

# Database of the Mines and Prospects of Idaho: Metadata

by  
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*The Idaho Geological Survey does not guarantee Mines and Prospects data to be free of errors nor assume liability for interpretations made from these data, or decisions based thereon.*

Digital Database 1  
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# Database of the Mines and Prospects of Idaho: Metadata

## INTRODUCTION

This document has been created for the re-release of Digital Database 1 (DD-1) for version 1.2016.1. The intent was to collect much of the most commonly referenced metadata into a single convenient document compact enough for printing, if so desired. White space is used to help identify separate sections when scrolling. Though this is largely a compilation, the online data sources for geographic information system (GIS) derived attributes are not elsewhere. There are four metadata tables in the database that are not represented in this document, and should be referenced individually:

- [mines\_mdb\_tracking\_mdat] This table was created in 2010 to track major updates at a version scale.
- [TrackChange] This table was created in 2014 to record the many changes to individual properties and tables that occurred in preparation for the version 1.2015.1 release.
- [Z\_annotations] Dates in this table begin in 1999, and it contains information about procedures to locate and name several properties.
- [Z\_updates] Dates in this table begin in 1999, and it contains information about specific changes to a property's attributes, as well as tracking new references.

Also not included in this document, unlike previous metadata versions for DD-1, is a printout of Access' Database Documenter (found under Database Tools in Access 2013). The Documenter printout, even at the lowest level of detail, adds considerable size and bulk, and would make this document inconvenient for download and printing while adding little value.

There are tables, queries, scripts, and other objects within the database that may not be included or described in the metadata. Generally, these are procedural in nature and are associated with daily data entry and database maintenance, and would be of little to no use to the casual user. However, information about specific objects can be obtained by request.

NOTE: There are significant changes to table and field names in this version in order to bring the database closer to compliance with ESRI geodatabase conventions.

The metadata in this document are divided into sections according to data type and/or source:

- Section I: Hardware and Software Used. This section documents hardware and software used to develop this version, excepting specific custom scripts.
- Section II: Tables and Relationships. This is created by using screen captures of Access' Relationships tool (under Database Tools in Access 2013).
- Section III: DataDictionary. This is a printout of the DataDictionary table, which describes the field name, data type, and description for every table except the DataDictionary itself. Fields in tables generated by ArcGIS are described simply as 'ArcGIS.'
- Section IV: ReadMe. This is the ReadMe.txt file included in the download bundle. In part it contains some history of development of the database, files included with this release, abbreviations used, and data limitations.
- Section V: Feature Class Export. This section is an export from one of the feature classes included with DD-1. Both internal database feature classes, and the shapefile, share the same metadata.
- Section VI: GIS Data Sources. Select sources for GIS data used to update or populate attributes in this release.
- Section VII: Select Web App FAQ. Though this was developed for the [Mines web app](#), there is information that pertains to the Mines and Prospects database and not necessarily recorded elsewhere.
- Section VIII: Table, Field, and Datatype changes.

This document is a work in progress and provided as-is. Some duplication of information between sections can be expected. Questions about this document or DD-1 should be directed to Christopher Tate (208)-885-7540 [ctate@uidaho.edu](mailto:ctate@uidaho.edu).

The Mines and Prospects dataset is provided free of charge and without restriction to use, however, this document and other metadata will accompany or be provided for any and every copy distributed, and likewise any part of these data, without express consent from Idaho Geological Survey. Any alteration of these data must be openly and expressively disclosed to avoid misrepresentation of these data sources. Simply put, if these data are shared, the recipient receives the metadata. If the data is changed and shared, the recipient needs to be aware of change(s) not reviewed by Idaho Geological Survey.

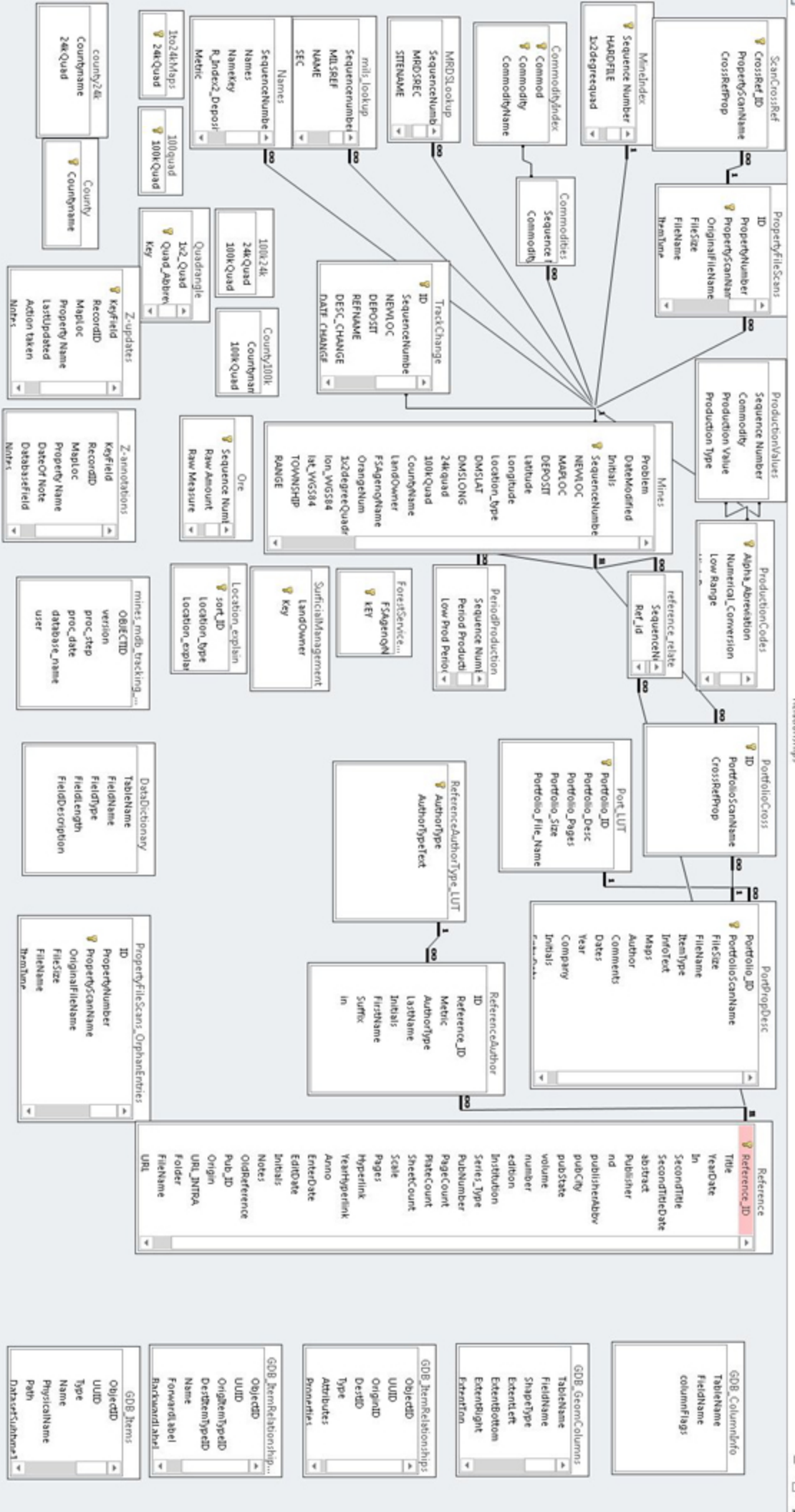
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## METADATA

### SECTION I: Hardware and Software Used

All work was done on PC-platform computers with a Windows 7 Professional (Build 7601) SP1 64-bit Operating System. For data transformation, data entry, and documentation Windows Office Suites 2010 and 2013 were used interchangeably. For GIS-derived attributes and products, ArcGIS 10.2.2.x was employed. Google Earth Pro was used as needed for location verification via remote-sensing and to assist with defining cross-referenced locations for some documents. Earth Point's web app was used to assist locating/verifying properties with public land survey system (PLSS)-derived locations. Scripts developed in Python, SQL, Visual Basic, and Windows Command Prompt were used for some data verification and database maintenance tasks.

## SECTION II: Tables and Relationships



## SECTION III: DataDictionary



	A	B	C	D	E
	TableName	FieldName	FieldType	FieldLength	FieldDescription
1	0_A_Last_Update	ID	Long	4	Unique ID for this table.
2	0_A_Last_Update	UpdateDate	Date/Time	8	Date of last successful update to the web, download bundle, feature class (note type/projection), .mdb file, KMZ, creation of new DataDictionary, or support docs/metadata.
3	0_A_Last_Update	Type	Text	255	Web or Download.
4	0_A_Last_Update	Database_DateStamp	Text	255	Datestamp of working database used for update.
5	0_A_Last_Update	Notes	Memo	0	Details about update. Note names of authors to assist future updates. Also track USGGDPP updates here. This info is to facilitate knowing cut-off dates for harvesting data/new updates.
6	0_A_Last_Update	Initials	Text	255	Initials of updater.
7	0_A_Last_Update	SequenceNumber	Text	10	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
8	0_Names	SeparatedNames_Deposit_FieldName	Text	255	A single mine name. This is the primary name if the mine has only one name; otherwise, each name is listed individually in this field, one name per line.
9	0_Names	NameKey	Text	50	Made of the SequenceNumber, a dash ( - ), and a five-digit number.
10	0_Names	R_Index2_Deposit_FieldName	Text	180	The complete name field for a property. If the mine has a single name, this field will contain only that name; if it has many names, all the names will be listed here.
11	0_Names	Metric	Long	4	Order of Appearance of Names from Original Database. Newly discovered alias names will be assigned a consecutively higher Metric value.
12	0_Names	AutoNumber	Long	4	The index for this table.
13	0_Names	Initials	Text	255	Initials of researcher that located this alias.
14	0_Z_updates	KeyField	Long	4	Index to this table.
15	0_Z_updates	RecordID	Text	50	For the main entry for each property, the RecordID is the same as the SequenceNumber.
16	0_Z_updates	MapLoc	Text	50	The number used to plot the property on a map. Usually the same as the RecordID.
17	0_Z_updates	Property Name	Text	50	The name of the property.
18	0_Z_updates	LastUpdated	Date/Time	8	The date the record was updated.
19	0_Z_updates	Action taken	Text	50	What field was updated and what was done to it (brief explanation).
20	0_Z_updates	Notes	Memo	0	Detailed explanation of what was updated and why.
21	0_Z_updates	Notes2	Memo	0	Additional notes, if needed.
22	0READ_ME_20160907	ID	Long	4	Unique ID for this table.
23	0READ_ME_20160907	REMEMBER	Memo	0	Status of updates for PropertyFilesScans from student efforts.
24	100K24k	24kQuad	Text	50	Name of the USGS 1:24,000 Scale Quad Name. This was taken from the USGS database for Idaho and referenced against IDWR 1:24,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain).
25					

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
25	100K24k	100KQuad	Text	50	Name of the USGS 1:100,000 Scale Quad Name. This was taken from the USGS database for Idaho and referenced against IDWR 1:100,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain)
26	100quad	100KQuad	Text	50	Name of the USGS 1:100,000 Scale Quad Name. This was taken from the USGS database for Idaho and referenced against IDWR 1:100,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain)
27	1to24kMaps	24kQuad	Text	255	Name of the USGS 1:24,000 Scale Quad Name. This was taken from the USGS database for Idaho and referenced against IDWR 1:24,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain).
28	Commodities	SequenceNumber	Text	255	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
29	Commodities	Commodity	Text	255	Element or commodity present at the property. For index of commodity abbreviations see Commodity Index table.
30	CommodityIndex	Commod	Text	50	CommodityName + two digit number derived from alphabetical order. To add additional: use the first letter of the CommodityName + the next 2-digit number for that letter.
31	CommodityIndex	Commodity	Text	50	Indexed abbreviation of the CommodityName for display in the property listings. Links to "Commodities,Commodity." Column CommodityName translates the commodity abbreviation for the actual commodity.
32	County	Countyname	Text	50	The spelled-out name of the commodity.
33	County	Countyname	Text	50	County Names of Idaho
34	County	Countyname	Text	255	County Names of Idaho (Idaho Counties in ALL CAPS).
35	County100k	100KQuad	Text	255	Name of the USGS 1:100,000 Scale Quad Name. This was taken from the USGS database for Idaho and referenced against IDWR 1:100,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain).
36	county24k	Countyname	Text	50	County Names of Idaho (Idaho Counties in ALL CAPS).
37	county24k	24kQuad	Text	50	Name of the USGS 1:24,000 Scale Quad Name. This was taken from the USGS database for Idaho and referenced against IDWR 1:24,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain).
38	DataDictionary	TableName	Text	255	Name of table.
39	DataDictionary	FieldName	Text	255	Name of field.
40	DataDictionary	FieldType	Text	255	Type of field.
41	DataDictionary	FieldLength	Double	8	Length of field.
42	DataDictionary	FieldDescription	Text	255	Description of field.
43	ForestServiceAgency	FSAgencyName	Text	255	Name of U.S. Forest or operational division
44	ForestServiceAgency	ID	Long	4	Index for this table.
45	GDB_ColumnInfo	TableName	Text	255	Name of table.

