

Appendix D: Integrated Assessment

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INTEGRATED ASSESSMENT

D-1 Model Approach

D-1.1 Conceptual Models

D-1.1.1 Development

The conceptual model for integrated assessment with development CAs draws from the ecosystem conceptual model in terms of CA influence on CEs. These influences were listed in Appendix A Conceptual Models and describe known or expected effects of development CAs on the extent and condition of CEs generally. This rapid ecoregional assessment did not attempt to derive specific cause and effect models on individual CEs.

D-1.2 Spatial Models

Spatial models follow the graphic conventions per Figure D - 1.

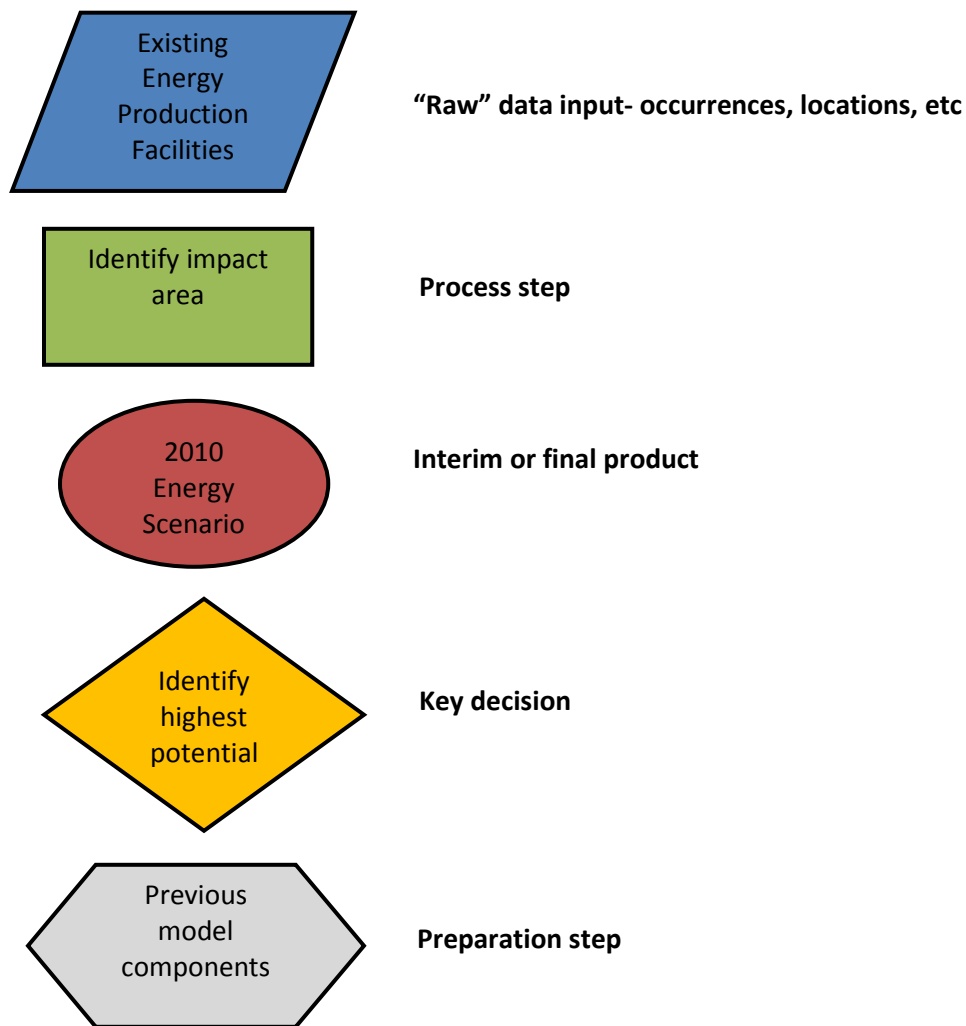


Figure D - 1. Spatial model graphic convention

D-1.2.1 Basic Assessment Model

Many MQs can be summarized as “Where will X coincide with Y?” seeking to identify areas where, for example, CEs will be coincident with CAs that may cause impacts (but do not attempt to model the impact). These types of MQs can be answered by a basic assessment model (Figure D - 2) that will intersect the distribution map of a CE with a mapped or modeled distribution of a CA. Areas or portions of overlap between the CE and CA can be displayed as a map and accompanied by summary statistics. This same model was used to intersect the CAs with other units such as the sensitive soils, high biodiversity sites, herd management areas and grazing allotments.

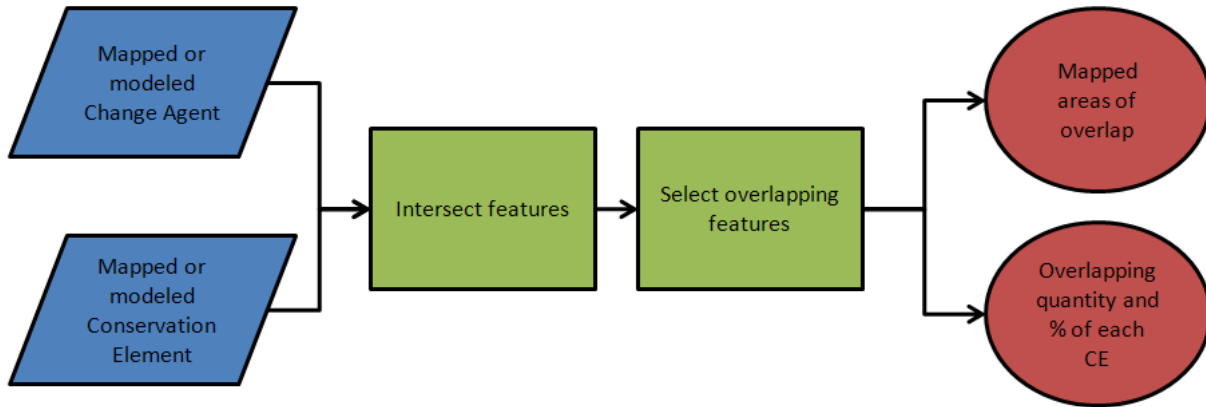


Figure D - 2. Basic Assessment Model

Inputs: Spatial distributions of CAs and CEs

Analytic process & tools: GIS intersect function were used to integrate these layers.

Outputs: A summary map that shows areas of overlap and summary statistics

Issues: This assessment model is quite simple and is not intended to represent actual response of the CEs to the CAs. Those more complex issues are addressed in different MQs and through different models. This model, however, is foundational in many other models which first require the intersection between CEs and CAs.

D-1.2.2 Other Assessment Models

Other assessment models include all those needed to answer MQs not answered by the Basic Assessment Model. These models sometimes begin with the Basic Assessment Model and or combine multiple models depending on the complexity of the MQ.

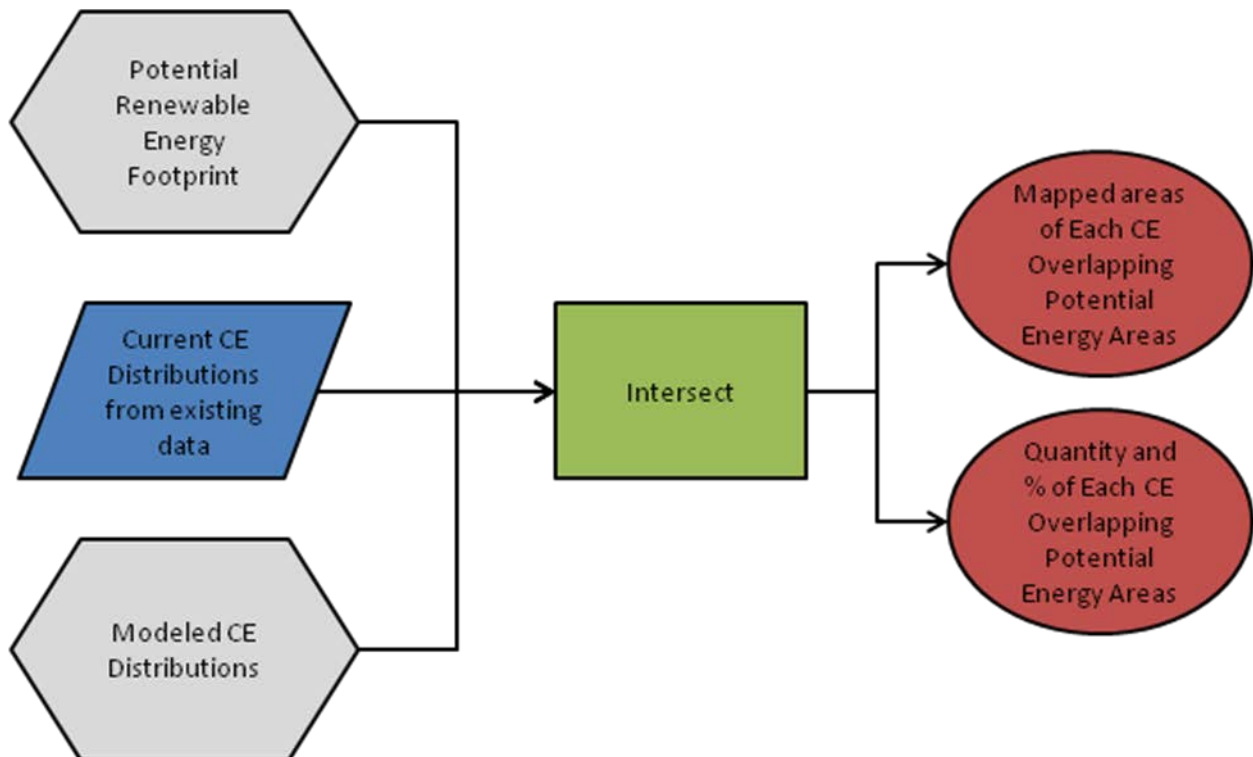


Figure D - 3. Spatial Model for Potential Renewable Energy Area intersecting with CEs (MQ90)

Conceptual model for MQ90, “Where do current locations of CEs overlap with areas of potential future locations of renewable energy development?”:

Inputs: Total renewable energy development model output, current CE distributions from existing data or from distribution models.

Analytic process & tools: A GIS intersect were used

Outputs: The distribution of each CE overlapping potential energy areas and the quantity and percent of each CE that overlaps those areas.

Issues: See issues of other input models.

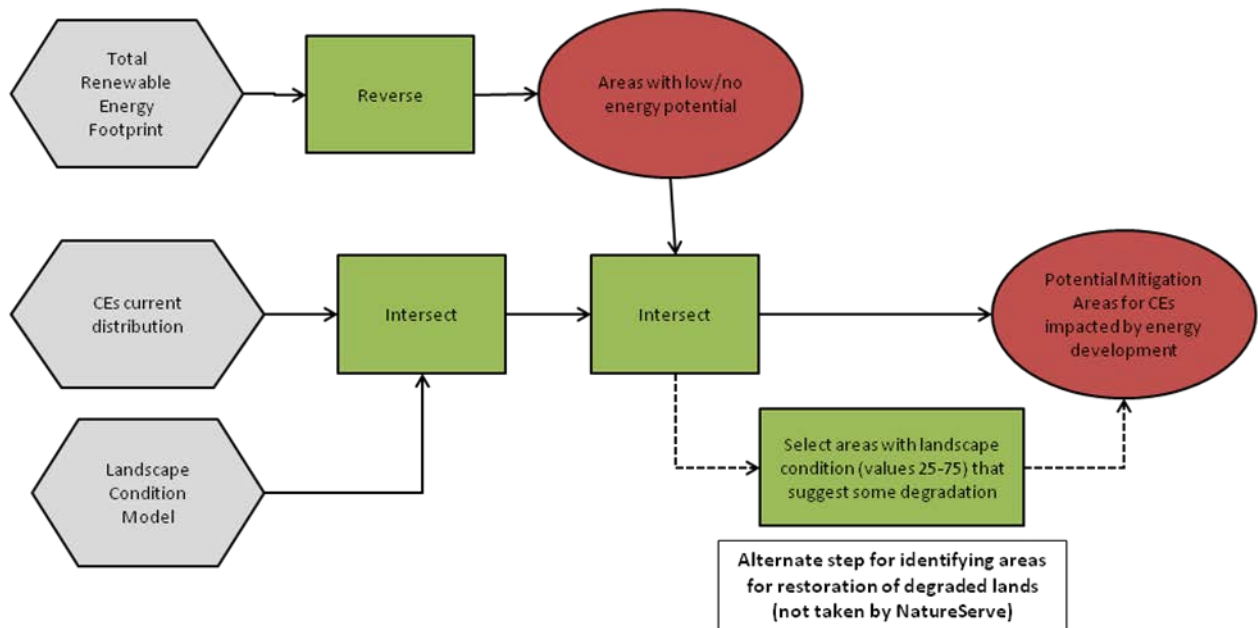


Figure D - 4. Conceptual model for areas of low renewable and non-renewable energy development that could potentially mitigate impacts to CEs from potential energy development (MQ89)

Conceptual model for MQ89, “Where are the areas of low renewable and non-renewable energy development that could potentially mitigate impacts to CEs from potential energy development?”:

Inputs: Outputs from the Total Renewable Energy Footprint, CE current distributions and the landscape condition model

Analytic process & tools: Analytical processes consisted of intersecting the layers and selecting relevant features/attributes. By selecting a narrower range of landscape condition model values, BLM could further narrow the scope of areas that offer mitigation opportunities through the restoration of currently degraded sites.

Outputs: An intermediate output is a map of natural areas with low-no energy potential. Intersecting that output with the distributions of CEs potentially affected by energy development identifies locations that contain CEs that may need mitigation and have low potential for future energy development. The final map then serves as a potential mitigation sites map.

Issues: See MQ89 below for a discussion of limitations and issues associated with this model.

D-2 Findings in terms of Management Questions

D-2.1 Current Distribution, Footprint Analysis

MQ51 - WHERE DO CURRENT LOCATIONS OF CES OVERLAP WITH DEVELOPMENT CAs?

MQ4 - WHERE ARE EXISTING CHANGE AGENTS POTENTIALLY AFFECTING THIS CURRENT HABITAT AND/OR MOVEMENT CORRIDORS, FOR LANDSCAPE SPECIES AND SPECIES ASSEMBLAGE CES?

CEs were intersected with the scenarios (current and 2025 – see Appendix A for details) to answer these specific MQs using the basic assessment model described in Figure D - 2 above. Statistics on the area and proportion of the CE overlapped by each CA and total area and proportion of the CE are in Table D - 1 (current scenario) and Table D - 6 (2025 scenario) below.

