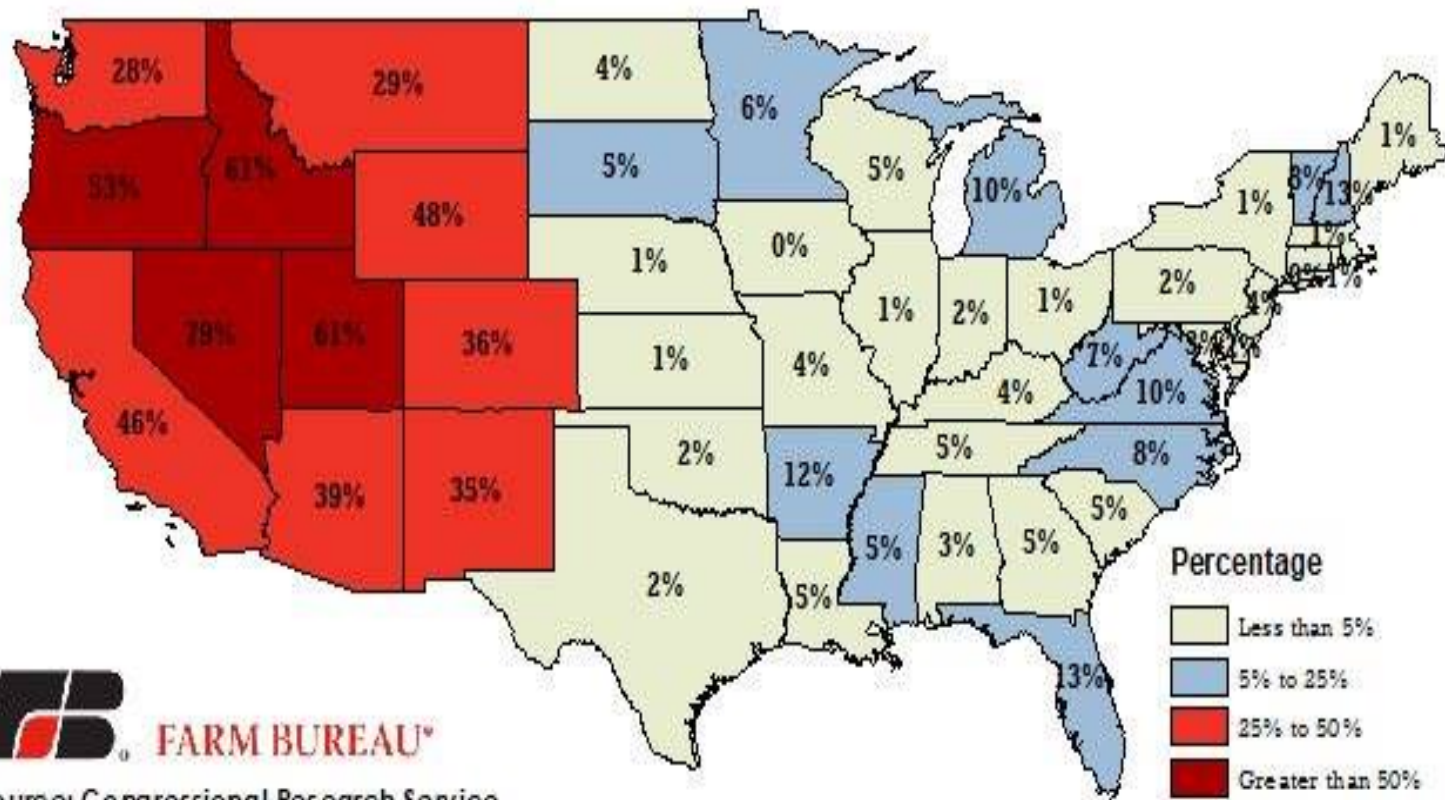


PUBLIC LANDS

Thomas R. Harris
University of Nevada, Reno
Department of Economics
University Center for Economic
Development