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
47	GDB_ColumnInfo	FieldName	Text	255	Name of field.
48	GDB_ColumnInfo	columnFlags	Long	4	Flags of column.
49	GDB_GeomColumns	TableName	Text	255	Name of table.
50	GDB_GeomColumns	FieldName	Text	255	Name of field.
51	GDB_GeomColumns	ShapeType	Long	4	Type of shape.
52	GDB_GeomColumns	ExtentLeft	Double	8	Left of extent.
53	GDB_GeomColumns	ExtentBottom	Double	8	Bottom of extent.
54	GDB_GeomColumns	ExtentRight	Double	8	Right of extent.
55	GDB_GeomColumns	ExtentTop	Double	8	Top of extent.
56	GDB_GeomColumns	IdxOriginX	Double	8	X of idx.
57	GDB_GeomColumns	IdxOriginY	Double	8	Y of idx.
58	GDB_GeomColumns	IdxGridSize	Double	8	Size of idx.
59	GDB_GeomColumns	SRID	Long	4	SRID of .
60	GDB_GeomColumns	HasZ	Boolean	1	Z of has.
61	GDB_GeomColumns	HasM	Boolean	1	M of has.
62	GDB_GeomColumns	ZLow	Double	8	ZLow of zlow.
63	GDB_GeomColumns	ZHigh	Double	8	ZHigh of zhigh.
64	GDB_GeomColumns	MLow	Double	8	MLow of mlow.
65	GDB_GeomColumns	MHigh	Double	8	MHigh of mhigh.
66	GDB_ItemRelationships	ObjectID	Long	4	ID of object.
67	GDB_ItemRelationships	UUID	GUID	16	UUID of .
68	GDB_ItemRelationships	OriginID	GUID	16	ID of origin.
69	GDB_ItemRelationships	DestID	GUID	16	ID of dest.
70	GDB_ItemRelationships	Type	GUID	16	Type of type.
71	GDB_ItemRelationships	Attributes	Memo	0	Attributes of attributes.
72	GDB_ItemRelationships	Properties	Long	4	Properties of properties.
73	GDB_ItemRelationshipTypes	ObjectID	Long	4	ID of object.
74	GDB_ItemRelationshipTypes	UUID	GUID	16	UUID of .
75	GDB_ItemRelationshipTypes	OriginTypeID	GUID	16	ID of orig.
76	GDB_ItemRelationshipTypes	DestItemTypeID	GUID	16	ID of dest.
77	GDB_ItemRelationshipTypes	Name	Text	160	Name of name.
78	GDB_ItemRelationshipTypes	ForwardLabel	Text	255	Label of forward.
79	GDB_ItemRelationshipTypes	BackwardLabel	Text	255	Label of backward.
80	GDB_ItemRelationshipTypes	IsContainment	Integer	2	Containment of is.
81	GDB_Items	ObjectID	Long	4	ID of object.
82	GDB_Items	UUID	GUID	16	UUID of .
83	GDB_Items	Type	GUID	16	Type of type.
84	GDB_Items	Name	Text	160	Name of name.
85	GDB_Items	PhysicalName	Text	160	Name of physical.
86	GDB_Items	Path	Memo	0	Path of path.
87	GDB_Items	DatasetSubtype1	Long	4	Subtype1 of dataset.
88	GDB_Items	DatasetSubtype2	Long	4	Subtype2 of dataset.
89	GDB_Items	DatasetInfo1	Text	255	Info1 of dataset.

A		B		C		D		E	
1	TableName	FieldName	FieldType	FieldLength	FieldDescription				
90	GDB_Items	DatasetInfo2	Text	255	Info2 of dataset.				
91	GDB_Items	URL	Text	255	URL of .				
92	GDB_Items	Definition	Memo	0	Definition of definition.				
93	GDB_Items	Documentation	Memo	0	Documentation of documentation.				
94	GDB_Items	ItemInfo	Memo	0	Info of item.				
95	GDB_Items	Properties	Long	4	Properties of properties.				
96	GDB_Items	Defaults	Long Binary	0	Defaults of defaults.				
97	GDB_Items	Shape	Long Binary	0	Shape of shape.				
98	GDB_Items	Shape_Index	Long	4	Id of indexed.				
99	GDB_Items	Shape_Index	Long	4	GX of min.				
100	GDB_Items	Shape_Index	Long	4	GY of min.				
101	GDB_Items	Shape_Index	Long	4	GX of max.				
102	GDB_Items	Shape_Index	Long	4	GY of max.				
103	GDB_ItemsTypes	MaxGX	Long	4	GY of max.				
104	GDB_ItemsTypes	ObjectID	Long	4	ID of object.				
105	GDB_ItemsTypes	UUID	GUID	16	UUID of .				
106	GDB_ItemsTypes	ParentTypeID	GUID	16	ID of parent.				
107	GDB_ItemsTypes	Name	Text	160	Name of name.				
108	GDB_ItemsTypes	ID	Long	4	ID of .				
109	GDB_ReplicaLog	ReplicaID	Long	4	ID of replica.				
110	GDB_ReplicaLog	Event	Long	4	Event of event.				
111	GDB_ReplicaLog	ErrorCode	Long	4	Code of error.				
112	GDB_ReplicaLog	LogDate	Date/Time	8	Date of log.				
113	GDB_ReplicaLog	SourceBeginGen	Long	4	Gen of source.				
114	GDB_ReplicaLog	SourceEndGen	Long	4	Gen of source.				
115	GDB_ReplicaLog	TargetGen	Long	4	Gen of target.				
116	GDB_SpatialRefs	SRID	Long	4	SRID of .				
117	GDB_SpatialRefs	SRTEXT	Memo	0	SRTEXT of srtext.				
118	GDB_SpatialRefs	FalseX	Double	8	X of false.				
119	GDB_SpatialRefs	FalseY	Double	8	Y of false.				
120	GDB_SpatialRefs	XYUnits	Double	8	XYUnits of xyunits.				
121	GDB_SpatialRefs	FalseZ	Double	8	Z of false.				
122	GDB_SpatialRefs	ZUnits	Double	8	ZUnits of zunits.				
123	GDB_SpatialRefs	FalseM	Double	8	M of false.				
124	GDB_SpatialRefs	MUnits	Double	8	MUnits of munits.				
125	GDB_SpatialRefs	IsHighPrecision	Long	4	Precision of is.				
126	GDB_SpatialRefs	XYTolerance	Double	8	XYTolerance of xytolerance.				
127	GDB_SpatialRefs	ZTolerance	Double	8	ZTolerance of ztolerance.				
128	GDB_SpatialRefs	MTolerance	Double	8	MTolerance of mtolerance.				
129	Location_explain	sort_ID	Long	4	Unique ID for this table				
130	Location_explain	Location_type	Text	10	Type ID				
131	Location_explain	Location_explanation	Text	255	Explanation of how location was obtained for this property				
	mils_lookup	SequenceNumber	Text	10	For the main entry for each property, the SequenceNumber is the same as the Property Number				

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
132	mils_lookup	MILSREF	Long	4	Reference Number in the U.S. Bureau of Mines' Mineral Industry Location Subsystem (MILS)
133	mils_lookup	NAME	Text	36	MILS: Property name(s) as listed in MILS
134	mils_lookup	SEC	Text	2	MILS: Section where property is located
135	mils_lookup	SUBSEC	Text	6	MILS: Subsection where property is located
136	mils_lookup	TWN	Text	5	MILS: Township where property is located
137	mils_lookup	RNG	Text	5	MILS: Range where property is located
138	mils_lookup	DDMMSS	Text	6	MILS: Latitude as given in MILS database
139	mils_lookup	DDDMSS	Text	7	MILS: Longitude as given in MILS database
140	mils_lookup	OPTYP	Text	20	MILS: Type of operation (underground, surface, placer, prospect, etc.)
141	mils_lookup	STATUS	Text	20	MILS: Last known status of the operation (active, inactive, exploration, etc.) according to MILS.
142	mils_lookup	COMMO1	Text	10	MILS: Commodity 1
143	mils_lookup	COMMO2	Text	10	MILS: Commodity 2
144	mils_lookup	COMMO3	Text	10	MILS: Commodity 3
145	mils_lookup	COMMO4	Text	10	MILS: Commodity 4
146	mils_lookup	COMMO5	Text	10	MILS: Commodity 5
147	mils_lookup	MAPNAME	Text	17	MILS: 7.5-minute (or 15 minute) map on which the property is found
148	mils_lookup	QUAD	Text	12	MILS: 1-degree by 2-degree on which the property occurs
149	mils_lookup	POP	Text	5	MILS: Precision of the point where MILS location is plotted
150	mils_lookup	TOE	Text	1	MILS: Type of evaluation
151	mils_lookup	YFC	Text	4	MILS: Year property was field checked
152	mils_lookup	MPF	Text	6	MILS: U.S. Bureau of Mines Mineral Property File Number
153	mils_lookup	Mils_Lookup_Key	Long	4	Key to this table
154	MineIndex	SequenceNumber	Text	10	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
155	MineIndex	HARDFILE	Text	1	Is there a file on this property in the IGS's mineral property files?
156	MineIndex	1x2degrequad	Text	5	AS=Aston, BA=Baker, BO=Boise, CH=Challis, DI=Dillon, DR=Driggs, DU=Dubois, EC=Elk City, GR=Grangeville, HA=Hailey, HM=Hamilton, IF=Idaho Falls, JV=Jordan Valley, PL=Pullman, PO=Pocatello, PR=Preston, SA=Sandpoint, SP=Spokane, TF=Twin Falls, WL=Wallace
157	MineIndex	HardFile_Boolean	Boolean	1	Yes/No field used to verify the presence of a hard file at the IGS library (As Checked by B,B.E.S. August, 1999 -- and updated regularly)
158	MineIndex	LocationUpdated	Boolean	1	To verify the location updated (AML study). Digitized locations from original USGS 1:24k maps, hand-plotted locations. If Yes, Margin of error +/- 20 feet. If No, digitized from 1:250k maps.
159	MineIndex	ProductionValue	Boolean	1	Indicates presence of Production data in ProductionValue table. Production is taken from confidential papers on file at the IGS. Values have been coded to preserve confidentiality. (See ProductionCodes for key).
160	MineIndex	CommoditiesValue	Boolean	1	Indicates presence of Commodities data in Commodities table. Commodities are taken from papers on file at the IGS.

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
161	MineIndex	Ore	Boolean	1	Indicates presence of Ore data in Ore table. Ore data is taken from confidential production papers on file at the IGS. Values have been coded to preserve confidentiality. (See ProductionCodes for key).
162	MineIndex	PeriodProduction	Boolean	1	Indicates presence of Years of Production in the PeriodProduction table. Period of Production data is taken from papers on file at the IGS.
163	MineIndex	MLA	Boolean	1	Indicates presence of USBM OFR MLA reports relating to a property. These will also show in the references for the property.
164	MineIndex	OrangeNum	Boolean	1	Indicates whether property was in original orange-covered edition of Mines and Prospects Map Series.
165	MineIndex	OrangeNum2	Boolean	1	Indicates whether property was in second edition of Mines and Prospects Map Series. Not all quadrangles were printed a second time.
166	MineIndex	Updated	Boolean	1	Indicates whether the property has been updated.
167	MineIndex	Annotation	Boolean	1	Indicates whether an entry has been made in the annotation field.
168	MineIndex	Lode	Boolean	1	Indicates whether the property is a lode deposit (if known).
169	MineIndex	Placer	Boolean	1	Indicates whether the property is a placer deposit (if known).
170	MineIndex	FieldChecked	Boolean	1	Indicates whether the property has been field checked.
171	MineIndex	Scanned	Boolean	1	Indicates whether the property file, if any, for this property has been scanned.
172	Mines	Problem	Text	255	Comment field for changes needed to be made to this entry. Copy comment to TrackChange or Z-table(s) and delete from here.
173	Mines	DateModified	Date/Time	8	Date of last alteration. Copy as the 'Problem' field.
174	Mines	Initials	Text	255	Initials of author to last alter this record.
175	Mines	SequenceNumber	Text	10	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
176	Mines	NEWLOC	Text	6	Property Number, including quadrangle abbreviation and sequence number. This field is archaic and now obsolete.
177	Mines	MAPLOC	Text	6	The Property Number, without the quadrangle identifier.
178	Mines	DEPOSIT	Text	180	Name and synonym names for the mine or prospect.
179	Mines	Latitude	Double	8	Latitude in NAD27, as digitized from 1:250,000 base AND see "location_type" field for information about updated locations.
180	Mines	Longitude	Double	8	Longitude in NAD 27, as digitized from 1:250,000 base AND see "location_type" field for information about updated locations.
181	Mines	Location_type	Long	4	Location information: 3= Locations updated in 2009 using data from mineral property files and verified on 1:24,000 scale quadrangles.
182	Mines	DMSLAT	Double	8	Degree Minute Second Latitude, as digitized from 1:250,000 base; or as updated from field work (see Updates table) AND see "location_type" field for information about updated locations.
183	Mines	DMSLONG	Double	8	Degree Minute Second Longitude, as digitized from 1:250,000 base; or as updated from field work (see Updates table) AND see "location_type" field for information about updated locations.

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
184	Mines	24kquad	Text	50	Name of the USGS 1:24,000 Scale Quad Name. This was taken from the USGS database for Idaho and referenced against IDWR 1:24,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain).
	Mines	100kQuad	Text	50	Name of the USGS 1:100,000 Scale Quad name. This was taken from the USGS database for Idaho and referenced against IDWR 1:100,000 Quad index. Names were changed based on the name of the USGS quad. Some common names were spelled out (ex. Mtn to Mountain).
185	Mines	CountyName	Text	50	County Names of Idaho s (Idaho Counties in ALL CAPS).
187	Mines	LandOwner	Text	50	Surface Management Agency of Idaho: based on IGS mine locations against 2009 INSIDE IDAHO ( <a href="http://inside.uidaho.edu">http://inside.uidaho.edu</a> )
188	Mines	FSAgencyName	Text	50	Name of U.S. Forest or Forest Service administrative unit.
189	Mines	OrangeNum	Text	255	Old number associated with IGS "Mines and Prospects Maps" series; last updated in 1992
190	Mines	1x2degreeQuadrangle	Text	255	1x2 degree Quadrangle name
191	Mines	lon_WGS84	Double	8	Longitude in WGS84 datum: as digitized from 1:250,000 base AND see "location_type" field for information about updated locations.
192	Mines	lat_WGS84	Double	8	Latitude in WGS84 datum: as digitized from 1:250,000 base AND see "location_type" field for information about updated locations.
193	Mines	TOWNSHIP	Text	255	Idaho PLSS Township.
194	Mines	RANGE	Text	255	Idaho PLSS Range.
195	Mines	SECTION	Long	4	Idaho PLSS Section.
196	Mines	QSECTION	Text	255	Idaho PLSS quarter section.
197	Mines	OBJECTID	Long	4	ArcGIS Field for registering table in geodatabase.
198	Mines	ZIP_CODE	Long	4	ZIP attribute for property.
199	Mines	Mining_District	Text	255	Potential Mining District (see documentation for source and reference data!).
200	Mines	Hard File	Text	255	Yes or No indication for Mineral Property File at IGS.
201	mines_mdb_tracking_mdat	OBJECTID	Long	4	Unique ID for records entered in this table.
202	mines_mdb_tracking_mdat	version	Text	14	internal IGS identification code for database version
203	mines_mdb_tracking_mdat	proc_step	Memo	0	2.5.2.1: process description; explanation of the event and related parameters or tolerances; tracks changes to statewide geology GDB
204	mines_mdb_tracking_mdat	proc_date	Text	20	2.5.2.3: date when the event was completed
205	mines_mdb_tracking_mdat	database_name	Text	200	database name
206	mines_mdb_tracking_mdat	user	Text	50	Initials of database admin making changes
207	mines_WGSS84	Problem	Text	255	Problem of problem.
208	mines_WGSS84	DateModified	Date/Time	8	Modified of date.
209	mines_WGSS84	Initials	Text	255	Initials of initials.
210	mines_WGSS84	SequenceNumber	Text	10	Number of sequence.
211	mines_WGSS84	NEWLOC	Text	6	NEWLOC of newlo.
212	mines_WGSS84	MAPLOC	Text	6	MAPLOC of maplo.
213	mines_WGSS84	DEPOSIT	Text	180	DEPOSIT of depos.
214	mines_WGSS84	Latitude	Double	8	Latitude of latitude.

