

US EPA ARCHIVE DOCUMENT

**POPULATION STUDIES OF MINES AND MINERAL
PROCESSING SITES**

JANUARY, 1997

**OFFICE OF SOLID WASTE
U. S. ENVIRONMENTAL PROTECTION AGENCY**

Introduction

The purpose of this report is to present an evaluation of the demographic characteristics of people living within one mile and five miles of operating mines and mineral processing facilities. The Agency has used population count and demographic data generated by the U.S. Bureau of the Census, 1990 Census of Population. The data presented in the following tables only includes population data for 306 operating mines and 121 mineral processing sites. This subset of the universe of operating mines and mineral processing sites was chosen since the selected mines represent the largest mining sectors and the selected mineral processing sites represent those facilities most likely to be affected by the Agency's proposed January 25, 1996 rule.

Data was collected in the following manner. The data on population was derived using three separate CD-ROM based programs. After identifying operating mines (using Randol's), the Agency used one of two programs to identify the exact location of the mine. Where Randol's provided a street address, the DeLorme Street Atlas program was used to determine latitude and longitude. In cases where the address was not available, or was not useful in identifying the exact location (i.e., Post Office Boxes), the MAS\MILS database (developed by the U.S.G.S.) was used. This database has location information on over 60,000 mines and mineral locations worldwide. As noted in the tables, the format of the latitude and longitude is either in degrees, minutes and seconds or in decimal format. This format reflects the source of the data, where the DeLorme program provided latitude and longitude in the degree format, and the MAS\MILS program provided the same information in decimal format. After identifying the latitude and longitude for each mine, the LANVIEW database was used to determine the population within one and five miles of each mine. This database, containing 1990 Census Bureau data, includes an interface that allows the user to define numerous parameters, including population, income, and racial demographics.

EPA expressed beliefs in 1985 Report to Congress and 1986 Regulatory Determination that mining occurred in sparsely populated areas. EPA's new information indicates that there are significant populations within close proximity to hardrock mines. (See Population Studies of Mines and Mineral Processing Sites, EPA, 1997) This study analyzed the demographic characteristics of people living near operating mines and mineral processing sites. The Agency utilized data from the 1990 Census of Population. As a preliminary indicator of population, EPA determined the population found within one mile and five miles of 306 operating hardrock mines. EPA believes that there are approximately 1,000 operating hardrock mines in the US. Therefore, the population estimates should be viewed as conservative and the actual total population located near mines is larger than this report indicates.

Agency study of the 306 mines represent mining in the gold, silver, copper, lead/zinc, iron, and phosphate sectors. EPA demographic information indicates that 228,145 persons, 58,996 families, and 89,335 households live within 1 mile of 306 hardrock mines. The study of the distribution of more environmentally sensitive populations around these mines indicates that there are 106,367 children under the age of 19 within one mile, of which 55,374 people are under the age of 4. There are 28,003 people over the age of 65 located within one mile of the mines. The ethnic characteristics of the populations living near mines also warrants attention. There are a total of 51,468 non-white people living within one mile of the mines, of which 9,938 are classified Black, 5,452 are classified Native American, and 33,159 people are classified as Hispanic.

There are 3,465,876 persons, 873,441 families and 1,309,036 households located within 5 miles of those mines. Environmentally sensitive populations located within 5 miles include 1,050,572 children under the age of 19, of which 269,842 are under the age of 4. There are 396,197 people over the age of 65 within 5 miles of the mines. There are a total of 859,738 non-white people living within five miles of the mines, of which 235,274 are classified as Black, 50,714 are classified as Native American, and 500,479 are classified as Hispanic.

EPA is especially concerned about the relatively high percentage of children living within mines and mineral processing sites. Some of these facilities discharge significant quantities of lead, and other pollutants for which children may be especially susceptible. For example there are 63,014 children under the age of 19 located within 5 miles of lead mines, of which 17,172 are under the age of 4.

Agency studied the demographic characteristics of the population located around 112 mineral processing sites. These sites represent those facilities most likely to be affected by the rulemaking. (See Population Studies of Mines and Mineral Processing Sites, EPA, 1997) EPA demographic information indicates that 204,309

persons, 78,373 families, and 107,216 households live within 1 mile of 112 mineral processing sites. The study of the distribution of more environmentally sensitive populations around these mineral processing sites indicates that there are 135,587 children under the age of 19 within five miles, of which 72,621 people are under the age of 4. There are 28,003 people over the age of 65 located within one mile of the mineral processing sites. There are a total of 51,468 non-white people living within one mile of the mines, of which 51,499 are classified Black, 1,889 are classified Native American, and 45,340 people are classified as Hispanic.

There are 5,623,769 persons, 1,417,579 families and 2,136,729 households located within 5 miles of those mineral processing sites. Environmentally sensitive populations located within 5 miles include 1,585,086 children under the age of 19, of which 419,055 are under the age of 4. There are 727,244 people over the age of 65 within 5 miles of the mineral processing sites. There are a total of 1,342,613 non-white people living within five miles of mineral processing, of which 949,789 are classified as Black, 33,230 are classified as Native American, and 542,471 are classified as Hispanic.

Agency evaluation of the demographic characteristics of population located within one and five miles of mines and mineral processing facilities indicates that large numbers of people are living close to these facilities, and that environmentally sensitive groups within the population (children and the elderly) are also found in large numbers around these sites. This evaluation of population correctly found that mining and mineral processing sites do in fact have the potential to affect large numbers of people living nearby.

