A New Experience for Land Withdrawal Impacts

2023 ESRI UC Lucia M. Patterson, Nevada Division of Minerals

Photo Credit: nasa.gov



Nevada Mining and Land Withdrawal History Experience



Minerals	Land	Disclaimer & Web Application Overview
		THE NEVADA DIVISION OF MINERALS MAKES NO WARRANTIES OR GUARANTEES, EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS, ACCURACY, OR
Disclaimer	Disclaimer	CORRECTNESS OF THE DATA PORTRAYED IN THIS PRODUCT NOR ACCEPTS ANY LIABILITY, ARISING FROM ANY INCORRECT, INCOMPLETE OR MISLEADING
Pre 1850 M	Pre 1850 L	INFORMATION CONTAINED THEREIN. ALL INFORMATION, DATA AND DATABASES ARE PROVIDED "AS IS" WITH NO WARRANTY, EXPRESSED OR IMPLIED,
1850s M	1850s L	INCLUDING BUT NOT LIMITED TO, FITNESS FOR A PARTICULAR PURPOSE. Users should also note that property boundaries included in any product do not represent an on-
1860s M	1860s L	the-ground survey suitable for legal, engineering, or surveying purposes. They represent only the approximate relative locations. By accessing this website and/or data contained
1870s M	1870s L	within the databases, you hereby release the Nevada Division of Minerals, its employees, agents, contractors, and suppliers from any and all responsibility and liability associated with its use. In no event shall the Nevada Division of Minerals or its officers or employees be liable for any damages arising in any way from the use of the application, or use of the
1880s M	1880s L	information contained in the databases herein.
1890s M	1890s L	
1900s M	1900s L	Historical narratives and data were obtained from several sources which can be found in the reference section at the bottom of this page. Direct links to the data sources were linked to the text of the source if available.
1910s M	19105 L	Edited by: Mike Visher, Jon Price, & Garrett Wake
1920s M	1920s L	
1930s M	1930s L	In the map panels that will open, land withdrawn from mineral entry over time are displayed. Many, THOUGH NOT ALL, areas have been investigated, and the year in which the area was withdrawn form mineral entry (effectively or completely) has been interpreted by the Nevada Division of Minerals staff. We are not landmen, this is an interpretation meant to show general trends regarding lands withdrawn from mineral entry. This
		continues to be a work in progress. If you have any additional information you would like to add to the maps please email Lucia Patterson impatterson@minerals.nv.gov Or submit information by CLICKING HERE
1940s M	1940s L	
1950s M	1950s L	
1960s M	1960s L	
1970s M	1970s L	
1980s M	1980s L	Nevada Mining and Land Withdrawal
1990s M	1990s L	
2000s M	2000s L	
20105 M	20105 L	
20205 M	2020s L	
20205 M ?	2020s L ?	

Click on a decade from the columns to the left to proceed! If using a laptop, drag two fingers down the right hand side of the mouse pad to scroll through the text.

Nevada Division of Minerals

Open Data Site

Featured Content! C.H.I.M.E. Claims Nevada County Claims The Nevada Mineral Historic Mineral Habitation Interactive... Production Experience!! Production in Nevada This map is a spatial View and filter annual representation of claims density production data for Nevada. min and fees paid through time, p... Explore Explore

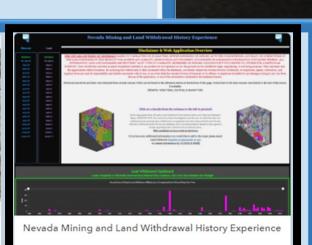
data-ndom.opendata.arcgis.com



Lands with, or Having the Potential for, Mineral Entry Conflicts

Analyze impacts from existing or proposed land withdrawals with respect mineral production, occurrence, and potential, along with BLM plans, notices, and mining claim data (density, distribution & annual...

Explore



Overview of Nevada's mining and land withdrawal history with interactive maps and dashboards.