	A	B	C	D	E
	TableName	FieldName	FieldType	FieldLength	FieldDescription
1	Mines_WGSS84	Longitude	Double	8	Longitude of longitude.
215	Mines_WGSS84	Location_type	Long	4	Location_type of location.
216	Mines_WGSS84	DMSLAT	Double	8	DMSLAT of dmsla.
217	Mines_WGSS84	DMSLONG	Double	8	DMSLONG of dmssl.
218	Mines_WGSS84	F24kquad	Text	50	F24kquad of f24kquad.
219	Mines_WGSS84	F100kquad	Text	50	Quad of f100k.
220	Mines_WGSS84	CountyName	Text	50	Name of county.
221	Mines_WGSS84	LandOwner	Text	50	Owner of land.
222	Mines_WGSS84	FSAgencyName	Text	50	Name of fsagency.
223	Mines_WGSS84	OrangeNum	Text	255	Num of orange.
224	Mines_WGSS84	Flx2degreeQuadrangle	Text	255	Quadrangle of flx.
225	Mines_WGSS84	lon_WGSS84	Double	8	WGSS84 of lon.
226	Mines_WGSS84	lat_WGSS84	Double	8	WGSS84 of lat.
227	Mines_WGSS84	TOWNSHIP	Text	255	TOWNSHIP of towns.
228	Mines_WGSS84	RANGE	Text	255	RANGE of range.
229	Mines_WGSS84	SECTION_	Long	4	SECTION_ of secti.
230	Mines_WGSS84	QSECTION	Text	255	QSECTION of qsect.
231	Mines_WGSS84	OBJECTID	Long	4	OBJECTID of objec.
232	Mines_WGSS84	ZIP_CODE	Text	4	CODE of zip_c.
233	Mines_WGSS84	Mining_District	Text	255	District of mining.
234	Mines_WGSS84	Shape	Long Binary	0	Shape of shape.
235	Mines_WGSS84	IndexedObjectID	Long	4	Id of indexed.
236	Mines_WGSS84	MinGX	Long	4	GX of min.
237	Mines_WGSS84	MinGY	Long	4	GY of min.
238	Mines_WGSS84	MaxGX	Long	4	GX of max.
239	Mines_WGSS84	MaxGY	Long	4	GY of max.
240	Mines_WGSS84	Problem	Text	255	Problem of problem.
241	Mines_WGSS84	DateModified	Date/Time	8	Modified of date.
242	Mines_WGSS84	Initials	Text	255	Initials of initials.
243	Mines_WGSS84	SequenceNumber	Text	10	Number of sequence.
244	Mines_WGSS84	NEWLOC	Text	6	NEWLOC of newlo.
245	Mines_WGSS84	MAPLOC	Text	6	MAPLOC of maplo.
246	Mines_WGSS84	DEPOSIT	Text	180	DEPOSIT of depos.
247	Mines_WGSS84	Latitude	Double	8	Latitude of latitude.
248	Mines_WGSS84	Latitude	Double	8	Latitude of latitude.



	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
	Mines_WGSS84_Web_Mercator	Longitude	Double	8	Longitude of longitude.
249	Mines_WGSS84_Web_Mercator_Aux_Sphere	Location_type	Long	4	Location_type of location.
250	Mines_WGSS84_Web_Mercator_Aux_Sphere	DMSLAT	Double	8	DMSLAT of dmsla.
251	Mines_WGSS84_Web_Mercator_Aux_Sphere	DMSLONG	Double	8	DMSLONG of dmslo.
252	Mines_WGSS84_Web_Mercator_Aux_Sphere	F24kquad	Text	50	F24kquad of f24kquad.
253	Mines_WGSS84_Web_Mercator_Aux_Sphere	F100kquad	Text	50	Quad of f100k.
254	Mines_WGSS84_Web_Mercator_Aux_Sphere	CountyName	Text	50	Name of county.
255	Mines_WGSS84_Web_Mercator_Aux_Sphere	LandOwner	Text	50	Owner of land.
256	Mines_WGSS84_Web_Mercator_Aux_Sphere	FSAgencyName	Text	50	Name of fsagency.
257	Mines_WGSS84_Web_Mercator_Aux_Sphere	OrangeNum	Text	255	Num of orange.
258	Mines_WGSS84_Web_Mercator_Aux_Sphere	F1x2degreeQuadrangle	Text	255	Quadrangle of f1x.
259	Mines_WGSS84_Web_Mercator_Aux_Sphere	lon_WGSS84	Double	8	WGSS84 of lon.
260	Mines_WGSS84_Web_Mercator_Aux_Sphere	lat_WGSS84	Double	8	WGSS84 of lat.
261	Mines_WGSS84_Web_Mercator_Aux_Sphere	TOWNSHIP	Text	255	TOWNSHIP of towns.
262	Mines_WGSS84_Web_Mercator_Aux_Sphere	RANGE	Text	255	RANGE of range.
263	Mines_WGSS84_Web_Mercator_Aux_Sphere	SECTION_	Long	4	SECTION_ of secti.
264	Mines_WGSS84_Web_Mercator_Aux_Sphere	QSECTION	Text	255	QSECTION of qsect.
265	Mines_WGSS84_Web_Mercator_Aux_Sphere	OBJECTID	Long	4	OBJECTID of objec.
266	Mines_WGSS84_Web_Mercator_Aux_Sphere	ZIP_CODE	Long	4	CODE of zip_c.
267	Mines_WGSS84_Web_Mercator_Aux_Sphere	Mining_District	Text	255	District of mining.
268	Mines_WGSS84_Web_Mercator_Aux_Sphere	Shape	Long Binary	0	Shape of shape.
269	Mines_WGSS84_Web_Mercator_Aux_Sphere				

	A	B	C	D	E
	TableName	FieldName	FieldType	FieldLength	FieldDescription
1	Mines_WGSS84_Web_Mercator	IndexedObjectId	Long	4	Id of indexed.
270	_Aux_Sphere_Shape_Index	MinGX	Long	4	GX of min.
271	_Aux_Sphere_Shape_Index	MinGY	Long	4	GY of min.
272	_Aux_Sphere_Shape_Index	MaxGX	Long	4	GX of max.
273	_Aux_Sphere_Shape_Index	MaxGY	Long	4	GY of max.
274	Mines_WGSS84_Web_Mercator	SequenceNumber	Text	10	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
275	MinesExport	Location_type	Long	4	Location information: 3 = Locations updated in 2009 using data from mineral property files and verified on 1:24,000 scale quadrangles.
276	MinesExport	lon_WGSS84	Double	8	Longitude in WGSS84 datum: as digitized from 1:250,000 base AND see "location_type" field for information about updated locations.
277	MinesExport	lat_WGSS84	Double	8	Latitude in WGSS84 datum: as digitized from 1:250,000 base AND see "location_type" field for information about updated locations.
278	MinesExport	SequenceNumber	Text	10	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
279	MRDSLlookup	MIRDSREC	Text	50	Record Number in the USGS's Mineral Resources Data System (MRDS)
280	MRDSLlookup	SITENAME	Text	55	MRDS: Property name(s) as listed in MRDS
281	MRDSLlookup	DISTRICT	Text	55	MRDS: Mining district name (not always correct)
282	MRDSLlookup	COUNTY	Text	20	MRDS: County in which property is located.
283	MRDSLlookup	COUNTY2	Text	50	IGS: Secondary county in which the property is located.
284	MRDSLlookup	SECUAD	Text	25	MRDS: Name of quadrangle map on which property is located
285	MRDSLlookup	SECUADSC	Text	15	MRDS: Scale of map
286	MRDSLlookup	UTMNORTH	Text	7	MRDS: Universal Transverse Mercator (UTM) northing
287	MRDSLlookup	UTMEAST	Text	7	MRDS: Universal Transverse Mercator (UTM) easting
288	MRDSLlookup	UTMZONE	Text	3	MRDS: Universal Transverse Mercator (UTM) zone
289	MRDSLlookup	COMMODIT	Text	25	MRDS: Commodities found at the property
290	MRDSLlookup	LAT	Text	9	MRDS: Latitude as given in MRDS
291	MRDSLlookup	LO	Text	10	MRDS: Longitude as given in MRDS
292	MRDSLlookup	TOWN	Text	5	MRDS: Township where property is located, as given in MRDS
293	MRDSLlookup	SECTION	Text	8	MRDS: Section where property is located, as given in MRDS
294	MRDSLlookup	RANGE	Text	5	MRDS: Range where property is located, as given in MRDS
295	MRDSLlookup	MirdsllookupKey	Long	4	Lookup Key for this table
296	MRDSLlookup	SequenceNumber	Text	10	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
297	Names	Names	Text	255	A single mine name. This is the primary name if the mine has only one name; otherwise, each name is listed individually in this field, one name per line.
298	Names	NameKey	Text	50	Made of the SequenceNumber, a dash (-), and a five-digit number.

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
300	Names	CompositeName	Memo	0	The complete name field for a property. If the mine has a single name, this field will contain only that name; if it has many names, all the names will be listed here.
301	Names	Metric	Long	4	Order of Appearance of Names from Original Database. Newly discovered alias names will be assigned a consecutively higher Metric value.
302	Names	AutoNumber	Long	4	The index for this table.
303	Names	Initials	Text	255	Initials of researcher that located this alias.
304	OrangeNum	SequenceNumber	Text	10	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
305	OrangeNum	1x2 Degree Quad	Text	5	AS=Ashton, BA=Baker, BO=Boise, CH=Challis, DI=Dillon, DR=Driggs, DU=Dubois, EC=Elk City, GR=Grangeville, HA=Hailey, HM=Hamilton, IF=Idaho Falls, JV=Jordan Valley, PL=Pullman, PO=Pocatello, PR=Preston, SA=Sandpoint, SP=Spokane, TF=Twin Falls, WL=Wallace
306	OrangeNum	ORANGENUM	Long	4	Property ID Number used in the first edition of the Mines and Prospects series (orange covers). Some sites have more than one ORANGENUM, if they were later discovered to represent duplicate names/information for the same site.
307	OrangeNum	2ndEdition	Long	4	Property ID Number used in the second edition of the Mines and Prospects series (gray covers). Updated for some properties only.
308	OrangeNum	Auto	Long	4	Unique ID for records in this table.
309	Ore	SequenceNumber	Text	255	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
310	Ore	RawAmount	Text	20	The amount of ore produced by the mine or placer. See ProductionCodes for explanation of the alphabetical code.
311	Ore	RawMeasure	Text	20	The unit in which the ore was measured (tons or yards).
312	Ore	TailingsAmount	Text	20	The amount of tailings reprocessed by the mine or placer. See ProductionCodes for explanation of the alphabetical code.
313	Ore	TailingsMeasure	Text	20	The unit in which the tailings was measured (tons or yards).
314	OrphanEntries	ID	Long	4	Unique ID for this table.
315	OrphanEntries	PropertyScanName	Text	255	Unique name for scanned file. IGS property number ID (SequenceNumber) followed by an identifier (such as WL0001_001 or WL0001-m001)
316	OrphanEntries	OriginalFileName	Text	255	Name created by Wallace Mining Museum
317	OrphanEntries	FileSize	Long	4	In kb
318	OrphanEntries	FileName	Text	255	Full file name including extension i.e. WL0001_001.pdf. Used for web retrieval of file.
319	OrphanEntries	ItemType	Text	255	Description of type of document, such as: map, Idaho State Mine Inspector Report, correspondence, misc., etc.
320	OrphanEntries	InfoText	Text	255	Descriptive or pertinent ancillary information about the document. This field WILL be on the web interface, so keep it sweet and short.
321	OrphanEntries	Author	Text	255	Author of document, when not implied in ItemType.

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
322	OrphanEntries	Comments	Text	255	Explanatory information. For administrator information. Will not be seen on web.
323	OrphanEntries	FolderName	Text	255	Folder location of files. Should be in name of 2 degree quad that property is named from.
324	OrphanEntries	Dates	Text	255	Can be single year, in addition to date ranges i.e. 1903, 1910-1930, 1931-1944. This is not a searchable field, but for information and reference.
325	OrphanEntries	MapsToReview	Text	255	Yes or No, list number of maps needed to review. Enter this info on first round of data entry.
326	OrphanEntries	Re-scan file	Boolean	1	Check box for yes file needs re-scanned
327	OrphanEntries	Cross-Ref Properties Comments	Text	255	Properties mentioned in documents but without a property number and not located in the IGS records.
328	OrphanEntries	Year	Text	255	Earliest known year of the document. This is a searchable field. Leave Null if no date is available.
329	OrphanEntries	Company	Text	255	Name of mining company affiliated with the origination of the document, when known. It may not be the owner of the property in all circumstances. Only used when company originated document.
330	OrphanEntries	Initials	Text	255	Initials of person that entered records (started in Dec., 2014). This is for internal tracking.
331	OrphanEntries	EntryDate	Date/Time	8	Date of entry. This is for internal tracking.
332	PeriodProduction	SequenceNumber	Text	255	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
333	PeriodProduction	PeriodProduction	Text	255	Range of years during which production was recorded for the mine. Multiple date ranges may be recorded for a single mine if the gap between the production periods is long enough.
334	PeriodProduction	LowProdPeriod1	Text	255	Earliest year for which production was recorded for the mine.
335	PeriodProduction	HighProdPeriod1	Text	255	Latest year for which production was recorded for the mine.
336	Port_LUT	Portfolio_ID	Text	255	The portfolio ID.
337	Port_LUT	Portfolio_Desc	Memo	0	General description of the overall portfolio.
338	Port_LUT	Portfolio_Pages	Long	4	Number of pages in zipped .pdf.
339	Port_LUT	Portfolio_Size	Long	4	Size in KB of zipped portfolio.
340	Port_LUT	Portfolio_File_Name	Text	255	Name of .zip file for portfolio as found in \\igs-boxwork\Data\MineDocs.
341	PortfolioCross	ID	Long	4	Unique ID for this table.
342	PortfolioCross	PortfolioScanName	Text	255	The ID for the portfolio scan: where XX is the portfolio ID and _XXX is the individual scan within that portfolio.
343	PortfolioCross	CrossRefProp	Text	255	IGS property that is related to the portfolio scan.
344	PortPropDesc	Portfolio_ID	Text	255	Portfolio Identifier (prefix ie. XX).
345	PortPropDesc	PortfolioScanName	Text	255	Portfolio scan name (page ie. XX_XXX).
346	PortPropDesc	FileSize	Double	8	Size of .pdf in KB.
347	PortPropDesc	FileName	Text	255	Name of .pdf file.
348	PortPropDesc	ItemType	Text	255	Type of information, such as map or ledger.
349	PortPropDesc	InfoText	Text	255	Description of scan.
350	PortPropDesc	Maps	Long	4	Number of maps.
351	PortPropDesc	Author	Text	255	Author name or initials if available.