Table 1. Mining Facilities, Summary

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
A to Z Mine	Peacock Mining Company	P.O. Box 999, #3	Longmont	CO	80504	Au	40*27.35	-109*40.78
Akers #1	Akers Supply , Inc.	P.O. Box 11	Noth Matewan	WV	25688	Fe	37*37.59	82*09.05
Akers #2	Akers Magnetite, Inc.0	P.O. Box 770	Ceredo	WV	25507	Mg	38*23.65	82*33.42
American Girl	MK Gold Company	P.O. Box 879	Winterhaven	CA	92283	Ag	40.672222	-122.310556
Annabel Lee	Ozark-Mahoning company	P.O. Box 2057, Bohn St.	Rosiclare	IL	62982	Zn	37.583332	-88.222512
Apex and Damon Mine	CSS Management Corporation	P.O. Box 56, 201 Lowe Creek Rd	Baring	WA	98224	Ag	47*41.87	-121*31.64
Argenta Mine and Mill	Baker Hughes Inc.	P.O. Box 277	Belle Mountain	NV	89820	Barite	40*35.12	116*52.10
Atlantic and Pacific Mine	2900 Developement Corporation	P.O. Box 447	Kellogg	ID	83837	Au	45.648056	-111.983889
Aurora	Consolidated Nevada Goldfields, Inc.	P.O. Box 3070, Lucky Boy Pass	Hawthorne	NV	89415	Au	38*12.23	-118*53.16
Aurora Partnership		P.O. Box 1628	Hawthorne	NV	89415	Au	38*12.23	-118*53.16
Aurum	Aurum Enterprises Inc.	4500 19th St.	Boulder	CO	80304	Au	40*03.337	-105*16.319
B & H-Pete & Joe Mines		SW		MT		Au	45.591111	-112.130556
Bagdad	Cyprus Bagdad Copper Corporation	P.O. Box 245	Bagdad	AZ	86321	Ag	34.584722	-113.207778
Bald Mountain Mine	Placer Dome U.S., Inc.	P.O. Box 2706	Elko	NV	89803	Au	39*57.55	-115*34.31
Balmat Mine No. 2 & Mine No. 4	Zinc Corporation of America	P.O. Box 226	Hailesboro	NY	13645	Pb	44.572778	-74.908333
Barney's Canyon	Kennecott Minerals Company	P.O. Box 311, 8200 S. 9600 W.	Bingham Canyon	UT	84006	Au	40.599167	-112.138056
Baltic	Rand Mining Company	P.O. Box B 27850 E. Butte Ave.	Randsburg	CA	93554	Au	35*21.358	-117*38.638
Bartlesville Plant	Zinc Corp. of America	P.O. Box 579, 11th & Virginia	Bartlesville	OK	74005	Zn	36.733333	-95.983333
Battle Mountain Complex	Battle Mountain Gold Company	P.O. Box 1627	Battle Mountain	NV	89820	Au	40.54	-117.123889
Baxter	California Portland Cement Company	2025 E. Financial Way	Glendora	CA	91741	Fe	35.053056	-116.304722
Bayer Alumina	ALCOA	General Delivery	Point Comrot	TX	77978	Ca Hydroxi	28*40.39	-96*33.34
Bayless	Alice E. Bayless	Drawer F. Copper Center		AK	99573	Au	64*06.46	-143*22.38
Beal Mountain	Pegasus gold Inc.	1800 Fairmont Rd.	Anaconda	MT	59711	Au	46*02.850	-112*46.739
Beartrack	Meridian Gold Inc.	600 Van Deff St	Salmon	ID	83457	Au	45.266389	-113.734167
Beauregard Mine	D.J. Beauregard	Box H	Moab	UT	84532	Au	38*34.60	-109*32.46
Bee Hive				AK		Au	65*02.05	-165*58.75
Belmont Claims				MT		Au	46.015278	-112.518056
Betze-Post	Barrick Goldstrike Mines Inc.	P.O. Box 29	Elko	NV	89801	Au	40.983333	-116.372222
Big Bopper Tailings		18301 W. Colfax Ave., #T1B	Golden	CO	80401	Au	39*43.855	105*10.251
Big Nugget	John Schnabel	P.O. Box 149	Haines	AK	99827	Au	65.805	-162.081389
Big Tom Barite	New Riverside Ochre Company Inc.	P.O. Box 460	Cartersville	GA	30120	Barite	34*09.870	84*47.947
Bigham Canyon	Kennecott Utah Copper Corporation	P.O. Box 525??232??,	Bigham Canyon	UT	84006	Ag	40*41.06	-112*06.58
Bird's Nest	Eldora Mines	General Delivery, 555 Huran Av	Eldora	CO	80437	Au	39*56.949	-105*34.063

