BLM and USFS livestock grazing stats:

Examining key data in the debate over wild horses on western public lands







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"Too many wild horses overgrazing and damaging western public rangelands"... "pushing cattle off the land"... "needing to be removed"...

Most media coverage of wild horses shares this storyline, citing rising population estimates from the Bureau of Land Management (BLM), which, together with the US Forest Service (USFS), oversees 251 million acres of public lands for grazing (mostly cattle) and other "multiple uses."

But 2014 BLM and USFS livestock grazing receipts (\$17.1 million) tell a different story: the equivalent of 2.1 million cattle outnumbering 56,656 federally protected wild horses and burros (WHB) by 37:1. These privately owned livestock are allocated 97 percent of western forage on all 251 million acres. This is compared to 3 percent allocated to 56,656 wild horses and burros occupying just 29.4 million acres.

Studies also show cattle, not horses, as the focus of considerable research on domestic overgrazing and a major cause of global climate change.

This analysis will present select 2014 grazing data from the BLM and USFS web sites, published reports and correspondence. Also included is a small sample of recent studies on livestock grazing's impact on public lands missing from the present debate.

It's critical to understand how many cattle vs. WHB exist on public lands; how many millions of acres they each graze; how much forage they're each allotted. It's equally important to acknowledge the abundance of research on cattle's impact on biodiversity and wildlife and the corresponding scarcity of research regarding wild horses. This information is foundational to an understanding of the issue.

But it's a *starting point,* not just for correcting false coverage, but for establishing common facts from which to go forward and address larger, interconnected and pressing public policy issues — not simply debate various narratives and opinions.

BLM and USFS Data

What 2014 grazing receipts and population estimates show about livestock usage vs. wild horses



BLM Livestock Grazing Program http://www.blm.gov/wo/st/en/prog/grazing.htm



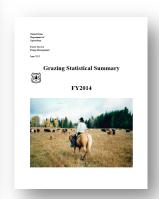
BLM Wild Horses and Burros Program: Quick Facts http://www.blm.gov/wo/st/en/prog/whbprogram/ history_and_facts/quick_facts.html



E-mail from senior BLM WHB specialist Zach Reichold https://www.scribd.com/fullscreen/233249122?access_key=key-jl1GqlE8TuzUXE659mtC&allow_share=true&escape=false&view_mode=scroll



USFS Rangelands Overview http://www.fs.fed.us/rangelands/whoweare/



USFS Grazing Statistical
Summary FY2014
www.fs.fed.us/rangelands/ftp/docs
GrazingStatisticalSummaryFY2014.pdf



FY2016 Budget Overview http://www.fs.fed.us/sites/ default/files/media/2015/07/ fy2016-budget-overviewupdate.pdf

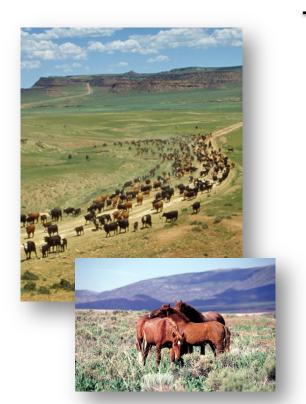
U.S. Forest Service Wild Horse Burro Territory Status 2014							
N/A	ACTIVE	HORSE	13,763	13,128	635		
DEVIL'S GARDEN						٦	
PLATEAU	ACTIVE	HORSE	232,521	224,889	7,632		
N/A	ACTIVE	BURRO	28,930	28,930	0		
MURDERERS CREEK	ACTIVE	HORSE	143,206	73,545	69,661		
						I	
N/A	ACTIVE	HORSE	27,309	27,069	240		
			6,117,996	2,530,851	3,590,145		

USFS Wild Horse Burro Territory Status 2014 (provided by Tom Frolli of the USFS) tfrolli@fs.fed.us





In 2014, cattle outnumbered wild horses by 37:1 on BLM and USFS western Public Rangelands