The footprint analysis (CA/CE intersect) illustrates that the ecoregion is still overwhelmingly rural in nature and most impacts do not come from development CAs at this time. Most development in the ecoregion is clustered around water sources, especially the foothill riparian areas of the Reno/Sparks and Wasatch Front. Findings for this MQ are consistent with urban patterns such that most development impact occurs among the coarse-filter riparian types (Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland) and the obligate landscape species (bald eagle and golden eagle nesting sites) and species assemblages (Migratory Shorebirds and Waterfowl Species).

As reported in other overlap analyses, change from current to 2025 is not substantial because the total development CA footprint only increases 0.5%. The key development CA responsible for larger overlap percentage with some CEs is urban and rural development. Overall, while there is relatively little change from the current scenario to the 2025 scenario in terms of the percent of the ecoregion, the pattern of increasing pressure especially on riparian areas and their obligates is consistent.

Table D - 1. CE and CA footprint analysis (intersect) for the Current Scenario. CEs are sorted into CE groups (e.g. coarse-filters, assemblages, landscape species), then in descending order by % of distribution overlapped by development.

Element Name	Total (ac)	Total Development Footprint %	No Change Agent	Multiple Change Agents	Urban Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Wind	Mine or Landfill	Oil or Gas Well	Military Urbanized Area	Railroad	Water Canal or Ditch	Primary Electric Utility Line	Pipeline	Crops or Irrigated Pasture	Roads Principle or Secondary	Roads Rural Neighborhood or Private	Roads Unimproved 4wd	Non motorized trail	Roads Unknown Type
Aquatic/Wetland/Riparian Coarse-filter Conservation Elements																					
Great Basin Springs and Seeps	25	25.23	74.77	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.51	0.00	9.01	0.00	0.00	0.00
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	743,548	21.91	78.09	3.56	6.35	0.00	0.00	0.00	0.01	0.00	0.00	0.15	0.21	0.11	0.02	8.08	0.22	2.61	0.51	0.06	0.00
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland/Stream	164,935	21.03	78.97	4.32	9.01	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.27	0.34	0.06	3.56	0.21	2.02	0.90	0.24	0.00
Inter-Mountain Basins Greasewood Flat	3,668,764	7.21	92.79	0.65	1.62	0.11	0.00	0.00	0.01	0.00	0.04	0.14	0.11	0.11	0.03	2.03	0.16	2.09	0.10	0.00	0.00
Rocky Mountain Subalpine-Montane Riparian Woodland and Shrubland/Stream	36,684	6.39	93.61	0.28	3.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.13	0.15	1.41	0.53	0.26	0.01
Inter-Mountain Basins Wash	1,984,600	5.82	94.18	0.25	1.22	0.01	0.00	0.00	0.02	0.00	0.00	0.03	0.01	0.09	0.02	0.78	0.11	2.88	0.37	0.02	0.00
Inter-Mountain Basins Playa	4,660,218	1.10	98.90	0.05	0.21	0.03	0.00	0.00	0.01	0.00	0.01	0.06	0.06	0.02	0.02	0.24	0.02	0.38	0.01	0.00	0.00
Great Basin Lake / Reservoir	1,595,308	0.98	99.02	0.11	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.03	0.00	0.25	0.01	0.07	0.03	0.00	0.00
Landscape Species Conservation Elements																					
Bald Eagle (nesting sites)	4,783	57.99	42.01	22.71	23.11	0.09	0.00	0.00	0.04	0.00	0.00	0.12	0.38	0.22	0.07	5.91	1.09	3.55	0.45	0.24	0.00
Loggerhead Shrike	1,258,464	54.23	45.77	20.78	11.48	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.15	0.02	20.04	0.16	1.06	0.38	0.04	0.01
Golden Eagle (nesting sites)	3,289	44.32	55.68	12.51	18.81	0.14	0.00	0.00	0.00	0.00	0.10	0.11	0.32	0.40	0.03	4.46	1.33	4.73	0.76	0.63	0.00
Savannah Sparrow	8,544,247	26.40	73.60	7.46	4.08	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.06	0.07	0.02	12.58	0.10	1.70	0.25	0.02	0.00
Ferruginous Hawk	7,186,911	21.68	78.32	6.72	3.51	0.00	0.00	0.00	0.08	0.00	0.00	0.05	0.07	0.14	0.04	8.71	0.11	1.82	0.40	0.02	0.00
Northern Rubber Boa	845,018	19.74	80.26	3.15	6.95	0.00	0.00	0.00	0.01	0.00	0.00	0.12	0.18	0.10	0.02	6.27	0.25	2.17	0.48	0.05	0.00
Swainson's Hawk	21,512,594	11.55	88.45	3.11	1.69	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.06	0.01	5.26	0.06	1.10	0.18	0.01	0.00
Northern Harrier	25,286,087	11.19	88.81	2.46	1.62	0.02	0.00	0.01	0.03	0.00	0.01	0.05	0.04	0.09	0.02	4.54	0.12	2.02	0.15	0.00	0.00
Prairie Falcon	34,058,832	10.02	89.98	2.14	1.84	0.02	0.01	0.01	0.06	0.00	0.01	0.04	0.03	0.09	0.02	3.49	0.12	1.94	0.19	0.01	0.00
Big brown bat	48,294,159	8.62	91.38	1.96	2.02	0.03	0.01	0.01	0.04	0.00	0.02	0.04	0.04	0.08	0.02	2.60	0.15	1.44	0.17	0.01	0.00
Colombian sharp-tailed grouse	1,477,722	7.75	92.25	0.22	3.81	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.01	0.07	0.01	0.23	0.18	2.87	0.27	0.03	0.00
Cooper's hawk	18,278,920	6.76	93.24	1.48	2.99	0.01	0.00	0.00	0.07	0.00	0.02	0.03	0.03	0.07	0.01	0.57	0.17	1.05	0.24	0.02	0.00
Brazilian free-tailed bat	61,843,262	6.75	93.25	1.17	1.86	0.03	0.00	0.01	0.02	0.00	0.01	0.04	0.03	0.09	0.02	1.43	0.14	1.71	0.19	0.01	0.00
Mule Deer Class F Summer Range	7,978,101	6.57	93.43	1.56	0.90	0.01	0.00	0.00	0.03	0.00	0.02	0.02	0.02	0.06	0.02	2.46	0.07	1.30	0.10	0.00	0.00
Common Kingsnake	24,680,279	5.46	94.54	0.76	1.56	0.04	0.01	0.00	0.03	0.00	0.01	0.03	0.03	0.08	0.02	0.94	0.10	1.70	0.14	0.01	0.00
Greater Sage-Grouse Breeding Density 100%	10,395,960	5.25	94.75	0.25	0.88	0.01	0.00	0.06	0.14	0.00	0.00	0.02	0.01	0.06	0.01	1.55	0.12	1.93	0.19	0.01	0.00
Pygmy Rabbit	10,047,058	5.22	94.78	0.27	1.35	0.01	0.00	0.02	0.00	0.00	0.00	0.04	0.02	0.10	0.03	0.32	0.16	2.69	0.19	0.00	0.00
Sage Thrasher	52,736,357	5.14	94.86	0.31	1.57	0.03	0.01	0.01	0.03	0.00	0.01	0.04	0.03	0.10	0.02	0.57	0.12	2.07	0.21	0.01	0.00

Element Name	Total (ac)	Total Development Footprint %	No Change Agent	Multiple Change Agents	Urban Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Wind	Mine or Landfill	Oil or Gas Well	Military Urbanized Area	Railroad	Water Canal or Ditch	Primary Electric Utility Line	Pipeline	Crops or Irrigated Pasture	Roads Principle or Secondary	Roads Rural Neighborhood or Private	Roads Unimproved 4wd	Non motorized trail	Roads Unknown Type
Brewer's Sparrow (Breeding)	46,470,566	5.09	94.91	0.31	1.66	0.02	0.01	0.01	0.03	0.00	0.00	0.03	0.02	0.10	0.02	0.50	0.12	2.03	0.21	0.01	0.00
Coachwhip	17,488,171	4.98	95.02	0.37	2.35	0.01	0.00	0.00	0.02	0.00	0.01	0.02	0.02	0.08	0.02	0.28	0.08	1.49	0.21	0.01	0.00
White-tailed Jackrabbit	30,311,210	4.89	95.11	0.30	1.76	0.01	0.00	0.01	0.03	0.00	0.00	0.03	0.02	0.08	0.02	0.57	0.09	1.75	0.21	0.01	0.00
Mule Deer Class D Summer Range	15,132,354	4.72	95.28	0.35	1.49	0.01	0.00	0.00	0.05	0.00	0.00	0.02	0.01	0.09	0.02	0.62	0.10	1.64	0.31	0.02	0.00
Sage Sparrow	34,785,966	4.55	95.45	0.23	1.16	0.01	0.01	0.02	0.07	0.00	0.00	0.03	0.02	0.09	0.02	0.57	0.12	1.98	0.21	0.01	0.00
Mule Deer Class B Summer Range	11,908,586	4.47	95.53	0.26	2.18	0.01	0.00	0.00	0.05	0.00	0.00	0.01	0.01	0.06	0.01	0.37	0.09	0.92	0.44	0.06	0.00
Greater Sage-Grouse Occupied Habitat	18,397,015	3.99	96.01	0.13	0.63	0.00	0.00	0.01	0.02	0.00	0.00	0.01	0.01	0.03	0.01	1.00	0.01	1.98	0.14	0.00	0.00
Kit Fox	40,761,010	3.89	96.11	0.19	0.87	0.02	0.01	0.02	0.03	0.00	0.00	0.03	0.02	0.08	0.02	0.30	0.11	2.01	0.16	0.00	0.00
Northern Sagebrush Lizard	68,546,114	3.86	96.14	0.21	1.27	0.02	0.00	0.01	0.04	0.00	0.00	0.03	0.02	0.08	0.02	0.20	0.09	1.66	0.19	0.01	0.00
Great Basin Collared Lizard	27,887,753	3.73	96.27	0.19	0.91	0.02	0.01	0.02	0.04	0.00	0.01	0.03	0.02	0.09	0.02	0.14	0.11	1.96	0.16	0.00	0.00
Greater Sage-Grouse Breeding Density 75%	683,551	3.65	96.35	0.07	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.94	0.16	1.80	0.33	0.00	0.00
Western Patch-nosed Snake	3,502,752	3.50	96.50	0.22	1.51	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.01	0.07	0.01	0.07	0.04	1.24	0.24	0.02	0.00
Greater Sage-Grouse Breeding Density 50%	904,232	3.15	96.85	0.12	0.30	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.05	0.00	0.66	0.16	1.64	0.15	0.01	0.00
Greater Sage-Grouse Breeding Density 25%	4,358,296	3.14	96.86	0.09	0.26	0.02	0.00	0.00	0.01	0.00	0.00	0.02	0.01	0.06	0.02	0.68	0.14	1.71	0.13	0.00	0.01
Clark's nutcracker	14,273,206	2.15	97.85	0.06	0.80	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.05	0.00	0.04	0.03	0.90	0.21	0.02	0.00
Brewer's Sparrow (Migratory)	4,504,614	1.87	98.13	0.01	0.12	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.02	1.59	0.05	0.00	0.00
Desert big horn	7,961,417	1.35	98.65	0.02	0.08	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.02	0.00	0.08	0.02	0.93	0.11	0.01	0.00
Vulnerable Species Assemblage Conservation Elements																					
Migratory Shorebirds and Waterfowl Species Assemblage	110,765	21.79	78.21	6.00	6.65	0.01	0.00	0.00	0.00	0.00	0.01	0.16	0.25	0.16	0.05	6.75	0.16	1.39	0.18	0.01	0.00
Montane Conifer Species Assemblage	281,951	10.50	89.50	1.91	4.29	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.15	0.06	0.01	1.04	0.34	1.97	0.58	0.09	0.01
Sand Dunes and Sandy Soils Species Assemblage	79,387	8.49	91.51	0.75	4.04	0.18	0.00	0.00	0.00	0.00	0.04	0.12	0.07	0.21	0.03	0.37	0.16	2.28	0.22	0.01	0.00
Gypsum Soils Species Assemblage	338	4.47	95.53	0.53	3.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00
Clay Soil Patches Species Assemblage	126,194	3.76	96.24	0.16	1.20	0.01	0.00	0.00	0.06	0.00	0.00	0.01	0.01	0.05	0.02	0.22	0.09	1.78	0.15	0.01	0.00
Azonal Carbonate Rock Crevices Species Assemblage	38,743	2.86	97.14	0.62	1.12	0.00	0.00	0.00	0.02	0.00	0.00	0.04	0.01	0.01	0.00	0.06	0.18	0.73	0.06	0.01	0.00
Carbonate Alpine Species Assemblage	35,438	1.31	98.69	0.01	0.62	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.52	0.07	0.00	0.02
Azonal Noncarbonate Rock Crevices Species Assemblage	89,383	1.01	98.99	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.79	0.09	0.00	0.00
Noncarbonate Alpine Species Assemblage	21,595	0.58	99.42	0.02	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.19	0.07	0.02	0.00