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
Black Butte Mine		Box 169	Livingston	MT	59047	Fe	46.763889	-110.955
Black Pine	Formation Capitol Corporation	812 Shoup St.	Salmon	ID	83467	Cu	45.820833	-115.412222
Blue Bluff Claims				ID		Au	65*02.05	-115*07.85
Brewer Mine	Brewer Gold Company	Rt. 2, Box 57,	Jefferson	SC	29718	Au	34.650278	-80.413333
Brownsville Mill	Milwhite, Inc.	P.O. Box 67	Brownsville	TX	78520	Barite	25*55.61	97*24.88
Brownsville Operation Mill		P.O. Box 6210	Brownsville	TX	78523	Mg	25*56.88	97*24.86
Buckskin	Pruett Ranches Inc.	50 Artesia	Wellington	NV	89444	Au	38*52.103	-119*24.107
Bullfrog	Lac Bullfrog, Inc.	P.O. Box 519	Beatty	NV	89003	Au	36.897222	-116.8175
Bunker Hill	New Bunker Hill Mining Company	P.O. Box 29	Kellogg	ID	83837	Pb	47*32.249	116*07.179
Burro Chief Copper	Burro Chief Copper Company	P.O. Drawer B,	Tyrone	NM	88065	Cu	32*39.42	108*21.61
Buster Creek	Buster Creek Mining	Box 117	Nome	AK	99762	Au	65.579167	-145.890278
C F & I Pit	Pete Lien & Sons, Inc.	P.O. Box 440	Rapid City	SD	57709	Fe	44.195833	-103.504722
C.O.D Mine Property				AZ		Au	35.345278	-114.10333
CAL Sierra Developement	CAL Sierra Developement, Inc.	4738 Hammonton Rd	Marysville	CA	95901	Au	39*07.753	-121*33.203
Candelaria	Kinross Gold Corporation	P.O. Box 1240	Hawthorne	NV	89415	Ag	38.150556	-118.102222
Carr				CA		Au	39.96	-120.708333
Caselton Tailings		611 S. 10th St.	Las Vegas	NV	89101	Zn	37.919167	-114.481944
Castle Mountain	Viceroy Gold Corporation	P.O. Box 68	Searchlight	NV	89046	Au	39.486389	-117.088056
Center Mine		P.O. Box 6054	Elko	NV	89802	Au	35.850278	-108.958333
Chino	Chino Mines Company	P.O. Box 7, 210 Cortez	Hurley	NM	88043	Cu	32.791667	-108.066667
Christensen Ranch Mine	Cogema Mining Inc.	P.O. Box 730	Mills	WY	82644	U	43.892167	-106
Christy	Strategic Minerals, Inc.	4285 Malvern Rd	Hot Springs	AR	71901	V	34*28.316	92*59.303
Clear Springs	IMC-Agrico Company	P.O. Box 867	Bartow	FL	33830	P	27.865278	-81.813889
Clinch Valley	Savage Zinc, Inc.	P.O. Box 40	Thorn Hill	TN	37881	Zn	36*21.64	83*25.03
Comstock/Blowout/Duncan Mine	Geneva Steel	12370 S. Westmountain Rd.	Genola	UT	84655	Fe	39*58.613	-111*47.039
Continental	Montana Resources	600 Shields Ave.	Butte	MT	59701	Cu	46*00.280	-112*30.791
Continental Mine	Cobre Mining Company, Inc.	P.O. Box 424	Hanover	NM	88041	Cu	32*50.67	108*04.68
Cook's Mine	Cook's Mining	P.O. Box 70456	Fairbanks	AK	99707	Au	65.068056	-147.238333
Copper Queen	Phelps Dodge	36 W. Hwy 92	Bisbee	AZ	85603	Cu	33.911389	-111.093056
Cortez	Cortez Gold Mines JV	HC 66-50	Beowawe	NV	89821	Ag	40*26.14	-116*35.37
Coy	Asarco Inc.	P.O. Box 460,	Strawberry Plai	TN	37871	Zn	36.122222	-83.488889
Cripple Creek	Cripple Creek & Victor Gold Mining Company	P.O. Box 191, 2917 Country Rd.	Victor	CO	80860	Au	38*.44.35	105*09.01
Crofoot/Lewis	Hycroft Resources & Developement Corporation	P.O. Box 3030	Winnemucca	NV	89446	Ag	40.847222	-118.689722
Crow Butte	Ferret Exploration Company of Nebraska, Inc.	P.O. Box 169	Crawford	NE	69339	U	42*41.071	-103*24.828
Dalton Alumina and Chemicals Company	Dalton Alumina and Chemicals Company	p.o. Box 1601	Dalton	GA	30722	Al	34*46.153	-84*58.224
Daybook	Maryland Stone Company	127 Possum Trot Rd.	Bakersville	NC	28705	Olivine	35.963889	-82.28611

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
DCS Mill	DCS Color and Supply Company	2024 S. Lenox	Milwaukee	WI	53207	Fe	43.008333	-87.9
Dean Mine	St. George Metals, Inc.		Battle Mountain	NV		Au	40.426944	-116.858889
Dee	Dee Gold Mining Company, Inc.	P.O. Box 1193	Elko	NV	89803	Au	41*01.26	-116*25.18
Delamar	Kinross DeLamar Mining Company	P.O. Box 52	Jordan Valley	OR	97910	Au	43.013611	-116.826944
Delta	Brush Wellman Inc.	P.O. Box 115	Delta	UT	84624	Be	39*21.176	-112*34.685
Denton-Rawhide	Kennecott Minerals Company	P.O. Box 2070	Fallon	NV	89406	Au	39.014167	-118.385278
Departure Mine				MT		Au	46*08.87	-111*44.07
Dry Valley	FMC Corporation	P.O. Box 688, 2275 Dry Valley	Soda Springs	ID	83276	Ph	42.734444	-111.337778
Easy Junior	Alta Gold Comp.	HC 10, Box 10050	Ely	NV	89301	Au	39.443611	-115.785556
Elk Creek	Wayne Clutis Mining	Box 27	Greenough	MT	59836	Barite	46.882778	-113.380278
Elk Peak	Blue Range Mining Company Limited Partnership			MT		Au	47.221389	-109.161389
Empire Iron Mining Partnership	Empire Iron Mining Partnership	P.O. Box 38	Palmer	MI	49871	Fe	46*26.59	-87*35.44
Engstrom Dredge	Engstrom Dredging Company	P.O. Box 536	Nome	AK	99762	Au	64.684444	-165.295
Enoch Valley	Dravo-Soda Springs	P.O. Box 975	Soda Springs	ID	83276	P	42.881389	-111.406667
Eveleth	Oglebay Norton Iron Ore	P.O. Box 180	Eveleth	MN	55734	Fe	47.443611	-92.554167
Feather Fork	Pumas Gold USA Inc.	Box 87	La Porte	CA	95981	Au	39.720833	-120.916944
Flambeau	Flambeau Mining Company	P.O. Box 166, N. 4100 Hwy. 27	Ladysmith	WI	54848	Cu	45.443611	-91.121389
Florida Canyon	Florida Canyon Mining, Inc.	P.O. Box 330	Imlay	NV	89418	Au	40.579444	-118.238333
Flumehouse				CA		Au	38.27333	-120.730833
Fort Green	IMC-Agrico Company	P.O. Box 2000	Mulberry	FL	33860	P	27.668056	-82.006944
Fort Meade	Cargill Fertilizer Company	3900 Peebles Rd.	Fort Meade	FL	33841	P	27.697222	-81.855556
Four Corners	IMC-Agrico Co.	P.O. Box 471	Bartow	FL	33830	P	27.738889	-82.2
Fourth of July	American independent Mines and Minerals Co.		Yellow Pine	ID	83677	W	45.123056	-115.361667
French Bar Placer Mine		Box 483	E. Helena	MT	59835	Au	46.653889	-111.754167
Frida Marie Group	Consoldated Minerals Corporation	P.O. Box 467, 125 N. Main St.	Sheridan	MT	59749	Au	45*27.482	112*11.816
GDC Crusher #1	Gilbert Developement Corporation	P.O. Box 665	Cedar City	UT	84720	Fe	37*40.603	113*03.761
General Barite Company Old Mine				MO		Barite		
Getchell	Firstmiss Gold Inc.	P.O. Box 220	Golconda	NV	89414	Au	41.216389	-117.256389
Gilt Edge	Brohm Mining Corporation	P.O. Box 485	Deadwood	SD	57732	Au	44.331111	-103.672778
Glenbrook Nickel Smelter	Glenbrook Nickel Company	P.O. Box 85	Riddle	OR	97469	Ni	42.953056	-123.432222
Gold Links	Ivory Oils and Minerals Inc.	Box 11622, 480	Vancouver	BC	V6B4N	Au	46.983889	-121.435556
Gold Road		P.O. Box 869	Oatman	AZ	86433	Au	35.038611	-114.3675
Golden Dawn's Mine	Snowbird Resources Ltd.	P.O. Box 61824	Boulder City	NV	89006	Au	35.451944	-114.933333
Golden Eagle	American Eagle Resources, Inc.	Six Mile Canyon Rd.	Virginia City	NV	89440	Au	39*18.278	-119*33.415
Golden Horn	Misco-Walsh Mining Company	P.O. Box 93130	Anchorage	AK	99509	Au	62.463889	-157.916667
Golden Reward	The Golden Reward Mining Company Limited Partnersh	Box 888, Fantall Gultch Rd.	Lead	SD	57754	Au	44.334167	-103.803889