Explore



Nevada Mining and Land Withdrawal History Experience



FAO, NOAA, USGS, Bureau of Land Management, EPA, NPS | Nevada State Lands | NDOM,... Powered by Esi

Minerals Land Land 1980s Q +The acreage of withdrawn land would double during this Disclaimer Disclaimer decade starting with a very large land withdrawal of wilderness Pre 1850 M Pre 1850 L ŵ 82 study areas and instant study areas in 1980. These areas were 1850s M 1850s L to be evaluated to determine their suitability for a wilderness 1860s L 1860s M designation. 1870s M 1870s L The BLM had promulgated the regulations with respect to 1880s L 1880s M disturbance and regulation on federal lands that went into effect in 1981. These regulations required a reclamation bond to 1890s M 1890s L be posted for mining plans but not for notices, though 1900s L 1900s M reclamation of any disturbance was still required for notices. If 19105 M 19105 L mining operations were under 5 acres, they could commence 1920s M 1920s L under a notice at this point. 1930s L 1930s M ACECs were established throughout the decade as MFPs and 1940s M 1940s L RMPs went into effect. Note, not all ACECs are completely 1950s M 1950s L withdrawn from mineral entry but their establishment may 1960s L 1960s M effectively withdraw them. 1970s L 1970s M Producing Geothermal Fields 1980s L 1980s M Active 1990s M 1990s L 2000s M 2000s L Lands Withdrawn From Mineral Entry (Completely or 20105 M 20105 L Effectively) 20205 M 2020s L 20205 M? 20208 L? CEC, BR, National Monument ACEC, Carson City District RMP - Closedups that the the the the the star and the ACEC, FWS ACEC, NCA Sum of Acres Withdrawn from Mineral Entry ACEC, NCA, Wilderness

YTD Sum - Select Year

Select a Range of Years

Authorized Pending

All Values in Acres Department of Defense Wilderness WSA National Monument 3,332,050 3,269,221 2,694,793 1,504,558 17,235,397 17,235,397 17,235,397 17,235,397 Areas of Critical Environmental Concern National Conservation Area National Parks Service National Recreation Area 771,754 261,796 1,311,153 1,066,115 17,235,397 17,235,397 17,235,397 17,235,397 Fish and Wildlife Service 0 0 600k 400k 200k 9,813 charlengen Wind 500 feet Wind Gant and Project Test Maring Plans Hoticas 17,235,397 None of these multiple uses withdraw federal lands from mineral entry. FLPMA allows the BLM to segregate lands from mineral entry by publication of a Federal Register notice of lands that are included in a pending wind or solar energy generation right-of-way (ROW) application, and public lands that the BLM identifies for potential future wind or solar energy generation. After approval of the application any new mining claims in the area covered by the ROW would be subject to the authorized ROW use.

Values shown in the gauges will exceed the total land withdrawal acreage reported here. Special land management designations commonly overlap and each gauge is querying all features that include the land designation shown as the gauge title.

References (Blue text indicates link to data sources)

Commodity Prices

Nevada Bureau of Mines and Geology SP 15 USGS Mineral Commodity Summaries USGS Historical Statistics for Mineral and Material Commodities in the United States (Commodity Values in Metric Tons) Gold-Silver-Copper Prices 1900-1998 Gold Prices 1833-1967 Silver Prices 1859-1900 Oil Prices U.S. Bureau of Labor Statistics CPI Inflation Calculator

Online Reference Documents

1926 Lake Denmark, New Jersey Explosion A Very Brief History of the U.S. Bureau of Reclamation United States Forest Service Avi Kwa Ame About the Fallon Training Range **BLM Wilderness Study Documents** History of the Hawthorne Army Depot History of the Toivabe National Forest History of the U.S. Fish and Wildlife Service Mining Districts of Nevada Nevada Mineral Industry Reports 1979-Present Nevada Bureau of Mines and Geology SP 15 Nevada Test Site Northern Nevada Land Conservation and Economic Development Act Railroad Land Grants The History of School Trust Lands in Nevada: The No Child Left Behind Act of 1864 The System of a River The History of Wilderness in Nevada and the United States Spring Mountains National Recreation Area State Select Lands Polygons Southern Nevada Public Land Management Act of 1998 SNPLMA USFS RNA's USGS Open File Report 2004-1244 (mine points, highways, railroads) Wendover Air Force Base Wilderness Act

Books/Other Publications Leshy, John D., 1987 "The Mining Law, a Study in Perpetual Motion" 521 p.

