private interest groups.

Sources

Data sources include the USGS CRIB/MRDS and USBM MILS main frame data bases of mineral occurrences, prospects, and mines. For Oregon, these data are complete, up-to-date, and acceptably uniform in geographic coverage. However, these data bases have not been added to since 1981 data were downloaded into dBASE III+. Of the 429 USGS CRIB/MRDS fields, 89 were selected by a committee of federal, state, and county agencies as those that were needed for each agency's planning efforts. After two years of use, recommendations were received from agencies and private parties on which fields should be eliminated, combined, and/or added. Changes were made so that the database now has 84 fields.

The records in the federal data bases were edited by the Oregon Department of Geology and Mineral Industries (DOGAMI) professional staff. Duplicate records were eliminated. An additional 2,755 records from the DOGAMI Mined

Land Reclamation program are included in the data base as of December 1992. There are now a total of 7,899 mineral occurrences, prospects, exploration targets, and mines in the data base.

Data Description

As in all data bases, the field name given to a data field may not explain adequately what is in that field.

Field Names and Explanations

1. SITE_NAME - Self explanatory
2. SYNONYM - Other names that the site has had over time, or in the case of placers, names of other gravel bars along a river segment for which one location was chosen for the site name
3. OWNER - Self explanatory
4. COUNTY - Self explanatory
5. MINING_DIS - Mining district
6. USBLM_DIST - USBLM districts (in which the site is located)

Field Codes are as follows:

BURN	Burns
COOS	Coos
EUGE	Eugene
LAKE	Lake
MEDF	Medford
PRIN	Prineville
ROSE	Roseburg
SALE	Salem
VALE	Vale

7. USFS_DIST USFS forest (in which the site is located)

Field Codes are as follow:

Blank	Sites not on any federal forest
CRG	Columbia River Gorge National Scenic Area
DES	Deschutes
FRE	Fremont
MAL	Malheur
MTH	Mt. Hood
OCH	Ochoco
ROG	Rogue River
SIS	Siskiyou
SIU	Siuslaw
UMA	Umatilla
UMP	Umpqua
WAW	Wallowa-Whitman
WIL	Willamette

- WIN Winema
8. DRAIN River basin
- Field Codes (taken from the Oregon Drainage Basin Map-scale
1:1,000,000 as defined by Oregon Water Resources Dept.)
are as follows:
- | | |
|----|--------------|
| 01 | North Coast |
| 02 | Willamette |
| 03 | Sandy |
| 04 | Hood |
| 05 | Deschutes |
| 06 | John Day |
| 07 | Umatilla |
| 08 | Grande Ronde |
| 09 | Powder |
-
- | | |
|----|----------------------|
| 10 | Malheur |
| 11 | Owyhee |
| 12 | Malheur Lake |
| 13 | Goose & Summer Lakes |
| 14 | Klamath |
| 15 | Rogue |
| 16 | Umpqua |
| 17 | South Coast |
| 18 | Mid Coast |
9. HYDR_UNIT USGS hydrologic units taken from Hydrologic Unit Map-1974
State Of Oregon-scale 1:500,000
10. PHYSIOG Physiographic/geomorphologic provinces
- Field Codes are as follows:
- | | |
|----|---------------------------------|
| 10 | Columbia Plateau (Federal Code) |
| 12 | Basin & Range (Federal Code) |
| 13 | Pacific Ranges (Federal Code) |
- The NAMES in this field are taken from the Oregon Physiographic Map
11. LAND_ST Land status/ownership
- Field Codes are as follows:
- | | |
|----|--------------------------|
| 00 | Undetermined |
| 01 | Private |
| 20 | County |
| 30 | State |
| 31 | State Forest |
| 32 | State Park |
| 33 | State Offshore |
| 40 | Federal |
| 41 | National Forest |
| 42 | National Recreation Area |
| 43 | National Wilderness Area |
| 44 | National Primitive Area |
| 45 | National Park |
| 46 | National Monument |
| 47 | Indian Reservation |

48	National Offshore
49	BLM
50	Military Reservation
12. USGS_NUM	The site number from the USGS CRIB/MRDS data base or if the number starts with "OR" from DOGAMI

