Nevada's Land Health

Assessment/AIM Implementatior

Nevada Sagebrush Ecosystem Council May 13, 2014

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Need

 Respond to USF&WS 'warranted but precluded' decision for Greater Sage-grouse

 Respond to USF&WS proposed listing of Bi-State Sage-grouse

 Report on the condition of public lands (FLPMA requirement)



Purpose

- Interpret Indicators of Rangeland Health qualitative assessment for all programs
- Assess sage-grouse habitat conditions
- Identify renewable energy mitigation sites
- Roll up BLM NV's monitoring data to landscape scale
- Implementation of Assessment, Inventory, and Monitoring (AIM) Strategy



Rangeland Health Monitoring

- Existing Direction:
 - Interpreting Indicators of Rangeland Health
 - AIM Strategy
- These are consistent and complimentary
- One is qualitative assessment, other is quantitative monitoring
- When analyzed together, provide valuable information on condition of the land



The goal of the AIM Strategy is:

- Report on the status and trends of public rangelands at multiple scales of inquiry
- Report on the effectiveness of management actions
- Provide the information necessary to implement adaptive management
- Consistent methodologies and data



AIM is...

standard, quantitative indicators and measurements



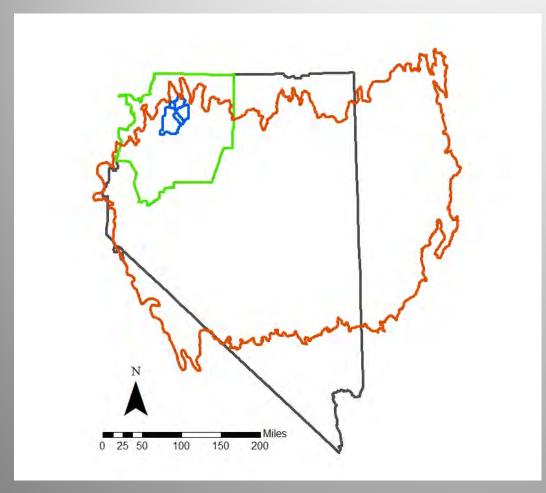
Plants of Mgmt. Concern Nonnative Invasive Sp.

Height

Canopy Gaps



AIM is...



Statistically valid, scalable sampling design

 Collect the data once, use it multiple times



Funding

- FY11 \$600,000
 - One time sage grouse funds
 - Renewable energy (L1430)
 - WHB (Jackson Mountains pilot project)
- FY12 ~\$650,000
 - Added Data Specialist position
 - End of year funds
- FY13 ~\$750,000
 - End of year funds
- FY14~\$850,000



Partnership

- Great Basin Institute was asked to provide field crews
 - Young, natural resource educated workforce
 - Crews gain natural resource management experience
- Meets Secretary of Interior's Youth Initiative
- Also have monitoring by others (NDOW) using consistent methodologies



Accomplishments

- 2011
 - 441 plots
 - 6 crews (1 per District)
- 2012
 - 389 plots
 - 5 crews (1 shared between Ely & S. NV)
- 2013
 - 414 plots
 - 7 crews (2 crews in Elko)



Accomplishments

2011-2013

	# AIM
District	Plots
Battle Mountain	167
Carson City	161
Elko	242
Ely	216
Southern Nevada	190
Winnemucca	268
Total	1,244 plots



Accomplishments 2013

District	AIM Plots	IIRH Plots	ESD Representative Acres
Battle Mountain	77	70	410,875
Carson City	52	50	291,217
Elko – Tuscarora	55	55	141,053
Elko – Wells	50	26	187,476
Ely	47	43	325,900
Southern Nevada	91	90	146,538
Winnemucca	42	30	240,924
Total	414	364	1,743,983

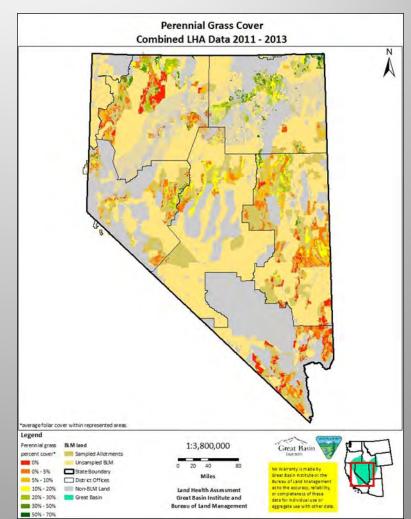


Non-BI M Land



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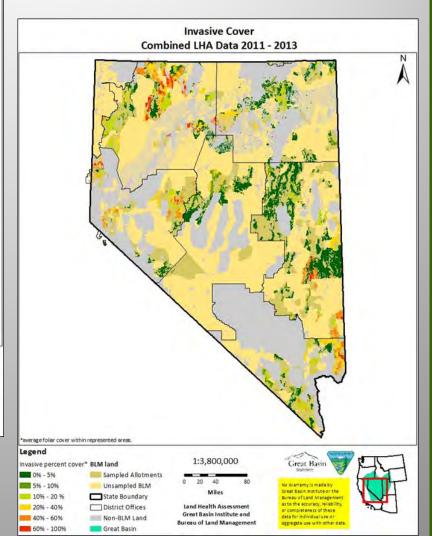
Assessment/AIM Implementation