AGENDA ITEM IV - LANDS
Meeting Date: 07-26-18

Share of Land Area Administered by Federal Government

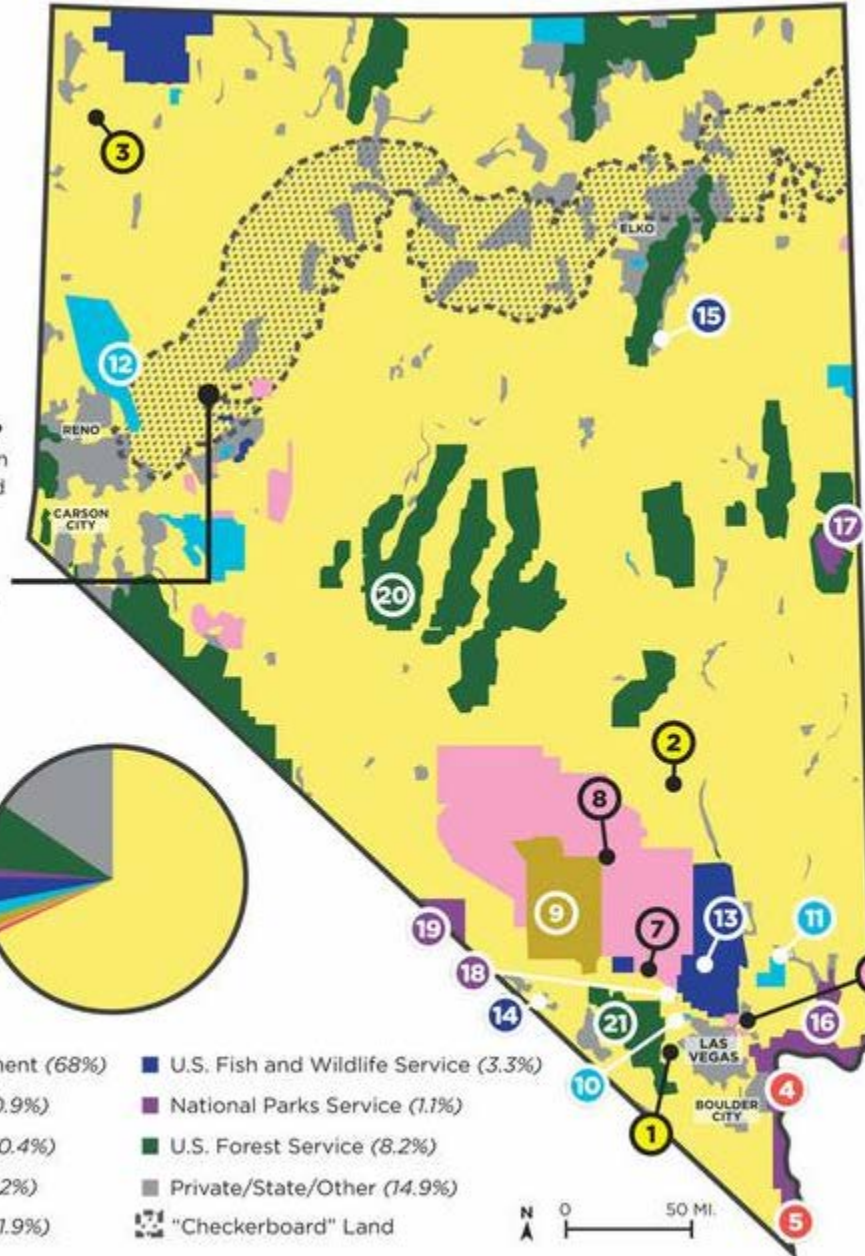


Source: Congressional Research Service

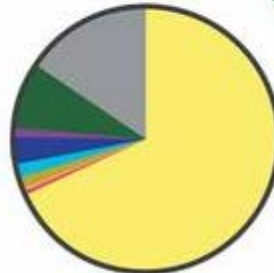
MAPPING THE STATE'S LAND OWNERS

WHAT IS THE CHECKERBOARD?