	A	B	C	D	E
	TableName	FieldName	FieldType	FieldLength	FieldDescription
1	TableDesc	Comments	Text	255	Comments for in-house use.
352	PortPropDesc	Dates	Text	255	Text field for dates including months, days, and ranges. Use 'undated' for no date.
353	PortPropDesc	Year	Double	8	Earliest year associated with scan. Use '9999' for no date.
354	PortPropDesc	Company	Text	255	Mining company that generated document.
355	PortPropDesc	Initials	Text	255	Initials of person entering data.
356	PortPropDesc	Entry/Date	Date/Time	8	Date data was entered or altered for this entry.
357	ProductionCodes	Alpha_Abbreviation	Text	2	The Alphabetical Abbreviation used to keep the production information confidential. Precede with a space if sole character.
358	ProductionCodes	Numerical_Conversion	Text	255	The range of values that corresponds to the Alphabetical Abbreviation.
359	ProductionCodes	LowRange	Text	255	The low value corresponding to the Alphabetical Abbreviation.
360	ProductionCodes	HighRange	Text	255	The high value corresponding to the Alphabetical Abbreviation.
361	ProductionCodes	Sequence Number	Text	255	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
362	Production Values	Commodity	Text	255	Corresponds with Commodities for the property. See Commodity Index table to see abbreviation key.
363	Production Values	Production Value	Text	255	Corresponds with Alpha Abbreviation in ProductionCodes Table. Which is an Alphabetical Abbreviation used to keep the production information confidential. Precede with a space if sole character.
364	Production Values	ProductionType	Text	255	Unit of Production. Lbs = Pounds; Oz. = Ounces.
365	PropertyFilesScans	ID	Long	4	Unique ID for records in this table.
366	PropertyFilesScans	PropertyNumber	Text	15	Same as "SequenceNumber" in Mines and Prospects. Links to [Mines;SequenceNumber]
367	PropertyFilesScans	PropertyScanName	Text	25	Unique name for scanned file. IGS property number ID (SequenceNumber) followed by an identifier (such as WL0001_001 or WL0001-n001)
368	PropertyFilesScans	OriginalFileName	Text	255	Name created by Wallace Mining Museum
369	PropertyFilesScans	FileSize	Long	4	In kb
370	PropertyFilesScans	FileName	Text	25	Full file name including extension i.e. WL0001_001.pdf: Used for web retrieval of file.
371	PropertyFilesScans	ItemType	Text	50	Description of type of document, such as: map, Idaho State Mine Inspector Report, correspondence, misc., etc.
372	PropertyFilesScans	InfoText	Text	255	Descriptive or pertinent ancillary information about the document. This field WILL be on the web interface, so keep it sweet and short.
373	PropertyFilesScans	Maps	Long	4	Number of maps in document.
374	PropertyFilesScans	Author	Text	255	Author of document, when not implied in ItemType.
375	PropertyFilesScans	Comments	Text	125	Explanatory information. For administrator information. Will not be seen on web.
376	PropertyFilesScans	FolderName	Text	255	Folder location of files. Should be in name of 2 degree quad that property is named from.
377	PropertyFilesScans	Dates	Text	50	Can be single year, in addition to date ranges i.e. 1903, 1910-1930, 1931-1944. This is not a searchable field, but for information and reference.

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
379	PropertyFilesScans	MapsToReview	Text	255	Yes or No, list number of maps needed to review. Enter this info on first round of data entry.
380	PropertyFilesScans	Rescan_file	Boolean	1	Check box for yes file needs re-scanned
381	PropertyFilesScans	xRef_Prop_Comments	Text	255	Properties mentioned in documents but without a property number and not located in the IGS records.
382	PropertyFilesScans	Year	Long	4	Earliest known year of the document. This is a searchable field. Enter 9999 if no date is available.
383	PropertyFilesScans	Company	Text	255	Name of mining company affiliated with the origination of the document, when known. It may not be the owner of the property in all circumstances. Only used when company originated document.
384	PropertyFilesScans	Initials	Text	255	Initials of person that entered records (started in Dec., 2014). This is for internal tracking.
385	PropertyFilesScans	EntryDate	Date/Time	8	Date of entry. This is for internal tracking.
386	PropertyFilesScans_OrphanEntr	ID	Long	4	Unique ID for records in this table.
387	PropertyFilesScans_OrphanEntr	PropertyNumber	Text	15	Same as "SequenceNumber" in Mines and Prospects. Links to [Mines;SequenceNumber]
388	PropertyFilesScans_OrphanEntr	PropertyScanName	Text	25	Unique name for scanned file. IGS property number ID (SequenceNumber) followed by an identifier (such as WL0001_001 or WL0001-m001)
389	PropertyFilesScans_OrphanEntr	OriginalFileName	Text	255	Name created by Wallace Mining Museum
390	PropertyFilesScans_OrphanEntr	FileSize	Long	4	In kb
391	PropertyFilesScans_OrphanEntr	FileName	Text	25	Full file name including extension i.e. WL0001_001.pdf. Used for web retrieval of file.
392	PropertyFilesScans_OrphanEntr	Item Type	Text	50	Description of type of document, such as: map, Idaho State Mine Inspector Report, correspondence, misc., etc.
393	PropertyFilesScans_OrphanEntr	InfoText	Text	255	Descriptive or pertinent ancillary information about the document. This field WILL be on the web interface, so keep it sweet and short.
394	PropertyFilesScans_OrphanEntr	Author	Text	255	Author of document, when not implied in ItemType.
395	PropertyFilesScans_OrphanEntr	Comments	Text	125	Explanatory information. For administrator information. Will not be seen on web.
396	PropertyFilesScans_OrphanEntr	FolderName	Text	255	Folder location of files. Should be in name of 2 degree quad that property is named from.
397	PropertyFilesScans_OrphanEntr	Dates	Text	50	Can be single year, in addition to date ranges i.e. 1903, 1910-1930, 1931-1944. This is not a searchable field, but for information and reference.
398	PropertyFilesScans_OrphanEntr	MapsToReview	Text	255	Yes or No, list number of maps needed to review. Enter this info on first round of data entry.
399	PropertyFilesScans_OrphanEntr	Re-scan file	Boolean	1	Check box for yes file needs re-scanned

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
400	PropertyFilesScans_OrphanEntries	Cross-Ref Properties Comments	Text	255	Properties mentioned in documents but without a property number and not located in the IGS records.
401	PropertyFilesScans_OrphanEntries	Year	Long	4	Earliest known year of the document. This is a searchable field. Enter 'undated' if no date is available.
402	PropertyFilesScans_OrphanEntries	Company	Text	255	Name of mining company affiliated with the origination of the document, when known. It may not be the owner of the property in all circumstances. Only used when company originated document.
403	PropertyFilesScans_OrphanEntries	Initials	Text	255	Initials of person that entered records (started in Dec., 2014). This is for internal tracking.
404	PropertyFilesScans_OrphanEntries	EntryDate	Date/Time	8	Date of entry. This is for internal tracking.
405	Quadrangle	1x2_Quad	Text	50	1:250,000 Quadrangle name.
406	Quadrangle	Quad_Abbreviation	Text	50	AS=Ashton, BA=Baker, BO=Boise, CH=Challis, DI=Dillon, DR=Driggs, DU=Dubois, EC=Elk City, GR=Grangeville, HA=Hailey, HM=Hamilton, IF=Idaho Falls, JV=Jordan Valley, PL=Pullman, PO=Pocatello, PR=Preston, SA=Sandpoint, SP=Spokane, TF=Twin Falls, WL=Wallace
407	Quadrangle	Key	Long	4	Unique value for records in this table.
408	Reference	Reference_ID	Long	4	Unique ID for references.
409	Reference	Title	Memo	0	Name of primary title, no abbreviations. Capitals only on first word, proper names, and formal geological names. All capitals for books.
410	Reference	YearDate	Text	255	Year of publication (See <a href="https://pubs.usgs.gov/stat7/pages/236-237/">https://pubs.usgs.gov/stat7/pages/236-237/</a> ).
411	Reference	In	Boolean	1	For article in an edited book; 'in' should be italicized (See IGS Bibliographic Style p. 7).
412	Reference	SecondTitle	Memo	0	Name of secondary title (for compilations etc.), no abbreviations. All caps.
413	Reference	SecondTitleDate	Text	255	Second Title Date.
414	Reference	abstract	Boolean	1	For abstracts; should be entered as 'abs.'. See IGS Bibliographic Style p. 7.
415	Reference	Publisher	Memo	0	Publisher. No abbreviations. If unpublished, use 'n.d.'. If pending publication 'In Press'.
416	Reference	nd	Boolean	1	If pub is not published. USGS requires text 'n.d.'
417	Reference	publisherAbbv	Text	255	Abbreviation of publisher, such as USGS, IGS, USBM, USFS, etc.
418	Reference	pubCity	Text	255	City name for obscure publishers.
419	Reference	pubState	Text	255	State name for obscure publishers.
420	Reference	volume	Text	255	Volume for periodicals.
421	Reference	number	Text	255	Number for periodicals.
422	Reference	edition	Text	255	Edition.
423	Reference	Institution	Memo	0	Institution IF [Series_Type] = 'M.S. Thesis' OR 'PhD. Dissertation'.
424	Reference	Series_Type	Text	255	Type of pub such as 'Bulletin' or 'Open File Report' or 'Thesis' or 'Dissertation' or 'oral commun.' or 'written commun.' etc.
425	Reference	PubNumber	Text	255	The number for USGS, USBM, IGS, etc. pubs and docket for DMA etc. and scan name for Mineral Property File scans.
426	Reference	PageCount	Long	4	Number of pages in reference.
427	Reference	PlateCount	Long	4	Number of plates in reference.

	A	B	C	D	E
	TableName	FieldName	FieldType	FieldLength	FieldDescription
1	Reference	SheetCount	Long	4	Number of sheets in reference.
428	Reference	Scale	Text	255	Scale of map.
429	Reference	Pages	Text	255	Relevant page, or range of pages, for reference.
430	Reference	Hyperlink	Memo	0	Hyperlink to reference document. At this time for reference update.
431	Reference	YearHyperlink	Long	4	Year hyperlink entered/verified. At this time for reference update.
432	Reference	Anno	Text	255	Annotation.
433	Reference	EnterDate	Date/Time	8	Date of original reference entry. Null for unverified data moved from old ReferenceIndex table.
434	Reference	EditDate	Date/Time	8	Date of last edit/verification.
435	Reference	Initials	Text	255	Initials or name of person entering/editing reference.
436	Reference	Notes	Memo	0	Notes about reference, such as location info if not on web etc.
437	Reference	OldReference	Memo	0	Reference as originally entered before 2015. Used on web for unlocated/unverified references entered before 2016.
438	Reference	Pub_ID	Text	255	Web: internal document reference ID.
439	Reference	Origin	Text	255	Web: internal document agency origin ID for flagging web available documents.
440	Reference	URL_INTRA	Text	255	Web: Enter 'url' for externally hosted or 'intra' for internally hosted.
441	Reference	Folder	Text	255	Web: internal folder path where document can be found.
442	Reference	FileName	Text	255	Web: full name of document (usually '*document name*.pdf').
443	Reference	URL	Memo	0	Web: URL version of document location.
444	Reference	URL_Year	Date/Time	8	Latest date URL verified.
445	Reference	ID	Long	4	Unique ID for this table.
446	Reference	OriginType	Text	50	Controlled vocabulary for [Reference].[Origin] for determining file paths to scanned documents for web presentation.
447	Reference	FilePathNote	Memo	0	To record the file path of OriginType when it is an IGS-hosted type.
448	Reference	SequenceNumber	Text	255	Primary Key for Access: For the main entry for each property, the SequenceNumber is the same as the Property Number.
449	reference_relate	Ref_id	Long	4	Identification number of reference in ReferenceIndex table.
450	reference_relate	PageNumbers	Text	255	This field now obsolete. Do not update.
451	reference_relate	Reference	Text	255	This item will be deleted. DO NOT UPDATE THIS ITEM
452	reference_relate	NotesForReferenceUpdate2015	Memo	0	Notes impacting this table concerning reference update (ongoing 2016).
453	Reference	ID	Long	4	Unique ID for this table.
454	Reference	Reference_ID	Long	4	Link to Reference table.
455	Reference	Metric	Long	4	Order of author in reference.
456	Reference	AuthorType	Long	4	1 = Author, 2 = Editor, 3 = Contributor, 4 = Other, 5 = Compiled and Mapped, 6 = Compiled (see ReferenceAuthorType_LUT)
457	Reference	LastName	Text	255	Last name of author or name of agency.
458	Reference	Initials	Text	255	First and middle initials of author without a space, such as H.P, full first name if middle unknown, or 'agency' if appropriate.
459	Reference	FirstName	Text	255	First name of author in event author has no, or, middle initial is unknown.
460	Reference	Suffix	Text	255	Suffix such as Jr., Sr. etc.
461	Reference	in	Boolean	1	For designating this author as an author of a collection of works by other authors per USGS standards.
462	Reference				



A		B		C		D		E	
1	TableName	FieldName	FieldType	FieldLength	FieldDescription				
463	ReferenceAuthor_Temp	ID	Long	4	Unique ID for this table.				
464	ReferenceAuthor_Temp	Reference_ID	Long	4	Link to Reference table.				
465	ReferenceAuthor_Temp	Metric	Long	4	Order of author in reference.				
466	ReferenceAuthor_Temp	AuthorType	Long	4	1 = Author, 2 = Editor, 3 = Contributor, 4 = Other, 5 = Compiled and Mapped, 6 = Compiled				
467	ReferenceAuthor_Temp	LastName	Text	255	Last name of author or name of agency.				
468	ReferenceAuthor_Temp	Initials	Text	255	First and middle initials of author without a space, such as H.P, full first name if middle unknown, or 'agency' if appropriate.				
469	ReferenceAuthor_Temp	FirstName	Text	255	First name of author in event author has no, or, middle initial is unknown.				
470	ReferenceAuthor_Temp	Suffix	Text	255	Suffix such as Jr., Sr. etc.				
471	ReferenceAuthor_Temp	in	Boolean	1	For designating this author as an author of a collection of works by other authors per USGS standards.				
472	ReferenceAuthorType_LUT	AuthorType	Long	4	Value for type of authorship.				
473	ReferenceAuthorType_LUT	AuthorTypeText	Text	255	Text value for author type.				
474	ScanCrossRef	CrossRef_ID	Long	4	Unique ID for this table.				
475	ScanCrossRef	Property/ScanName	Text	255	Scan name of document.				
476	ScanCrossRef	CrossRefProp	Text	255	Properties other than primary property (SequenceNumber) associated with the document.				
477	SelectedObjects	SelectionID	Long	4	ID of selection.				
478	SelectedObjects	ObjectID	Long	4	ID of object.				
479	Selections	SelectionID	Long	4	ID of selection.				
480	Selections	TargetName	Text	255	Name of target.				
481	SurficialManagement	LandOwner	Text	255	Agency Name of Landowner (Acquired from IDWR ArcView coverage)				
482	SurficialManagement	Key	Long	4	Unique ID for records in this table.				
483	tblTest	TestID	Long	4	Test description 1				
484	tblTest	TestText	Text	50	Test description 2				
485	tblTest	TestNumber	Long	4	Test description 3				
486	tblTest	TestDate	Date/Time	8	Test description 4				
487	tblTest	TestYesNo	Boolean	1	Test description 5				
488	TrackChange	ID	Long	4	Unique ID for records in this table.				
489	TrackChange	SequenceNumber	Text	255	IGS property designation and primary key				
490	TrackChange	NEWLOC	Text	255	Secondary property designation created in 2011 and now obsolete				
491	TrackChange	DEPOSIT	Text	255	Property name				
492	TrackChange	REFNAME	Text	255	Name of reference				
493	TrackChange	DESC_CHANGE	Text	255	Description of change made to property				
494	TrackChange	DATE_CHANGE	Text	255	Date of update to property				
495	TrackChange	BASIS_CHANGE	Text	255	Rational for changing data associated with property				
496	TrackChange	RESEARCHER	Text	255	Name of Researcher responsible for altering property data				
497	TrackChange	ADD_NOTES	Text	255	Notes should include verification of sources using reference, page numbers, IGS or internet local, other pertinent information for later research on a property				