THIS IS THE UNIQUE RECORD NUMBER

13. USBM_NUM	The site number from the USBM MILS data base
14. USBLM_NUM	Site numbers from BLM records
15. DOGAMI_MLR	The site number given by the DOGAMI Mined Land Reclamation program
16. PRMT -	Type of Mined Land Reclamation Permit Field Codes are as follows:
CO	County exempt
APA	Application received-aggregate
APG	Application received-government
APM	Application received-metals
APP	Application received-placer
APX	Application received-exploration
OPA	Operating permit-aggregate
OPG	Operating permit-government
OPM	Operating permit-metals

OPP	Operating permit-placer
XPA	Operating permit-exploration-aggregate
XPG	Operating permit-exploration-government
XPM	Operating permit-exploration-metals
XPP	Operating permit-exploration-placer
VP	Vegetation permit
TE	Total exemption
LEP	Limited exemption-prior mined
LEV	Limited exemption-valid contract
PPA	Provisional operating permit-aggregate
PPG	Provisional operating permit-government
PPM	Provisional operating permit-metals
PPP	Provisional operating permit-placer
PPX	Provisional operating permit-exploration
17. PRMTSTATUS	The status of the permit
	Field Codes are as follows:
C	Closed
N	New
A	Amendment
R	Bond pulled
18. UPDATE_BY	The name of the person updating the site record
19. UP_DATE	The date the site record was updated
20. LOCATION	The direction and distance from some feature, such as a town
21. TOWNSHIP	Self explanatory

22. T_CODE The T_CODE is formed by subtracting north township from 10 and adding 10 to those south townships
NOTE - Use of T_CODE permits sorting by township without the ambiguity of receiving both north and south townships of the same number.
23. RANGE Self explanatory
24. R_CODE The R_CODE is formed by subtracting west ranges from 20 and adding 20 to those east ranges.
NOTE - Use of R_CODE permits sorting by range without the ambiguity of receiving both east and west ranges of the same number.
25. SECTION Self explanatory
26. SECT_FRACT Section fraction. For example NW NW NW indicates the northwest quarter of the northwest quarter of the northwest quarter of the section; a single letter such as N indicates the north half of the section
27. LAT Latitude
28. LONG Longitude
29. UTM_N Universal Transverse Mercator coordinate number, getting larger to the north
30. UTM_E Universal Transverse Mercator coordinate number, getting larger to the east
31. UTM_Z Universal Transverse Mercator grid zone
NOTE - Zone 10 for longitude 120 degrees and west, and Zone 11 for 119 degrees-59 minutes-59 seconds and east
32. Q1_SCALE Map scale 1:100,000 for topographic quadrangle map one
33. QUAD1 Name of the 1:100,000-scale topographic quadrangle map in which the site is located
34. Q2_SCALE Map scale of 1:24,000 or 1:62,500 for topographic quadrangle map two
35. QUAD2 Name of the 7-1/2-minute (1:24,000-scale) or 15-minute (1:62,500-scale) topographic quadrangle map
-
36. ALTITUDE Elevation in feet or meters above sea level
37. STATUS Site type: mineral occurrence, raw prospect, developed prospect, or mine
Field Code are as follows:
1 Mineral occurrence (no workings and/or production)
2 Raw prospect (minor workings no production)
3 Developed prospect (workings but no production)
4 Mine (present or past producer)
38. COMOD_PRES All commodities listed in the literature for this site
Field Codes are element symbols for all metallic and spelled-out names for all others. NOTE - Use "STONE" for all material from quarries. The commodity "STONE" can be modified by adding a rock name such as STONE(BASALT). Use "SAND & GRAVEL" for all sand or gravel pits. This commodity can be modified such as "SAND & GRAVEL(SAND)" or "SAND & GRAVEL(FILL)". Use "CLAY" for all clay