Parsons Behle & Latimer, 2018 "U.S. Mining Law, One Day Short Course Handbook" 229 p.

Ricketts, A.H., 1931, American mining law: California State Division of Mines Bulletin 98, 811 p.

🐳 Nevada Division of Minerals Open Data Site 💿 NDOM Home Page

Nevada Division of Minerals

Open Data Site

Mission: To encourage and assist in the responsible exploration for, and the production of, minerals, oil, gas, and geothermal energy which are economically beneficial to the state. This is the Nevada Division of Minerals' public platform for exploring and downloading our open data.

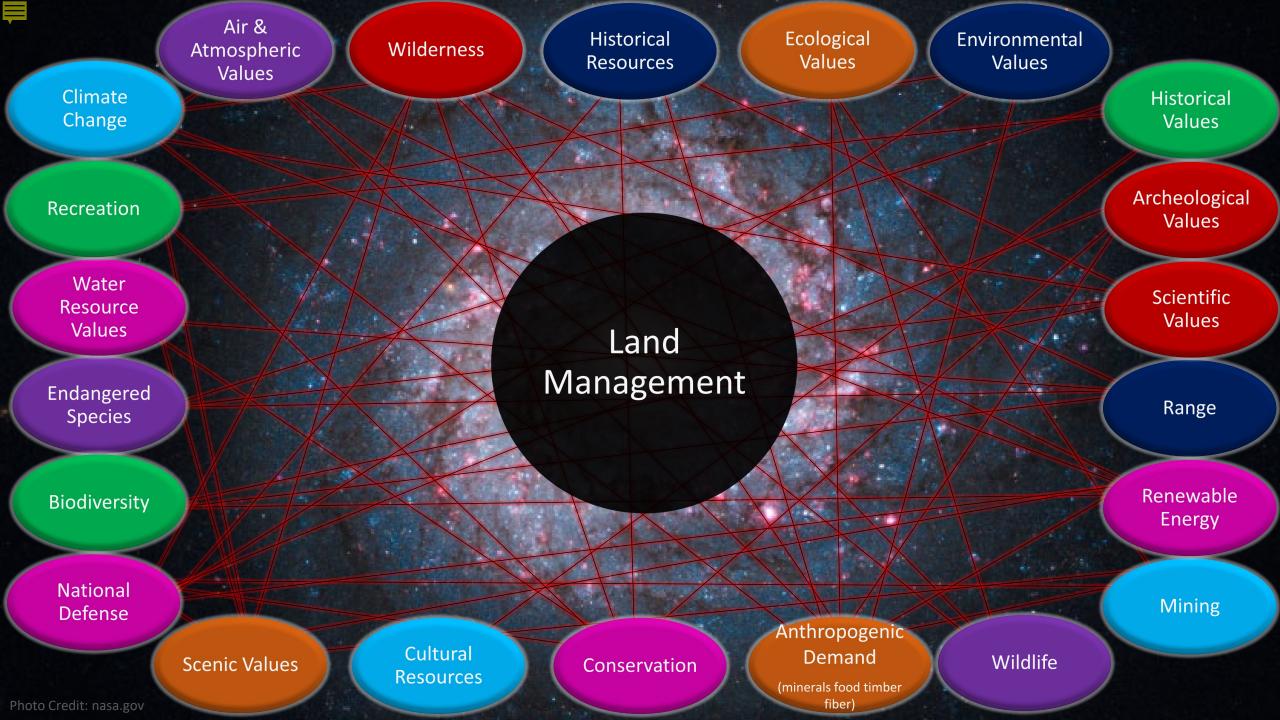
Disclaimer

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Featured Content!