	A	B	C	D	E
1	TableName	FieldName	FieldType	FieldLength	FieldDescription
498	TrackChange	CLEANUP_Y_	Text	255	Are changes part of the 2014 DB cleanup? If so, this property was deleted from the Mines and MineIndex tables because it did not meet the criteria at that time to remain in the DB without editing or further research.
499	TrackChange	Query_or_Sort	Text	255	The query formula or sort action used to identify this property as not meeting the criteria to remain in the DB.
500	TrackChange	PreviousDatabaseName	Text	255	DB version to find the last instance of this property before edit(s) described here.
501	Z_annotatons	KeyField	Long	4	Unique ID for records in this table.
502	Z_annotatons	RecordID	Text	50	For the main entry for each property, the RecordID is the same as the SequenceNumber.
503	Z_annotatons	MapLoc	Text	50	The number used to plot the property on a map. Usually the same as the RecordID.
504	Z_annotatons	Property Name	Text	50	Name of the mine or prospect.
505	Z_annotatons	DateOf Note	Text	50	Date when this annotation to the database was made.
506	Z_annotatons	DatabaseField	Text	50	Field of the database to which this annotation applies.
507	Z_annotatons	Notes	Memo	0	Comment(s) on database.
508	Z_annotatons	Notes2	Memo	0	Additional comments, if necessary.
509	Z_updates	KeyField	Long	4	Index to this table.
510	Z_updates	RecordID	Text	50	For the main entry for each property, the RecordID is the same as the SequenceNumber.
511	Z_updates	MapLoc	Text	50	The number used to plot the property on a map. Usually the same as the RecordID.
512	Z_updates	PropertyName	Text	50	The name of the property.
513	Z_updates	LastUpdated	Date/Time	8	The date the record was updated.
514	Z_updates	Action_taken	Text	50	What field was updated and what was done to it (brief explanation).
515	Z_updates	Notes	Memo	0	Detailed explanation of what was updated and why.
516	Z_updates	Notes2	Memo	0	Additional notes, if needed.

## SECTION IV: ReadMe

20161005

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Mines and Prospects of Idaho

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Database of the Mines and Prospects of Idaho

Compiled by Christopher A. Tate, Victoria E. Mitchell, Ruth E. Vance, Earl H. Bennett,  
B. Benjamin E. Studer, Loudon R. Stanford, and  
Jesse A. Hinshaw

Digital Database 1 in the Idaho Geological (IGS) Digital Data series (DD-1)  
Version 1.2016.1  
October 2016

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HOW TO USE THIS DOCUMENT  
-----

This ReadMe document will help you get the most out of the database, and should be consulted with other metadata and support documents. Please contact us if you should encounter any problems with the database.

To view Readme.txt onscreen in Notepad, maximize the Notepad window or select the Word Wrap option under Format in the toolbar.

To print Readme.txt, open it in Notepad or another word processor, and then use the Print command on the File menu.

'Database,' 'Mines and Prospects,' and 'DD-1' might be used interchangeably when referring to the working database, the database in the DD-1 download bundle, and the database driving the Mines and Prospects web app.

Names in brackets, such as [Mines], refer to tables in the database.  
Names in brackets separated by a period, such as [Mines].[Foo] refers to field [Foo] in the table [Mines].

Included With this Data Set

=====

1. Access 2000 data in a relational database formatted as an ESRI personal geodatabase.
2. Two geodatabase feature classes projected in WGS84 and WGS84 Web Mercator.
2. A Shapefile made from xy event in ArcGIS 10.2.2 using [Mines].[lon\_WGS84] and [Mines].[lat\_WGS84] fields.
3. Metadata, including the [DataDictionary] table, in .PDF format and an export of the feature class metadata.
4. A KMZ file for import into Google Earth or other applications.
5. An .mxd file created in ArcMAP 10.2.2.

## Table of Contents

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  - b. Compilation History
3. Key to Abbreviations used in the Mines and Prospects Digital Database
  - a. References
  - b. Products
4. Total Production Figures
5. Key to the structure of the Mines and Prospects Digital Database
6. Contact Information
7. Appendix of Metadata Resources for DD-1
8. Appendix of Data Limitations

## 1. System Requirements

=====

Microsoft Access 2000 or later, and Geographical Information System (GIS) software for opening the shapefile. ArcGIS 10.2.2 was used to process data and create the .mxd file. Earlier versions of ArcMAP may not be able to open the .mxd.

## 2. Introduction

=====

The Idaho Geological Survey's Mines and Prospects digital database contains information on over 8,800 mining properties in Idaho. This inventory of mining activity and production is a valuable research tool, particularly for mineral exploration and land management. All available sources have been used to compile and correct this information, including published and unpublished reference materials, the U.S. Geological Survey's (USGS) Mineral Resources Data System (MRDS), and the U.S. Bureau of Mines' Mineral Industry Location Subsystem (MILS). Every effort has been made to make the database complete and accurate; however, any additions or corrections should be directed to the Idaho Geological Survey. Periodic revisions of this database will be issued as new information is added.

## 2A. Information Included

Each mine or prospect is identified by its map location number, [\*].[SequenceNumber], which is also the property number in the IGS's Mineral Property Files. In the Mines table, the [Mines].[latitude] and [Mines].[longitude] fields (NAD27) are the best available location for the property as plotted. WGS84 locations are included for use in Google Map, Google Earth, and ESRI map services (see online search tool at: <http://www.idahogeology.org/webmap/>). Other useful location information (such as county in which the deposit occurs; its township, range, section, quarter section; the land owner; etc.) are also shown and updated for this version (1.2016.1).

A shapefile (MinesAndProspects.shp) built from the WGS84 coordinates that includes attributes from the [Mines] table, a .pdf file containing North American Profile of ISO 19115 metadata and the new (1.2016.1) [DataDictionary] (MinesAndProspects\_Metadata.pdf), this ReadMe file (ReadMe.txt), and the Mines and Prospects database MinesAndProspects\_1.2016.1).

The References field originally contained the single reference with the best information for spatially locating the property. Ongoing updates are slowly expanding the references for each property. These and other changes were recorded in the Z-updates field, which documents each change made to the database. If more detailed comments are needed, these are to be found in the Annotations field. For the version 1.2051.1, a TrackChange table has been added to note changes to property locations and attributes for the database re-work 2014-15.

Production figures were compiled from U.S. Bureau of Mines' unpublished records. For lode mines, the total amounts of ore produced and old tailings reprocessed (if any) are reported in tons; where tailings were reprocessed, these numbers are listed after a slash (i.e., ore/tailings). For placer mines, the production is given in yards of material processed. Production tonnage (or yardage) is most useful for determining the relative size of a deposit. For an individual deposit, caution should be used in comparing the tons of ore or yards of gravel mined with the metals obtained from the ore, because for some years the total amount (tons or yards) mined may be unknown or the data may be incomplete. For the commodities, gold and silver are in troy ounces; copper, lead, and zinc are in pounds. Reliable production data are not available for other

commodities. To protect mining company confidentiality, single letters represent broad ranges in the amounts of ore and commodities produced (see below).

For comparison purposes, many entries contain selected fields from the U.S. Bureau of Mines MILS database and the U.S. Geological Survey's MRDS database. This is information taken from the 1991 version of these databases and has not been compared with the current online version of the combined databases (<http://mrdata.usgs.gov/mineral-resources/mrds-us.html>). The MILS and MRDS databases will remain unchanged and are used simply as a reference.

## 2B. Compilation History.

The Mines and Prospects database has been an ongoing IGS research project for 25 years (as of 2015)! It has been curated by multiple individuals through its lifetime, and currently there is not a single metadata or support document source yet compiled that can 'tell the whole story.' Users are urged to consult ALL metadata sources and support documents to refine understanding of the products. An appendix at the end of this document has been added for version 1.2016.1 to assist locating information.

The first editions of the Mines and Prospects Map Series were funded jointly under contracts and cooperative agreements between the Idaho Bureau of Mines and Geology (now the Idaho Geological Survey) and the U.S. Geological Survey, the U.S. Bureau of Mines (now defunct), the U.S. Forest Service, and the U.S. Bureau of Land Management. For the second editions, the maps and property listings incorporated corrections and new data accumulated since the original maps were published. This revision was done as part of the Idaho Initiative Mapping Program, a cooperative research project between the Idaho Geological Survey, the U.S. Geological Survey, and the U.S. Bureau of Mines. Preparation of these digital publications is an on going process. The compilers for the various editions of the Mines and Prospects for Idaho were Victoria E. Mitchell, Ruth E. Vance, William B. Strowd, Gail S. Hustedde, Julie A. Copeland, Margaret H. Ott, Earl H. Bennett, B. Benjamin E. Studer, Loudon R. Stanford, and Christopher A. Tate.

The original Mines and Prospects Map Series was compiled by referring to the best available reference for a site (preferably a map) and cross-checking that location against the information in MILS and MRDS. One opening was selected to represent each mine, and points were plotted as accurately as possibly on 1:250,000 maps. Each dot used to plot a site covered about a quarter of a section. When these maps were digitized, the accuracy of each point was 0.25 miles (400 m) or less.

In 1994, the Idaho Geological Survey began the first of a series of field programs in co-operation with the U.S. Forest Service (Regions 1 and 4) and the U.S. Bureau of Land Management to inspect inactive and abandoned mines in Idaho. These programs ran through 2005, and the results of most of them have been published as Idaho Geological Survey Staff Reports. When a site was visited, a detailed map of the site's features was made on a 1:24,000 map. The location

of the largest and/or most significant feature was later digitized and updated into the database. Some of the later studies included the use of GPS units; these locations were entered directly into the database.

In 2008 in a project funded by the USGS under the National Geological and Geophysical Data Preservation Program, the Idaho Geological Survey began updating the locations of all the properties for which it has a mineral property file. These updated locations were plotted in National Geographic's TOPO! program at a scale of 1:24,000. The improved coordinates were then uploaded into the database.

Several projects funded by USGS and the Idaho Department of Lands resulted in a substantial rework of the database 2009-2015 and culminated in re-release of DD-1 as version 1.2015.1. This included development of a Mines and Prospects web app, scanning of maps and other documents in the IGS archives to be hyperlinked for download, and 'cleaning up' the data and structure of the database. More information about the procedural changes for the 1.2015.1 version can be found in [mines\_mdb\_tracking\_mdat]. This ReadMe was also updated.

For the 1.2016.1 version release, several significant database and product changes were implemented, as well as continuous scanning and entering Mineral Property Files to be accessed through the web app this database drives. The MinesAndProspects database was migrated to an ESRI Personal Geodatabase. This format does not interfere in any way with Access functionality. It does ease database maintenance, and is convenient for users interested in using the data in ArcGIS. Point feature classes were developed and an ESRI map document was included for convenience. Work was begun on conforming references to the Idaho Geological Survey's established publication format. Portfolios (unique and physically bound collections of maps and other documents) were made a subset of Mineral Property File data. ZIP code and Mining District attributes were added to the [Mines] table. A KMZ file was added to this release.

The data are current to the date on the version.

### 3. Key to Abbreviations used in the Mines and Prospects Digital Database

=====

#### 3A. References

##### 1. Agency



BLM - U.S. Bureau of Land Management  
DOE - U.S. Department of Energy  
DMA - Defense Minerals Administration  
DMEA - Defense Minerals Exploration Administration

IBMG - Idaho Bureau of Mines and Geology  
IGS - Idaho Geological Survey  
MSHA - Mining Safety and Health Administration  
OME - Office of Mineral Exploration  
USBM - U. S. Bureau of Mines

USDA - U. S. Department of Agriculture  
USFS - U. S. Forest Service  
USGS - U. S. Geological Survey  
WFOC - Western Field Operations Center

## 2. Publication

B - Bulletin  
CR - County Report  
IC - Information Circular  
MILS - Mineral Inventory Location Subsystem  
MLA - Mineral Land Assessment

MPF - Mineral Property File  
MR - Miscellaneous Report  
MRDS - Mineral Resources Data System  
OFR - Open-File Report

P - Pamphlet  
PP - Professional Paper  
RI - Report of Investigation  
SR - Special Report

## 3B. Products

### 1. Metallic

Ag - silver  
Au - gold  
Ba - barium

Be - beryllium  
Bi - bismuth  
Ca - calcium  
Cd - cadmium  
Ce - cerium  
Co - cobalt  
Cu - copper  
Fe - iron  
Hg - mercury  
Mg - magnesium  
Mn - manganese  
Mo - molybdenum  
Nb - niobium  
Ni - nickel  
P - phosphorous  
Pb - lead  
Pt - platinum  
PGM - platinum group metals  
RE - rare earths  
Sb - antimony  
Si - silica  
Sn - tin  
Th - thorium  
Ti - titanium  
U - uranium  
V - vanadium  
W - tungsten  
Yt - yttrium  
Zn - zinc  
Zr - zirconium

## 2. Nonmetallic

abr - abrasives  
bar - barite  
bk-sd - black sand  
cal - calcite  
cin - cinnabar  
cly - clay  
coal - coal  
cor - corundum  
dit - diatomaceous earth  
dol - dolomite

eva - evaporites  
fld - feldspar  
F - fluorite  
gar - garnet  
gas - gas  
gem - gemstones  
graph - graphite  
gyp - gypsum  
lst - limestone  
mic - mica  
mon - monazite  
oil - oil  
opl - opal  
perl - perlite  
pho - phosphate  
pum - pumice  
qtz - quartz  
S - sulfur  
sil - silica  
stn - stone  
Ta - tantalum  
vol - volcanic rocks  
zeo - zeolites

#### 4. Total Production Figures

=====

The following alphabet is used to protect the confidentiality of the production figures for the mines where data are known. These values are also included in the "ProductionCodes" table in the database.