- commodities and modify such as "CLAY(BENTONITE)".
Use GEMSTONES for all gemstones and modify such
as GEMSTONES(AGATE).
39. COMOD_PROD Commodities produced and sold or used
Field Codes are the same as the COMOD_PRES field
40. ORE_MAT Ore material (valuable minerals or mineral material)
41. GANGUE Gangue material (waste minerals or mineral material)
42. PRODUCTION Self explanatory
Field Code are "YES" or "NO" (for either current or past)
43. PROD_SIZE Production size
Field Code are "SMALL", "MEDIUM", or "LARGE"
44. DEPOS_TYP Deposit type
45. MIN_AGE Mineralization age
Field Codes are as follows:
- | | |
|-------|---------------|
| QUAT | Quaternary |
| HOLO | Holocene |
| PLEIS | Pleistocene |
| TERT | Tertiary |
| PLIO | Pliocene |
| MIO | Miocene |
| OLIGO | Oligocene |
| EO | Eocene |
| PALEO | Paleocene |
| CRET | Cretaceous |
| JUR | Jurassic |
| TRI | Triassic |
| PERM | Permian |
| PENN | Pennsylvanian |
| CARB | Carboniferous |
| MISS | Mississippian |
| DEV | Devonian |
| SIL | Silurian |
| ORD | Ordovician |
| CAMB | Cambrian |
| PREC | Precambrian |
| ARCH | Archean |
| HUR | Huronian |
| CEN | Cenozoic |
| MES | Mesozoic |
| PAL | Paleozoic |
46. HOST_ROCK Rock type hosting the mineralization
47. HOST_R_AGE Host rock age
Field Codes same as those for MIN_AGE
48. IGNEOUS_R Igneous rock associated with the mineralization
49. IG_R_AGE Igneous rock age
Field Codes same as those for MIN_AGE
50. ALTERATION Self explanatory
51. ORE_CNTRL Geologic controls for the ore body

52. DEP_DESCOM	Deposit description comments
53. GEOL_COM	Comments concerning geology of site
54. DESC_WORK	Type of mine workings
	Field Choices are "SURFACE", "UNDERGROUND", or "BOTH"
55. YR_DISC	Year the mineral discovery was made
56. YR_1ST_PRO	Year that mineral production started
57. YR_LASTPRO	Year that production stopped
58. WRKDES_COM	Description of exploration and/or mine workings
59. CP_ITEM1	First commodity with recorded production
60. CP_AMT1	Cumulative-production amount for first commodity
61. CP_UNIT1	Units (ounces, pounds, tons) for first commodity
62. CP_YEAR1	Year to calculate cumulative-production for first commodity
63. CP_ITEM2	Second commodity with recorded production
64. CP_AMT2	Cumulative-production amount for second commodity
65. CP_UNIT2	Units (ounces, pounds, tons) for second commodity
66. CP_YEAR2	Year to calculate cumulative-production for second commodity
67. CP_ITEM3	Third commodity with recorded production
68. CP_AMT3	Cumulative-production amount for third commodity
69. CP_UNIT3	Units (ounces, pounds, tons) for third commodity
70. CP_YEAR3	Year to calculate cumulative-production for third commodity
71. CP_ITEM4	Fourth commodity with recorded production
72. CP_AMT4	Cumulative-production amount for fourth commodity
73. CP_UNIT4	Units (ounces, pounds, tons) for fourth commodity
74. CP_YEAR4	Year to calculate cumulative-production for fourth commodity
75. CP_ITEM5	Fifth commodity with recorded production
76. CP_AMT5	Cumulative-production amount for fifth commodity
77. CP_UNIT5	Units (ounces, pounds, tons) for fifth commodity
78. CP_YEAR5	Year to calculate cumulative-production for fifth commodity
79. CP_ITEM6	Sixth commodity with recorded production
80. CP_AMT6	Cumulative-production amount for sixth commodity
81. CP_UNIT6	Units (ounces, pounds, tons) for sixth commodity
82. CP_YEAR6	Year to calculate cumulative-production for sixth commodity
83. GEN_COM	General comments concerning site
84. RF1	Published or unpublished reference #1
85. RF2	Published or unpublished reference #2
86. RF3	Published or unpublished reference #3
87. RF4	Published or unpublished reference #4
88. RF5	Published or unpublished reference #5
89. RF6	Published or unpublished reference #6

Record Location Accuracy

Records in the MILOC data base were obtained from the USBM MILS data base, the USGS CRIB/MRDS data base, and the DOGAMI Mined Land Reclamation files. The records in the two federal data bases were obtained mainly from published sources, such as state, private, USGS, USBM, and from the USFS and BLM. For the first two federal data bases, the locations of mines, prospects, and mineral deposits taken from older publications are often reported in narrative format, while those in newer publications are often reported by subdivisions of a section of land or by latitude and longitude.