Photography: BLM

	BLM territory:	USFS territory:	Combined BLM & USFS:
<u>Cattle</u> :	1.5 million	617,284	2.1 million
Wild horses and burros:	49,209	7,447	56,656
Ratio cattle vs. wild horses and burn	os: 30:1	83:1	37:1



An estimated 56,656 wild horses and burros grazed BLM and USFS rangelands in 2014

On-range Population Estimate as of March 1, 2015

As required under the Wild Free-Roaming Horses and Burros Act of 1971, the BLM conducts an annual population inventory to estimate the number of wild horses and burros roaming BLM-managed lands in the West. (Click here to I March 1, 2015) is 58,150, an 18 estimates the wild hoover the 2014 estimate of 49,209.

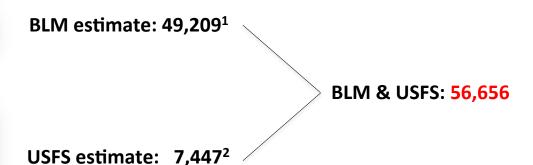
U.S.	. Forest Servi	ce Wild Hors	e Burro	Terri	tory Status 2	2014	
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					Alexan VAII I	DT @ 24	
N/A	ACTIVE	BURRO	28,9	AC	tive wh	BT @ 34	
				Ina	active W	HBT @ 1	9
MURDERERS CREEK	ACTIVE	HORSE	143,				
				Ho	rse tota	l @ 6539	
N/A	ACTIVE	HORSE	27,	D.,	rro total	കരാ	C p.
			6,11	bu	iio tota	60E m	
				JM	IAs @ 23	3	

Sources: 1 BLM web site

http://www.blm.gov/wo/st/en/prog/whbprogram/history and facts/quick facts.html

² US Forest Service Wild Horse Burro Territory Status 2014 (last updated 2/18/15)

http://www.wildhorsepreservation.org/media/us-forestservice-wild-horse-burro-territory-status-2014 (as shared on AWHP web site)



Understanding the data: The BLM and USFS report WHB estimates differently. The BLM does it on its web site (the 2015 WHB number, 58,150, was published in March). The USFS provides a spread sheet. The one (at left) was emailed by Tom Frolli of USFS to Suzanne Roy, Director of American Wild Horse Preservation, an advocacy group. But the estimates provided by each agency are comparable to each other.





An estimated 2.1 million cattle grazed BLM and USFS western public rangelands in 2014

Reported by BLM & USFS:

Average yearly animal unit equivalent:

Average yearly livestock equivalent:



Photography: BLM

Actual grazing receipts:

\$17.1 million Divide by \$1.35, then by 12 mos.

Authorized animal unit months:

15.0 million *Divide by 12 mos.*

Rancher-reported animal units:

1.05 million *Multiply by 2*

Rancher-reported cows + calves:

2.1 million

Authorized animal units:

1.3 million *Multiply by 2*

Authorized cows + calves:

2.6 million

Supporting data: cattle



An estimated 1.5 million cattle grazed BLM western public rangelands in 2014

Expenditures and Collections

In Fiscal Year 2014, the BLM was allocated \$79.9 mil management program. Of that figure, the agency spe percent) on livestock grazing administration. The oth activities as weed management, rangeland monitoring administration), planning, water development, vegeta

2014, the BLM collected \$12.1 million arazing fee below). The receipts from the

Federal Grazing Fee

The Federal grazing fee, which applies to Federal land U.S. Forest Service, is adjusted annually and is calcul Rangelands Improvement Act of 1978. Under this for iscured in 1006 the aversing for connet fall below to The grazing fee for 2015 is \$1.69 per A the 2014 fee of \$1.35.