The amounts are given, as applicable, in ounces, pounds, tons, or yards.

A - less than 50  
B - 51-100  
C - 101-500  
D - 501-1,000  
E - 1,001-5,000

F - 5,001-10,000  
G - 10,001-50,000  
H - 50,001-100,000  
I - 100,001-500,000  
J - 500,001-2,000,000  
K - 2,000,001-4,000,000  
L - 4,000,001-6,000,000  
M - 6,000,001-8,000,000  
N - 8,000,001-10,000,000  
O - 10,000,001-12,000,000  
P - 12,000,001-15,000,000  
Q - 15,000,001-20,000,000  
R - 20,000,001-30,000,000  
S - 30,000,001-40,000,000  
T - 40,000,001-50,000,000  
U - 50,000,001-75,000,000  
V - 75,000,001-100,000,000  
W - 100,000,001-150,000,000  
X - 150,000,001-200,000,000  
Y - 200,000,001-250,000,000  
Z - 250,000,001-300,000,000  
AA - 300,000,001-500,000,000  
BB - 500,000,001-750,000,000  
CC - 750,000,001-1,000,000,000  
DD - 1,000,000,001-1,500,000,000  
EE - 1,500,000,001-2,000,000,000  
FF - 2,000,000,001-3,000,000,000  
GG - 3,000,000,001-4,000,000,000  
HH - 4,000,000,001-5,000,000,000

5. Key to the (revised format) structure of the  
Mines and Prospects Digital Database

=====

The details for the fields are available by viewing the accompanying  
"MinesAndProspects\_Metadata.pdf" file, or checking the [DataDictionary].

## SECTION V: Feature Class Export

## Mines\_WGS84

### Personal GeoDatabase Feature Class



#### Tags

Idaho, Prospect locations, Mine locations, Idaho, Mines, Prospects

#### Summary

This feature class is an extension of the database of the Mines and Prospects of Idaho: locations and data about each mine property. This inventory of mining activity and production is a valuable research tool, particularly for mineral exploration and land management.

#### Description

Database of the Mines and Prospects of Idaho (version 1.2016.1). A relational database in Access 2000 of Idaho mines and prospects. Mines table was used to create a spatial point feature class (ESRI shape/geodatabase feature class) included with this dataset. All related data in other tables. Although this is distributed in Access (mdb) format, it is now a Personal GeoDatabase (ESRI). The Idaho Geological Survey's (IGS) Mines and Prospects digital database contains information on over 8,800 mining properties in Idaho. This inventory of mining activity and production is a valuable research tool, particularly for mineral exploration and land management. All available sources have been used to compile and correct these data including published and unpublished reference materials, the U.S. Geological Survey's Mineral Resources Data System (MRDS), and the U.S. Bureau of Mines' Mineral Industry Location Subsystem (MILS). Every effort has been made to make the database complete and accurate; however, any additions or corrections should be directed to the Idaho Geological Survey. Periodic revisions of this database will be issued as new information is added.

#### Credits

Idaho Geological Survey

#### Use limitations

Locations are for over all mine site, i.e., one location point per mine record or prospect. Individual pits, adits, or shafts are not necessarily located. Points indicated by [Mines.Location\_type] = 0 are derived from USGS 1:250,000-scale maps. Points indicated by [Mines.Location-type] = 3 are locations based on USGS 1:24,000-scale maps, taken from GPS records obtained by IGS personnel

during field work, or identified using remote sensing (ESRI Image basemaps and Google Earth).

### Extent

**West** -117.213629    **East** -111.050112  
**North** 48.993424    **South** 42.006571

### Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata ►

### Topics and Keywords ►

\* CONTENT TYPE    Downloadable Data

PLACE KEYWORDS    Idaho

THEME KEYWORDS    Prospect locations, Mine locations, Idaho, Mines, Prospects

*Hide Topics and Keywords ▲*

### Citation ►

\* TITLE    Mines\_WGS84  
PUBLICATION DATE    2015-06-15 00:00:00

EDITION    version 1.2015.1

PRESENTATION FORMATS    digital map

#### SERIES

NAME    Digital Database  
ISSUE    DD-1

*Hide Citation ▲*

### Citation Contacts ►

#### RESPONSIBLE PARTY

ORGANIZATION'S NAME    Idaho Geological Survey  
CONTACT'S ROLE    publisher

#### CONTACT INFORMATION ►

ADDRESS  
DELIVERY POINT    Moscow, Idaho

*Hide Contact information ▲*

#### RESPONSIBLE PARTY

ORGANIZATION'S NAME    Idaho Geological Survey  
CONTACT'S ROLE    originator

*Hide Citation Contacts ▲*

## Resource Details ►

DATASET LANGUAGES \* English (UNITED STATES)

STATUS under development

SPATIAL REPRESENTATION TYPE \* vector

\* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.2.3552

CREDITS

Idaho Geological Survey

ARCGIS ITEM PROPERTIES

\* NAME Mines\_WGS84

\* LOCATION file:///\\igs-graben\temp\2016\_DD-1\_Data\_and\_Docs\_updated\_20161012\MinesAndProspects\_1.2016.1.mdb

\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Service Details ►

ACCESS PROPERTIES

INSTRUCTIONS

Free for download form [www.idahogeology.org](http://www.idahogeology.org)

[Hide Service Details ▲](#)

## Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -117.213629

EAST LONGITUDE -111.050112

SOUTH LATITUDE 42.006571

NORTH LATITUDE 48.993424

EXTENT CONTAINS THE RESOURCE Yes

EXTENT

DESCRIPTION

State of Idaho, with some exceptions (see Lineage).

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -117.213629

EAST LONGITUDE -111.050112

SOUTH LATITUDE 42.006571

NORTH LATITUDE 48.993424

EXTENT CONTAINS THE RESOURCE Yes

GEOGRAPHIC EXTENT

GEOGRAPHIC DESCRIPTION

DESCRIPTION CONTAINS THE RESOURCE No

EXTENT



## GEOGRAPHIC EXTENT

## BOUNDING RECTANGLE

WEST LONGITUDE -117.213629  
 EAST LONGITUDE -111.050112  
 SOUTH LATITUDE 42.006571  
 NORTH LATITUDE 48.993424  
 EXTENT CONTAINS THE RESOURCE Yes

## EXTENT

## GEOGRAPHIC EXTENT

## BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching  
 \* WEST LONGITUDE -117.213629  
 \* EAST LONGITUDE -111.050112  
 \* NORTH LATITUDE 48.993424  
 \* SOUTH LATITUDE 42.006571  
 \* EXTENT CONTAINS THE RESOURCE Yes

## EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE -117.213629  
 \* EAST LONGITUDE -111.050112  
 \* SOUTH LATITUDE 42.006571  
 \* NORTH LATITUDE 48.993424  
 \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

## POINT OF CONTACT

ORGANIZATION'S NAME Idaho Geological Survey  
 CONTACT'S ROLE point of contact

## CONTACT INFORMATION ►

## PHONE

VOICE 208-885-7991

## ADDRESS

DELIVERY POINT Idaho Geological Survey, University of Idaho, 875 Perimeter Drive MS 3014  
 CITY Moscow  
 ADMINISTRATIVE AREA Idaho  
 POSTAL CODE 83844-3014  
 COUNTRY US  
 E-MAIL ADDRESS [igs@uidaho.edu](mailto:igs@uidaho.edu)

## HOURS OF SERVICE

Weekdays 8:00 - 3:00 PTZ

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

## RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

### LEGAL CONSTRAINTS

#### LIMITATIONS OF USE

The Idaho Geological Survey does not assume liability; no warranty expressed or implied is made by the agency regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty.

### CONSTRAINTS

#### LIMITATIONS OF USE

Locations are for over all mine site, i.e., one location point per mine record or prospect. Individual pits, adits, or shafts are not necessarily located. Points indicated by [Mines.Location\_type] = 0 are derived from USGS 1:250,000-scale maps. Points indicated by [Mines.Location-type] = 3 are locations based on USGS 1:24,000-scale maps, taken from GPS records obtained by IGS personnel during field work, or identified using remote sensing (ESRI Image basemaps and Google Earth).

[Hide Resource Constraints ▲](#)

## Spatial Reference ►

### ARCGIS COORDINATE SYSTEM

- \* TYPE Geographic
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_WGS\_1984
- \* COORDINATE REFERENCE DETAILS

#### GEOGRAPHIC COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 4326  
 X ORIGIN -400  
 Y ORIGIN -400  
 XY SCALE 999999999.99999988  
 Z ORIGIN -100000  
 Z SCALE 10000  
 M ORIGIN -100000  
 M SCALE 10000  
 XY TOLERANCE 8.983152841195215e-009  
 Z TOLERANCE 0.001  
 M TOLERANCE 0.001  
 HIGH PRECISION true  
 LEFT LONGITUDE -180  
 LATEST WELL-KNOWN IDENTIFIER 4326  
 WELL-KNOWN TEXT GEOGCS["GCS\_WGS\_1984",DATUM["D\_WGS\_1984",SPHEROID["WGS\_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4326]]

### REFERENCE SYSTEM IDENTIFIER

- VALUE 4326
- \* CODESPACE EPSG
  - \* VERSION 8.2.6

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

### VECTOR ►

- \* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

FEATURE CLASS NAME Mines\_WGS84

- \* OBJECT TYPE point

\* OBJECT COUNT 8843

*Hide Vector ▲*

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME Mines\_WGS84

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Point
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 8843
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING FALSE

*Hide ArcGIS Feature Class Properties ▲*

*Hide Spatial Data Properties ▲*

## Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

*Hide Scope of quality information ▲*

DATA QUALITY REPORT - COMPLETENESS OMISSION ►

MEASURE DESCRIPTION

The first editions of the Mines and Prospects Map Series were funded jointly under contracts and cooperative agreements between the Idaho Bureau of Mines and Geology (now the Idaho Geological Survey) and the U.S. Geological Survey, the U.S. Bureau of Mines (now defunct), the U.S. Forest Service, and the U.S. Bureau of Land Management. For the second editions, the maps and property listings incorporated corrections and new data accumulated since the original maps were published. The third revision was done as part of the Idaho Initiative Mapping Program, a cooperative research project between the Idaho Geological Survey, the U.S. Geological Survey, and the U.S. Bureau of Mines. Preparation of these digital publications is an on going process. This edition was funded by the U.S. Geological Survey's National Geological and Geophysical Data Preservation Program, and the Idaho Department of Lands. This included efforts to verify and refine property locations, digitizing of references and other Mineral Property Files, and the implementation of an interactive web application to make these documents widely available to the public. The compilers for the various editions of the Mines and Prospects for Idaho were Victoria E. Mitchell, Ruth E. Vance, William B. Strowd, Gail S. Hustedde, Julie A. Copeland, Margaret H. Ott, Earl H. Bennett, Loudon R. Stanford, and Christopher A. Tate . In 1994, the Idaho Geological Survey began the first of a series of field programs in co-operation with the U.S. Forest Service (Regions 1 and 4) and the U.S. Bureau of Land Management to inspect inactive and abandoned mines in Idaho. These programs ran through 2005 and resulted in published Idaho Geological Survey Staff Reports (<http://www.idahogeology.org/Services/MinesAndMinerals/MineHistory.asp>). When a site was visited, a detailed map of the site's features was made on a 1:24,000 scale map. The location of the largest and/or most significant feature was later digitized and updated into the database. Some later studies included the use of GPS units; these locations were entered directly into the database. In 2008 in a project funded by the USGS under the National Geological and Geophysical Data Preservation Program, the Idaho Geological Survey began updating the locations of all the properties for which it has a mineral property file (physical files stored at the Idaho Survey include the reports made by companies to the State Mine Inspector from 1899-1962 as well as donated material from the mining industry. Some files contain consulting reports and mine maps. Most are one-of-a-kind documents, and many are in fragile condition). These updated locations were plotted in National Geographic's TOPO! program at a scale of 1:24,000. The improved coordinates were then uploaded into the database. Additional updating work is ongoing.

[Hide Data quality report - Completeness omission ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ►

MEASURE DESCRIPTION

Point data for location of mine or prospect in Idaho. Locations are for over all mine sites, i.e., one location point per mine record or prospect. Individual pits, adits, or shafts are not necessarily located.

[Hide Data quality report - Conceptual consistency ▲](#)

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

MEASURE DESCRIPTION

The original Mines and Prospects Map Series was compiled by referring to the best available reference for a site (preferably a map) and cross-checking that location against the information in MILS (U.S. Bureau of Mines' Mineral Industry Location Subsystem) and MRDS (U.S. Geological Survey's Mineral Resources Data System). One pit, adit, or shaft was selected to represent each mine, and points were plotted as accurately as possibly on 1:250,000 maps. Each plotted point covered about a quarter of a PLSS section. When these maps were digitized, the accuracy of each point was 0.25 miles (400 m). In 2008 mine locations were updated for all the properties for which it has a mineral property file. These updated locations were plotted in National Geographic's TOPO! program at a scale of 1:24,000. The improved coordinates were then uploaded into the database. Additional updating work is ongoing. Updated mine location records can be tracked via the "location\_T" (shapefile) or "location\_type" (access database file). In this field a "3" indicates "Locations updated in 2009 using data from mineral property files (physical files stored at the Idaho Survey include the reports made by companies to the State Mine Inspector from 1899-1962 as well as donated material from the mining industry. Some files contain consulting reports and mine maps. Most are one-of-a-kind documents, and many are in fragile condition) and verified on 1:24,000 scale quadrangles". Location accuracy for these updated mines is 40m. NOTE ABOUT LOCATIONS: Locations are for over all mine site, i.e., one per mine or prospect. Individual pits, adits, or shafts are not necessarily located.

[Hide Data quality report - Absolute external positional accuracy ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►

MEASURE DESCRIPTION

The original Mines and Prospects Map Series was compiled by referring to the best available reference for a site (preferably a map) and cross-checking that location against the information in MILS (U.S. Bureau of Mines' Mineral Industry Location Subsystem) and MRDS (U.S. Geological Survey's Mineral Resources Data System). One pit, adit, or shaft was selected to represent each mine, and points were plotted as accurately as possibly on 1:250,000 maps. Each dot used to plot a site covered about a quarter of a section. When these maps were digitized, the accuracy of each point was 0.25 miles (400 m). See process steps for subsequent mine location updating steps.

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

## Lineage ►

### LINEAGE STATEMENT

It is agreed at the Survey that this database is now at least 25 years (2015) in the making. It has been in the stewardship of many authors during that time, and remains a work in progress. The passage of a quarter-century has seen many changes in both concepts and formats of metadata. The metadata here represents another new format in the long history of this project. Other metadata references for the Mines and Prospects database include the MinesAndProspects\_Metadata.pdf file, the ReadMe.txt file (both included in the download bundle), and inside the database itself are five tables of interest: Z-annotations, Z-updates, TrackChange, DataDictionary, and mines\_mbd\_tracking\_mdat. Dates below may represent a date within a Process Step, rather than a completion date. Processes begun but not finished for this release are noted in Process Description as 'Ongoing,' and will be updated for the next major release.

### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 1990-01-01 00:00:00

#### DESCRIPTION

The original Mines and Prospects Map Series was compiled by referring to the best available reference for a site (preferably a map) and cross-checking that location against the information in MILS and MRDS. One opening was selected to represent each mine, and points were plotted as accurately as possibly on 1:250,000 maps. Each dot used to plot a site covered about a quarter of a section. When these maps were digitized, the accuracy of each point was 0.25 miles (400 m) or less.

[Hide Process step ▲](#)

### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 1994-01-01 00:00:00

#### DESCRIPTION

In 1994, the Idaho Geological Survey began the first of a series of field programs in cooperation with the U.S. Forest Service (Regions 1 and 4) and the U.S. Bureau of Land Management to inspect inactive and abandoned mines in Idaho. These programs ran through 2005, and the results of most of them have been published as Idaho Geological Survey Staff Reports. When a site was visited, a detailed map of the site's features was made on a 1:24,000 map. The location of the largest and/or most significant feature was later digitized and updated into the database. Some of the later studies included the use of GPS units; these locations were entered directly into the database.

[Hide Process step ▲](#)

### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2010-01-15 00:00:00

#### DESCRIPTION

Updated land status field with data from Inside Idaho 2009 (Surface Management Agency of Idaho).

[Hide Process step ▲](#)

### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2010-02-15 00:00:00

#### DESCRIPTION

Updated 2,600 locations using data from mineral property files to improve locations of mines as plotted at 1:24,000 scale in TOPO!

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2010-05-07 00:00:00

DESCRIPTION

Updated 24k quad locations via Identify tool in ArcGIS. Date field problems in "z-updates" table corrected.

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2010-05-11 00:00:00

DESCRIPTION

Added new table (Reference\_relate\_ to replace "reference". Created new primary key item and keyed it to referenceIndex table. Now References are not related on reference item. Temp fix to form to add reference.

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2010-05-11 00:00:00

DESCRIPTION

Updated PLSS info with data from Inside Idaho 2009 PLSS data. Eliminated dups in PLSS\_TRS by removing items in same table and migrating township, range, and section items to mines table. Processed TRS in GIS using Identify. Concat TRS for TRS item.

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2010-07-16 00:00:00

DESCRIPTION

Created WGS84 location values in ArcMap and updated Mines table using update query with shape .DBF. Values for use in Google Maps and Google Earth.

[Hide Process step ▲](#)

PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2011-01-15 00:00:00

DESCRIPTION

Create ESRI shape (XY event). Projected to IDTM27. Updated metadata.

[Hide Process step ▲](#)

## PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2014-11-03 00:00:00

## DESCRIPTION

Created a TrackChange table to document property re-location and other impacts to the database.

## RATIONALE

Documentaion.

*Hide Process step ▲*

## PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2014-11-03 00:00:00

## DESCRIPTION

Generated WGS84 locations for all possible properties in the Mines and Prospects database. These were based on available NAD27 locations.

## RATIONALE

As part of a larger project including development of a new web application service for the Mines and Prospects database (driven by WGS84 locations), this location data was essential for including any property. The NAD27 records were the most complete records available to generate WGS84 points.

*Hide Process step ▲*

## PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

## DESCRIPTION

Added quarter section attribute to PLSS data. Updated PLSS, county, and all USGS quad data to reflect WGS84.

## RATIONALE

Because of a fundamental switch to WGS84 locations, and because these attributes were incomplete for some properties, these fields were updated.

*Hide Process step ▲*

## PROCESS STEP ▶

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

## DESCRIPTION

Reconciled property locations: Properties without good specific location data in the Orange Book series had been grouped into a single point by 1X2 degree USGS quad. These properties locations were adjusted by referencing MILS and other sources. If not enough evidence was found to support providing any property with a unique location, it was removed from the database.

## RATIONALE

With the exceptions of temporal spatial identity definitions, usually a result of aggregation and/or distributions of ownership(s), properties should be considered to be unique spatial occurrences.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

DESCRIPTION

Updated latitude and longitude (NAD27) fields in the Mines table using the adjusted WGS84 property locations.

RATIONALE

Though WGS84 is the new shapefile release (for simplified interface with GPS, Google Earth, and map services), NAD27 remains relevant, largely due to USGS publications and other historical references.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

DESCRIPTION

Updated Mine Map collection available digitally. Updated scanned Property Files collection available digitally. These records are in the PropertyFileScans and the ScanCrossRef tables. Ongoing.

RATIONALE

The Survey has been scanning our historic Mine Map and Property Files collection into .pdf format. This has been facilitated by funding from the U.S. Geological Survey's National Geological and Geophysical Data Preservation program, and from Idaho Department of Lands. We are making these scanned documents available to the public to view/download through our Mines and Prospects web application. The Mines and Prospects database drives that web application.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

DESCRIPTION

Reconciled NEWLOC and SequenceNumber fields in the Mines table. Returned SequenceNumber to the primary property identification field for the database, and modified table relationships to reflect this. The NEWLOC field has been retained in this release as a precaution, but is not functioning as a relate.

RATIONALE

SequenceNumber was the field originally designed in the primary table (Mines) to reference a property's location and attributes. Once property locations/validities had been updated, the NEWLOC field was no longer needed.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

DESCRIPTION



Reconciled Mines and MineIndex labels: Mines and MinesIndex tables had been updated so that discrepancies existed for properties. Some discrepancies arose from using the NEWLOC field as a relate; others from oversight.

#### RATIONALE

MinesIndex provides attribute information crucial to the web application, such as if the Survey retains a hard file. The relationship must be 1:1.

*Hide Process step ▲*

#### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

#### DESCRIPTION

Reconciled property locations: Properties located in an ocean, a different hemisphere, etc. were researched and re-located. If not enough evidence existed to locate the property as a point (for instance, only a mining district or county), the property was removed from the database. However, this was preserved in the hope of new information that will allow for reliable location, and eventual re-introduction into the Mines and Prospects database.

#### RATIONALE

These problematic point locations were the results of data entry errors or processing errors.

*Hide Process step ▲*

#### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-01-01 00:00:00

#### DESCRIPTION

Reconciled property locations: Properties not within 2014 state boundaries were researched. These were largely properties near the Snake River (a fluctuating boundary) and the Idaho-Montana border (a rugged border difficult to survey). As research dictated, these property locations were adjusted, removed, or left in the original location. If a property was considered at some time to be in Idaho (as indicated by Idaho State Mines Inspector Reports, etc.), even though that property location was later identified as not actually being in the state, the original location was left intact. If there was good location evidence of workings for a property that spanned a state border, the point was adjusted to reflect the Idaho side of activity. Points now underwater because of dam construction in Hell's Canyon were left intact. Other locations were removed, and our hard files forwarded to the appropriate state.

#### RATIONALE

A database representing mineral extraction activity in Idaho should generally not include locations outside of Idaho.

*Hide Process step ▲*

#### PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-05-05 00:00:00

#### DESCRIPTION

Verification and update: MineIndex Hardfile (Y/N) attribute. Ongoing.

#### RATIONALE

Discrepancies found in this attribute led to a program of verification of hard files, and updating the database accordingly. This is happening in conjunction with cataloging and scanning our Mineral Property Files collection.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-05-29 00:00:00

DESCRIPTION

Verification and Update: ReferenceIndex and reference\_relate tabels. Previously, references could be difficult to search, or retrieve, due to format of this data. A modified form of APA was adopted, and tables changed accordingly. This includes a complete re-work of authorship standards, addition of hyperlinks (added during verification process for sources outside Idaho Geological Survey), year hyperlink checked/updated, page numbers (reference\_relate), Title, and year of publication. Existing fields are being updated during the verification process. The verification process involves locating these documents, and verifying that it is a valid reference for the property attributed. Ongoing.

RATIONALE

The references attribute is an essential part of this database since it is the rational for including any property. It has added value as a primary resouce for research.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2015-06-16 00:00:00

DESCRIPTION

Update metadata format.

RATIONALE

The format of this metadata had to be updated to be edited to prepare for the release of the latest version of DD-1.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2016-04-01 00:00:00

DESCRIPTION

Updated Ownership (Surface Mangement) field.

RATIONALE

Because this information changes rapidly, it is suitable to use the latest GIS data released by the Bureau of Land Management to update this field when contemplating a new release of DD-1.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2016-04-26 00:00:00

DESCRIPTION

Mining District information added.

RATIONALE

Because much of the historical literature concerning mineral extraction and exploration in Idaho references Mining District names, these were added to the Mines table. NOTE: These data have limitations that may render them unsuitable for many applications. Consult the support documentation for details.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2016-04-26 00:00:00

DESCRIPTION

Migrate DD-1 to personal geodatabase format and create two point feature classes: one as WGS84 and the second as WGS84 Web Mercator (Auxilliary Sphere) projections based on the Mines table's location data. The WGS84 feature class was used to create the shapefile, and the Web Mercator feature class was used to create the KMZ file. An ESRI .mdb is also included.

RATIONALE

In an effort to expand the functionality of DD-1 by diversification of products and enhance end-user convenience, DD-1 was migrated to a personal geodatabase.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2016-04-27 00:00:00

DESCRIPTION

Added ZIP code data.

RATIONALE

Because some users may wish to use this database in conjunction with TIGER data, ZIP locations for Idaho were introduced to compliment such efforts.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2016-06-08 00:00:00

DESCRIPTION

Updated SMA (Land Owner) information.

RATIONALE

These data are subject to frequent changes. The BLM releases a new dataset bi-annually for Idaho. The latest copy was obtained by request from the BLM (version dated 4/8/2016). The agency name was spelled in full rather than abbreviated as in the original dataset.

SOURCE DATA ►

RELATIONSHIP TO THE PROCESS STEP produced

DESCRIPTION

U.S. Bureau of Land Management.

[Hide Source data ▲](#)

[Hide Process step ▲](#)

**PROCESS STEP ▶**

**DESCRIPTION**

Renaming of tabels and fields, and changes in datatypes.

**RATIONALE**

For version 1.2016.1 of Mines and Prospects, the .mdb file was migrated to an ESRI geodatabase format. This was done to facilitate maintenance of the data, and by customer requests. Users may now query the database in MS Access and other database programs including ArcGIS. Many fields and some tables fell outside ESRI naming conventions by using spaces, hyphens, and reserved characters. These were edited accordingly. See current version of DD-1 version 1-2016-1 metadata file for more information.

[Hide Process step ▲](#)

**SOURCE DATA ▶**

**DESCRIPTION**

See Process Steps

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Geoprocessing history ▶

**PROCESS**

**PROCESS NAME**

**DATE** 2016-06-08 11:02:54

**TOOL LOCATION** d:\program files (x86)\arcgis\desktop10.2\ArcToolbox\Toolboxes\Analysis Tools.tbx\Identity

**COMMAND ISSUED**

Identity Mines\_WGS84 SMA\_WGS84

C:\Users\ctate\Desktop\Mines\20160603\_MinesAndProspects\_1.2016.1.mdb\Mines\_WGS84\_SMA

ALL # NO\_RELATIONSHIPS

**INCLUDE IN LINEAGE WHEN EXPORTING METADATA** No

[Hide Geoprocessing history ▲](#)

## Distribution ▶

**DISTRIBUTOR ▶**

**CONTACT INFORMATION**

**ORGANIZATION'S NAME** Idaho Geological Survey

**CONTACT'S POSITION** Digital Mapping Manager

**CONTACT'S ROLE** distributor

**CONTACT INFORMATION ▶**

**PHONE**

**VOICE** (208) 885-7991

**FAX** (208) 885-5826

ADDRESS  
E-MAIL ADDRESS IGS@uidaho.edu

*Hide Contact information ▲*

#### ORDERING PROCESS

TERMS AND FEES none

#### INSTRUCTIONS

Online only. [http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database\\_of\\_the\\_Mines\\_and\\_Prospects\\_of\\_Idaho](http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database_of_the_Mines_and_Prospects_of_Idaho)

*Hide Distributor ▲*

#### DISTRIBUTION FORMAT

\* NAME Personal GeoDatabase Feature Class  
VERSION 2000 (works in MS Access 2010)  
FILE DECOMPRESSION TECHNIQUE zip

#### DISTRIBUTION FORMAT

\* NAME Personal GeoDatabase Feature Class  
VERSION 1.2016.1  
FILE DECOMPRESSION TECHNIQUE zip

#### TRANSFER OPTIONS

##### ONLINE SOURCE

LOCATION <http://www.idahogeology.org/Services/MinesAndMinerals/Search/>

##### ONLINE SOURCE

LOCATION [http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database\\_of\\_the\\_Mines\\_and\\_Prospects\\_of\\_Idaho](http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database_of_the_Mines_and_Prospects_of_Idaho)

#### TRANSFER OPTIONS

##### ONLINE SOURCE

LOCATION [http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database\\_of\\_the\\_Mines\\_and\\_Prospects\\_of\\_Idaho](http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database_of_the_Mines_and_Prospects_of_Idaho)

#### TRANSFER OPTIONS

TRANSFER SIZE 18.3

##### ONLINE SOURCE

LOCATION [http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database\\_of\\_the\\_Mines\\_and\\_Prospects\\_of\\_Idaho](http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Database_of_the_Mines_and_Prospects_of_Idaho)  
DESCRIPTION Download from IGS website

*Hide Distribution ▲*

## Fields ►

#### DETAILS FOR OBJECT Mines\_WGS84 ►

\* TYPE Feature Class  
\* ROW COUNT 8843

#### FIELD Problem ►

\* ALIAS Problem  
\* DATA TYPE String  
\* WIDTH 255  
\* PRECISION 0  
\* SCALE 0

[Hide Field Problem ▲](#)

FIELD [DateModified ▶](#)

- \* ALIAS DateModified
- \* DATA TYPE Date
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

[Hide Field DateModified ▲](#)

FIELD [Initials ▶](#)

- \* ALIAS Initials
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

[Hide Field Initials ▲](#)

FIELD [SequenceNumber ▶](#)

- \* ALIAS SequenceNumber
- \* DATA TYPE String
- \* WIDTH 10
- \* PRECISION 0
- \* SCALE 0

[Hide Field SequenceNumber ▲](#)

FIELD [NEWLOC ▶](#)

- \* ALIAS NEWLOC
- \* DATA TYPE String
- \* WIDTH 6
- \* PRECISION 0
- \* SCALE 0

[Hide Field NEWLOC ▲](#)

FIELD [MAPLOC ▶](#)

- \* ALIAS MAPLOC
- \* DATA TYPE String
- \* WIDTH 6
- \* PRECISION 0
- \* SCALE 0

[Hide Field MAPLOC ▲](#)