Most locations reported in these two data bases have not been field checked. Therefore, they are reference-specific data bases that also contain some site-specific records. Although the data bases require latitude, longitude, and UTM coordinates for entry of each record, the quality of the locational description varies widely among the information source documents. The locations generally are accurate within a mile and most to within a quarter mile.

All the records with a DOGAMI_MLR were taken from DOGAMI's Mined Land Reclamation file and are accurate within a quarter of a mile, and most within an eighth of a mile.

Most latitude, longitude, and UTM coordinates for the two federal data bases were derived manually from topographic maps (1:62,500 or 1:24,000). For those records from the DOGAMI Mined Land Reclamation files, the latitude, longitude, and UTM coordinates were computer generated by digitizing the mine sites plotted on Oregon State Highway Division county maps, which have an approximate scale of one-half inch equals one mile.

Appendix 1 contains the "Source Graphic Lineage Report" and "Digital Output Format Standards" from the Oregon State Map Advisory Council report, "Digital Spatial Standards and Procedures," which was prepared by the GIS Standards and Procedures Working Group of the State Map Advisory Council, March 22, 1990, sections 2.6 and 4.0.

How To Use

Please read this whole page before uncompressing a file.

Uncompressing data from the disks:

The complete 30-megabyte MILOC93 data base has been compressed using LHarc 1.13 and is contained in two files called MILOC93A.LZH and MILOC93B.LZH, each on its own high density 5-1/4" disk. The desired file should be copied to your hard disk and MUST be uncompressed before attempting to use the data. Table 1 shows the file names, number of records, and the size of the files for each county data base. Check to see how large each county data base is to ensure that you have room on your hard disk to uncompress it.

A suggested procedure for uncompressing a data base might be as follows:

Type C: and press enter key.
This makes C: drive the current drive.

Type MD C:\MILOC93 and press enter key.
This creates MILOC93 sub-directory on C: drive.

Type CD C:\MILOC93 and press enter key.
This changes current sub-directory to C:\MILOC93.

If Disk 1 is in drive A:

Type: COPY A:\MILOC93A.LZH C:\MILOC93 and press enter key.
Type: COPY A:\LHARC.EXE C:\MILOC93 and press enter key.

If Disk 1 is in drive B:

Type: COPY B:\MILOC93A.LZH C:\MILOC93 and press enter key.
Type: COPY B:\LHARC.EXE C:\MILOC93 and press enter key.
This copies MILOC93A.LZH and LHARC.EXE from a floppy drive to subdirectory MILOC93 of C:

Type LHARC X MILOC93A.LZH BAKER93.DBF and press enter key.
This uncompresses the Baker County data base.

At this point, you have a usable dBASE III+ file for Baker County. If you are using MILOC93B.LZH from Disk 2 and wish to uncompress a data base other than Baker County or use a different sub-directory name, then substitute the appropriate changes in the above instructions. If you already have LHARC in the path on your hard disk, you will not need to copy it from the distribution disks.

See LHarc.doc for the complete instructions on using LHarc for compressing

data files.

Table 1. County file names, number of contained records, and byte size, both original and packed, for the two floppy disks MILOC93A.LZH and MILOC93B.LZH