Element Name	Total (ac)	Total Development Footprint %	No Change Agent	Multiple Change Agents	Urban Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Wind	Mine or Landfill	Oil or Gas Well	Military Urbanized Area	Railroad	Water Canal or Ditch	Primary Electric Utility Line	Pipeline	Crops or Irrigated Pasture	Roads Principle or Secondary	Roads Rural Neighborhood or Private	Roads Unimproved 4wd	Non motorized trail	Roads Unknown Type
Terrestrial Coarse-filter Conservation Elements																					
Inter-Mountain Basins Semi-Desert Grassland	496,949	28.87	71.13	2.47	2.26	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.09	0.07	0.02	22.41	0.10	1.29	0.09	0.00	0.00
Great Basin Semi-Desert Chaparral	17,301	13.89	86.11	1.63	10.24	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.11	0.03	0.79	0.05	0.54	0.42	0.02	0.02
Inter-Mountain Basins Cliff and Canyon	185,680	8.16	91.84	0.92	0.49	0.01	0.00	0.00	5.78	0.00	0.00	0.01	0.01	0.03	0.01	0.16	0.11	0.47	0.13	0.01	0.00
Colorado Plateau Mixed Low Sagebrush Shrubland	43,413	7.14	92.86	0.25	1.75	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.41	0.00	0.13	0.16	3.29	1.01	0.05	0.00
Rocky Mountain Aspen Forest and Woodland	1,060,579	7.07	92.93	0.16	5.44	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.04	0.01	0.07	0.04	0.83	0.37	0.09	0.00
Inter-Mountain Basins Montane Sagebrush Steppe	3,847,354	6.10	93.90	0.33	3.30	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.05	0.01	0.21	0.06	1.72	0.33	0.04	0.00
Inter-Mountain Basins Big Sagebrush Shrubland	16,085,962	5.36	94.64	0.31	1.94	0.01	0.00	0.01	0.03	0.00	0.00	0.04	0.02	0.11	0.03	0.32	0.13	2.16	0.24	0.01	0.00
Inter-Mountain Basins Semi-Desert Shrub-Steppe	448,086	4.84	95.16	0.31	1.02	0.01	0.00	0.00	0.01	0.00	0.00	0.07	0.02	0.09	0.04	0.59	0.34	2.16	0.18	0.01	0.00
Inter-Mountain Basins Mixed Salt Desert Scrub	16,159,559	4.34	95.66	0.23	0.97	0.04	0.02	0.03	0.02	0.00	0.01	0.05	0.02	0.11	0.03	0.23	0.15	2.28	0.16	0.00	0.00
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	98,599	4.31	95.69	0.09	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.03	0.38	0.42	0.08	0.00
Inter-Mountain Basins Big Sagebrush Steppe	1,591,258	3.94	96.06	0.22	1.06	0.00	0.00	0.00	0.04	0.00	0.00	0.02	0.01	0.10	0.02	0.43	0.06	1.81	0.16	0.00	0.00
Great Basin Xeric Mixed Sagebrush Shrubland	8,202,634	2.74	97.26	0.10	0.55	0.00	0.00	0.01	0.06	0.00	0.00	0.02	0.01	0.05	0.01	0.06	0.07	1.71	0.11	0.00	0.00
Mojave Mid-Elevation Mixed Desert Scrub	3,423,603	2.62	97.38	0.11	0.88	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.06	0.01	0.03	0.03	1.26	0.19	0.02	0.00
Great Basin Pinyon-Juniper Woodland	13,803,748	2.29	97.71	0.11	0.86	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.01	0.05	0.00	0.07	0.03	0.92	0.18	0.01	0.00
Rocky Mountain Alpine Turf	14,187	1.88	98.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	1.45	0.34	0.03	0.00
Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	322,909	1.43	98.57	0.04	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.01	0.28	0.11	0.02	0.01
Inter-Mountain Basins Active and Stabilized Dune	104,792	0.93	99.07	0.08	0.13	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.15	0.01	0.50	0.00	0.00	0.00
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	106,601	0.28	99.72	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.19	0.06	0.00	0.00

D-2.1.1 High Biodiversity Sites, Sensitive Soils, HMAs and GAs overlap with CAs

MQ 15 - WHERE WILL DEVELOPMENT CAs POTENTIALLY AFFECT SITES OF HIGH BIODIVERSITY UNDER EACH TIME SCENARIO?

MQ 26 - WHERE WILL DEVELOPMENT CAs OVERLAP HAS, HMAs, AND GAs UNDER EACH TIME SCENARIO?

MQ 29 - WHERE WILL TARGET SOIL TYPES OVERLAP WITH DEVELOPMENT CAs UNDER EACH TIME SCENARIO?

These MQs are addressed in this separate document because of the thousands of grazing allotments requiring an extensive table to communicate results. The tables here report the degree of development CA overlap for the current, near future (2025) and change in percent for high biodiversity sites, sensitive soils, HMAs, and GAs. The development CA category is a roll-up of all anthropogenic change agents. All of these assessments followed the Basic Assessment Model (found in Appendix D) and applied a basic footprint assessment of anthropogenic features (urban development, roads, etc) represented in the near-future scenario intersected with these places and features. It does not model actual response or condition of these features to the CAs (another MQ assessed landscape condition against GAs and HMAs). The CAs consist of 19 classes which represent different types of human infrastructure on the landscape. Some types are easily defined, precise footprints (pipelines, roads, energy development areas) while others are broader land cover types derived from spatial models (development, mining and refuse areas). During the construction of the layer, we observed that many CAs will overlap and per agreement by the AMT, where overlapping CAs were detected these were reclassified as “multiple CAs.” The geospatial layers and metadata that were turned in BLM contain more detail information.

D-2.1.2 Uncertainty, Limitations and Data Gaps

A full description of the development change agents and their uncertainty and limitations is detailed in Appendix A. All of the data inputs to these assessments are considered to have high confidence; see however Appendix A for sensitive soils modeling for additional information on those features. Grazing allotment and herd management areas were used as they were received from BLM. It was noted during the analysis that the grazing allotment layer included areas of private or non-federal land and this resulted in some unlikely results, namely the presence of urban development overlap with the (federally owned) grazing allotments. The allotment data did not specify the status of each allotment (open, closed, retired, etc.) so all were treated as open. No additional verification was done regarding the current status of these places by the contractor.

D-2.1.3 High Biodiversity Sites, overlain with current and 2025 scenario CAs

The high biodiversity sites were derived from source data characterizing locations with concentrated at-risk biodiversity or existing source data of a prioritization exercise that identified areas of high conservation significance (see Appendix A for more information). High biodiversity sites show relatively low impact from development change agents and little change from the current to near-future scenario. Besides the low percentage of development in the ecoregion, this result is also likely explained by the tendency of conservation planners to avoid areas of current or likely future development.

Table D - 2. Acres and proportion of high biodiversity sites overlain by current development CAs.

Change Agent Type	Developed Total 2010 (acres)	Developed 2010 percent	Developed Total 2025 (acres)	Developed 2025 percent	Percent Change
Urban or Rural Development	169,398	3.08	201,109	3.66	0.58
Renewable Energy Geothermal	2,006	0.04	8,486	0.15	0.12

Change Agent Type	Developed Total 2010 (acres)	Developed 2010 percent	Developed Total 2025 (acres)	Developed 2025 percent	Percent Change
Renewable Energy SEZ	0	0	6,054	0.11	0.11
Roads rural private neighborhood	95,866	1.75	101,630	1.85	0.11
Renewable Energy Wind	1,193	0.02	4,429	0.08	0.06
Multiple Overlapping CAs	108,746	1.98	109,635	2	0.02
Electric utility line	5,852	0.11	6,915	0.13	0.02
Roads Unimproved or 4wd	15,997	0.29	16,934	0.31	0.02
Roads principle or secondary	9,223	0.17	9,849	0.18	0.01
Renewable Energy Solar	500	0.01	499	0.01	0
Mine or landfill	1,462	0.03	1,438	0.03	0
Oil or gas well	23	0	23	0	0
Military Urbanized Area	1,025	0.02	976	0.02	0
Railroad	3,293	0.06	3,074	0.06	0
Pipeline	1,348	0.02	1,250	0.02	0
Roads - non motorized trails	822	0.01	846	0.02	0
Roads Unknown	152	0	161	0	0
Water canal or ditch	3,098	0.06	2,755	0.05	-0.01
Crops or irrigated pasture	119,975	2.18	112,834	2.05	-0.13
No Development CA	4,952,360	90.17	4,903,198	89.28	-0.89

D-2.1.4 Sensitive Soils, overlain with current and 2025 scenario CAs

This assessment was limited to the most restrictive definition for sensitive soils (except for the hydric soils in which used a broader definition) because such soils occupy the majority of the ecoregion. The soils were then overlaid with the development CAs. Most sensitive soils show little overlap with development change agents. One exception is gypsum soils that has over 65% of its area overlapped by development change agents and over 50% of the overlap is due to row crops and irrigated pasture. The geospatial layers and metadata that were turned in to BLM contain more detailed information on the types and location of development CA overlap.

Table D - 3. Acres and percent of development change agents by Sensitive Soil, 2010-2025

Sensitive Soil Type	Total (ac)	Developed Total 2010 (acres)	Developed 2010 percent	Developed Total 2025 (acres)	Developed 2025 percent	Percent Change
High available water capacity	50,412,638	2,764,898	5.48	2,941,553	5.84	0.35
Calcium carbonate soils	12,838,852	891,550	6.94	952,340	7.42	0.48
Soils sensitive to water erosion	8,543,142	163,657	1.92	190,096	2.23	0.31
Gypsum soils	25,656	16,799	65.48	17,142	66.81	1.34

Hydric soils (inclusive definition)	8,400,964	570,583	6.79	625,418	7.45	0.66
High sodium adsorption ratio soils	6,659,694	431,596	6.48	477,146	7.17	0.69
Soils sensitive to wind erosion	4,815,310	810,814	16.84	860,333	17.94	1.10

D-2.1.5 Herd Management Areas, overlain with current and 2025 scenario CAs

Most HMAs show very little overlap with development CAs and the dominant development CAs are rural roads. There is no change between the current and 2025 scenario for any of the herd management areas. The geospatial layers and metadata that were turned in to BLM contain more detailed information on the types and location of development CA overlap. Figure D - 5 shows an image of the herd management areas with the landscape condition model to create a visual illustration of the potential degradation from development and invasive plants. The herd management areas summarized by the landscape condition was not an assessment delivered to BLM but it could be readily created using data delivered by the contractor.

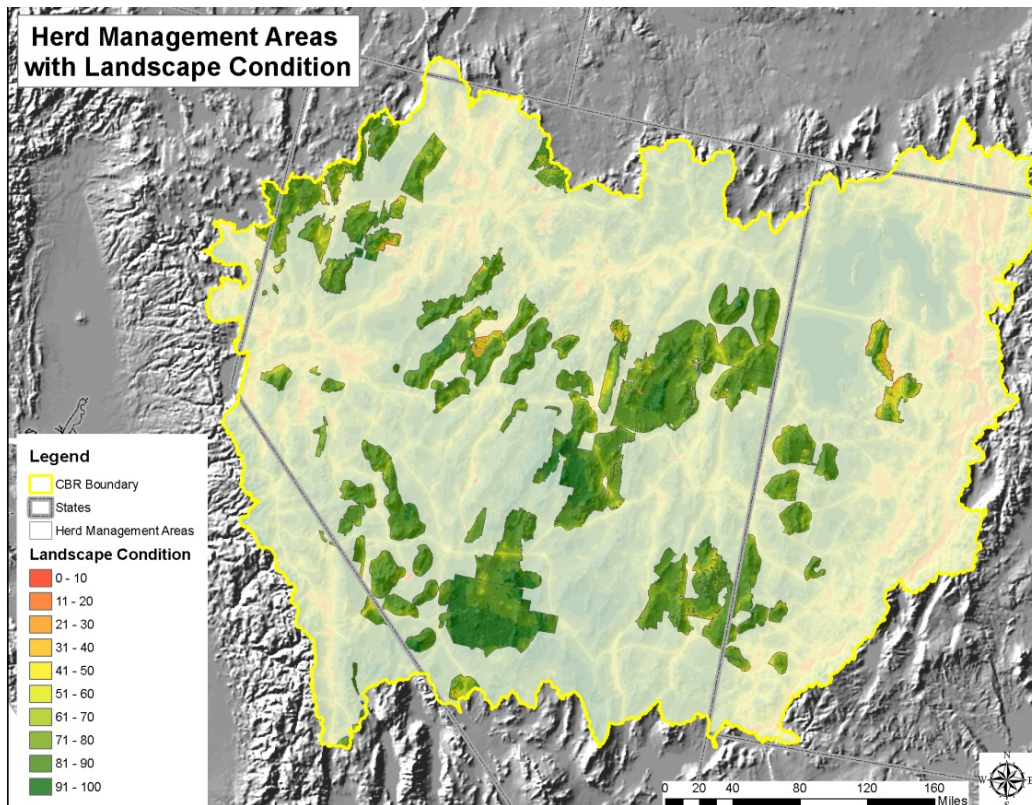


Figure D - 5. Location of HMAs and relationship to "development" as represented by the landscape condition model. This map shows the full color ramp for the landscape condition model within HMA boundaries; dark green indicates apparently unimpacted condition, red to dark orange apparently highly impacted.

Table D - 4. Acres and percent of development change agents by HMA, 2010-2025

HMA_NAME	HMA_ID	Total (acres)	Developed Total 2010 (acres)	Percent 2010	Developed Total 2025 (acres)	Percent 2025	Percent Change
Little Owyhee	NV0200	463,133	426.00	0.09	426.00	0.09	0.00
Warm Springs Canyon	NV0226	92,695	875.00	0.94	875.00	0.94	0.00
Black Rock Range West	NV0227	94,183	487.00	0.52	487.00	0.52	0.00
Black Rock Range East	NV0209	94,403	396.00	0.42	396.00	0.42	0.00
Rock Creek	NV0103	122,085	73.00	0.06	73.00	0.06	0.00
Jackson Mountains	NV0208	286,430	6,252.00	2.18	6,252.00	2.18	0.00
Snowstorm Mountains	NV0201	117,835	1,814.00	1.54	1,814.00	1.54	0.00
Little Humboldt	NV0102	17,252	71.00	0.41	71.00	0.41	0.00
Calico Mountains	NV0222	162,605	509.00	0.31	509.00	0.31	0.00
Granite Range	NV0221	104,991	1,582.00	1.51	1,582.00	1.51	0.00
Kamma Mountains	NV0214	57,955	3,945.00	6.81	3,945.00	6.81	0.00
Buffalo Hills	NV0220	133,437	2,188.00	1.64	2,188.00	1.64	0.00
Lava Beds	NV0215	235,481	3,712.00	1.58	3,712.00	1.58	0.00
Goshute	NV0108	267,445	5,636.00	2.11	5,636.00	2.11	0.00
Spruce-Pequop	NV0109	241,119	7,723.00	3.20	7,723.00	3.20	0.00
Tobin Range	NV0231	199,723	5,299.00	2.65	5,299.00	2.65	0.00
Fox-Lake Range	NV0228	179,803	7,037.00	3.91	7,037.00	3.91	0.00
Seven Troughs	NV0216	150,397	2,947.00	1.96	2,947.00	1.96	0.00
Antelope Valley	NV0107	505,108	16,242.00	3.22	16,242.00	3.22	0.00
Maverick-Medicine	NV0105	324,317	11,733.00	3.62	11,733.00	3.62	0.00
Blue Wing Mountains	NV0217	18,045	138.00	0.76	138.00	0.76	0.00
Shawave Mountains	NV0218	108,261	1,259.00	1.16	1,259.00	1.16	0.00
South Shoshone	NV0601	133,953	831.00	0.62	831.00	0.62	0.00
Diamond Hills North	NV0104	71,852	1,348.00	1.88	1,348.00	1.88	0.00
Nightingale Mountains	NV0219	77,302	1,512.00	1.96	1,512.00	1.96	0.00
North Stillwater	NV0229	180,445	3,502.00	1.94	3,502.00	1.94	0.00
Flanigan	NV0301	17,362	169.00	0.97	169.00	0.97	0.00
Bald Mountain	NV0603	140,712	1,846.00	1.31	1,846.00	1.31	0.00
Augusta Mountains	NV0311	178,930	2,202.00	1.23	2,202.00	1.23	0.00
Diamond	NV0609	166,305	14,526.00	8.73	14,526.00	8.73	0.00
Rocky Hills	NV0605	84,432	1,797.00	2.13	1,797.00	2.13	0.00
New Pass-Ravenswood	NV0602	287,948	4,026.00	1.40	4,026.00	1.40	0.00
Dogskin Mountains	NV0302	6,605	0.00	0.00	0.00	0.00	0.00
Callaghan	NV0604	157,148	950.00	0.60	950.00	0.60	0.00
Granite Peak	NV0303	4,053	19.00	0.47	19.00	0.47	0.00
Clan Alpine	NV0310	304,763	2,915.00	0.96	2,915.00	0.96	0.00
Whistler Mountain	NV0608	43,444	1,365.00	3.14	1,365.00	3.14	0.00