Number of Livestock on BLM-managed Lands

The Bureau does not make an annual national "count" of the livestock that graze on BLM-managed lands because the actual number of livestock grazing on public lands on any single day varies throughout the year and livestock are often moved from one grazing allotment to another. So an aggregate head count would provide very little information on overall livestock use. Instead, the BLM compiles information on the number of AUMs used each year, which takes into account both th nas declined from 18.2 millio amount of time the definition of an AUM to 8.4 million AUMs in 2014 there has been a gruthe amount authorized becau grazing that takes place on BLM-managed land, and that trend continues today. Grazing use on public

Source:

1,2,3 http://www.blm.gov/wo/st/en/prog/grazing.htm

Average yearly Reported by BLM: animal unit equivalent:

Average yearly livestock equivalent:

Actual grazing receipts:

\$12.1 million¹ Divide by \$1.352, then by 12 mos.

Rancher-reported animal units: 747.000

Multiply by 2

Rancher-reported cows + calves:

1.5 million

Authorized animal unit months:

> 8.4 million³ Divide by 12 mos.

Authorized animal units: 700,000

Multiply by 2

Authorized cows + calves:

1.4 million

Understanding the data: The BLM's Rangeland Administration System (RAS) tracks public grazing allotments, permits and livestock use. But the BLM website doesn't publish yearly livestock totals (the way it publishes yearly WHB estimates). These can be calculated, however, from year-end grazing receipts (published the following quarter on the BLM web site).

Grazing receipts are based on the number of animal units (defined as a cow/calf pair or five sheep or one horse) ranchers report they grazed over the previous 12 months multiplied by \$1.35 (the 2014 grazing fee per AUM—animal unit month). The 1.5 million figure above is the annual cattle equivalent of 747,000 animal units (to get sheep equivalent, multiply AUs x 5). This figure should be considered a baseline, however, as it doesn't reflect trespass grazing, undercounting and nonpayment of grazing fees.

Authorized AUMs (animal unit months), by comparison, represent the amount of livestock grazing the BLM assigns to ranchers for the upcoming grazing year. It's what the BLM deems appropriate, given rangeland conditions. But it's not indicative of what ranchers actually do.



An estimated 617,284 cattle grazed USFS western public rangelands in 2014

Reported by USFS:

Average yearly animal unit equivalent:

Average yearly livestock equivalent:

Grazing Management
National Forest Fund (NFF) Receipts
4,820
Grasslands and Land Utilization Projects (LUP)
159
Mandatory Transfers from NFF & Grasslands & LUP's:
Range Betterment Fund (50 Percent Grazing)
Acquisition of Lands for National Forests, Special
Acts "-30
Ten-Percent Roads and Trails Fund "-700

Total Grazing Management Receipts
4,979

Actual grazing receipts:

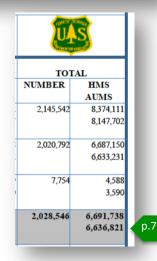
\$5.0 million¹
Divide by \$1.35, then by 12 mos.

Rancher-reported animal units:

308,642 *Multiply by 2*

Rancher-reported cows + calves:

617,284



Authorized animal unit Months:

6.6 million² Divide by 12 mos.

Authorized animal units:

550,000 *Multiply by 2* Authorized cows + calves:

1.1 million

Understanding the data: The FSUS, like the BLM, doesn't publicize livestock totals, but these can also be calculated from **year-end grazing receipts** reported in the FSUS FY2016 Budget Overview, and **authorized AUMS** reported in the FY2014 Grazing Statistical Summary.

Sources:

¹ Fiscal Year 2016 Budget Overview, US Forest Service http://www.fs.fed.us/sites/default/files/media/2015/07/fy2016-budget-overview-update.pdf

² Grazing Statistical Summary (FY2014), US Forest Service http://www.fs.fed.us/rangelands/ftp/docs/GrazingStatisticalSummaryFY2014.pdf



Cattle are allocated 97% of forage on BLM and USFS public land; wild horses are allocated just 3%

Grazing on Public Lands

The Bureau of Land Management, which admini manages livestock grazing on 155 million acres

United States Department of Agriculture, administe t half of this acreage, 96 million acres, is rangelands