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
Golden Sunlight	Golden Sunlight Mines, Inc.	453 Montana Hwy. 2E	Whitehall	MT	59759	Au	45*52.236	112*05.830
Goldfield	American Resource Corporation	P.O. Box 160	Goldfield	NV	89013	Au	37.670833	-117.213333
Goldstrike	USMX of Utah Inc.	P.O. Box 2650	St. George	UT	84770	Au	37.379167	-113.896389
Gordonsville	Svasge Zinc., Inc.	P.O. Box 359	Gordonsville	TN	38563	Zn	36.191944	-85.956944
Grant Hill Mine #1 and #2				MT		Au	46.406389	-111.178889
Great Eastern	Great Eastern mines	9746 W. Ohio Dr.	Lakewood	CO	80226	Pb	39*40.78	-105*06.38
Greystone Mine	M-I Drilling Fluids Company	P.O. Box 370	Battle Mountain	NV	89820	Barite	40.297222	-116.806389
Grouse Creek	Hecla Mining Company	P.O. Box 57	Stanley	ID	83278	Au	44.436389	-114.738889
Hallman-Beam	FMC Corporation	P.O. Box 795	Bessemer City]	NC	28016	Li	35.34	-81.315278
Hamilton	Unimin Corp.	P.O. Box 58, 915 Pettit St.	Hamilton	WA	98255	Olivine	48*31.39	-121*58.38
Harry Howard Mine				MT		Au	48.238611	-115.556111
Hart Mine	Swift Creek Mining	3911 Tilleson Way	North Pole	AK	99705	Au	64*45.023	-147*14.539
Hasbrouck				NV		Ag	38.368056	-117.986111
Hayden Hill	Lassen Gold Mining, Inc.	P.O. Box 365	Adin	CA	96006	Ag	39.166944	-120.774167
Henderson	Cyprus Climax Metals Company	P.O. Box 68	Empire	CO	80438	Mo	39.769167	-105.841389
Henry	Dravo-Soda Springs	P.O. Box 975	Soda Springs	ID	83276	P	42*39.22	-111*35.97
Hibbing Taconite	Hibbing Taconite Company	P.O. Box 180	Eveleth	MN	55746	Fe	47.460833	-92.9575
Hidee Gold Mine	Hidee Gold Mining Company	P.O. Box 992	Idaho Springs	CO	80452	Au	39*44.63	105*30.31
High Hope				MT		Au	47.230833	-109.148056
Highland	Power Resources, Inc.	P.O. Box 1210	Glenrock	WY	82637	U	43.075922	-105.511111
Holiday/ El Mesquite	Cogema Mining Inc.	P.O. Box 228	Bruni	TX	78344	U	27*25.74	98*50.56
Homestake	Homestake Mining Company	630 E. Summit St.	Lead	SD	57754	Au	44*21.004	103*45.334
Hooker's Prairie	Cargill Fertilizer Corporation	P.O. Box 508	Bradley	FL	33835	P	27.781111	-81.938889
House Mine	Swift Creek Mining	3911 Tilleson Way	North Pole	AK	99705	Au	64.749999	-147.342748
Houston Mill	Millwhite Inc.	P.O. Box 690149	Houston	TX	77269	Barite	29.967777	-95.514884
Hudson Pit and Plant	Hudson Bros. Mining Company Inc.	P.O. box 301	Rusk	TX	75785	Fe	31.861111	-95.214444
IMC-Fertilizer Florida	IMC Fertilizer Group, Inc.	P.O. Box 508	Bradley	FL	33835	Ph	27.798887	-81.991361
Immel	Asarco Inc.	P.O. Box 460	Strawberry Plai	TN	37871	Zn	36.066944	-83.701944
Iron Chancellor Mine & Plant	Arizonia Oxides LLC	1741 E. Morten Ave.	Pheonix	AZ	85020	Fe	33.55611	-112.061158
Iron Mountain	Gilbert Developement Corporation	P.O. Box 665	Cedar City	UT	84720	Fe	37.684999	-113.074955
Iron Mountain	Gilbert Developement Corporation	P.O. Box 665	Cedar City	WY	84720	Fe	42.531111	-108.759444
Ironite Products Company Mine	Ironite Products Company	P.O. Box 218	Humbolt	AZ	86329	Fe	34.509444	-112.242269
Jefferson City	Savage Zinc, Inc.	P.O. Box 250	Jefferson City	TN	37760	Zn	36.1	-83.478889
Jensen	Jensen Mining	P.O Box 12	Delta Junction	AK	99737		64.050554	-145.828859
Jerritt Canyon	Independence Mining Company	HC 31, Box 78	Elko	NV	89801	Au	41.395556	-115.994167
Johnson Camp	Arimetco, Inc.	P.O. Box 384	Dragoon	AZ	85609	Cu	32.102778	-110.068056
Kearsarge Group	John Magnus	P.O. box 258	Sheridan	MT	59749	Au	45.216944	-111.929444
Kettle River	Echo Bay Mines Ltd.	921 fish Hatchery Rd.	Republic	WA	99166	Au	48.685833	-118.681158