HMA_NAME	HMA_ID	Total (acres)	Developed Total 2010 (acres)	Percent 2010	Developed Total 2025 (acres)	Percent 2025	Percent Change
Roberts Mountain	NV0607	100,492	1,809.00	1.80	1,809.00	1.80	0.00
Fish Creek	NV0612	253,947	5,865.00	2.31	5,865.00	2.31	0.00
Desatoya	NV0606	162,962	3,575.00	2.19	3,575.00	2.19	0.00
South Stillwater	NV0309	9,864	19.00	0.19	19.00	0.19	0.00
Hickison	NV0610	57,634	1,167.00	2.02	1,167.00	2.02	0.00
North Monitor	NV0611	11,573	303.00	2.62	303.00	2.62	0.00
Lahontan	NV0306	9,687	395.00	4.08	395.00	4.08	0.00
Pine Nut Mountains	NV0305	105,593	5,433.00	5.15	5,433.00	5.15	0.00
Seven Mile	NV0613	98,149	1,709.00	1.74	1,709.00	1.74	0.00
Horse Mountain	NV0308	50,320	442.00	0.88	442.00	0.88	0.00
Wassuk	NV0312	52,310	1,132.00	2.16	1,132.00	2.16	0.00
Little Fish Lake	NV0614	28,896	562.00	1.94	562.00	1.94	0.00
Pilot Mountain	NV0314	481,392	9,181.00	1.91	9,181.00	1.91	0.00
Sand Springs West	NV0630	152,927	3,206.00	2.10	3,206.00	2.10	0.00
Garfield Flat	NV0313	144,118	4,142.00	2.87	4,142.00	2.87	0.00
Marietta	NV0316	66,694	1,940.00	2.91	1,940.00	2.91	0.00
Paymaster	NV0621	101,392	2,142.00	2.11	2,142.00	2.11	0.00
Fish Lake Valley	NV0622	67,727	2,135.00	3.15	2,135.00	3.15	0.00
Silver Peak	NV0623	244,614	4,455.00	1.82	4,455.00	1.82	0.00
Goldfield	NV0626	62,821	2,060.00	3.28	2,060.00	3.28	0.00
Montezuma Peak	NV0625	78,479	1,399.00	1.78	1,399.00	1.78	0.00
Palmetto	NV0624	119,262	2,531.00	2.12	2,531.00	2.12	0.00
Stonewall	NV0627	24,059	325.00	1.35	325.00	1.35	0.00
Gold Mountain	NV0628	108,465	1,883.00	1.74	1,883.00	1.74	0.00
Wall Canyon	CA0265	41,609	0.00	0.00	0.00	0.00	0.00
High Rock	CA0264	95,772	0.00	0.00	0.00	0.00	0.00
Fox Hog	CA0263	128,593	69.00	0.05	69.00	0.05	0.00
Twin Peaks	CA0242	767,851	7,186.00	0.94	7,186.00	0.94	0.00
Fort Sage	CA0241	16,139	1,709.00	10.59	1,709.00	10.59	0.00
Piper Mountain	CA0656	97,139	6,290.00	6.48	6,290.00	6.48	0.00
Centennial	CA0654	321,341	159.00	0.05	159.00	0.05	0.00
Montgomery Pass	NV0317	4,675	30.00	0.64	30.00	0.64	0.00
Montgomery Pass	NV0317	7,993	334.00	4.18	334.00	4.18	0.00
Bullfrog	NV0629	158,185	7,164.00	4.53	7,164.00	4.53	0.00
Buckhorn	CA0262	77,526	67.00	0.09	67.00	0.09	0.00
Waucoba-Hunter Mountain	CA0651	21,175	501.00	2.37	501.00	2.37	0.00
Waucoba-Hunter Mountain	CA0651	1,667	0.00	0.00	0.00	0.00	0.00
Saulsbury	NV0620	73,796	1,753.00	2.38	1,753.00	2.38	0.00
Montgomery Pass	NV0317	38,616	478.00	1.24	478.00	1.24	0.00

HMA_NAME	HMA_ID	Total (acres)	Developed Total 2010 (acres)	Percent 2010	Developed Total 2025 (acres)	Percent 2025	Percent Change
Fort Sage	CA0241	2,001	0.00	0.00	0.00	0.00	0.00
Cedar Mountain	UT0241	211,592	4,998.00	2.36	4,998.00	2.36	0.00
Onaqui Mountain	UT0242	240,153	10,717.00	4.46	10,717.00	4.46	0.00
Confusion	UT0552	293,665	6,801.00	2.32	6,801.00	2.32	0.00
Swasey	UT0555	134,965	2,350.00	1.74	2,350.00	1.74	0.00
Conger	UT0553	170,993	4,089.00	2.39	4,089.00	2.39	0.00
Kingtop	UT0011	171,467	2,978.00	1.74	2,978.00	1.74	0.00
Sulpher	UT0448	265,676	5,788.00	2.18	5,788.00	2.18	0.00
Frisco	UT0445	60,367	1,398.00	2.32	1,398.00	2.32	0.00
Choke Cherry	UT0443	48,137	715.00	1.49	715.00	1.49	0.00
Four Mile	ID0002	61,273	869.00	1.42	869.00	1.42	0.00
Bible Spring	UT0440	61,862	915.00	1.48	915.00	1.48	0.00
Tilly Creek	UT0449	37,006	588.00	1.59	588.00	1.59	0.00
Mt Elinor	UT0446	42,640	381.00	0.89	381.00	0.89	0.00
Cholride Canyon	UT0442	63,684	2,201.00	3.46	2,201.00	3.46	0.00
North Hills	UT0447	24,029	155.00	0.65	155.00	0.65	0.00
North Hills	UT0447	60,625	2,105.00	3.47	2,105.00	3.47	0.00
Lee Flat	CA0652	73,897	211.00	0.29	211.00	0.29	0.00
Stone Cabin	NV0618	410,007	9,816.00	2.39	9,816.00	2.39	0.00
Hot Creek	NV0616	54,946	845.00	1.54	845.00	1.54	0.00
Reveille	NV0619	106,062	1,558.00	1.47	1,558.00	1.47	0.00
Nevada Wild Horse Range	NV0524	1,309,429	23,765.00	1.81	23,765.00	1.81	0.00
Saulsbury	NV0620	62,183	1,504.00	2.42	1,504.00	2.42	0.00
Antelope	NV0401	327,747	9,359.00	2.86	9,359.00	2.86	0.00
Pancake	NV0415	853,025	19,819.00	2.32	19,819.00	2.32	0.00
Diamond Hills South	NV0412	19,345	426.00	2.20	426.00	2.20	0.00
Triple B	NV0417	1,235,922	39,930.00	3.23	39,930.00	3.23	0.00
Eagle	NV0414	660,700	13,435.00	2.03	13,435.00	2.03	0.00
Silver King	NV0416	576,458	15,258.00	2.65	15,258.00	2.65	0.00

D-2.1.6 Grazing allotments, overlain with current and 2025 scenario CAs

Most grazing allotments show very little impact from development CAs however there are a few significant exceptions. The dominant CAs are rural roads, renewable energy, row crops and urban/rural development. The latter is likely due to discrepancies between the BLM's grazing allotment layer and the protected areas database. Note also that the available grazing data did not specify the status of each allotment (open, closed, retired, etc.) so all were treated as open. Change between the current and 2025 scenario is largely due to a wind renewable energy projects in eastern Nevada and the west desert of Utah. The geospatial layers and metadata that were turned in to BLM contain more detailed information on the types and location of development CA overlap. Figure D - 6 shows an image of the

grazing allotments with the landscape condition model to create a visual illustration of the potential degradation from development and invasive plants. The grazing allotments summarized by the landscape condition was not an assessment delivered to BLM but it could be readily created using data delivered by the contractor.

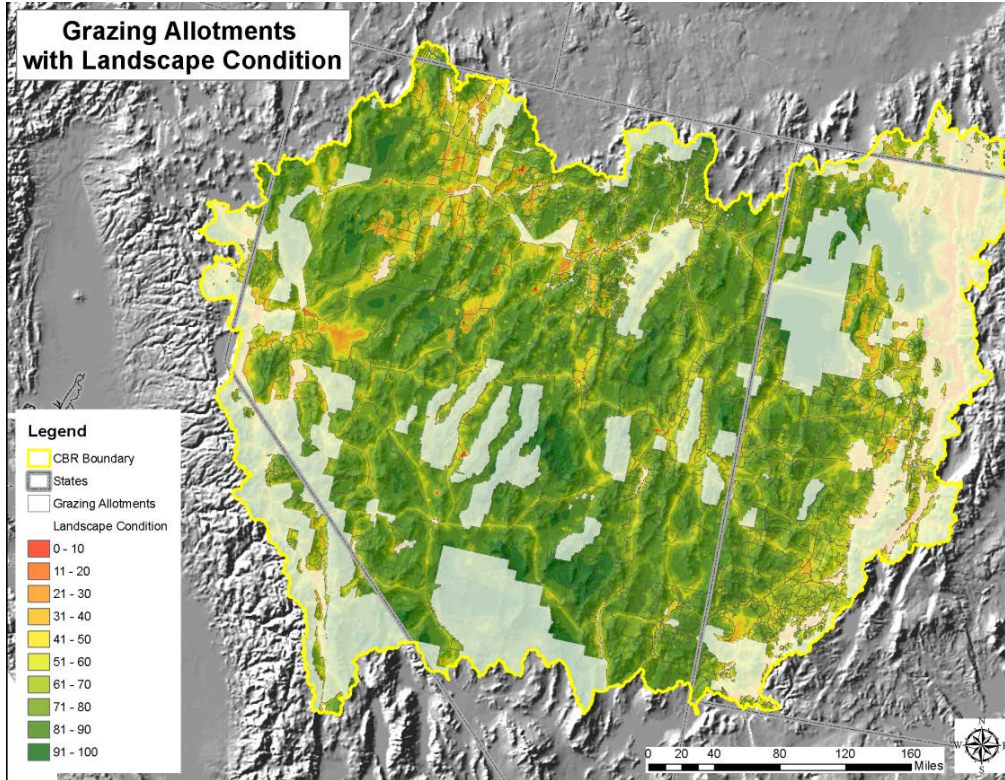


Figure D - 6. Location of GAs and relationship to "development" as represented by the landscape condition model. This map shows the full color ramp for the landscape condition model within GA boundaries; dark green indicates apparently unimpacted condition, red to dark orange apparently highly impacted.

Table D - 5. Acres and percent of development change agents by Grazing Allotment, 2010-2025

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
5778	BLACK ROCK WINTER	UT05778	9,937	414	4.17	8,299	83.52	79.35
4071	SANTA CLARA CR. CUST	UT04071	138	24	17.41	131	95.02	77.61
15087	DRY LAKES	UT15087	2,541	222	8.74	1,659	65.30	56.56
999	Out	UT00999	83	34	40.83	79	94.88	54.04
5102	NORTH HIGHWAY	UT05102	4,350	956	21.98	3,161	72.66	50.69
11029	Ely Springs	NV11029	57,849	1,366	2.36	29,640	51.24	48.88
5777	ANTELOPE POINT	UT05777	3,372	103	3.05	1,561	46.29	43.24
9999	East Lake	UT09999	877	401	45.70	695	79.21	33.51
5151	WINSOR	UT05151	208	20	9.62	86	41.36	31.74
4084	GRANTSVILLE SCS	UT04084	15,412	6,184	40.12	10,597	68.76	28.63
14047	SANTA CLARA CREEK	UT14047	317	23	7.26	111	35.06	27.79
5408	Burner Basin	NV05408	7,271	4,315	59.34	6,105	83.96	24.62
999	Out	UT00999	291	221	75.82	287	98.46	22.64
607	Pitchfork	CA00607	36	6	16.61	14	38.75	22.15
3049	Rock Springs	NV03049	42,193	3,329	7.89	12,396	29.38	21.49
999	OUT	UT00999	2,104	90	4.28	534	25.39	21.11
15018	BUTTE	UT15018	32,258	1,026	3.18	7,556	23.42	20.24
6213	WAH-WAH LAWSON	UT06213	35,434	2,655	7.49	8,672	24.47	16.98
5406	Bullion Road	NV05406	776	304	39.15	428	55.12	15.97
6120	HANSON	UT06120	37,207	1,469	3.95	7,404	19.90	15.95
14051	STOUT CUSTODIAL	UT14051	272	39	14.35	81	29.81	15.46
5786	BLACK ROCK SUMMER	UT05786	24,115	846	3.51	4,539	18.82	15.31
14027	HURRICANE	UT14027	1,870	320	17.11	604	32.29	15.18
14021	FORT PEARCE	UT14021	13,297	46	0.35	1,782	13.40	13.06
6104	MINERSVILLE NO. 4	UT06104	29,956	1,562	5.21	5,419	18.09	12.88
6106	MINERSVILLE NO. 6	UT06106	16,194	2,145	13.25	4,180	25.81	12.57
15093	HAMILTON FORT	UT15093	3,643	90	2.47	526	14.44	11.97
5037	KANE SPRING	UT05037	9,200	644	7.00	1,659	18.03	11.03
4071	SANTA CLARA CR. CUST	UT04071	477	63	13.21	114	23.90	10.69