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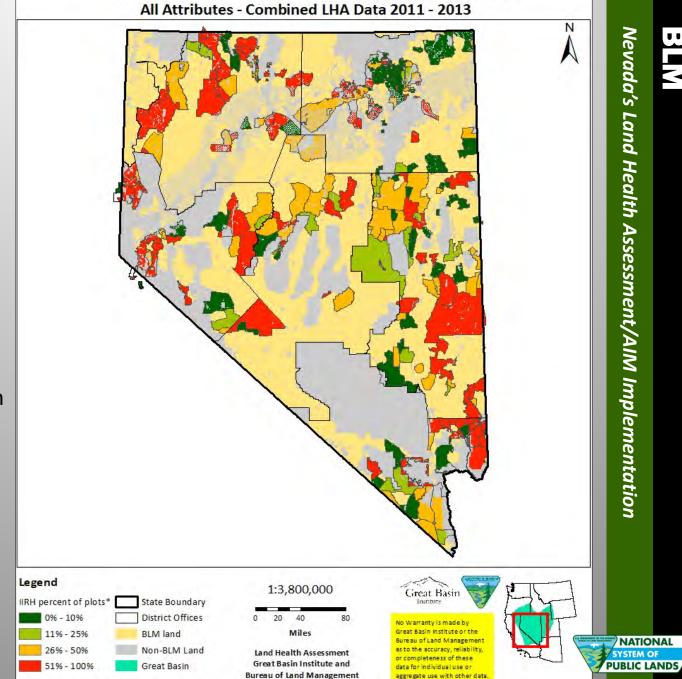




Nevada's Land Health Assessment/AIM Implementation

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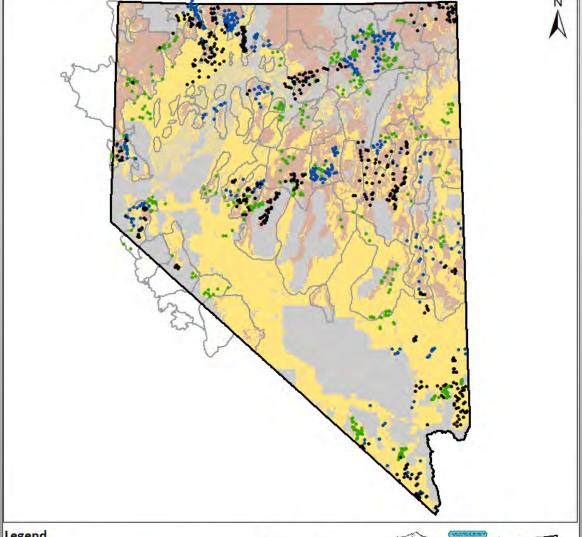
- Attribute rating percentages by allotment 2011 -2013
- Percentages are the number of plots with at least one attribute rating with a moderate departure from reference condition divided by the total number of plots in that allotment.



with a moderate or greater departure from reference in at least one attribute

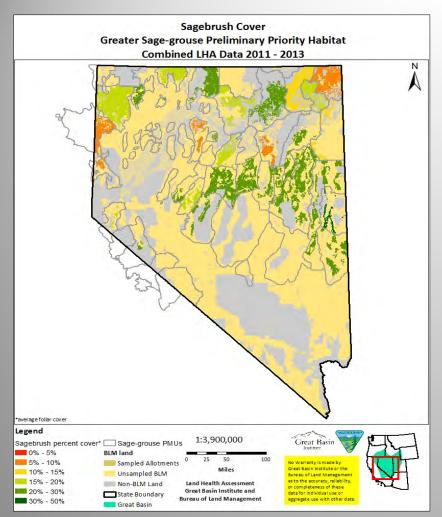
Interpreting Indicators of Rangeland Health by Allotment

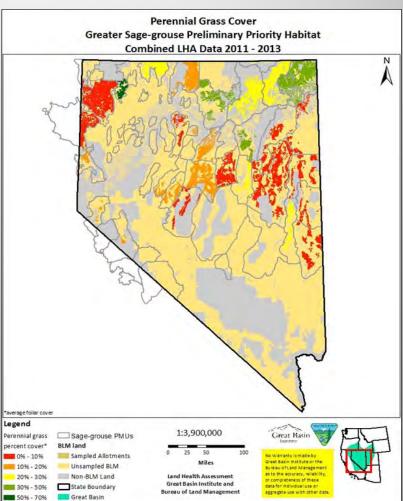
Land Health Assessment Plots 2011-2013 with Greater Sage-grouse Preliminary Priority Habitat (PPH) and Preliminary General Habitat (PGH)