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
Kinsley	Alta Gold Co.	HC 10, Box 10050, 778 S.	Ely	NY	89301	Au	40.125	-114.356667
Knolls Solar Ponds & Processing Plant		238 N. 2200 W.	Salt Lake City	UT	84116	Mg	41*28.50	-112*38.62
Leadville	Asarco Inc.	P.O. Box 936	Leadville	CO	80461	Pb	38.083056	-107.676944
Lewis	NYCO Minerals Inc.	P.O. Box 368	Willsboro	NY	12996	Wo	44.371665	-73.422415
LIL Pardner/Apex Claims	Phillips Mining Co.		Pahrump	NV		Au	37.923056	-114.436111
Livengood Bench	Alaska Placer Developement, Inc.	P.O. Box 81467	Fairbanks	AK	99708	Au	65.525	-148.55
Lone Tree	Santa Fe Pacific Gold Corporation	P.O. Box 388	Valmy	NV	89438	Au	40.836111	-117.211389
Lonesome	IMC-Arrico Company	P.O. Box 867	Bartow	FL	33830	P	27.741111	-82.123056
Lordsburg	Lordsburg Mining Company	P.O. Box A	Lordsburg	NM	88045	Au	32.360555	-108.717689
Lower Goldstream Creek	Polar Mining Inc.	4545 Woodriver Dr.	Fairbanks	AK	99709	Au	64.853887	-147.947192
LTV Steel Mining Co.	LTV Steel Mining Co.	P.O. Box 847	Hoyt lakes	MN	55750	Fe	47.6	-92.121667
Lucky Friday	Hecla Mining Company	P.O. box 31	Mullan	ID	83846	Ag	47.471111	-115.780278
Maggie Creek Mine	Newmont Gold Company	P.O. Box 669	Carlin	NV	89822	Au	40.78333	-116.515278
Magic Circle Mine	Magic Circle Mining, Inc.	P.O. Box 80674	Fairbanks	AK	99708	Au	65*55.42	-143*46.36
Marigold	Rayrock mines, Inc.	P.O. Box 9	Valmy	NV	89438	Au	40.007222	-105.295117
Marion Mill	Sweeney Mining and Milling Company	904 10th St	Boulder	CO	80302	Au	40*00.264	105*16.758
Maxville				FL		Ti	30.166667	-82.041667
Mayday Mine	Rudy and Nels Nygren	4700 Argenta Rd	Dillon	MT	59725	Au	45.320883	-112.874444
McCoy/Cove	Echo Bay Minerals Company	P.O. Box 1658	Battle Mountain	NV	89820	Au	40.310833	-117.217222
McLaughlin	Homestake Mining Company	26775 Morgan Valley Rd.	Lower Lake	CA	95457	Au	-38.856944	-122.414695
McClellan Mine	Kinkaid Exploration & Mining Company II (Kemcoll)		Tonopah	NV	89049	Au	38.555556	-118.4
Memphis Mine	Broken Handle Mining Corporation	2432 S. Yukon Way	Lakewood	CO	80227	Au	38.313333	-106.143889
Mercur	Barrick Resources (USA) Inc.	P.O. Box 838, Mercur Canyon Rd	Tooele	UT	84074	Au	40.315833	-112.209722
Mesquite	Santa Fe Pacific Gold Corporation	6502 E. Hwy. 78	Brawley	CA	92227	Au	33.0975	-114.963056
Miami	Magma Copper Company	P.O. Box 100	Miami	AZ	85539	Cu	33.406667	-110.863333
Midnight Creek Placer Mine		3550 Airport Way #203	Fairbanks	AK	99709	Au	64.321111	-155.526389
Mina Gold Mine and Mill				NV		Au	38.565278	-117.856944
Mine No. 1	Ozark-Mahoning Company	P.O. Box 2057, Bohn St.	Rosiclare	IL	62982	Zn	37.44	-88.368423
Minehead Plant	Loncala, Inc.	P.O. Box 766	High Springs	FL	32643	P	29.288611	-82.366667
Mineral Park	Cyprus Mineral Park Corporation	HC 37 Box 500	Kingman	AZ	86401	Cu	35.438889	-114.294167
Minntac	US Steel Mining Co.	P.O. Box 417	Mountain Iron	MN	55768	Fe	47.566667	-92.6375
Minorica Mine	Inland Steel Company	P.O. Box 1, 5950 Old Hwy., 53	Virginia	MN	55792	Fe	47.622221	-92.459497
Miscovich	Andrew W. Miscovich	box 1489	Fairbanks	AK	99707	Au	64*59.56	-147*34.84
Mission	Asarco Inc.	P.O. Box 111, Mission Complex	Sahuarita	AZ	85629	Cu	31.996944	-111.081736
Mohave Mine	Combined Metals Reduction Company	P.O. 1181	Kingman	AZ	86402	Au	35.380832	-114.526426
Money Creek				WA		Au	47.713889	-121.416667
Montana Tunnels	Montana Tunnels Mining, Inc.	P.O. Box 176	Jefferson City	MT	59638	Pb	46.372222	-112.133333