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
15092	GREENS LAKE	UT15092	4,214	386	9.16	827	19.62	10.46
5406	Bullion Road	NV05406	1,403	336	23.95	481	34.28	10.33
5466	Ten Mile Creek	NV05466	261	6	2.29	33	12.62	10.33
2124	White Rock	NV02124	6,250	2,682	42.91	3,262	52.19	9.28
2104	Blue Basin	NV02104	338	24	7.09	55	16.26	9.16
4082	MIDDLE CANYON	UT04082	16,426	2,517	15.32	4,017	24.46	9.13
3601	Topaz	CA03601	210	58	27.59	77	36.63	9.04
999	Out	UT00999	136	0	0.00	12	8.80	8.80
1016	Jake's Creek	NV01016	137	50	36.41	62	45.15	8.74
5785	TWIN PEAKS	UT05785	217,773	5,443	2.50	22,129	10.16	7.66
5416	Elko Hills	NV05416	13,593	1,093	8.04	2,131	15.68	7.64
14042	SAND	UT14042	7,945	783	9.85	1,340	16.87	7.01
5420	Four Mile Canyon	NV05420	11,581	4,438	38.32	5,238	45.23	6.91
9999	Austin	UT09999	956	256	26.78	322	33.68	6.90
2131	East Fork Ffr	NV02131	159	20	12.55	31	19.45	6.90
999	Out	UT00999	571	477	83.48	516	90.31	6.83
3047	Plumas Station	NV03047	8,971	4,716	52.57	5,310	59.19	6.62
999	Out	UT00999	800	407	50.85	460	57.47	6.62
5466	Ten Mile Creek	NV05466	1,287	1,129	87.71	1,214	94.31	6.60
3542	Hangman	NV03542	433	80	18.47	108	24.93	6.46
14035	MOODY WASH	UT14035	701	124	17.69	169	24.11	6.42
4066	STOCKTON	UT04066	20,157	1,036	5.14	2,316	11.49	6.35
10052	Simpson Park	NV10052	97,652	1,441	1.48	7,528	7.71	6.23
14092	WARNER VALLEY	UT14092	1,276	240	18.81	316	24.77	5.96
9999	PARSON-MILLS	UT09999	963	86	8.93	143	14.85	5.92
3002	Bass Flats	NV03002	54,563	742	1.36	3,971	7.28	5.92
117	South Rochester	NV00117	254,749	7,341	2.88	22,311	8.76	5.88
14034	LITTLE PLAIN	UT14034	395	227	57.49	250	63.32	5.83
6061	Mono Settlement	CA06061	572	110	19.22	143	24.99	5.77
14045	SAND MOUNTAIN	UT14045	15,487	636	4.11	1,517	9.80	5.69
3006	Boyer Ranch	NV03006	127,167	5,026	3.95	12,156	9.56	5.61

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
2118	North Fork Group	NV02118	1,100	614	55.84	675	61.38	5.55
15084	CAVE	UT15084	292	14	4.80	30	10.28	5.48
3593	Wade Valley	NV03593	1,246	1,085	87.09	1,153	92.55	5.46
2101	Adobe Hills	NV02101	24,763	7,493	30.26	8,793	35.51	5.25
4173	Top Of Little Mountain	ID04173	733	616	84.03	654	89.21	5.18
15045	MEADOW SPRING	UT15045	1,196	46	3.85	106	8.86	5.02
14065	MAGOTSU	UT14065	3,050	489	16.03	642	21.05	5.02
4091	GENOLA HILL	UT04091	306	61	19.96	76	24.87	4.91
3583	Sand Canyon	NV03583	1,888	1,399	74.11	1,490	78.93	4.82
3014	Red Rock	NV03014	14,908	7,031	47.16	7,743	51.94	4.78
999	Out	UT00999	2,013	512	25.43	606	30.10	4.67
14023	GOULD RANCH	UT14023	673	151	22.44	182	27.05	4.61
5013	BENSON	UT05013	6,940	435	6.27	752	10.84	4.57
14019	DOME	UT14019	2,817	762	27.05	889	31.56	4.51
15090	FENTON	UT15090	6,245	747	11.96	1,028	16.46	4.50
9999	UNALLOTTED	UT09999	2,341	1,838	78.51	1,943	82.99	4.49
4344	Big Hill	ID04344	1,211	551	45.51	604	49.88	4.38
4075	DIAMOND VALLEY	UT04075	9,900	469	4.74	892	9.01	4.27
4523	TINTIC PASTURE	UT04523	1,709	44	2.57	117	6.85	4.27
513	Willow Creek Grade	CA00513	2,748	413	15.03	530	19.29	4.26
3543	Harvey Flat	NV03543	8,319	1,731	20.81	2,080	25.00	4.20
3547	Indian Creek	NV03547	1,386	285	20.56	342	24.67	4.11
3056	Wedekind	NV03056	47,680	37,832	79.35	39,759	83.39	4.04
605	Dotta	CA00605	152	7	4.61	13	8.57	3.96
3530	Duck Hill	NV03530	11,281	5,548	49.18	5,986	53.06	3.88
10111	Harmony	NV10111	2,458	658	26.77	752	30.59	3.82
15062	SALT LAKE	UT15062	7,625	192	2.52	481	6.31	3.79
3562	Millberry Canyon	NV03562	1,980	1,299	65.60	1,374	69.39	3.79
1038	Midas	NV01038	6,912	1,646	23.81	1,905	27.56	3.75
9999	WASHBURN	UT09999	1,103	24	2.18	65	5.90	3.72
999	Out	UT00999	965	134	13.89	168	17.41	3.52

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
614	Mcpherrin	CA00614	89	7	7.87	10	11.24	3.37
15046	MINE	UT15046	331	65	19.63	76	22.96	3.32
6105	MINERSVILLE NO. 5	UT06105	16,754	281	1.68	836	4.99	3.31
5485	Lds Ffr	NV05485	1,996	1,034	51.80	1,100	55.11	3.31
3513	Carson Plains/gold Hill	NV03513	49,158	17,716	36.04	19,318	39.30	3.26
99	Monte Cristo	NV00099	509,144	12,808	2.52	29,302	5.76	3.24
5466	Ten Mile Creek	NV05466	3,973	1,925	48.46	2,053	51.68	3.22
999	Out	UT00999	573	375	65.40	393	68.54	3.14
5406	Bullion Road	NV05406	5,585	1,466	26.25	1,640	29.36	3.12
10107	Thomas Creek	NV10107	27,176	7,778	28.62	8,617	31.71	3.09
3034	Jumbo	NV03034	36,847	9,888	26.84	11,012	29.89	3.05
6042	Ash Creek	CA06042	3,836	297	7.74	413	10.77	3.02
514	Rowland	CA00514	398	14	3.52	26	6.54	3.02
6107	MINERAL RANGE	UT06107	147,847	6,426	4.35	10,874	7.35	3.01
999	OUT	UT999	444	76	17.13	89	20.06	2.93
999	Out	UT00999	1,779	1,671	93.91	1,722	96.78	2.87
15057	PINTO CREEK	UT15057	2,618	576	22.00	651	24.87	2.86
14032	LAND HILL	UT14032	1,013	131	12.94	160	15.80	2.86
14057	WARNER RIDGE	UT14057	2,520	362	14.36	434	17.22	2.86
3050	Salt Wells	NV03050	45,293	880	1.94	2,135	4.71	2.77
5115	WEBSTER HILL	UT05115	1,121	35	3.12	66	5.89	2.77
21018	Comet	NV21018	21,179	8,285	39.12	8,866	41.86	2.74
19	ASH CREEK	UT00019	1,028	289	28.11	317	30.83	2.72
4083	OQUIRRH MTN - NORTH	UT04083	15,186	2,443	16.09	2,851	18.77	2.69
604	Magee	CA00604	1,162	40	3.44	71	6.11	2.67
6020	Little Round Valley	CA06020	1,843	438	23.77	487	26.43	2.66
3026	Hallelujah Junction	NV03026	15,460	3,710	24.00	4,121	26.66	2.66
9999	UNALLOTTED	UT09999	1,936	1,230	63.53	1,281	66.17	2.63
999	Out	UT00999	233	79	33.94	85	36.52	2.58
3053	Stockton Flat	NV03053	12,314	2,632	21.37	2,948	23.94	2.57
3224	Hot Creek	NV03224	1,968	404	20.53	454	23.07	2.54

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
3012	Constantia	NV03012	22,893	4,077	17.81	4,653	20.33	2.52
6045	Tobacco Flat	CA06045	603	166	27.53	181	30.02	2.49
510	North Fort Sage	CA00510	2,941	211	7.17	284	9.66	2.48
3541	Hackett Canyon	NV03541	8,949	1,105	12.35	1,326	14.82	2.47
5113	THIRD HOUSE FLAT	UT05113	1,396	337	24.14	371	26.57	2.44
15066	SHERRATT	UT15066	1,936	1,047	54.07	1,094	56.50	2.43
14011	CENTRAL	UT14011	3,177	376	11.84	452	14.23	2.39
6118	LUPHER FFR	OR06118	211	9	4.27	14	6.64	2.37
4009	BOX CANYON	UT04009	1,380	653	47.31	685	49.62	2.32
4085	ISO TRACT - WILLES	UT04085	43	24	55.50	25	57.82	2.31
3532	Eldorado	NV03532	15,834	5,252	33.17	5,616	35.47	2.30
3600	Wilson Canyon	NV03600	4,330	497	11.48	593	13.69	2.22
3526	Diamond Valley	NV03526	3,360	893	26.58	967	28.78	2.20
14012	CINDER MOUNTAIN	UT14012	3,091	670	21.68	737	23.84	2.17
3036	Lahontan	NV03036	97,994	19,232	19.63	21,354	21.79	2.17
999	Out	UT00999	2,644	9	0.34	65	2.46	2.12
42	Sand Pass	NV00042	39,898	3,597	9.02	4,431	11.11	2.09
10034	Oxford Reservoir	ID10034	48	24	50.03	25	52.11	2.08
3032	Horse Springs	NV03032	44,684	9,755	21.83	10,656	23.85	2.02
5105	SOUTH HIGHWAY	UT05105	549	9	1.64	20	3.64	2.00
5108	SUMMIT	UT05108	949	88	9.28	107	11.28	2.00
5407	Legarza Ffr	NV05407	305	150	49.23	156	51.20	1.97
999	Out	UT00999	210	18	8.57	22	10.48	1.90
615	Mello Canyon	CA00615	631	46	7.29	58	9.19	1.90
3506	Barney Riley	NV03506	3,126	1,084	34.67	1,143	36.56	1.89
4322	Leppy Hills	NV04322	56,568	5,256	9.29	6,309	11.15	1.86
137	Desert Queen	NV00137	716,262	133,552	18.65	146,827	20.50	1.85
14034	LITTLE PLAIN	UT14034	488	22	4.51	31	6.36	1.85
1061	Roadside	NV01061	1,110	118	10.63	138	12.44	1.80
5453	River	NV05453	2,664	600	22.52	648	24.32	1.80
5461	Shoshone	NV05461	1,845	114	6.18	147	7.97	1.79

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
15044	LOWER MEADOW	UT15044	1,971	346	17.56	381	19.33	1.78
5109	SUMMIT HIGHWAY	UT05109	338	27	7.98	33	9.75	1.77
5744	YUBA	UT05744	516	68	13.18	77	14.92	1.74
15078	BLACK POINT	UT15078	9,404	1,184	12.59	1,347	14.32	1.73
6100	PINE CREEK/INDIAN CREEK	UT06100	1,101	91	8.27	110	9.99	1.73
606	Dellera	CA00606	411	33	8.02	40	9.72	1.70
5116	WEST FORK	UT05116	15,881	2,046	12.88	2,314	14.57	1.69
1016	Jake's Creek	NV01016	179	98	54.73	101	56.41	1.68
10102	Sonoma	NV10102	40,522	13,763	33.96	14,438	35.63	1.67
5129	HAYSTACK MOUNTAIN	UT05129	6,687	210	3.14	320	4.79	1.64
149	Provo	NV00149	672	50	7.44	61	9.07	1.64
1717	MIDDLE HOLLOW	UT01717	865	29	3.35	43	4.97	1.62
3509	Buckeye	NV03509	182,463	50,578	27.72	53,530	29.34	1.62
6108	HENRICKS FFR	OR06108	1,001	156	15.59	172	17.19	1.60
5411	Cut Off	NV05411	63	15	23.68	16	25.26	1.58
2101	Adobe Hills	NV02101	8,874	2,302	25.94	2,442	27.52	1.58
4313	City	NV04313	2,275	946	41.58	981	43.12	1.54
3054	Truckee-virginia	NV03054	45,723	5,577	12.20	6,274	13.72	1.52
6108	NORTH CREEK	UT06108	5,609	424	7.56	509	9.07	1.52
3516	Central	NV03516	3,969	2,400	60.48	2,460	61.99	1.51
3041	Olinghouse	NV03041	34,644	3,164	9.13	3,682	10.63	1.50
4060	RUSH LAKE	UT04060	20,901	6,407	30.65	6,719	32.15	1.49
507	Butte Seeding	NV00507	1,511	30	1.99	52	3.44	1.46
6109	CASEY FFR	OR06109	619	25	4.04	34	5.49	1.45
9999	UNALLOTTED	UT09999	1,591	1,295	81.42	1,318	82.86	1.45
5461	Shoshone	NV05461	1,824	198	10.86	224	12.28	1.43
433	West Schell Bench	NV00433	50,279	13,316	26.48	14,030	27.90	1.42
6018	Hot Creek	CA06018	10,292	1,024	9.95	1,170	11.37	1.42
6025	Marble Creek	CA06025	17,858	2,302	12.89	2,555	14.31	1.42
5109	SUMMIT HIGHWAY	UT05109	852	56	6.58	68	7.99	1.41
6053	Lone Tree	CA06053	3,559	240	6.74	290	8.15	1.41