Wild Horse and Burro Acreage

ing Horses and Burros Act, these animals were found roaming acr illion acres were under the BLM's jurisdiction. Today, the BLM ma ment Areas (HMAs), that comprise 31.6 million acres. (For an ext set to Myth #4 on the Myths and Facts page.) Under the 1971 Ac ey were not found roaming when the law was passed.

t Areas (HMAs)	179
	31.6 million acres
	26.9 million acres

U.S. Forest Service Wild Horse Burro Territory Status 2014

					_
_	ACTIVE	HORSE	13,763	13,128	6
	ACTIVE	HORSE	232,521	224,889	7,
				9 41,	ל פסט
	ACTIVE	BURRO	28,930	996 2,53	0,851
					-
	ACTIVE	HODGE	142 206	72 5/15	60

1) In the Herd Management Areas, what is the actual allocation (AUMs) for wild horses and for cattle/livestock?

Active livestock AUMs authorized in HMAs is 1.076,000

Forage allocated to wild horses and burros is 320,124 AUMs.

Cattle-only Cattle + Total cattle present: WHB present: + WHB present:

BLM acres: BLM acres: BLM acres: 128.1 million 26.9 million³ 155 million¹

<u>USFS acres:</u> <u>USFS acres:</u> <u>USFS acres:</u> 93.5 million 2.5 million⁴ 96 million²

BLM & BLM & BLM & BLM & USFS acres: USFS acres: 221.6 million (88%) 29.4 million (12%) 251 million

AUM Forage
Allocation:
100% cattle
0% WHB

AUM Forage
Allocation:
77% cattle⁵
23% WHB

AUM Forage
Allocation:
97% cattle
3% WHB

Sources:

p.1

- ¹ BLM web site for grazing: http://www.blm.gov/wo/st/en/prog/grazing.htm
- ² USFS web site for grazing: http://www.fs.fed.us/rangelands/whoweare/
- ^{3, 4} BLM website WHB "Quick Facts":

http://www.blm.gov/wo/st/en/prog/whbprogram/history and facts/quick facts.html

⁵ E-mail from senior BLM WHB specialist Zach Reichold

https://www.scribd.com/fullscreen/233249122?access_key=key-il1GalE8TuzUXE659mtC&allow_share=true&escape=false&view_mode=scroll

Studies on Livestock Grazing

The impact of commercial livestock production on western public range and forest preserve has been studied for decades. Google Scholar searches on the topic yield thousands of results.

Not so for wild horses, which, despite years of debate, have simply failed to motivate people to study them as the cause of the overgrazing reported by the media.

This tells you something very simple: when researchers and conservation groups study the problem of overgrazing, drought and climate change, they study *cattle* and propose *cattle-based* solutions. That's important to know.

Sample studies on livestock impacts

"Monthly grazing fees on federal lands are currently set at a paltry \$1.35 per cow and calf. Despite the extreme damage done, western federal rangelands account for less than 3 percent of all forage fed to livestock in the United States."

Costs and Consequences: The Real Price of Livestock Grazing on America's Public Lands

"The effects of livestock grazing on ecosystems are numerous, and effects on riparian systems in particular have been the subject of much study. Hydrology, plant and animal species composition, and soil characteristics can all be dramatically altered with the presence of cattle." Restoration of Riparian Areas Following the Removal of Cattle in the Northwestern Great Basin

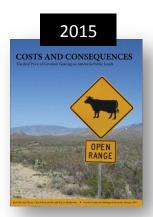
"...livestock grazing has been a major factor affecting fire frequency, fire severity, and ecosystem trajectories in the western US for over a century; and the removal or reduction of grazing impacts in these altered ecosystems is the most effective means of initiating ecological recovery." Reducing Livestock Effects on Public Lands in the Western United States as the Climate Changes

"Over 3 billion hectares of lands worldwide are grazed by livestock, with a majority suffering degradation in ecological condition. Losses in plant productivity, biodiversity of plant and animal communities, and carbon storage are occurring as a result of livestock grazing ... Worldwide, livestock production accounts for about 37 percent of global anthropogenic methane emissions and 65 percent of anthropogenic nitrous oxide emissions with as much as 18% of current global greenhouse gas emissions (CO2 equivalent) generated from the livestock industry." Holistic Management:

Misinformation on the Science of Grazed Ecosystems

"Livestock production is a chief contributor to many significant and intractable environmental problems. This article examines the causal role of livestock (especially beef) production in global climate change, predator control in the western United States, and winter elk feeding in Wyoming."