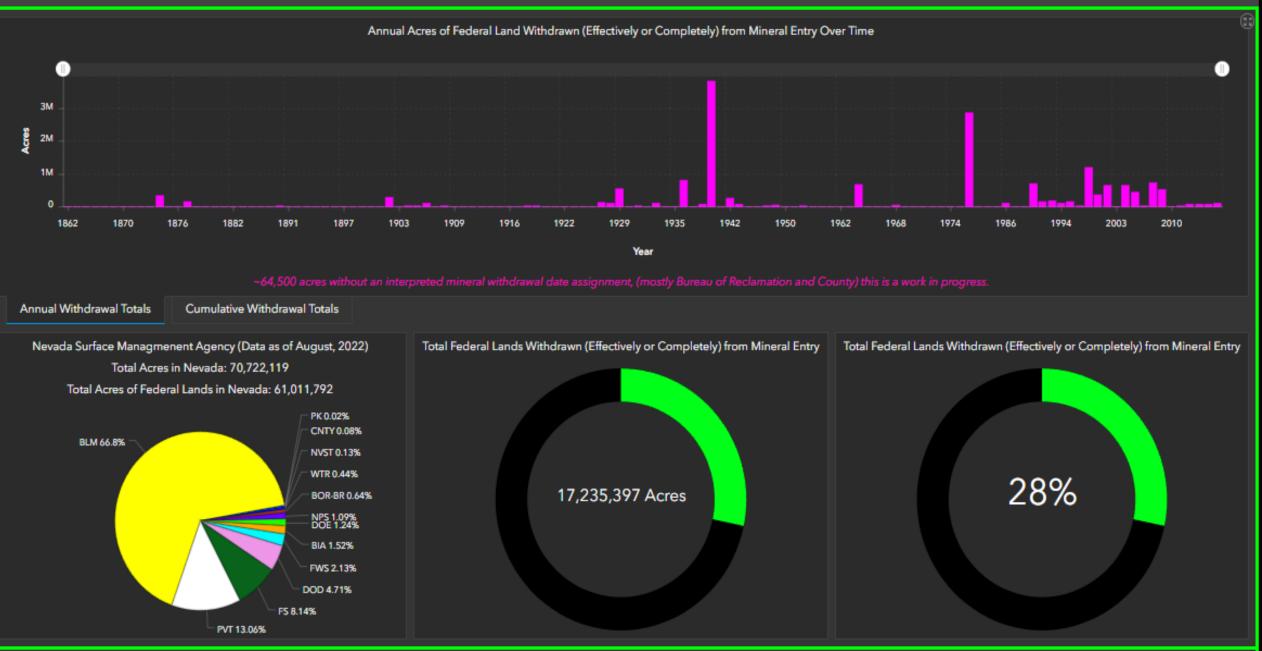






Land Withdrawal Dashboard

Lands Completely or Effectively Withdrawn from Mineral Entry Statistics, and a Few Extra Numbers for Thought



YTD Sum - Select Year

less than 2023

Select a Range of Years



the ROW would be subject to the authorized ROW use.





Minerals

Land

1850s L

1860s L

1870s L

1880s L

1890s L

1900s L

1910s L

1920s L

1930s L

1940s L

1950s L

1960s L 1970s L

1980s L

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2000s L

2010s L

2020s L

20205 L?

Nevada Mining and Land Withdrawal History Experience



Disclaimer Disclaimer Pre 1850 L Pre 1850 M 1850s M 1860s M 1870s M 1880s M 1890s M 1900s M 19105 M 1920s M 1930s M 1940s M 1960s M 1980s M 1990s M 2000s M 20105 M 20205 M 20205 M ?

Land Thoughts - 2020s

With so many hands in the pot and so many interests at stake (natural resource conservation, climate change, materials production, supply and demand, green energy, international environmental concerns) it is important to keep a watchful, holistic, and integrated eye on land issues that arise. It is equally important to monitor legislation, as pointed out in a report prepared for the Division of Minerals in 2010, "Once the initial legislation has been enacted, it paves the way for future legislative acts that solidify its foundation". By reading the historical land narrative it becomes abundantly apparent that once the legislation is in place land withdrawals can come quickly, and from many directions. However, concerns also need to be evaluated from many directions to make balanced land decisions for our future.