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
Morenci	Phelps Dodge Morenci, Inc.	U.S. Hwy 191	Morenci	AZ	85540	Cu	33.094722	-109.385047
Mougle Tunnel Enterprise	Eldora mines	General Delivery	Eldora	CO	80437	Ag	39.958333	-105.580806
Mountain Lion	Gilbert Development Corp.	P.O. Box 665	Cedar City	UT	84720	Fe	-37.686111	-113.08759
Mountain Top Mine				CO		Ag	37.976666	-107.803979
MRAK Placer Mine	MRAK Placer Mine	P.O. Box 1963	Palmer	AK	99687	Au	61.741667	-148.88
Mt. Hamilton	Rea Gold Corporation	P.O. Box 150476	East Ely	NV	89315	Au	39*14.01	-115*32.50
Mt. Lion Mine	Geneva Steel Corporation	12370 S. West Mountain Rd	Genola	UT	84655	Fe	39.98361	-111.791327
National Steel Pellet	National Steel Pellet Company	P.O. Box 217	Keewatin	MN	55753	Fe	47.413889	-93.0625
Nemo Iron Mine	Pete Lien & Sons, Inc.	P.O. Box 440	Rapid City	SD	55709	Fe	44.088054	-103.247494
Nevada Bar	Saga Exploration Company			NV		Fe	40.64361	-116.120829
New Market	Asarco Inc.	P.O. Box 460		TN	37871	Zn	36.077222	-83.565278
New Riverside Ochre	New Riverside Ochre Company, Inc.	P.O. Box 460, 75 Old River Rd.	Cartersville	GA	30120	Barite	34.163056	-84.759722
New Wales Phosphate Complex	IMC Fertilizer Group Inc	P.O. Box 467	Bartow	FL	33830	P	27.830556	-82.04775
Newmont Gold Mines	Newmont Gold Company	P.O. Box 669	Carlin	NV	89822	Au	40.968889	-115.36556
Niagara Falls Plant	Strategic Minerals Inc.	137 47th St.	Niagara Falls	NY	14302	V	43.087222	-79.035322
Nichols	Mobil Mining and Minerals Company	P.O. Box 311	Nichols	FL	33863	Ph	27.8875	-82.05
Nil				CO		V	38.220833	-108.730556
Nixon Fork	Nixon Fork Mining Inc.	8740 Hartzell Rd.	Anchorage	AK	99501	Au	63.222778	-154.763889
No. 4 & No. 3 Mill	Gouverneur Talc Company, Inc.	P.O. Box 89	Gouverneur	NY	13642	Wo	44*20.061	75*28.100
Nolan	Silverado Mines (US), Inc.	P.O. Box 83730	Fairbanks	AK	99708	Au	67.459167	-150.248611
Nome	Alaska Gold Company	P.O. Box 640, 221 E. Fifth Ave	Nome	AK	99762	Au	64.5	-165.416667
Noralyn-Phosphoria Mine	IMC Fertilizer Group, Inc.	P.O. Box 867,	Bartow	FL	33830	P	27.843056	-81.8625
Northland Gold Mine	Northland Gold Dredging Ltd.	941 E. Dowling #300	Anchorage	AK	99518	Au	61.005556	-159.941667
Northport Mill	Northport Mill JV		Spokane	WA		Ag	48.918889	-117.773611
Nothshore	Northshore Mining Company	10 Outer DR.	Silver Bay	MN	55614	Fe	47.6625	-91.941667
Nu-West	Nu-West Industries	3010 Conda Rd.	Soda Springs	ID	83276	P	42.656665	-111.619875
Old Soldier	Standard Magnesia Company	P.O. Box 10477	Reno	NV	89510	Barite	39.338889	-119.331944
Opportunity/Rattlesnake	Sierra Corporation	P.O. Box 2106	El Paso	TX	79951	Au	32.940278	-107.55
Oracle Ridge	Oracle Ridge Mining Partners	P.O. Box 70	San Manuel	AZ	85631	Cu	32.508333	-110.758528
Original Sixteen to One Mine	Original Sixteen to One Mine, Inc	P.O. Box 1621, 527 Miners St.	Alleghany	CA	95910	Au	39.465833	-120.842778
P & S Barite	Standard Industrial Minerals, Inc.	P.O. Box 10477	Reno	NV	89510	Barite	38.969722	-116.879722
Paga Mine	Paga Mining Company	P.O. Box 250, 25 Old River Rd.	Cartersville	GA	30120	Barite	34.133056	-84.776944
Palmer Creek Operation	Palmer Creek Operation	P.O. Box 73846	Fairbanks	AK	99707	Au	65.046667	-145.331944
PCS-Phosphate- Aurora	PCS Phosphate Company Inc.	P.O. Box 48	Aurora	NC	27806	P	35.301944	-76.817806
PCS Phosphate- White Springs	PCS Phosphate- White Springs	P.O. Box 300	White Springs	FL	32096	P	30.354721	-82.847661
Pea Ridge	Pea Ridge Iron Ore Company, Inc.	HC 65, Box 110	Sullivan	MO	63080	Fe	38.126667	-91.046389
Peden #1				CA		Au	37*52.20	-119*41.67
Pichacho	Chemgold, Inc.	P.O. Box 758, 3481 Pichacho Rd	Winterhaven	CA	92283	Au	32*59.986	-114*37.74