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
10048	Ruby Hill	NV10048	16,511	3,015	18.26	3,244	19.65	1.39
9999	Parowan Unalloted	UT09999	14,870	1,187	7.98	1,393	9.37	1.39
6076	Green Creek	CA06076	4,384	407	9.28	467	10.65	1.37
5709	CHICKEN CREEK	UT05709	1,043	164	15.73	178	17.07	1.34
4073	EAGLE	UT04073	2,087	105	5.03	133	6.37	1.34
3512	Carson Hill	NV03512	12,492	3,687	29.51	3,854	30.85	1.34
4217	Weston Canyon	ID04217	302	176	58.20	180	59.53	1.32
2139	Board Corral Ffr	NV02139	8,705	1,117	12.83	1,232	14.15	1.32
9999	PARSON-MILLS	UT09999	77	7	9.15	8	10.46	1.31
15035	JOEL SPRING	UT15035	5,145	832	16.17	899	17.47	1.30
3052	Spanishsprings/mustang	NV03052	32,692	3,192	9.76	3,616	11.06	1.30
6208	MILFORD CATTLE	UT06208	10,722	1,570	14.64	1,708	15.93	1.29
5100	LOWER SUMMIT CREEK	UT05100	3,963	250	6.31	301	7.59	1.29
3	Fort Mcdermitt	NV00003	19,672	2,652	13.48	2,905	14.77	1.29
4202	South Twin Lakes	ID04202	860	411	47.77	422	49.05	1.28
9999	UNALLOTTED	UT09999	4,003	864	21.59	915	22.86	1.27
4076	WEST MOUNTAIN	UT04076	9,139	872	9.54	988	10.81	1.27
215	SALLS MEADOW	UT00215	7,100	266	3.75	356	5.01	1.27
3572	Parker Butte	NV03572	35,073	3,444	9.82	3,884	11.07	1.25
1036	Highway	NV01036	4,252	376	8.84	429	10.09	1.25
6043	Chalk Bluff	CA06043	17,285	854	4.94	1,066	6.17	1.23
6057	Copper Mountain	CA06057	3,599	409	11.36	453	12.59	1.22
6074	Mormon Ranch	CA06074	3,322	123	3.70	163	4.91	1.20
3043	Paiute	NV03043	106,643	16,782	15.74	18,062	16.94	1.20
3552	Koch Ditch	NV03552	1,670	172	10.30	192	11.50	1.20
4327	Utah/nevada North	NV04327	70,533	2,852	4.04	3,696	5.24	1.20
6131	Juniper	ID06131	777	53	6.82	62	7.98	1.16
3587	Spring Gulch	NV03587	65,357	12,140	18.57	12,886	19.72	1.14
6079	East Crater Mountain	CA06079	6,235	590	9.46	661	10.60	1.14
5465	South Buckhorn	NV05465	7,881	1,116	14.16	1,205	15.29	1.13
6023	Blackmine	CA06023	1,699	119	7.00	138	8.12	1.12

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
3001	Antelope Mtn	NV03001	71,371	15,247	21.36	16,036	22.47	1.11
9999	JONES	UT09999	453	15	3.31	20	4.42	1.10
14048	SCARECROW PEAK	UT14048	3,006	156	5.19	188	6.25	1.06
999	OUT	UT00999	239,797	70,654	29.46	73,203	30.53	1.06
206	HUNT	UT00206	847	16	1.89	25	2.95	1.06
14036	MINERA WASH	UT14036	3,775	204	5.40	244	6.46	1.06
3573	Perry Spring-deadman	NV03573	73,330	9,192	12.54	9,958	13.58	1.04
4057	ONAQUI MOUNTAIN WEST	UT04057	26,971	2,461	9.12	2,742	10.17	1.04
4075	DIAMOND VALLEY	UT04075	2,033	66	3.25	87	4.28	1.03
14028	HURRICANE FAULT	UT14028	13,863	569	4.10	711	5.13	1.02
4203	Bear Creek Spring	ID04203	991	106	10.69	116	11.70	1.01
6106	MINERSVILLE NO. 6	UT06106	4,296	439	10.22	482	11.22	1.00
6110	LEE SPRINGS	UT06110	17,303	1,193	6.89	1,366	7.89	1.00
4512	NELSON	UT04512	8,853	314	3.55	402	4.54	0.99
3519	Clifton	NV03519	23,039	2,570	11.15	2,798	12.14	0.99
999	Out	UT00999	303	72	23.73	75	24.72	0.99
3011	Clifton Flat	NV03011	10,746	816	7.59	922	8.58	0.99
1016	Jake's Creek	NV01016	615	38	6.18	44	7.16	0.98
805	Mcqueen Flat	NV00805	11,694	1,095	9.36	1,209	10.34	0.97
6038	Bramlette	CA06038	40,121	3,420	8.52	3,806	9.49	0.96
4507	JENNY LIND	UT04507	9,613	1,488	15.48	1,580	16.44	0.96
6030	Chalfant Valley	CA06030	16,531	1,927	11.66	2,085	12.61	0.96
4055	MERCUR CAN-W. OPHIR	UT04055	42,577	4,333	10.18	4,739	11.13	0.95
6037	Symons	CA06037	3,898	283	7.26	320	8.21	0.95
6058	Dog Creek	CA06058	7,674	754	9.83	826	10.76	0.94
3529	Faye Canyon	NV03529	1,183	153	12.93	164	13.86	0.93
9999	Iron Mountain	UT09999	4,037	271	6.71	308	7.63	0.92
5466	Ten Mile Creek	NV05466	4,257	560	13.15	599	14.07	0.92
5404	Bottari	NV05404	2,855	248	8.69	274	9.60	0.91
4064	SOUTH CLOVER	UT04064	20,733	2,678	12.92	2,863	13.81	0.89
5011	Olancha Common	CA05011	15,592	714	4.58	853	5.47	0.89

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5147	SOUTH OF RR TRACKS	UT05147	11,672	989	8.47	1,093	9.36	0.89
5104	P HILL	UT05104	3,094	210	6.79	237	7.66	0.87
3222	Hd	NV03222	574	1	0.17	6	1.04	0.87
4330	Mapleton-1	IDO4330	804	14	1.74	21	2.61	0.87
5103	ORDER CANYON	UT05103	231	7	3.03	9	3.89	0.87
4072	EP CREEK	UT04072	4,278	312	7.29	349	8.16	0.86
3047	Plumas Station	NV03047	13,140	1,216	9.25	1,329	10.11	0.86
4342	Smiley	NV04342	10,732	660	6.15	752	7.01	0.86
3013	Copper Kettle	NV03013	101,784	1,106	1.09	1,974	1.94	0.85
15072	UPPER HORSE HOLLOW	UT15072	6,251	579	9.26	632	10.11	0.85
2104	Blue Basin	NV02104	7,451	165	2.21	228	3.06	0.85
2120	White Flats Ffr	NV02120	9,981	1,590	15.93	1,674	16.77	0.84
4088	TOQUERVILLE	UT04088	6,706	308	4.59	364	5.43	0.84
3223	Holborn	NV03223	4,327	114	2.63	150	3.47	0.83
10065	Nielson	NV10065	964	288	29.88	296	30.71	0.83
1080	Warm Spring	NV01080	1,447	50	3.45	62	4.28	0.83
4411	MILLS	UT04411	1,700	226	13.30	240	14.12	0.82
4136	SAND WASH CUSTODIAL	UT04136	4,861	328	6.75	368	7.57	0.82
5139	MODENA RESERVOIR	UT05139	5,276	506	9.59	549	10.41	0.82
75	Francisco	NV00075	18,138	2,375	13.09	2,522	13.90	0.81
9999	Unalloted	UT09999	6,666	2,463	36.95	2,517	37.76	0.81
15068	SWETT HILLS	UT15068	10,664	905	8.49	991	9.29	0.81
5024	EIGHT MILE HILLS	UT05024	5,088	92	1.81	133	2.61	0.81
1032	Twenty Five	NV01032	2,515	50	1.99	70	2.78	0.80
15040	LINDSAY MINE	UT15040	1,271	104	8.18	114	8.97	0.79
99	Magruder Mtn.	NV00099	674,860	13,208	1.96	18,492	2.74	0.78
10051	Shannon Station	NV10051	39,709	6,455	16.26	6,764	17.03	0.78
223	TWIST	UT00223	5,605	114	2.03	157	2.80	0.77
93	Razorback	NV00093	25,499	771	3.02	966	3.79	0.76
14099	Bear Creek Spring	ID14099	5,389	92	1.71	133	2.47	0.76
6111	GREENVILLE BENCH	UT06111	14,228	694	4.88	802	5.64	0.76

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1049	N-4/n-5	NV01049	41,596	5,093	12.24	5,408	13.00	0.76
5441	Ogilvie-orbe	NV05441	8,206	427	5.20	489	5.96	0.76
121	Dolly Hayden	NV00121	133,191	18,816	14.13	19,813	14.88	0.75
125	PRUESS LAKE	UT00125	2,559	3	0.12	22	0.86	0.74
103	Melody	NV00103	4,092	339	8.28	369	9.02	0.73
12	Rebel Creek	NV00012	6,864	797	11.61	847	12.34	0.73
5114	WATER CANYON	UT05114	2,889	35	1.21	56	1.94	0.73
15055	PERKINS	UT15055	3,865	145	3.75	173	4.48	0.72
6031	Poleta	CA06031	2,353	210	8.92	227	9.65	0.72
1731	WEST SIDE	UT01731	3,905	167	4.28	195	4.99	0.72
511	West Fort Sage	CA00511	10,480	334	3.19	409	3.90	0.72
10103	DEEP CREEK	NV10103	19,129	2,462	12.87	2,598	13.58	0.71
3230	Morgan Hill	NV03230	28,733	1,467	5.11	1,668	5.81	0.70
15002	BONE HOLLOW	UT15002	16,929	837	4.94	952	5.62	0.68
6212	FRISCO	UT06212	65,227	3,376	5.18	3,816	5.85	0.67
5110	BRAFFITS CREEK	UT05110	1,927	59	3.06	72	3.74	0.67
4306	Big Springs	NV04306	2,843	100	3.52	119	4.19	0.67
409	Bennett Creek	NV00409	1,509	109	7.22	119	7.88	0.66
6041	Jeffrey	CA06041	4,721	393	8.32	424	8.98	0.66
219	CANAL	UT00219	4,294	504	11.74	532	12.39	0.65
2126	Carlin Canyon Ffr	NV02126	3,085	297	9.63	317	10.28	0.65
9999	UNALLOTTED	UT09999	60,256	17,173	28.50	17,559	29.14	0.64
6110	STILL FFR	OR06110	3,296	393	11.92	414	12.56	0.64
422	Georgetown Ranch	NV00422	29,452	3,245	11.02	3,431	11.65	0.63
6100	PINE CREEK/INDIAN CREEK	UT06100	8,710	600	6.89	655	7.52	0.63
6059	Rancheria Gulch	CA06059	26,237	1,401	5.34	1,563	5.96	0.62
5046	BUCKSKIN	UT05046	9,274	1,549	16.70	1,606	17.32	0.61
22	Paradise Hill	NV00022	24,029	2,145	8.93	2,292	9.54	0.61
123	Sacramento Pass	NV00123	23,295	1,388	5.96	1,530	6.57	0.61
15093	HAMILTON FORT	UT15093	493	20	4.05	23	4.66	0.61
6116	SOUTH CREEK	UT06116	8,910	470	5.28	524	5.88	0.61

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411	Middle Steptoe	NV00411	3,697	139	3.76	161	4.35	0.60
144	Diamond S	NV00144	33,479	1,676	5.01	1,875	5.60	0.59
15034	JENSON	UT15034	3,231	150	4.64	169	5.23	0.59
46	Pueblo Mountaint	NV00046	36,605	2,741	7.49	2,955	8.07	0.58
6117	GALE	UT06117	1,372	137	9.98	145	10.56	0.58
4181	Johnson Reservoir	IDO4181	2,245	238	10.60	251	11.18	0.58
6050	Poverty Hills	CA06050	5,887	292	4.96	326	5.54	0.58
6101	MINERSVILLE NO. 1	UT06101	46,780	5,608	11.99	5,877	12.56	0.58
3008	Churchille Butte	NV03008	20,357	1,502	7.38	1,619	7.95	0.57
44	Asa Moore	NV00044	9,260	726	7.84	779	8.41	0.57
200	AURORA	UT00200	12,486	821	6.58	892	7.14	0.57
110	Pleasant Valley	NV00110	4,765	419	8.79	446	9.36	0.57
4521	WEST MONA	UT04521	15,913	556	3.49	646	4.06	0.57
5148	SUSC WINTER	UT05148	12,497	421	3.37	491	3.93	0.56
3212	Cedar Hill	NV03212	10,398	610	5.87	668	6.42	0.56
6024	Hammil Valley	CA06024	44,332	3,417	7.71	3,663	8.26	0.55
2104	Blue Basin	NV02104	2,527	88	3.48	102	4.04	0.55
4078	LAKE MT.-DAVIS	UT04078	3,250	192	5.91	210	6.46	0.55
11032	Grapevine	NV11032	34,160	384	1.12	573	1.68	0.55
4513	NEPHI BENCH	UT04513	2,001	51	2.55	62	3.10	0.55
UNK	UNK	UKUNK	6,549	391	5.97	427	6.52	0.55
4133	WELLS SPRING	UT04133	3,695	47	1.27	67	1.81	0.54
3222	Hd	NV03222	186	20	10.76	21	11.29	0.54
10125	Baker Creek	NV10125	58,720	3,594	6.12	3,909	6.66	0.54
14055	VEYO	UT14055	8,593	402	4.68	448	5.21	0.54
6065	Aristo Ranch	CA06065	763	11	1.44	15	1.97	0.52
4044	AJAX	UT04044	4,392	462	10.52	485	11.04	0.52
9999	UNALLOTTED	UT09999	1,914	909	47.50	919	48.02	0.52
26	Fort Scott	NV00026	578	40	6.92	43	7.43	0.52
3854	Devil's Hill	IDO3854	1,355	43	3.17	50	3.69	0.52
2145	North Buffalo (bm)	NV02145	97,036	7,577	7.81	8,071	8.32	0.51