A swath of land covering 4.2 million acres in the Central Pacific Railroad corridor along Interstate 80 is referred to as the "checkerboard" because it intermixes privately owned and BLM-managed parcels.



HOW MUCH OF NEVADA DOES THE FEDERAL GOVERNMENT OWN?



KEY

- | | |
|---|---|
| ■ Bureau of Land Management (68%) | ■ U.S. Fish and Wildlife Service (3.3%) |
| ■ Bureau of Reclamation (0.9%) | ■ National Parks Service (1.1%) |
| ■ Department of Defense (0.4%) | ■ U.S. Forest Service (8.2%) |
| ■ Department of Energy (1.2%) | ■ Private/State/Other (14.9%) |
| ■ Bureau of Indian Affairs (1.9%) | "Checkerboard" Land |

PERCENTAGE OF FEDERAL, STATE and PRIVATE LAND IN SELECTED WESTERN STATES

STATE	FEDERAL LAND	STATE LAND	PRIVATE LAND
	(%)	(%)	(%)
Nevada	87.6	0.2	12.2
Arizona	42.3	14.5	43.2
Idaho	61.7	8.7	29.6
New Mexico	34.7	12.7	52.6
Utah	66.5	8.7	24.8

ACREAGE

- State of Nevada has 110,567 square miles.
- This makes Nevada the 7th largest state in the nation by acreage.
- With only 12.2% private land, this makes Nevada the 10th smallest state in acreage or 13,490 square miles.
- As for private land, the state of Maryland has 12,470 square miles and West Virginia has 24,230 square miles.



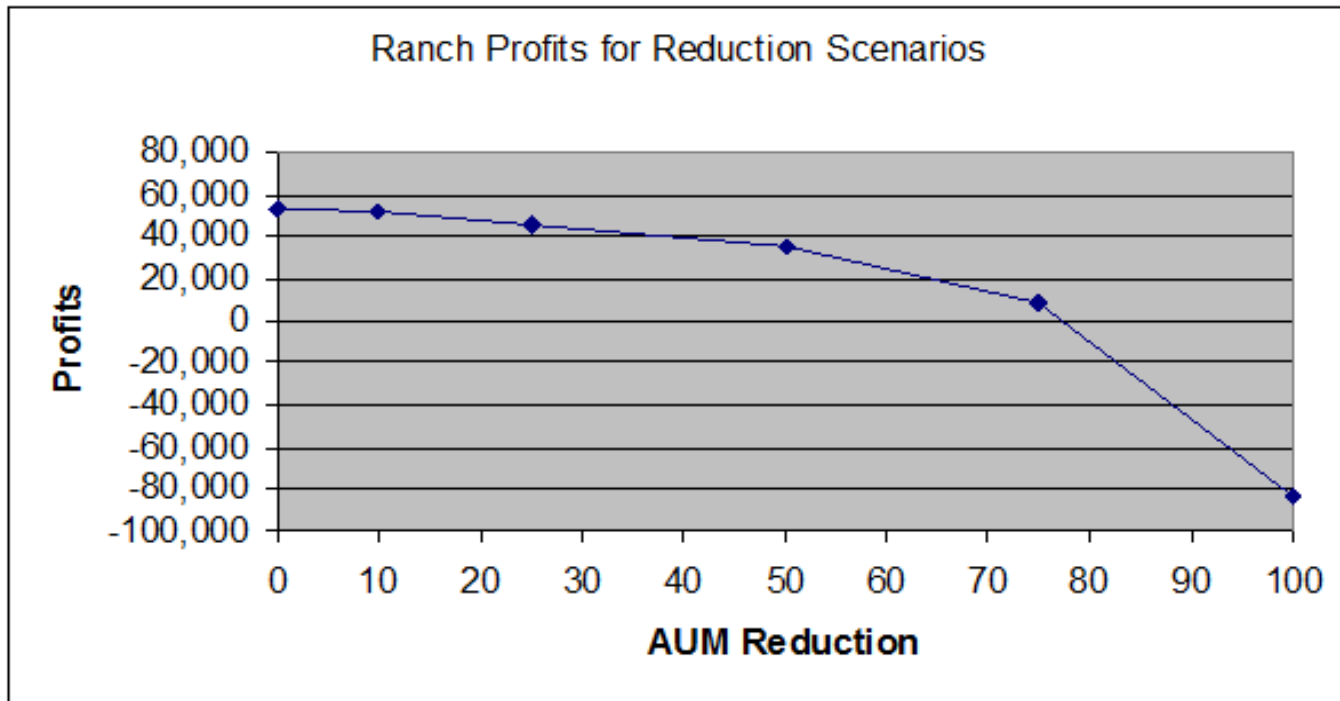
IMPACTS OF PUBLIC LANDS ON NEVADA COUNTY ECONOMIES