So what's up next?

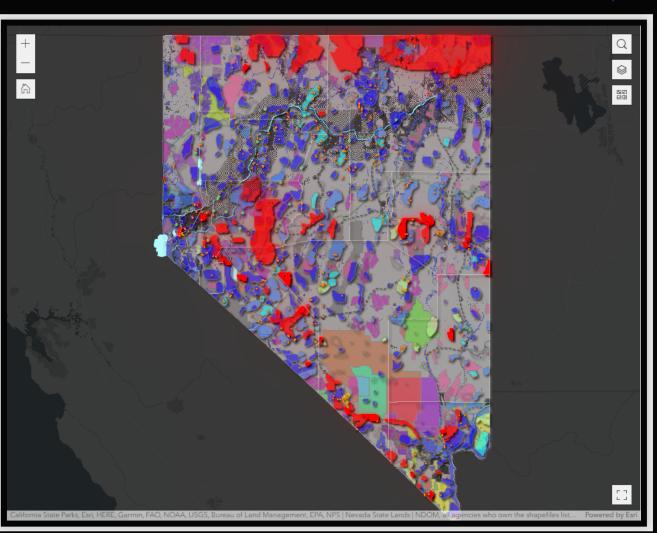
On April 3, 2023 a proposed rule was published to the Federal Register by the BLM titled "Conservation and Landscape Health". This proposed rule would make conservation a "use" within FLPMA's multiple use framework, would

SFA

ADPP USFSData

BLM NVCA ARMPA GRSG Sagebrush Focal Area 2015

FRTC Boundary - LandStatus





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General Information - PLEASE READ!

Claim data is presented on a per section basis. If a claim falls in more than one section it will have more than one listing. Therefore, counts and sums for areas selected/filtered will be more than the actual value.

There are several layers in this map, please visit the "Map Layers" tab and turn off any unnecessary layers to your analysis to simplify the view.

Filtering the Data

Click on the "Filter the data" tab above. Click on the data category you want to analyze then choose the filter type. You can either use "Selecting features from the data source", select the layer you want to filter on from the second drop down, and then use the select tool located in the map (square with an arrow) and pick the area you wish to analyze, or use the "drawn graphic" to draw your own area. Apply buffers as needed.

After filtering the data, you can export the results to a .csv file by clicking on the 4 circles in the upper right hand corner of the list. On the data tab in Excel, choose remove duplicates and use the "SerialNumber" field to remove duplicates. You can also export the data to a GeoJSON file and add to ArcGIS or QGIS

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Instructions for importing GeoJSON files

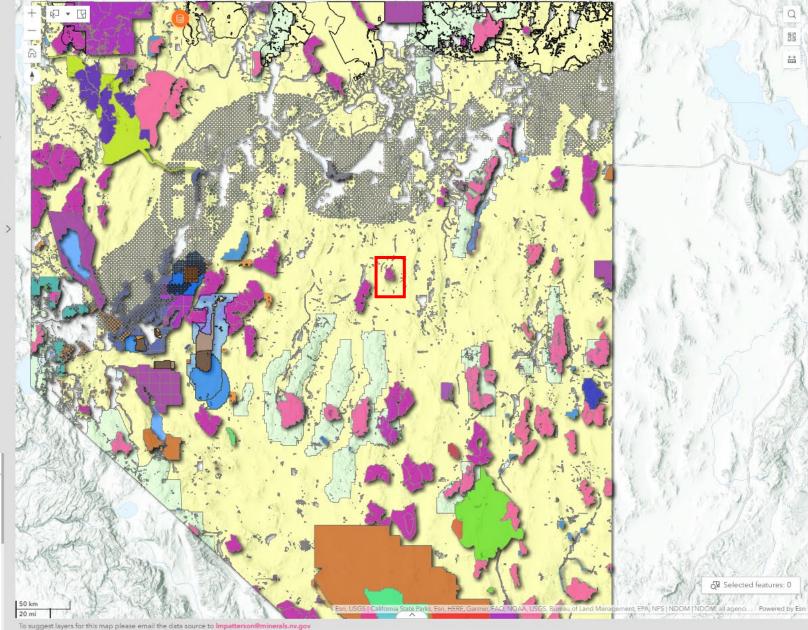
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BR, National Monument