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29	Indian Creek	NV00029	197	11	5.59	12	6.10	0.51
4189	Oxford Slough	ID04189	1,384	680	49.14	687	49.64	0.51
999	Out	UT00999	1,603	127	7.92	135	8.42	0.50
410	Big Indian Creek	NV00410	6,418	684	10.66	716	11.16	0.50
63	Millet Ranch	NV00063	1,204	205	17.02	211	17.52	0.50
3223	Holborn	NV03223	37,806	1,222	3.23	1,407	3.72	0.49
4404	FOOL CREEK RES. #2	UT04404	205	75	36.65	76	37.13	0.49
14102	BLACK RIDGE	UT14102	4,333	251	5.79	272	6.28	0.48
10056	Three Mile	NV10056	33,491	5,286	15.78	5,448	16.27	0.48
92	White Wolf	NV00092	62,914	4,307	6.85	4,610	7.33	0.48
4405	LYNNDYL	UT04405	14,460	40	0.28	109	0.75	0.48
6224	SOUTH PINE VALLEY	UT06224	12,600	456	3.62	516	4.10	0.48
3231	O'neil	NV03231	842	378	44.90	382	45.38	0.48
3026	Hallelujah Junction	NV03026	6,526	212	3.25	243	3.72	0.48
4246	Maple Creek	ID04246	422	40	9.49	42	9.96	0.47
823	Badger Springs	NV00823	33,755	496	1.47	656	1.94	0.47
6096	Stockton Creek-3	ID06096	847	255	30.12	259	30.59	0.47
10047	Romano	NV10047	96,335	17,045	17.69	17,499	18.16	0.47
4515	PAINT MINE	UT04515	3,822	101	2.64	119	3.11	0.47
10121	Bastian Creek	NV10121	13,816	5,618	40.66	5,683	41.13	0.47
10127	Willard Creek	NV10127	12,580	1,807	14.36	1,866	14.83	0.47
826	Giroux Wash	NV00826	58,017	4,255	7.33	4,527	7.80	0.47
5795	STOTT	UT05795	218	87	39.84	88	40.30	0.46
6118	WHITAKER	UT06118	27,139	3,008	11.08	3,132	11.54	0.46
5461	Shoshone	NV05461	4,181	211	5.05	230	5.50	0.45
1032	Twenty Five	NV01032	6,270	95	1.52	123	1.96	0.45
10006	Grass Valley	NV10006	289,496	6,997	2.42	8,286	2.86	0.45
15025	FIDDLERS CANYON	UT15025	226	33	14.60	34	15.04	0.44
3569	Ninemile	NV03569	22,624	445	1.97	544	2.40	0.44
224	DENMARK	UT00224	16,046	721	4.49	791	4.93	0.44
1018	Little Humboldt	NV01018	231	29	12.57	30	13.00	0.43

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21004	Simpson	NV21004	8,088	118	1.46	153	1.89	0.43
6091	Fox Hollow	ID06091	1,388	539	38.84	545	39.27	0.43
115	Prince Royal	NV00115	20,832	1,120	5.38	1,210	5.81	0.43
3214	Cottonwood	NV03214	232	35	15.10	36	15.53	0.43
1720	RIVER	UT01720	2,565	281	10.95	292	11.38	0.43
6017	GRASSY BASIN	OR06017	10,068	179	1.78	222	2.20	0.43
999	Out	UT00999	470	10	2.13	12	2.56	0.43
3545	Hudson Hills	NV03545	57,753	7,209	12.48	7,455	12.91	0.43
5759	VALLEY MOUNTAIN	UT05759	1,882	105	5.58	113	6.00	0.43
15060	RESERVOIR	UT1506*	4,951	434	8.77	455	9.19	0.42
5126	FLAT TOP	UT05126	472	2	0.42	4	0.85	0.42
20001	Argenta	NV20001	331,521	21,617	6.52	23,014	6.94	0.42
4047	BOULTER WASH	UT04047	50,853	3,354	6.60	3,567	7.01	0.42
6125	WET SANDY	UT06125	2,412	163	6.76	173	7.17	0.41
5478	Little Porter Ffr	NV05478	242	96	39.73	97	40.15	0.41
3531	East Walker	NV03531	27,152	1,604	5.91	1,716	6.32	0.41
15039	LEIGH LIVESTOCK	UT15039	13,979	440	3.15	497	3.56	0.41
14055	VEYO	UT14055	12,134	491	4.05	540	4.45	0.40
10090	Fish Lake Valley	NV10090	8,965	339	3.78	375	4.18	0.40
810	Douglas Point	NV00810	13,888	190	1.37	245	1.76	0.40
14070	Dry Creek	ID14070	1,768	114	6.45	121	6.84	0.40
21012	Buckhorn	NV21012	80,664	1,459	1.81	1,777	2.20	0.39
403	Cherry Creek	NV00403	173,205	8,947	5.17	9,620	5.55	0.39
3231	O'neil	NV03231	7,486	550	7.35	579	7.73	0.39
427	Copper Flat	NV00427	50,655	6,936	13.69	7,132	14.08	0.39
74	Smoky	NV00074	133,956	16,940	12.65	17,455	13.03	0.38
5027	IBAPAH	UT05027	52,254	3,289	6.29	3,489	6.68	0.38
3224	Hot Creek	NV03224	265	21	7.92	22	8.30	0.38
14054	TWIN PEAKS	UT14054	32,878	1,047	3.18	1,171	3.56	0.38
20117	Smith Creek	NV20117	75,866	5,581	7.36	5,867	7.73	0.38
416	Heusser Mountain	NV00416	36,620	3,592	9.81	3,730	10.19	0.38

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6209	SMITHSON	UT06209	29,461	1,445	4.90	1,555	5.28	0.37
14043	SAND COVE RESERVOIR	UT14043	1,609	40	2.49	46	2.86	0.37
15074	WEST HILLS	UT15074	4,563	53	1.16	70	1.53	0.37
129	Rodeo Creek	NV00129	196,569	8,019	4.08	8,751	4.45	0.37
5059	Oasis Ranch	CA05059	23,138	906	3.92	992	4.29	0.37
6046	Alabama Hills	CA06046	78,012	3,718	4.77	4,007	5.14	0.37
1055	Peck	NV01055	14,585	1,134	7.78	1,188	8.15	0.37
1725	SOUTH VALLEY	UT01725	20,789	678	3.26	754	3.63	0.37
4412	Rocky Peak	ID04412	4,414	429	9.72	445	10.08	0.36
2	Cordero	NV00002	6,373	461	7.23	484	7.59	0.36
15065	SEVY EAST	UT15065	555	86	15.51	88	15.87	0.36
93	Razorback	NV00093	239,681	8,829	3.68	9,691	4.04	0.36
1031	Tuscarora	NV01031	838	240	28.65	243	29.01	0.36
408	Whiteman Creek	NV00408	5,898	465	7.88	486	8.24	0.36
14033	LITTLE CREEK	UT14033	13,813	632	4.58	681	4.93	0.35
4025	EAST GRASSY	UT04025	18,926	484	2.56	551	2.91	0.35
1704	AXTELL	UT01704	849	61	7.19	64	7.54	0.35
20134	NORTH CHOKECHERRY	UT20134	1,138	92	8.08	96	8.44	0.35
68	Martin Creek	NV00068	8,376	392	4.68	421	5.03	0.35
6063	Dry Canyon	CA06063	1,445	22	1.52	27	1.87	0.35
14018	DESERT INN	UT14018	39,604	1,274	3.22	1,411	3.56	0.35
4250	South Twin Lakes Reservoir	ID04250	580	125	21.55	127	21.90	0.34
819	Wells Station	NV00819	13,925	290	2.08	338	2.43	0.34
4408	SMELTER MOUNTAIN	UT04408	74,341	2,015	2.71	2,271	3.05	0.34
4401	CHALK KNOLLS	UT04401	51,227	1,331	2.60	1,507	2.94	0.34
3216	Deeth	NV03216	2,370	695	29.32	703	29.66	0.34
6070	Little Mormon	CA06070	9,973	231	2.32	264	2.65	0.33
10018	O'toole Ranches	NV10018	32,262	2,307	7.15	2,413	7.48	0.33
999	OUT	UT00999	305	15	4.91	16	5.24	0.33
10020	Mount Airy	NV10020	84,547	4,210	4.98	4,486	5.31	0.33
5308	Silver King	NV05308	9,303	511	5.49	541	5.82	0.32

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999	Out	UT00999	5,959	122	2.05	141	2.37	0.32
21022	Lower Lake East	NV21022	52,550	673	1.28	839	1.60	0.32
5453	River	NV05453	4,465	73	1.63	87	1.95	0.31
4343	Snow Water Lake	NV04343	22,364	1,945	8.70	2,015	9.01	0.31
5150	UVADA	UT05150	5,437	113	2.08	130	2.39	0.31
10042	Kingston	NV10042	81,570	4,402	5.40	4,655	5.71	0.31
6028	Black Lake	CA06028	1,296	32	2.47	36	2.78	0.31
10060	Wildcat Canyon	NV10060	68,484	3,267	4.77	3,478	5.08	0.31
405	North Steptoe	NV00405	15,606	808	5.18	856	5.49	0.31
6080	Blind Spring	CA06080	6,841	612	8.95	633	9.25	0.31
6043	PUEBLO SLOUGH	OR06043	9,779	82	0.84	112	1.15	0.31
14073	Oneida Campground	ID14073	657	108	16.45	110	16.75	0.30
10023	San Juan	NV10023	82,415	10,639	12.91	10,890	13.21	0.30
137	Desert Queen	NV00137	297,750	13,635	4.58	14,541	4.88	0.30
817	Cove	NV00817	28,273	927	3.28	1,013	3.58	0.30
10032	Black Point	NV10032	70,882	8,149	11.50	8,364	11.80	0.30
3507	Black Mountain	NV03507	27,878	2,220	7.96	2,304	8.26	0.30
4068	VERNON	UT04068	2,993	535	17.88	544	18.18	0.30
10128	Scotty Meadows	NV10128	20,237	2,047	10.12	2,107	10.41	0.30
3017	Desert Mountain	NV03017	18,582	217	1.17	272	1.46	0.30
5433	Lds	NV05433	1,689	53	3.14	58	3.43	0.30
25033	PARTOUN	UT25033	86,997	3,972	4.57	4,229	4.86	0.30
7	Flat Creek	NV00007	32,208	3,706	11.51	3,801	11.80	0.29
10044	Chukar Ridge	ID10044	343	2	0.58	3	0.87	0.29
11027	Pahranagat East	NV11027	35,023	725	2.07	827	2.36	0.29
4311	Currie	NV04311	51,518	2,240	4.35	2,390	4.64	0.29
6027	Adobe Valley	CA06027	25,419	796	3.13	870	3.42	0.29
4023	ARAGONITE	UT04023	19,334	498	2.58	554	2.87	0.29
1041	Meadow Valley	NV01041	4,147	310	7.47	322	7.76	0.29
3539	Gray Hills	NV03539	132,587	7,522	5.67	7,903	5.96	0.29
2125	Wild Horse Group	NV02125	67,759	1,839	2.71	2,033	3.00	0.29

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
420	Step toe	NV00420	6,656	490	7.36	509	7.65	0.29
6101	WALDKIRCH FFR	OR06101	351	56	15.97	57	16.26	0.29
512	South Fort Sage	CA00512	3,158	29	0.92	38	1.20	0.28
507	East Bald Mountain	CA00507	2,812	30	1.07	38	1.35	0.28
4033	SKUNK RIDGE	UT04033	76,159	3,000	3.94	3,216	4.22	0.28
4501	BOULTER	UT04501	8,841	462	5.23	487	5.51	0.28
5062	Deep Springs Valley	CA05062	44,673	2,120	4.75	2,246	5.03	0.28
412	Duckcreek Flat	NV00412	37,336	3,012	8.07	3,117	8.35	0.28
106	Rye Patch	NV00106	67,216	3,219	4.79	3,408	5.07	0.28
222	MONROE CO-OP	UT00222	29,169	1,044	3.58	1,126	3.86	0.28
3012	Constantia	NV03012	12,207	52	0.43	86	0.70	0.28
11001	Fox Mountain	NV11001	73,429	2,211	3.01	2,414	3.29	0.28
417	Second Creek	NV00417	9,043	733	8.11	758	8.38	0.28
18	Andorno	NV00018	2,172	54	2.49	60	2.76	0.28
138	Humboldt Valley	NV00138	222,553	10,163	4.57	10,773	4.84	0.27
6007	Volcanic Tablelands	CA06007	47,152	1,139	2.42	1,268	2.69	0.27
5060	White Wolf	CA05060	14,270	407	2.85	446	3.13	0.27
504	South Butte	NV00504	27,830	903	3.24	979	3.52	0.27
6108	NORTH CREEK	UT06108	7,337	399	5.44	419	5.71	0.27
5779	CRICKETT	UT05779	101,783	2,786	2.74	3,062	3.01	0.27
4050	DESERET-RUSH VALLEY	UT04050	19,958	903	4.52	957	4.80	0.27
5099	LISTER-ROBINSON	UT05099	2,593	81	3.12	88	3.39	0.27
816	North Cove	NV00816	27,296	857	3.14	930	3.41	0.27
4355	West Gardner Ffr	NV04355	375	49	13.08	50	13.35	0.27
6226	NORTH PINE VALLEY	UT06226	39,009	1,453	3.72	1,557	3.99	0.27
901	Tamberlaine	NV00901	36,839	3,081	8.36	3,178	8.63	0.26
5129	HAYSTACK MOUNTAIN	UT05129	58,111	3,819	6.57	3,972	6.84	0.26
100	Sheep Mountain	NV00100	91,600	2,126	2.32	2,367	2.58	0.26
10057	Trail Canyon	NV10057	25,148	1,098	4.37	1,164	4.63	0.26
6103	MINERSVILLE NO. 3	UT06103	26,351	644	2.44	712	2.70	0.26
6204	WILLOW CREEK	UT06204	64,189	1,361	2.12	1,526	2.38	0.26

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415	Steptoe	NV00415	58,121	4,547	7.82	4,695	8.08	0.25
205	GYPSUM	UT00205	34,987	2,258	6.45	2,347	6.71	0.25
5479	Corta Ffr	NV05479	1,189	217	18.24	220	18.50	0.25
6113	LOWE CATTLE	UT06113	3,991	27	0.68	37	0.93	0.25
825	Willow Springs Addition	NV00825	400	41	10.24	42	10.49	0.25
5730	SAGE VALLEY #17	UT05730	7,632	461	6.04	480	6.29	0.25
15041	LIZZIES HILL	UT15041	10,091	120	1.19	145	1.44	0.25
4332	Ruby 1	NV04332	405	17	4.20	18	4.45	0.25
4000	PONY EXPRESS TRAIL	UT04000	51,799	3,073	5.93	3,201	6.18	0.25
41	Golconda Butte	NV00041	48,999	6,127	12.50	6,248	12.75	0.25
14048	SCARECROW PEAK	UT14048	75,766	875	1.15	1,062	1.40	0.25
3250	Canyon	NV03250	20,262	1,250	6.17	1,300	6.42	0.25
3238	Town Creek	NV03238	13,421	795	5.92	828	6.17	0.25
4516	ROCKY FORD	UT04516	9,355	728	7.78	751	8.03	0.25
10112	INDIAN GEORGE	NV10112	11,122	545	4.90	572	5.14	0.24
5797	BIG WASH	UT05797	4,946	179	3.62	191	3.86	0.24
15025	FIDDLERS CANYON	UT15025	1,239	33	2.66	36	2.91	0.24
1119	Cleveland Ranch	NV01119	16,749	3,686	22.01	3,726	22.25	0.24
11035	Highland Peak	NV11035	51,744	2,465	4.76	2,588	5.00	0.24
3058	White Hills	NV03058	27,411	301	1.10	366	1.34	0.24
6044	Long Valley	CA06044	13,092	784	5.99	815	6.23	0.24
14	Gallagher Flat	NV00014	37,788	906	2.40	995	2.63	0.24
3222	Hd	NV03222	67,164	1,498	2.23	1,656	2.47	0.24
3027	Hardscrabble Canyon	NV03027	13,642	440	3.23	472	3.46	0.23
808	Rock Canyon	NV00808	7,269	242	3.33	259	3.56	0.23
3218	Gamble Individual	NV03218	136,043	4,198	3.09	4,515	3.32	0.23
6004	Fish Slough	CA06004	4,293	668	15.56	678	15.79	0.23
811	Douglas Canyon	NV00811	15,043	477	3.17	512	3.40	0.23
4323	KNOLL SPRINGS	UT04323	44,228	2,261	5.11	2,362	5.34	0.23
3224	Hot Creek	NV03224	6,144	154	2.51	168	2.73	0.23
1081	Pahranagat West	NV01081	55,936	1,294	2.31	1,421	2.54	0.23