Floppy Disk	File name	# Records	Bytes	
			Original	Packed
MILOC93A.LZH	BAKER93.DBF	715	2,664,667	199,379
	BENTON93.DBF	66	248,440	12,509
	CLACKA93.DBF	514	1,916,344	85,663
	CLATSO93.DBF	81	304,285	15,153
	COLUMB93.DBF	120	449,482	22,995
	COOS93.DBF	326	1,216,420	68,988
	CROOK93.DBF	150	561,172	37,087
	CURRY93.DBF	368	1,372,786	98,520
	DESCHU93.DBF	165	617,017	27,983
	DOUGLA93.DBF	373	1,391,401	89,231
	GILLIA93.DBF	53	200,041	9,058
	GRANT93.DBF	575	2,143,447	176,525
	HARNEY93.DBF	169	631,909	43,248
	HOOD_R93.DBF	35	133,027	6,785
Sub Totals	14 files	3,710	13,850,438	893,124
MILOC93B.LZH	JACKSO93.DBF	711	2,649,775	190,494
	JEFFER93.DBF	53	200,041	14,009
	JOSEPH93.DBF	825	3,074,197	229,489
	KLAMAT93.DBF	145	542,557	26,032
	LAKE93.DBF	147	550,003	34,353
	LANE93.DBF	300	1,119,622	69,452
	LINCOL93.DBF	71	267,055	13,462
	LINN93.DBF	208	777,106	42,307
	MALHEU93.DBF	394	1,469,584	90,716
	MARION93.DBF	158	590,956	32,911
	MORROW93.DBF	52	196,318	10,886
	MULTNO93.DBF	89	334,069	16,805
	POLK93.DBF	70	263,332	13,908
	SHERMA93.DBF	21	80,905	4,586
	TILLAM93.DBF	101	378,745	17,907

	UMATIL93.DBF	207	773,383	35,377
	UNION93.DBF	166	620,740	33,958
	WALLOW93.DBF	164	613,294	41,324
	WASCO93.DBF	107	401,083	18,703
	WASHIN93.DBF	92	345,238	18,504
	WHEEL93.DBF	48	181,426	12,683
	YAMHIL93.DBF	60	226,102	11,336
Sub Totals	22 files	41898	15,655,531	979,202
Grand Total	36 files	7,988	29,505,969	1,872,326

Using the Data Base:

After a county file has been uncompressed, it can be used with dBASE III+ or compatible software programs.

Getting Started:

The following are some dBASE III+ commands that will get a person started:

Type DBASE and press enter. If the hard drive has a different setup, you may need to get to the dBASE subdirectory by another route. With the dot prompt showing, type USE (county file name) and press enter. Now that data file is in dBASE. Type BROWSE and press enter. The data fields and records can be viewed and changed.

Hard Copy:

If a hard copy of the data is needed, the program PRMILO93.PRG written by Steven Baker of the Oregon Department of Energy can be used. This is a dBASE III+ compatible program to print out one of the county data bases, one site per page. Your printer must be in compressed mode, 17 characters per inch and should be placed into the compressed mode before starting the program. Type DO PRMILO93 and press enter. The program will ask the name of the data base to print. For example, answering with LANE93 will load and print the LANE93.DBF file. In this case, the command will print all 300 records, which takes a lot of paper. The data base file to print must be in your default directory. (The file, SAMP_PRN.TXT, is an approximation

of the hard copy for Black Butte Mine from the LANE93.DBF. To print this file, set your printer to 17 characters per inch and use the DOS PRINT command.)

Data for Part of County:

If data are needed for only one part of a county, another file can be generated by typing COPY TO (file name) FOR (field name)="(insert statement that will give you the sort you want)". NOTE ALL DATA IN THE DATA BASE ARE IN CAPITAL LETTERS. An example is: COPY TO (file name) FOR TOWNSHIP="30S" .AND. RANGE="40W". The T_CODE AND R_CODES could have been used. In that case the command would be COPY TO (file name) FOR T_CODE="40" .AND. R_CODE="60". The new file will now contain all the records that fall within that township and range. If data based on a commodity is needed, the Substring symbol should be used so that all sites that list that commodity can be found. In this case the command would be COPY TO (file name) FOR "MN"\$ COMOD_PRES. The new file will have all sites that manganese was listed under the field COMOD_PRES. To get a hard copy of the records, type DO PRMILO93 and press enter. When the question "File Name" appears on the screen, type the name of the new file and press enter. All the records in the new file will be printed out.