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
Pierrepont	Zinc Corporation of America	P.O. Box 226	Hailesboro	NY	13645	Pb	44.542222	-75.0125
Pinson	Pinson Mining Company	P.O. Box 129	Winnemucca	NV	89446	Au	41.129167	-117.291667
Pinto Valley	Magma Copper Company	P.O. Box 100	Miami	AZ	85539	Cu	33.412222	-110.963889
Plumas	Plumas Gold USA Inc.	Box 87,	La Porte	CA	95981	Au	27*41.85	-97*21.86
Port Sutton Plant	IMC Fertilizer Group, Inc.	P.O. Box 867	Bartow	FL	33830	P	27.902222	-82.413333
Prospect Creek Operation	Midnigh Sun Mining			AK		Au	64.630833	-165.448611
Queta Mine	Molycorp, Inc.	P.O. Box 469	Questa	NM	87556	Mo	36.697222	-105.491944
Rainbow Mine	Donald E. Mullikin	P.O. Box 790	Homer	AK	99603	Au	59.648887	-151.623189
Ray	Asarco Inc.	P.O. Box 8	Hayden	AZ	85235	Ag	33.006387	-110.797269
Red Arrow Mine	Red Arrow Gold Corp.			CO		Au	37.374444	-108.177222
Red Dog	Comico Alaska Inc.	P.O. Box 1230	Kotzebue	AK	99752	Zn	68.070833	-162.822222
Red Ink Maid Mine				CA			39.017778	-120.762778
Red Tail Mill	DCRS (US) Ltd.	P.O. Box 20818	Wickenburg	AZ	85358	Ag	33.969166	-112.746713
Reynolds Metals	Strategic Minerals Inc	4285 Malvern Rd.	Hot Springs	AR	71901	V	34.566667	-92.486111
Richardson Mine	Tri-Valley Corporation	230 S. Montclair #101	Bakersfield	CA	93309	Au	35*21.410	-119*03.273
Ridgeway	Kennecott Ridgeway Mining Company	Rt. 2, Box 106	Ridgeway	SC	29130	Au	34.270833	-80.891667
Robbers Roost	Oro Limited	1539 N. Chinalake Blvd.	Ridgecrest	CA	93555	Au	35*39.050	-117*40.159
Rochester Group Mine	Coeur-Precious Metals Company	P.O. Box 1057	Lovelock	NV	89419	Ag	40.1875	-118.484932
Rockland	U.S. Agnemics Corp.	3225 State Rd. 630 W.	Fort Meade	FL	33841	P	27.752499	-81.808861
Rocky Mountain Refractories Mine	Rocky Mountain Refractories	P.O. Box 27514	Salt Lake City	UT	84127	Barite	40.726387	-111.955631
Rosiclare		RR 1, Box 47	Rosiclare	IL	62982	Mn	37.431389	-88.343056
Rosita	Uranium Resources, Inc.	P.O. Box 186, 5656 S. Staples	Corpus Cristi	TX	78411	U	27.708611	-97.380755
Round Mountain	Round Mountain Gold Corporation	P.O. Box 480	Round Mountain	NV	89045	Au	38.711389	-117.081944
Rowley Magnesium Facility	Magnesium Corporation of America	238 N. 2200 W.	Salt Lake City	UT	84116	Mg	40.806943	-111.928686
Ruble Mine	Freedom Mining and Exploration	1985 Becker Ridge	Fairbanks	AK	99709	Au	64.78111	-148.139692
Ruby	Brush Creek Mining and Development Company, Inc.	970 E. Main St. #200	Grass Valley	CA	95945	Au	39.236944	-121.072751
Ruby District	Malvy Technology, Inc	P.O. Box 81978	Fairbanks	AK	99708	Au	67.21667	-156.7
Ruby Gulch Mine				AK			65.045278	-161.194444
San Juan	Siskon Gold Corporation	16908 Grizzley Hill Rd	Nevada City	CA	95959	Au	39.375277	-121.00217
San Luis	Battle Mountain Gold Company	P.O. Box 310	San Luis	CO	81152	Au	37.185833	-105.397201
San Manuel	Magma Copper Company	P.O. Box M	San Manuel	AZ	85631	Mo	32.696111	-110.689167
Sauerkraut Placer	Clay A. Lewis	P.O. Box 1917	Huson	MT	59846	Au	46.906944	-112.755278
Section 5 Mine	Manko Company	P.O. Box 369	Dunnellon	FL	34430	P	28.950555	-82.422719
Shaherald	Beaver Resources		Victorville	CA		Au	34.922222	-117.465833
Shamrock Group	Golden Centennial Mining	P.O. Box 123	Sierra City	CA	96125	Au	39.578611	-120.644722
Sherwin	Reynolds Metals Company	P.O. Box 9911	Corpus Christi	TX	78469	Al	27.878055	-97.348532
Shilling Mine	John A. Shilling	Box 81424	Fairbanks	AK	99708	Au	64.844721	-147.81497