FIELD [DEPOSIT ▶](#)

- \* ALIAS DEPOSIT
- \* DATA TYPE String
- \* WIDTH 180
- \* PRECISION 0
- \* SCALE 0

[Hide Field DEPOSIT ▲](#)

## FIELD Latitude ►

- \* ALIAS Latitude
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

*Hide Field Latitude ▲*

## FIELD Longitude ►

- \* ALIAS Longitude
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

*Hide Field Longitude ▲*

## FIELD Location\_type ►

- \* ALIAS Location\_type
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

*Hide Field Location\_type ▲*

## FIELD DMSLAT ►

- \* ALIAS DMSLAT
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

*Hide Field DMSLAT ▲*

## FIELD DMSLONG ►

- \* ALIAS DMSLONG
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

*Hide Field DMSLONG ▲*

## FIELD F24kquad ►

- \* ALIAS 24kquad
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

*Hide Field F24kquad ▲*

## FIELD F100kQuad ▶

- \* ALIAS 100kQuad
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

*Hide Field F100kQuad ▲*

## FIELD CountyName ▶

- \* ALIAS CountyName
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

*Hide Field CountyName ▲*

## FIELD LandOwner ▶

- \* ALIAS LandOwner
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

*Hide Field LandOwner ▲*

## FIELD FSAgencyName ▶

- \* ALIAS FSAgencyName
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0

*Hide Field FSAgencyName ▲*

## FIELD OrangeNum ▶

- \* ALIAS OrangeNum
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

*Hide Field OrangeNum ▲*

## FIELD F1x2degreeQuadrangle ▶

- \* ALIAS 1x2degreeQuadrangle
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

*Hide Field F1x2degreeQuadrangle ▲*

## FIELD lon\_WGS84 ▶

- \* ALIAS lon\_WGS84



- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

*Hide Field lon\_WGS84 ▲*

FIELD lat\_WGS84 ►

- \* ALIAS lat\_WGS84
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 0
- \* SCALE 0

*Hide Field lat\_WGS84 ▲*

FIELD TOWNSHIP ►

- \* ALIAS TOWNSHIP
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

*Hide Field TOWNSHIP ▲*

FIELD RANGE ►

- \* ALIAS RANGE
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

*Hide Field RANGE ▲*

FIELD SECTION\_ ►

- \* ALIAS SECTION
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

*Hide Field SECTION\_ ▲*

FIELD QSECTION ►

- \* ALIAS QSECTION
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

*Hide Field QSECTION ▲*

FIELD OBJECTID ►

- \* ALIAS OBJECTID
- \* DATA TYPE OID
- \* WIDTH 4

- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Internal feature number.
  
- \* DESCRIPTION SOURCE  
Esri
  
- \* DESCRIPTION OF VALUES  
Sequential unique whole numbers that are automatically generated.

*Hide Field OBJECTID ▲*

FIELD ZIP\_CODE ►

- \* ALIAS ZIP\_CODE
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

*Hide Field ZIP\_CODE ▲*

FIELD Mining\_District ►

- \* ALIAS Mining\_District
- \* DATA TYPE String
- \* WIDTH 255
- \* PRECISION 0
- \* SCALE 0

*Hide Field Mining\_District ▲*

FIELD Shape ►

- \* ALIAS Shape
- \* DATA TYPE Geometry
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Feature geometry.
  
- \* DESCRIPTION SOURCE  
Esri
  
- \* DESCRIPTION OF VALUES  
Coordinates defining the features.

*Hide Field Shape ▲*

*Hide Details for object Mines\_WGS84 ▲*

*Hide Fields ▲*

**Metadata Details ►**

METADATA LANGUAGE English (UNITED STATES)  
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset  
SCOPE NAME \* dataset

\* LAST UPDATE 2016-11-03

#### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0  
METADATA STYLE ISO 19139 Metadata Implementation Specification  
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2016-06-03 14:41:10  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-11-03 07:54:54

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
LAST UPDATE 2016-11-03 07:54:54

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

#### METADATA CONTACT

INDIVIDUAL'S NAME Christopher Tate  
ORGANIZATION'S NAME Idaho Geological Survey  
CONTACT'S POSITION Mines Research Specialist  
CONTACT'S ROLE point of contact

#### CONTACT INFORMATION ►

PHONE  
VOICE 208-885-7540

#### ADDRESS

E-MAIL ADDRESS [ctate@uidaho.edu](mailto:ctate@uidaho.edu)

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ►

#### MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)

## Thumbnail and Enclosures ►

#### THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

## FGDC Metadata (read-only) ▼

## SECTION VI: GIS Data Sources

Bureau of Land Management Idaho State Office Branch of Engineering and Geographic Sciences (GIS data creation) and the Idaho Geological Survey (source map information), 1987, Idaho Mining Districts. Available by request from <http://www.idahogeology.org/> (accessed 26 May 2016).

Bureau of Land Management, 2013, Surface Management Agency Multipart (Federal Land Status) (Polygon). Available at [http://cloud.insideidaho.org/webApps/metadataViewer/default.aspx?path=\\intranet.rockett.net\insideprod\data\anonymous\blm\RLTY\\_SMAMultipart\\_PUB\\_24K\\_POLY.shp.xml](http://cloud.insideidaho.org/webApps/metadataViewer/default.aspx?path=\\intranet.rockett.net\insideprod\data\anonymous\blm\RLTY_SMAMultipart_PUB_24K_POLY.shp.xml) (accessed 26 April 2016).

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ESRI, 2014, USA Zip Code Areas. Available at <https://www.arcgis.com/home/item.html?id=8d2012a2016e484dafaac0451f9aea24> (accessed 26 May 2016).

Idaho Legislative Services Office, 2001, County Boundaries for the State of Idaho Redistricting 2001 Process. Available at [http://cloud.insideidaho.org/webApps/metadataViewer/default.aspx?path=\\intranet.rockett.net\insideprod\data\anonymous\ilso\counties\\_id\\_ilso.shp.xml](http://cloud.insideidaho.org/webApps/metadataViewer/default.aspx?path=\\intranet.rockett.net\insideprod\data\anonymous\ilso\counties_id_ilso.shp.xml) (accessed 1 June 2016).

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## SECTION VII: Select Web App FAQ

# Mines and Prospects FAQ

**I can't seem to get this thing to work, and the Help isn't helping. Can someone at IGS assist me?**

Our home page has a [Contact Us](#) link. Call or email us and we will be happy to help. Or contact Christopher Tate directly at (208) 885-7540 or by email at [ctate@uidaho.edu](mailto:ctate@uidaho.edu). We also welcome comments, suggestions, and/or feedback on the Mines and Prospects database, as well as this Help and FAQ document.

**I want to use this application in the field with my phone to find a site, but it's not working. Are there any options?**

Possibly. *IGS cannot recommend or support using this web app from portable devices at this time, and does not endorse, support, or recommend using any other apps.* Our Mines app was not developed for use on smart phones or tablets, and has not been tested on a variety of these devices. *Without internet the interactive IGS Mines app cannot be accessed!*

However, there is a beta-version KMZ file of property location point data (with limited property attributes) available from the DD-1 download page [here](#). The KMZ can be imported into Google Earth, and may be usable within some portable device apps. *It is crucial the user understands the limitations of Mines & Prospects location data for interpretation of property locations! We strongly suggest reviewing DD-1 metadata before making any assumptions.*

**Disclaimer:** The Idaho Geological Survey does not guarantee Mines and Prospects data to be free of errors nor assume liability for interpretations made from this data, or decisions based thereon.

Just as an FYI, offline use of KMZ files in general may be possible on certain devices, but this subject is well outside of the services IGS provides.

**Why are there different size property markers?**

In an effort to not misrepresent location data while retaining zoom functionality, we elected to use different size Property Markers. Some property locations have been derived from 1:250,000-scale USGS paper maps, where a 'dot' (point representation) could be a ¼ mile diameter or more. A point derived from these maps is represented, beginning at a magnification of 1 inch to a mile (scale may vary depending on screen resolution settings) as a larger and slightly transparent dot. Other property locations that have been derived from USGS 1:24,000-scale maps, where location would be more specific, are represented by a smaller, opaque 'dot.' The latter properties are referred to as having "Improved Locations." In some cases properties have been visited by IGS geologists, and located using a Global Positioning Satellite (GPS) reference. These, too, are marked with the smaller Property Marker, but not differentiated from the 1:24,000-scale derived locations. Though every reasonable attempt has been made for location accuracy, the Property Markers should be considered approximate representations of property locations 'on the ground.'

### **Then what is the accuracy of property location data?**

There is not a good answer for any given property. Keep in mind that mines are developed on claims, which are areas rather than specific points. The original ownership of a Mines and Prospects property may be, or have been, a single claim or a group of claims. Through time, the ownership of adjacent properties may have changed by being merged, or a property split and sold or leased. It would be difficult to verify or represent these as areas in a responsible manner. Consider the property latitude/longitude locations as a general reference only, and please see our disclaimer. The ReadMe file and the metadata tables in the downloadable version of the Mines and Prospects database have more detailed information about how properties were located.

### **Why is some location data about this property missing?**

Some property locations fall slightly outside Idaho boundaries. It could be because the property straddles a state line, or there is a historic reference to the property being located in Idaho but there is not enough evidence to locate the property more specifically than referenced by MILS or MRDS. In these cases Idaho PLSS data and Idaho county data do not apply. PLSS or County data may be missing because the property is now located in a submerged location, such as a reservoir, or near a fluctuating border like the Snake River where the property location might now fall outside of Idaho.

### **What is the Idaho Public Land Survey System (PLSS)?**

The PLSS is the standard for legal descriptions of property boundaries in Idaho; however, *the PLSS descriptions in the Mines and Prospects database should NEVER be considered a legal description. In Idaho, a legal property description can only be accomplished by contracting an Idaho Licensed Public Land Surveyor (ILPLS) to survey and record a legally binding border, which is subject to peer review, and upheld by the courts.* Our PLSS locations have been extrapolated in a GIS, and are provided as a search reference only. In no way do they imply legal definition. The latest GIS information about Idaho PLSS was obtained from the Bureau of Land Management (BLM) to create these spatial definitions. More information about this process can be found in the ReadMe file and the metadata tables in the downloadable version of the Mines and Prospects database.

### **What is the reasoning behind the IGS naming convention for properties?**

The prefix for property names are abbreviations of the USGS 1x2 degree (1:250,000-scale) quadrangle map names that property locations were initially derived from. For instance, BO is the Boise quad, WL the Wallace quad, etc. The number following the prefix is a sequential number. This convention allows for grouping properties regionally, therefore a general inference about what part of the state a property is located. Below is a list of the USGS quadrangle names and the IGS abbreviations by North to South, and West to East. For clarification, a map of these quads can be found [here](#).

Index of Idaho quadrangles at 1:250,000-scale and Mines and Prospects property naming convention:



**USGS Name IGS Abbreviation**

Sandpoint	SA
Spokane	SP
Wallace	WL
Pullman	PL
Hamilton	HM
Grangeville	GR
Elk City	EC
Dillon	DI
Baker	BA
Challis	CH
Dubois	DU
Ashton	AS
Boise	BO
Hailey	HA
Idaho Falls	IF
Driggs	DR
Jordan Valley	JV
Twin Falls	TF
Pocatello	PO
Preston	PR

**How often is the Mines and Prospects database updated?**

New property locations that come to our attention will be added as they are available bi-annually, or more often. Scanned maps and documents will be added on a quarterly basis at least. The downloadable database is updated accordingly.

**I found old documents in my attic about a prospect my family operated. Would they be useful to the IGS?**

Yes! If the location is in Idaho, we would be glad to process copies or originals and share them with the public. Use the [Contact Us](#) link on our home page to call or email us about donating to our library.

**I know of a mine, but do not see it in your database. Why not?**

There are several reasons an Idaho property would not be in our database. If a query is done on a name, and the name is not recorded in our database, it would not be returned. We have many properties that we have records for, but poor or no location information, so those are not included. And it may be we have no knowledge of the property at all. If you know of a property and cannot locate it in our database, or have information you would like to contribute about a property, please contact Christopher Tate at (208) 885-7540 or by email at [ctate@uidaho.edu](mailto:ctate@uidaho.edu).

**I want to strike it rich! Are any of the properties in the Mines and Prospects database available?**

Maybe, but that is outside the scope of the Mines and Prospects database. There are a number of federal and state regulatory agencies. The following agencies may be useful, but it is not a complete list:

The Bureau of Land Management ([BLM](#))

United States Forest Service ([USFS](#))

United States Environmental Protection Agency ([EPA](#))

Idaho Department of Lands ([IDL](#))

Idaho Department of Water Resources ([IDWR](#))

## SECTION VIII: Table, Field, and Datatype Changes

# **Addendum: Table and field name changes DD-1**

**Christopher A. Tate**

## **Purpose**

This document reflects name changes and data types to tables and fields that were implemented after metadata documentation was originally developed for DD-1 version 1.2016.1, and to bring the database into naming convention requirements as a geodatabase. NOTE: Spell-checking algorithms may obscure underscore characters ('\_') in these data.

Name and datatype changes to tables and fields:

MineIndex table

- Sequence Number to SequenceNumber (removed the space)
- Hard File? To HardFile\_Boolean
- LocationUpdated? To LocationUpdated
- ProductionValue? To ProductionValue
- CommoditiesValue? To CommoditiesValue
- Ore? To Ore
- PeriodProduction? To PeriodProduction
- OrangeNum? To OrangeNum
- OrangeNum2? To OrangeNum2
- Update? To Updated
- Annotation? To Annotation
- Lode? To Lode
- Placer? To Placer
- Field Checked? To FieldChecked (note the space removed)
- Scanned? To Scanned

Names table

- R\_Index2\_Deposit\_FieldName to CompositeName
- Changed CompositeName field type to Long Text

Ore table

- Sequence Number to SequenceNumber
- Raw Amount to RawAmount
- Raw Measure to RawMeasure
- Tailings Amount to TailingsAmount
- Tailings Measure to TailingsMeasure

#### PeriodProduction table

- Sequence Number to SequenceNumber
- Period Production to PeriodProduction
- Low Prod Period1 to LowProdPeriod1
- High Prod Period1 to HighProdPeriod1

#### ProductionCodes table

- Low Range to LowRange
- High Range to HighRange

#### ProductionValues table

- Sequence Number to SequenceNumber
- Production Value to ProductionValue
- Production Type to ProductionType

#### Commodities table

- Sequence Number to SequenceNumber

#### ForestServiceAgency table

- KEY to ID

#### Z-annotations table to Z\_annotations (table name)

#### Z-updates table to Z\_updates (table name)

- Property Name to PropertyName
- Action taken to Action\_taken

#### PropertyFileScans table

- Re-scan file to Rescan\_file
- Cross-Ref Properties Comments to xRef\_Prop\_Comments