How To Add Records To The Data Base

For federal, state, local agencies and/or private parties that wish to add to the data base, PLEASE send the records on a floppy disk to the Department office in your area. The file should be a ".dbf" file with the same structure as one of MILOC93.LZH county files. NOTE ALL DATA SHOULD BE ENTERED WITH CAPITAL LETTERS.

How To Correct Record Data

If errors are found in this data base, PLEASE make a hard copy of that record using PRMILO93.PRG. Then make the correction on the hard copy with a color pen. The hard copy should be sent to the Department office in your area.

Where To Send Data Base Additions And Corrections

Data base additions and corrections for counties in northwest Oregon (Benton, Clackamas, Clatsop, Columbia, Hood River, Lincoln, Linn, Marion,

Multnomah, Polk, Tillamook, Washington, Yamhill) should be sent to: Ronald P. Geitgey, Oregon Department of Geology and Mineral Industries, Suite 965, 800 N.E. Oregon Street #28, Portland, Oregon 97232, (503) 731-4100 FAX (503) 731-4066.

Data base additions and corrections for counties in southwest Oregon (Coos, Curry, Douglas, Jackson, Josephine, Klamath, Lake, and Lane) should be sent to: Frank R. Hladky, Oregon Department of Geology and Mineral Industries, 5375 Monument Drive, Grants Pass, Oregon 97526 (503) 476-2496.

Data base additions and corrections for eastern Oregon counties (Baker, Crook, Deschutes, Gilliam, Grant, Harney, Jefferson, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, and Wheeler) should be sent to: Mark L. Ferns, Oregon Department of Geology and Mineral Industries, 1831 1st Street, Baker City, Oregon 97814, (503) 532-3133.

Acknowledgments

This data base is the result of interagency and individual cooperation. Agencies involved in this project include: BLM, USBM, USFS, USGS, Oregon Department of Energy, Oregon Department of Forestry, Oregon Department of Geology and Mineral Industries (DOGAMI), Oregon Department of Land Conservation and Development, Department of State Lands, Oregon Department of Transportation - Highway Division, Oregon Department of Water Resources, counties such as Deschutes, Polk, and Yamhill, and private timber firms. Steven Baker, Oregon Department of Energy, was indispensable to this

project. Steve downloaded USBM and USGS raw data into dBASE III+ at least twice and wrote many programs (including the PRMILO93.PRG), spending many long hours of his own time on this project. James Ridenour, USBM, provided MILS data. Ray Arndt, USGS, provided CRIB/MRDS data. Eric Hoffman, BLM, and Robert Fujimoto, USFS, arranged partial funding for the project. Daniel Wickwire, BLM, digitized the Department's Mined Land Reclamation sites. DOGAMI staff Mark E. Neuhaus, Paul E. Staub, and John D. Beaulieu provided advice and technical review.

Maintenance: To provide for a usable data base in the future, DOGAMI recognizes the following needs:

1. The data base should be updated at least once a year.
2. The data base should be customized for use by other agencies and/or subunits of agencies.
3. An outreach program to educate local, state, and federal agencies on the use and updating of MILOC93 should be continued.

The MILOC93 data base conforms to the Oregon State Advisory Council Digital Spatial Standards and Procedures, prepared by the GIS Standards and Procedures Working Group of the State Map Advisory Council, March 22, 1990, listed below. Information following colons indicates manner in which DOGAMI met these standards.

2.6 Source Graphic Lineage Report

2.6.1 The lineage of the source graphic must be recorded at the time of data capture. The database lineage will be available to other agencies for evaluation of database compatibility. The combination of the data capture Source Graphic Lineage Report and the output Data Quality Report, described in section 4.2, constitute the "Truth in Labeling" concept which is necessary in digital databases.

2.6.2 The Source Graphic Lineage Report must be available separately from the data transferred.

2.6.3 The Source Graphic Lineage Report must contain the following:

2.6.3.1 Name of source graphic: Mineral Industry Location System (MILS) of U.S. Bureau of Mines, Computerized Resources Information Bank (CRIB) of U.S. Geological Survey renamed to Mineral Resource Data System (MRDS), and DOGAMI Mined Land Reclamation program (MLR).