Polygon ID: 3

Interpreted Withdrawal Year (effective or complete): 1902

Withdrawal Type(s): BR, National Monument (Scroll down to see the list of abbreviations) Acreage: 1,229.73 ACEC Name: National Monument or National Conservation Area Name: Ave Kwa Arne WSA Name: Wilderness Name: Carson City District RMP: Natural Recreation Area Name: USFS SIMA Name:



General Overview Demo Video Map Layers Legend Filter the Data Dataset Downloads	5+		3	/9/		19/	19/	19/	9	×2	9	×	25	5	2	28	27	26	25	×	×	F
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Nevada Exploration Pl	ans					>
Nevada Mining Plans						>
Historic mining district	ts - 2022 (NDOM	update)				>
Production of Minerals	in Nevada 1987	Present				>
Authorized Geotherma	al Lease Points					>
Authorized Oil and Ga	s Lease Points					>

You must filter the appropriate layer in order for these values to populate. The asterixis correspond to the layer you must filter from above.

*Sum of claim fees paid for selected CLAIM LISTINGS: \$ 0

**Average fees paid per section for SELECTED SECTIONS: \$ 0

**Sum of claim listings for SELECTED SECTIONS: 0

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WSA

Polygon ID: 483

Interpreted Withdrawal Year (effective or complete): 1980

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To suggest layers for this map please email the data source to Impatterson@minerals.nv.gov

USFS SIMA Name:

General Overview Demo Video Map Layers Legend Filter the Data Dataset Downloads		+	• 🛛	X	•/	R	9/	19/	9	19/		•	×	25	JA .	2	28	27	26	25	×	×	a
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General Overview Demo Video Map Layers Legend Filter the Data Da	taset Downloads	1/2/2		1
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suggest layers for this map please email the data source to Impatterson@minerals.nv.gov

General Overview Demo Video Map Layers Legend Filter the Data Dataset Downloads	+		R		K	19/	9	19/	19		•	×	25		2	28	27
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General Overview	Demo Video	Map Layers	Legend	Filter the Data	Dataset Download	ds
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Nevada Active, Pendir	ng, Submitted, and	l Filed Mining Cl	aims Listings	Points		
*Claims point listings	with annual assess	ment/maintenar	nce fee calcu	lations (March 202	2)	
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Nevada Exploration Pl	lans					1
Nevada Mining Plans						
Historic mining distric	ts - 2022 (NDOM (update)				ļ
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You must filter the appropriate layer in order for these values to populate. The asterixis correspond to the layer you must filter from above.

*Sum of claim fees paid for selected CLAIM LISTINGS: \$ 884,745

**Average fees paid per section for SELECTED SECTIONS: \$ 768.869

**Sum of claim listings for SELECTED SECTIONS: 3,275

< 471 of 2660 >

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WSA

Polygon ID: 483

Interpreted Withdrawal Year (effective or complete): 1980

Withdrawal Type(s): WSA (Scroll down to see the list of abbreviations) Acreage: 15,179.29 ACEC Name: National Monument or National Conservation Area Name: WSA Name: Roberts Mountain Wilderness Name: Carson City District RMP: Natural Recreation Area Name: USFS SIMA Name:

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Knowledge Itself is the True Core of a Land Management Star

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Recreation



Human Rights

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The C.H.I.M.E. Map (Claim Habitation Interactive Map Experience)

\Xi Legend –	>
Average Annual Assessment/Maintenance Claim Fees Paid Per Section (All MC in MLRS, 03/08/2022)	
Average Fees Paid Per Section	
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\$3,270 - \$3,492	
\$3,048 - \$3,269	
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Free Data Downloads for Claims, Notice, & Plan Data for the Entire (contiguous) Western US

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Claim Fees Per Section Sum

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Thank You!

Follow me on LinkedIn for updates on data and web applications.

Impatterson@minerals.nv.gov