Trampling the Public Trust



¹ Center for Biological Diversity http://www.biologicaldiversity.org/ programs/public lands/grazing/pdfs/ CostsAndConsequences 01-2015.pdf



² Environmental Management http://www.cof.orst.edu/hart/ Batchelor2015 EM.pdf and http://www.cof.orst.edu/hart/ hartimages.html



³ Environmental Management http://tinyurl.com/q2k26mb



⁴ International Journal of Biodiversity http://dx.doi.org/ 10.1155/2014/163431



³ Boston College Environmental Affairs Law Review http:/lawdigitalcommons.bc.edu/ cgi/viewcontent.cgi? article=1052&context=ealr 13

Studies on wild horses



"Science alone, even the best science, cannot resolve the divergent viewpoints on how best to manage free-ranging horses and burros on public lands. Evidence-based science can, however, center debate about management options on the basis of confidence in the data, predictable outcomes of specific options, and understanding of both what is known and where uncertainty remains." The National Academy of Sciences, Using Science to Improve the BLM Wild Horse and Burro Program: A Way Forward

"Although feral horses have inhabited western North America since the end of the 16th century, relatively little synecological research has been conducted to quantitatively characterize how they interact with ecosystem components." Monte L. Bean Life Science Museum, Brigham Young University, Examining Consequences of Feral Horse Grazing Using Enclosures

"Although it is widely alleged that horses and burros have severe grazing impacts on western rangelands, there are few published studies about the nature and extent of these impacts...Little controlled research has been done on the impact of grazing horses...The legacy of past grazing impacts (domestic sheep or cattle particularly between 1890 and 1920) may confound differences currently observed. This is nearly impossible to assess quantitatively because historical records from grazing from that time can rarely be found today." ³ The National Research Council, Wild and Free-Roaming Horses and Burros: Current Knowledge and Recommended Research

¹ National Academy of Sciences http://www.biologicaldiversity.org/programs/public_lands/grazing/pdfs/CostsAndConsequences_01-2015.pdf

² Western North American Naturalist http://www.istor.org/stable/41717041?seg=1#page_scan_tab_contents

³ National Academy Press http://tinyurl.com/pgtsgu9

Key Findings

Understanding how private livestock graze BLM and USFS lands is a starting point from which to better report on public land uses and costs, the drought, climate change, conservation efforts and policy making.

- An estimated 2.1 million cattle outnumbered 56,656 WHB on 251 million acres of land according to 2014 BLM and USFS data. Cattle outnumbered WHB by 30:1 on 155 million acres of BLM land; 83:1 on 96 million acres of USFS land and 37:1 overall.
- Cattle are allocated 97 percent of the forage on those 251 million acres. WHB are allocated 3
 percent of it, sharing just 12 percent of those lands (29.4 million acres) with cattle.
- Those 251 million acres supply less than 3 percent of the forage used by the nation's livestock industry. The ranchers holding federal grazing permits constitute just 2.7 percent of the nation's livestock producers. It's a lot of land and expense to aid a miniscule slice of livestock production.

When researchers and conservation groups study overgrazing, rangeland health and climate change, they study the impact of cattle, not WHB.

- Mentions within their studies may include WHB (in a minor way), among other wildlife.
- Removing livestock/retiring grazing permits is a primary solution for addressing overgrazing and climate change.
- The three studies on WHB (1980, 2000, 2013) agree that more science-based data will improve the management of wild horses and burros on public lands, given arid conditions and competition with other ungulates.

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For questions on this presentation or additional stats and information on WHB and public lands ranching, contact:

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