2.6.3.2 Scale of source graphic: 1:1,000 to 1:62,500.

2.6.3.3 Scale at which data are captured: 1:1,000 to 1:62,500.

2.6.3.4 Source Agency: MILS - U.S. Bureau of Mines; CRIB/MRDS - U.S. Geol. Survey; MLR - Oregon Dept. of Geol. & Mineral Indus. (DOGAMI).

2.6.3.5 Datum, if source graphic is in NAD 83: Not specifically available, but all topographic maps in use at the time of capture of original data entry were NDA-27.

2.6.3.6 Compilation date of source graphic: Ongoing to 1990 for MILS, 1980 for MRDS, and 1990 for DOGAMI-MLR.

2.6.3.7 Revision dates of source graphic: Ongoing within dates specified in 2.6.3.5.

2.6.3.8 Media used: Paper.

2.6.3.9 Quality of the media used: New paper topographic maps meeting national map accuracy standards.

2.6.3.10 Category of the data: Mineral prospects and mines.

2.6.3.11 Projection of the source graphic: Polyconic as used for U.S. Geological Survey topographic maps.

2.6.3.12 Date of automation: Various dates prior to 1990 for MILS, 1980 for USGS and 1990 MLR. May 5, 1991, for this MILOC93 data base.

2.6.3.13 Name of agency collecting the data: MILS - U.S. Bureau of Mines; CRIB/MRDS - U.S. Geological Survey; and MLR - DOGAMI. DOGAMI collected most data for USGS under subcontract.

2.6.3.14 Name of contractor if data are collected by contract: CRIB/MRDS - DOGAMI.

2.6.3.15 Software system, procedure, and version number used for actual data capture: MILS - Contact John Dillon, MAS Data Base Administrator, Minerals Availability Field Office, P.O. Box 25407, Bldg. 53, Denver Federal Center, Denver, CO 80225; CRIB/MRDS - Contact Raymond E. Arndt, Chief MRDS Project, U.S. Geological Survey, 920 National Center, Reston, VA 22092; MLR - Contact Daniel W. Wickwire, U.S. BLM, P.O. Box 2965, Mail Stop 995.6, Portland, OR 97208.

2.6.4 Any database created by merging information obtained from distinct sources must be described at sufficient detail to identify the actual source for each block of data in the file. In these cases, either a lineage code on each block of data or a quality overlay will be required. Original source is provided under "References" for each file.

2.6.5 The Source Graphic Lineage Report will be included in the Data Quality Report described in section 4.2 and the Data Element Dictionary described in section 5.

4 DIGITAL OUTPUT FORMAT STANDARDS

These Standards cover the file formats in which data should be delivered. It will also cover the minimum detail which should appear on spatial output graphics.

4.2 Data Quality Report

4.2.1 The Data Quality Report will contain all of the information identified in the Source Graphic Lineage Report described in section 2.6.

4.2.2 The Data Quality Report must contain the following:

4.2.2.1 The mathematical transformations of coordinates used in each step from the source material to the final product. The specific parameters used to make the transformation must be described for each particular database. Reference to the software manufacturers' published information will be acceptable: For MILS contact John Dillon, MAS Data Base Administrator, Minerals Availability Field Office, P.O. Box 25407, Building 53, Denver Federal Center, Denver, CO 80225; for CRIB/MRDS contact Raymond E. Arndt, Chief MRDS Project, U.S. Geological Survey, 920 National Center, Reston, VA 22092; and for MLR contact Daniel W. Wickwire, U.S. Bureau of Land Management, P.O. Box 2965, Mail Stop 955.6, Portland, OR

97208.

4.2.2.2 A deductive estimate of the positional error of each category in the database: For MILS and CRIB/MRDS 0.25 to 1.0 miles and for MLR 0.125 to 0.25 miles.

4.2.2.3 A subjective estimate of error for the attribute portrayal: reference specific.

4.2.2.4 Administrative restrictions to the release or use of the data, e.g., sensitive archeological site data: None.

4.2.2.5 Title of contact person and phone number for further information concerning the database collection: Mark L. Ferns, Oregon Department of Geology and Mineral Industries, 1831 1st Street, Baker City, Oregon 97814, (503) 532-3133.