- Public Land Grazing – Example Elko County
- Mining Operations – Example Elko County
- Tourism – Study Underway in Lincoln County
- Land Based Revenues – Past Land Based Payment Study
- Operations by BLM



Elko County Grazing Study

Figure 10. Mean Ranch Profits at Different AUM Reduction Levels.



Elko County Grazing Study

Table 4. Permitted Animal Unit Months in Elko County, 2006

	Permitted AUMs
Elko and Wells District, BLM	719,680
Mountain City RD, USFS	73,101
Jarbidge RD, USFS	27,627
Ruby RD, USFS	25,937
Ruby Lake National Wildlife Refuge	713*
Total	847,058

Sources: Nevada Department of Agriculture 2003; Bureau of Land Management 2006; Prall 2006; Stefani 2006

*AUM availability varies by year from 433 to 1004. Approximately one-third of the possible grazing acreage is in White Pine County, Mackay 2006.

Elko County Grazing Study

Table 5. Economic Impact of Federal Livestock Grazing in Elko County.

Per AUM	Federal Grazing Only	Ranch Production Perspective
Value of Production	\$38	\$84
Total Impact	\$68	\$148
Labor Earnings	\$13	\$30
Employment	0.00065	0.0014
Avg. Earnings/Job	\$20,659	\$20,659
Total AUMs	847,058	847,058
Value of Production	\$32,552,054	\$71,288,998
Total Impact	\$57,267,859	\$125,416,611
Labor Earnings	\$11,434,320	\$25,041,162
Employment	553	1,212

COMPARISON

- In 2015 Elko County employment was 27,444.
- Job loss associated with BLM livestock was 553 to 1,212.
- From Dean Runyan Associates (2016), estimated 2015 Direct Travel Employment in Elko County was estimated to 5,440.
- From Dean Runyan Associates (2016) estimated travel related employment from 2008 to 2015 was estimated to be -2.3%.
- Given negative rate of growth in Elko County tourism employment, tourism would never replace jobs lost associated with lost BLM grazing in Elko County



COMPARISON

- However if one assumes that direct Elko County tourism employment grows at 0.05% annually.
- It would take between 20 to 45 years for travel industry to replace jobs associated with BLM grazing in Elko County.
- Thus loss of employment associated with decreased BLM grazing in Elko County may not be readily replaced by other economic activities.



Elko Metropolitan Area Mining Study

Table 2. Nevada County Employment, County Proportionate Share of Total Gold and Silver Ore Mining Sector Employment and Proportionate Share of Total County Employment, 2007.

County	Gold and Silver Mining Employment	% of Total State Gold and Silver Mining Employment	% Gold and Silver Mining Employment of Total County Employment
	(number)	(%)	(%)
Carson City	0	0.00%	0.00%
Churchill	0	0.00%	D
Clark	8	0.09%	0.00%
Douglas	0	0.00%	D
Elko	1,153	13.26%	5.44%
Esmeralda	D	D	D
Eureka	3,902	44.86%	77.68%
Humboldt	1,224	14.07%	16.21%
Lander	998	11.47%	37.63%
Lincoln	D	D	D
Lyon	D	D	D
Mineral	D	D	D
Nye	D	D	D
Pershing	277	3.18%	15.06%
Storey	D	D	D
Washoe	142	1.63%	0.07%
White Pine	D	D	D
Elko Metropolitan S.A.*	5,055	58.12%	19.27%
		0.00%	
Nevada Total	8,698	100.00%	0.68%

'D' stands for disclosure.