Legend 1:3,900,000 Great Basin LHA Plots (2011) **BLM** land LHA Plots (2012) Non-BLM Land 0 50 No Warranty is made by LHA Plots (2013) State Boundary Great Basin Institute or the Miles Bureau of Land Management Greater sage-grouse Great Basin as to the accuracy, reliability, Land Health Assessment or completeness of these Habitat (PPH / PGH) Great Basin Institute and data for individual use or Bureau of Land Management aggregate use with other data. Population Mgmt. Units



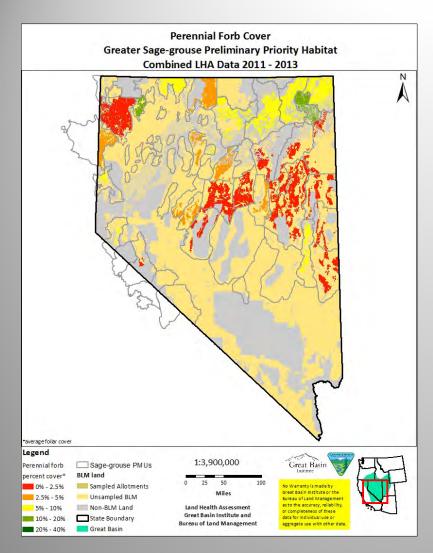


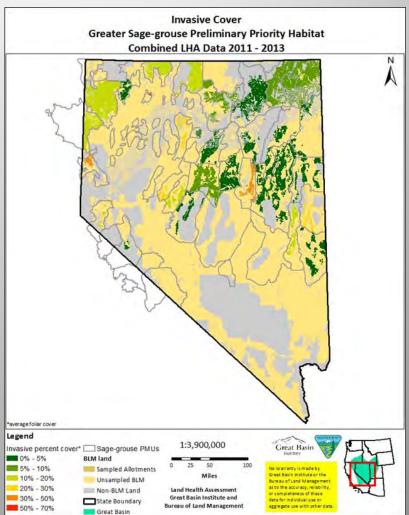




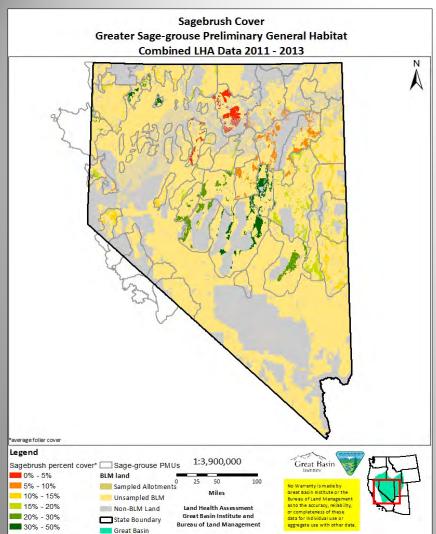
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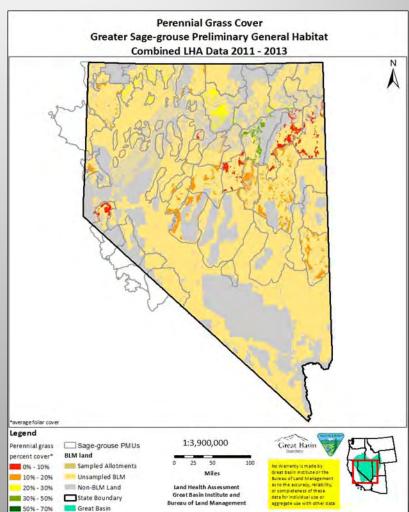
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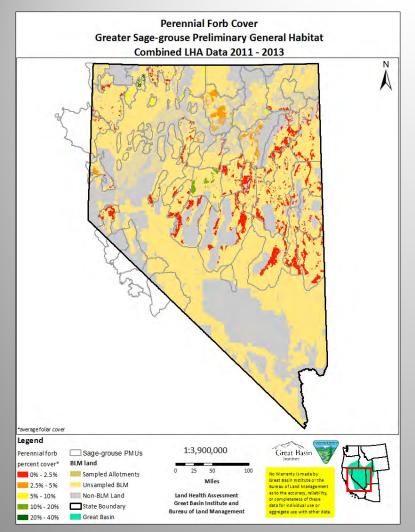


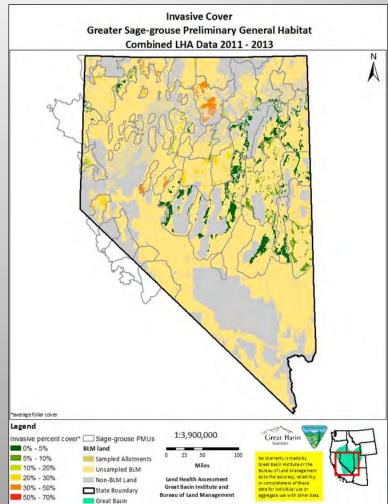














Going Forward

- Program not a Project
- 7-10 year cycle across Nevada
- Data storage (DIMA)
 - Nevada?
 - NOC?
- NDOW implementing similar system on other than Public Lands
- Data sharing
- Partnerships provide opportunity to accomplish more