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
Sidco Mining Inc.	Sidco Mining Inc.	P.O. Box 1217	Linden	TX	75563	Fe	33.0175	-94.386369
Sierrita	Cyprus-Sierrita Corporation	P.O. Box 527	Green Valley	AZ	85622	Mo	31.871389	-111.148056
Silver Bell		25000 W. Avra Valley Rd.	Marana	AZ	85653	Cu	32.393611	-111.500833
Silver Butte	Formosa Exploration Inc.	P.O. Box 108	Riddle	OR	97469	Cu	42.856111	-123.380556
Silver King Mine	Striker Gold, Inc.	P.O. box 1086	Wallace	ID	83873	Au	44.560833	-117.061667
Silver Peak	Cyrus Foot Mineral Company	P.O. Box 98, State Rt. 265	Silver Peak	NV	89047	Li	37.708333	-117.721944
Sleeper	Nevada Gold Mining, Inc.	600 Sod House Rd.	Winnemucca	NV	89445	Ag	41*25.4	-118*02.4
Smoky Canyon Mine	J.R. Simplot Company	P.O. Box 1270	Afton	WY	83110	P	42.690278	-111.130278
South Pasture	C.F. Industries, Inc.	P.O. Box 1549	Wauchula	FL	33873	P	27.636387	-81.847506
Southern Gold	Southern Gold Mining Company	General Delivery	Ruidoso	NM	88310	Au	34*07.70	-105*35.75
Sterling	Cathedral Gold Corporation	P.O. Box 187	Beatty	NV	89003	Au	41.2	-118.03
Stevens Mine	Jack Pine Mining Company	Box 66	Idaho Springs	CO	80452	Au	39.654167	-105.781667
Stillwater	Stillwater Mining Company	HC 54, Box 365	Nye	MT	59061	Au	45.38778	-109.879167
Sunday Hill	Falcon Ventures International Corporation			OR		Au	44.443056	-117.6025
Sundowner Mine		P.O. Box 216	Kelsey	CA	95643	Au	38.783889	-120.805833
Sunshine	Sunshine Precious Metals, Inc.	P.O. Box 1080	Kellogg	ID	83837	Ag	44.498333	-113.472778
Superior	Magma Copper Company	Box 37	Superior	AZ	85273	Cu	33.305278	-111.064444
Swan	James Swan	452 Winter Ave.	Fairbanks	AK	99712	Au	67.833333	-164.433333
Sweetwater	Asarco Inc.	Route 1, Box 202c	Bunker	MO	63629	Zn	37.359722	-91.148056
Swen Larsen	Olivine Corporation	928 Thomas Rd.	Bellingham	WA	98226	Olivine	48.799167	-122.069444
Swerdfeger Mining Co.	Swerdfeger Mining Co.	P.O. Box 2360	Grand Junction	CO	81502	V	37.801667	-108.841944
Tazewell	Reiss Viking Division	Rt. 6, Box 88	Tazewell	VA	24651	Fe	37*06.868	-81*31.127
Telegraph Mine				CA		Au	37.586389	-120.049444
The Nicks	Marlon H. Thompson	Box 1616	Winnemucca	NV	89446	Au	41.016387	-117.792496
Thompson Creek	Thompson Creek Mining Company	P.O. Box 62	Clayton	ID	83227	Mo	44.314167	-114.550278
Tilden	Cleveland-Cliffs Iron Company	P.O. Box 2000	Ishpeming	MI	49849	Fe	46.447222	-87.641667
Tobin Creek	Gold Dust Mines Inc.	P.O. Box 61520	Fairbanks	AK	99706	Au	67.536111	-148.303056
Tohono	Cyprus Tohono Corporation	P.O. Box 15009	Casa Grande	AZ	85230	Cu	32*23.61	-112*06.73
Topaz	Brush Wellman Inc.	P.O. Box 158	Delta	UT	84624	Be	39*21.176	-112*34.685
Trail Canyon Mine		1864 Hwy. 34 N.	Soda Springs	ID	83276	V	42.703889	-111.503889
Trenton Canyon	Santa Fe Pacific Gold Corporation	P.O. Box 388	Valmy	NV	89438	Au	40*37.96	-117*13.79
Tuscarora				NV		Au	41.312222	-116.2225
TVX Mineral Hill	TVX Gold Inc.	P.O. Box 92	Gardiner	MT	59030	Au	45.07111	-110.640968
Twin Creeks	Santa Fe Pacific Gold Corporation	P.O. Box 69	Golconda	NV	89414	Au	41.288889	-117.2875
Twin Sisters Quarry		P.O. Box 58, 915 Pettit St.	Hamilton	WA	98255	Olivine	48*31.39	-121*58.38
Tyrone	Phelps Dodge Tyrone, Inc.	P.O. box 571	Tyrone	NM	88065	Cu	32.636111	-108.3725
Unimin Plant 2	Unimin Corporation	Rt. 2, Box 167c, Hwy. 197 N	Green Mountain	NC	28740	Olivine	35*59.57	82*15.64
Viburnum	The Doe Run Company	P.O. Box 500	Viburnum	MO	65566	Pb	37*42.57	-91*06.54

Mine Name	Operator Name	Address	City	State	Zip Code	Primary Commodity	Latitude	Longitude
Virginia				CO		Au	39.975276	-105.548602
Wagner Claims	Outsider Mining Company	Box 909	Girdwood	AK	99587	Au	60*52.10	-149*41.00
Walker Fork Mine				AK		Au	64.067778	-141.140278
West End	Stibnite Mine Inc.	335 Deinhard	McCall	ID	83638	Au	44*53.906	-116*06.250
West Fork	Asarco Inc.	Route 1, Box 202c	Bunker	MO	63629	Pb	37.4925	-91.108889
Wharf	Wharf Resources Ltd.	HC 37, Box 811	Lead	SD	57754	Au	44.341667	-103.875
Whiskey Creek No. 1 2 3 White Bear	John Hamilton	P.O. Box 61	Downieville	CA	95936	Au	39.623611	-120.865
Willow Creek Mines				MT		Au	46.896944	-112.720278
Wooley Valley	Rhone-Poulenc Basic Chemicals Company	P.O. Box 160	Montpelier	ID	83254	P	42.871667	-111.317778
Yankee	Placer Dome U.S Inc.	P.O. Box 2706	Elko	NV	89802	Au	39.023611	-118.316111
Yates Construction Co. Inc. Mine	Yates Construction Co. Inc. Mine	617 Simmons Rd.	Knoxville	TN	37932	Barite	35*55.177	-84*08.016
Yellow Aster	Rand Mining Company	P.O. Box B, E. Butte Ave.	Randsburg	CA	93554	Ag	38.397778	-120.573889
Yellow Jacket	United States Antimony Corporation	P.O. Box 643	Thompson Falls	MT	59873	Au	47*36.06	-115*20.89
Yerington-MacArthur	Arimetco, Inc.	102 Burch Dr.	Yerington	NV	89447	Cu	38*59.298	119*12.410
Young Mine and Mill	Asarco Inc.	P.O. Box 460	Plains	TN	37871	Zn	36.076388	-83.628068
Zortman-Landusky	Zortman Mining Inc.	P.O. Box 313	Zortman	MT	59546	Au	48.917778	-108.614167