*Elko Metropolitan S.A. stands for Elko Metropolitan Statistical Area.

Source: Nevada Department of Employment, Training and Rehabilitation: Quarterly Census of Employment and Wages. Carson City, Nevada, 2008.

Elko Micropolitan Area Mining Study

Table 4. Economic, Employment, and Labor Income Impacts of the Hard Rock Mining Sector on the Elko Micropolitan S.A. Economy, 2007.

Category of Impacts	Direct Effects	Indirect and Induced Effects	Total Effects
Economic	\$2,256,433,133	\$681,372,997	\$2,937,806,131
Employment	5,905	5,106	11,011
Labor Income	\$537,516,769	\$197,629,036	\$735,145,806

Source: Minnesota IMPLAN Group, Inc. "IMPLAN Pro Data for Elko County and Eureka County, 2004."

Minnesota IMPLAN Group, Inc.: Stillwater, Minnesota, 2006; Nevada Department of Employment, Training and Rehabilitation: Carson City, Nevada, 2007.

Elko Micropolitan Area Mining Study

Table 5. Occupational Impacts of the Hard Rock Mining Sector on the Elko Micropolitan S.A. Economy, 2007.

Level 1 Occupations	Direct Impact of Hard Rock Mining	Indirect and Induced Impact of Hard Rock Mining	Total Impact of Hard Rock Mining
Management occupations	238	208	446
Business and financial operations occupations	116	100	217
Computer and mathematical science occupations	42	36	78
Architecture and engineering occupations	286	246	532
Life, physical, and social science occupations	156	134	289
Community and social services occupations	0	0	0
Legal occupations	1	1	2
Education, training, and library occupations	0	0	0
Arts, design, entertainment, sports, & media occupations	0	0	0
Healthcare practitioners and technical occupations	27	23	50
Healthcare support occupations	0	0	0
Protective service occupations	22	19	42
Food preparation and serving related occupations	2	2	4
Building & grounds cleaning & maintenance occupations	16	14	30
Personal care and service occupations	1	0	1
Sales and related occupations	15	14	29
Office and administrative support occupations	287	252	539
Farming, fishing, and forestry occupations	0	0	0
Construction and extraction occupations	1,928	1,683	3,611
Installation, maintenance, and repair occupations	1,038	889	1,927
Production occupations	994	850	1,844
Transportation and material moving occupations	735	635	1,368
Grand Total	5,905	5,106	11,011

Source: Minnesota IMPLAN Group, Inc. "IMPLAN Pro Data for Elko County and Eureka County, 2004." Minnesota IMPLAN Group, Inc.: Stillwater, Minnesota, 2006; Minnesota IMPLAN Group, Inc. "IMPLAN Pro Occupational Matrices." Minnesota IMPLAN Group, Inc.: Stillwater, Minnesota, 2006. Nevada Department of Employment, Training and Rehabilitation: Carson City, Nevada.

Tourism on Public Lands

- Potential mountain biking trails in Lincoln County
- Study underway In Caliente
- Find the expenditures and the impacts
- Location of expenditures
- Different recreation will have different impacts



Example Land Based Impacts of Public Lands

- Mineral Leases
- Taylor Grazing Act
- Department of Agriculture Appropriations Act
- Refuge Revenue Sharing Department of Defense
- Payment in Lieu of Taxes (PILT)



PILT PAYMENTS BY STATE, PILT ENTITLED ACREAGE, and PILT PAYMENTS PER ENTITLED ACREAGE

STATE	Federal Acreage 2018	FY 2018 PILT PAYMENTS	FY 2018 PILT PAYMENT PER ENTITLED ACRE
	(acres)	(\$)	(\$)
ARIZONA	28,137,118	39,929,266	\$1.42
CALIFORNIA	43,631,814	60,451,685	\$1.39
COLORADO	23,694,006	40,144,626	\$1.69
IDAHO	32,627,806	36,091,206	\$1.11
MONTANA	27,403,323	40,073,049	\$1.46
NEVADA	56,717,607	26,987,166	\$0.48
NEW MEXICO	22,366,050	42,630,492	\$1.91
OREGON	31,343,522	36,915,386	\$1.18
UTAH	32,929,061	40,715,865	\$1.24
WASHINGTON	11,979,018	29,037,327	\$2.42
WYOMING	29,835,939	31,717,661	\$1.06

COUNTY POPULATION, PILT QUALIFIED ACREAGE, PILT PAYMENTS, and PILT PAYMENTS PER QUALIFIED ACRE

COUNTY	POPULATION 2018 ESTIMATE*	POPULATION RANK	PILT QUALIFIED ACRES	RANK IN PILT QUALIFIED ACREAGE	FY 2018 PILT PAYMENTS	RANK IN COUNTY PILT PAYMENTS	PILT PAYMENTS PER PILT ENTITLED ACRE	RANK IN COUNTY PILT PAYMENTS PER ENTITLED ACRE
Carson City	55,885	3	42,895	16	\$115,857	16	\$2.70	3
Churchill	25,844	8	2,158,245	11	\$2,298,812	6	\$1.07	6
Clark	2,229,396	1	4,818,819	6	\$3,634,555	1	\$0.75	7
Douglas	48,447	6	255,828	15	\$694,254	13	\$2.71	1
Elko	53,734	5	7,905,061	2	\$3,533,219	3	\$0.45	8
Esmeralda	972	17	2,253,223	10	\$144,021	15	\$0.06	17
Eureka	1,954	16	2,156,826	12	\$349,478	14	\$0.16	16
Humboldt	17,065	9	4,978,712	5	\$1,802,609	7	\$0.36	12
Lander	6,230	12	3,333,712	7	\$1,024,407	10	\$0.31	13
Lincoln	5,128	13	6,409,987	3	\$911,526	11	\$0.14	16
Lyon	54,893	4	859,206	14	\$2,313,628	5	\$2.69	4
Mineral	4,652	14	1,936,566	13	\$781,024	12	\$0.40	9
Nye	46,472	7	8,548,402	1	\$3,326,751	4	\$0.39	10
Pershing	6,701	11	2,918,844	9	\$1,112,319	9	\$0.38	11
Storey	4,118	15	14,474	17	\$39,172	17	\$2.71	2
Washoe	457,112	2	2,934,465	8	\$3,629,747	2	\$1.24	5
White Pine	10,716	10	5,192,431	4	\$1,275,787	8	\$0.25	14
STATE	3,029,319		56,717,696		\$26,987,166		\$0.48	

*Source: Nevada Department of Taxation. (2018). "Population Projections for Nevada and Its Counties 2018 to 2022 Based on 2017 Estimates".

Office of the State Demographer for Nevada, Carson City, Nevada.

BLM OPERATION IMPACTS

- BLM is the largest public land manager in the state of Nevada.
- BLM in 2012 managed approximately 47.8 million acres or 67.5% of Nevada's land acreage (Nevada Land Management Task Force, 2014).
- Fiscal Year 2013 BLM's direct Employment was 4,691 with economic output of \$542.0 million (BLM, 2015).
- The overall impact to the Nevada economy was a total employment impact of 7,664 jobs and \$1.0 billion in economic activity (BLM, 2015).



ECONOMIC DEVELOPMENT ISSUES

- Federal Land Operations and Employment
- Urban and Rural Interface
- PILT Payments
- Lands Not Contiguous
- Matching Problems
- Not Only Public Lands but Surface Water Reallocations Have Impact
- Buddy Borden and UCED working with NACO for Data Development.



THANK YOU

- Tom Harris
- PHONE 775-784-1681
- Email: harris@unr.edu