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803	Tom Plain	NV00803	81,079	2,381	2.94	2,565	3.16	0.23
104	Coal Canyon-poker	NV00104	176,150	9,061	5.14	9,460	5.37	0.23
109	Clear Creek	NV00109	67,610	2,621	3.88	2,774	4.10	0.23
6238	STATELINE	UT06238	40,631	1,034	2.54	1,125	2.77	0.22
16236	FAIRVIEW	UT16236	61,646	2,588	4.20	2,726	4.42	0.22
39	Iron Point	NV00039	26,820	1,670	6.23	1,730	6.45	0.22
10002	Copper Canyon	NV10002	107,536	9,194	8.55	9,434	8.77	0.22
4508	KIMBALL CREEK	UT04508	26,888	614	2.28	674	2.51	0.22
2118	North Fork Group	NV02118	178,172	4,279	2.40	4,675	2.62	0.22
4306	Big Springs	NV04306	67,059	1,865	2.78	2,014	3.00	0.22
6121	FOUR MILE	UT06121	14,043	794	5.65	825	5.87	0.22
611	France	CA00611	457	11	2.41	12	2.63	0.22
5047	RED BUTTE	UT05047	32,568	2,056	6.31	2,127	6.53	0.22
60	Sand Dunes	NV00060	167,439	5,301	3.17	5,663	3.38	0.22
10135	Mccoys Creek	NV10135	8,351	1,624	19.45	1,642	19.66	0.22
21014	Caliente	NV21014	1,858	280	15.07	284	15.29	0.22
910	Lake Area	NV00910	32,603	2,154	6.61	2,224	6.82	0.21
5045	DEATH CREEK	UT05045	13,116	1,442	10.99	1,470	11.21	0.21
1050	Oak Springs	NV01050	197,949	6,276	3.17	6,697	3.38	0.21
3231	O'neil	NV03231	9,876	423	4.28	444	4.50	0.21
4306	Big Springs	NV04306	60,259	2,077	3.45	2,205	3.66	0.21
1027	T Lazy S	NV01027	25,054	4,863	19.41	4,916	19.62	0.21
14030	JACKSON WASH	UT14030	33,396	537	1.61	607	1.82	0.21
5796	EAST ANTELOPE POINT	UT05796	19,169	703	3.67	743	3.88	0.21
6021	Shannon Canyon/Baker Creek	CA06021	8,178	1,480	18.10	1,497	18.30	0.21
21016	Cliff Springs	NV21016	37,019	838	2.26	914	2.47	0.21
5461	Shoshone	NV05461	1,952	94	4.82	98	5.02	0.20
10126	Majors	NV10126	103,533	6,968	6.73	7,180	6.93	0.20
15043	LOWE JONES	UT15043	4,395	16	0.36	25	0.57	0.20
503	Thirty Mile Spring	NV00503	188,872	6,370	3.37	6,755	3.58	0.20

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15022	DRY CANYON	UT15022	1,475	4	0.27	7	0.47	0.20
203	CHICKEN COOP	UT00203	2,468	75	3.04	80	3.24	0.20
91	Red Spring	NV00091	149,206	5,920	3.97	6,222	4.17	0.20
1040	Mahogany Peak	NV01040	27,687	556	2.01	612	2.21	0.20
10022	Tierney Creek	NV10022	7,419	505	6.81	520	7.01	0.20
6071	Bodie Mountain	CA06071	56,426	1,466	2.60	1,580	2.80	0.20
6003	Frazier Canyon	CA06003	8,425	257	3.05	274	3.25	0.20
43	Bloody Run	NV00043	68,949	3,990	5.79	4,129	5.99	0.20
15067	SILVER PEAK	UT15067	4,961	295	5.95	305	6.15	0.20
4310	Clover Creek Ffr	NV04310	1,496	227	15.18	230	15.38	0.20
4	Jordan Meadow	NV00004	107,728	2,171	2.02	2,387	2.22	0.20
4409	SUGARVILLE	UT04409	62,556	951	1.52	1,076	1.72	0.20
11008	South Hiko-six Mile	NV11008	29,573	982	3.32	1,041	3.52	0.20
6211	RED ROCK	UT06211	21,601	573	2.65	616	2.85	0.20
4058	OPHIR CANYON	UT04058	20,667	726	3.51	767	3.71	0.20
6201	COOK	UT06201	24,729	1,055	4.27	1,104	4.46	0.20
3536	Gillis Mountain	NV03536	162,212	3,454	2.13	3,775	2.33	0.20
5468	Tonka	NV05468	24,800	799	3.22	848	3.42	0.20
617	Evans	NV00617	7,628	1,362	17.86	1,377	18.05	0.20
5437	Merkley-zunino Sdg.	NV05437	2,562	184	7.18	189	7.38	0.20
4312	CLAY SPRINGS	UT04312	42,623	1,588	3.73	1,671	3.92	0.19
9999	UNALLOTTED	UT09999	25,170	2,062	8.19	2,111	8.39	0.19
1083	Delamar	NV01083	242,500	2,502	1.03	2,974	1.23	0.19
14007	BOOMER HILL	UT14007	4,631	53	1.14	62	1.34	0.19
10109	Mill Spring	NV10109	3,091	35	1.13	41	1.33	0.19
6021	PUEBLO MOUNTAIN	OR06021	8,791	231	2.63	248	2.82	0.19
3219	Pilot Valley	NV03219	94,275	3,712	3.94	3,894	4.13	0.19
1032	Twenty Five	NV01032	9,406	930	9.89	948	10.08	0.19
4348	Tobar	NV04348	38,459	2,483	6.46	2,556	6.65	0.19
10095	Ice House	NV10095	41,695	914	2.19	993	2.38	0.19
1010	Forest Moon	NV01010	117,527	3,534	3.01	3,756	3.20	0.19

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1021	Palisade	NV01021	21,183	1,131	5.34	1,171	5.53	0.19
4397	MORMON GAP	UT04397	52,631	1,686	3.20	1,785	3.39	0.19
19	Daveytown	NV00019	109,628	3,946	3.60	4,152	3.79	0.19
15020	DESERT	UT15020	14,958	367	2.45	395	2.64	0.19
38	Osgood	NV00038	85,534	8,675	10.14	8,835	10.33	0.19
3248	Valley Mountain	NV03248	78,542	2,466	3.14	2,612	3.33	0.19
15093	HAMILTON FORT	UT15093	545	11	2.02	12	2.20	0.18
5465	South Buckhorn	NV05465	20,310	568	2.80	605	2.98	0.18
1053	Panaca Cattle	NV01053	15,960	425	2.66	454	2.84	0.18
413	Gold Canyon	NV00413	23,674	794	3.35	837	3.54	0.18
15021	DICK PALMER WASH	UT15021	16,659	944	5.67	974	5.85	0.18
5421	Frost Creek	NV05421	11,158	358	3.21	378	3.39	0.18
999	OUT	UT00999	560	38	6.79	39	6.97	0.18
4310	Lower Oneida Narrows	ID04310	561	51	9.09	52	9.27	0.18
9999	SANPITCH	UT09999	561	73	13.01	74	13.18	0.18
407	Schellbourne	NV00407	17,985	925	5.14	957	5.32	0.18
6114	LONG HOLLOW CATTLE	UT06114	2,255	84	3.72	88	3.90	0.18
4035	SOUTH SKULL VALLEY	UT04035	137,063	8,178	5.97	8,417	6.14	0.17
1020	Mary's Mountain	NV01020	34,986	4,965	14.19	5,026	14.37	0.17
5051	DAIRY VALLEY	UT05051	27,634	1,201	4.35	1,249	4.52	0.17
6022	Wilfred Creek	CA06022	13,260	733	5.53	756	5.70	0.17
6102	MINERSVILLE NO. 2	UT06102	26,660	1,251	4.69	1,297	4.86	0.17
4330	Pilot	NV04330	156,089	5,333	3.42	5,602	3.59	0.17
14115	Twin Lakes Canal	ID14115	583	113	19.38	114	19.55	0.17
1032	Twenty Five	NV01032	588	81	13.78	82	13.95	0.17
4344	RAILROAD	UT04344	588	108	18.35	109	18.52	0.17
5156	STATELINE	UT05156	18,266	545	2.98	576	3.15	0.17
1016	Jake's Creek	NV01016	15,930	270	1.69	297	1.86	0.17
4067	TOPLIFT-VERNON HILL	UT04067	55,053	3,265	5.93	3,358	6.10	0.17
1082	White Hills	NV01082	2,371	38	1.60	42	1.77	0.17
15	Upper Quinn	NV00015	6,574	321	4.88	332	5.05	0.17

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14012	Webster Spring	ID14012	598	33	5.51	34	5.68	0.17
5423	Geyser	NV05423	102,937	4,714	4.58	4,886	4.75	0.17
4305	BAKER	UT04305	99,961	3,448	3.45	3,615	3.62	0.17
1719	RED CANYON	UT01719	10,884	352	3.23	370	3.40	0.17
118	Star Peak	NV00118	175,964	8,779	4.99	9,070	5.15	0.17
25031	BOYD STATION	UT25031	26,037	608	2.34	651	2.50	0.17
6224	SOUTH PINE VALLEY	UT06224	18,167	649	3.57	679	3.74	0.17
1032	Twenty Five	NV01032	120,306	1,474	1.23	1,672	1.39	0.16
4077	LAKE MOUNTAIN NORTH	UT04077	6,154	262	4.26	272	4.42	0.16
3535	Garfield Flat	NV03535	235,420	9,285	3.94	9,661	4.10	0.16
999	Out	UT00999	638	29	4.54	30	4.70	0.16
5132	INDIAN PEAK	UT05132	639	26	4.07	27	4.22	0.16
4333	Ruby 2	NV04333	642	18	2.81	19	2.96	0.16
5773	CALLAO BENCH	UT05773	19,953	830	4.16	861	4.32	0.16
5004	FREMONT	UT05004	22,704	618	2.72	653	2.88	0.15
3059	Winnemucca Ranch	NV03059	48,652	951	1.95	1,026	2.11	0.15
5009	ADAMS WELL	UT05009	23,417	342	1.46	378	1.61	0.15
4311	Currie	NV04311	102,909	4,297	4.18	4,454	4.33	0.15
905	Sheep Pass	NV00905	23,078	981	4.25	1,016	4.40	0.15
3010	Cleaver Peak	NV03010	40,431	697	1.72	758	1.87	0.15
2136	North Four Mile	NV02136	32,540	893	2.74	942	2.89	0.15
131	Ragged Top	NV00131	162,582	4,255	2.62	4,499	2.77	0.15
4049	TENMILE PASS	UT04049	13,995	1,311	9.37	1,332	9.52	0.15
11018	Batterman Wash	NV11018	41,477	1,324	3.19	1,386	3.34	0.15
999	Out	UT00999	671	17	2.54	18	2.68	0.15
5042	DRY CANYON	UT05042	13,412	201	1.50	221	1.65	0.15
5475	Willow	NV05475	8,089	899	11.11	911	11.26	0.15
18	Andorno	NV00018	8,124	264	3.25	276	3.40	0.15
5010	ANTELOPE	UT05010	2,032	216	10.63	219	10.78	0.15
1201	Wilson Creek	NV01201	1,071,657	35,279	3.29	36,857	3.44	0.15
5157	ROSEBUD	UT05157	13,611	495	3.64	515	3.78	0.15

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3247	Burnt Creek	NV03247	3,426	494	14.42	499	14.57	0.15
3500	Artesia	NV03500	15,773	1,437	9.11	1,460	9.26	0.15
2128	Mckinley Ffr	NV02128	59,756	1,858	3.11	1,945	3.25	0.15
5419	Merkley Ffr	NV05419	6,204	875	14.10	884	14.25	0.15
6012	East Daniels	ID06012	2,083	241	11.57	244	11.71	0.14
831	Brown Knoll	NV00831	11,158	518	4.64	534	4.79	0.14
4331	PAINTER SPRING	UT04331	6,278	79	1.26	88	1.40	0.14
5465	South Buckhorn	NV05465	699	55	7.87	56	8.02	0.14
4406	OAK CITY	UT04406	34,965	1,339	3.83	1,389	3.97	0.14
3222	Hd	NV03222	21,746	74	0.34	105	0.48	0.14
4343	DMAD	UT04343	1,404	207	14.74	209	14.88	0.14
3240	Wells	NV03240	11,983	698	5.82	715	5.97	0.14
4402	CHERRY CREEK	UT04402	68,436	1,087	1.59	1,183	1.73	0.14
10101	Becky Springs	NV10101	46,351	2,716	5.86	2,781	6.00	0.14
5775	DESERET	UT05775	317,316	12,082	3.81	12,526	3.95	0.14
31	Buttermilk	NV00031	28,604	782	2.73	822	2.87	0.14
116	Pumpnickel	NV00116	151,407	5,861	3.87	6,072	4.01	0.14
4306	Big Springs	NV04306	111,119	2,477	2.23	2,631	2.37	0.14
5787	SEELY	UT05787	51,261	1,144	2.23	1,215	2.37	0.14
21002	Ash Flat	NV21002	3,613	221	6.12	226	6.26	0.14
1087	Elgin (lower Riggs)	NV01087	27,491	710	2.58	748	2.72	0.14
11022	Hardy Springs	NV11022	125,650	3,599	2.86	3,771	3.00	0.14
21019	Condor Canyon	NV21019	45,299	1,681	3.71	1,743	3.85	0.14
5413	El Jiggs	NV05413	735	40	5.44	41	5.58	0.14
5793	MCCLINTOCK	UT05793	2,205	234	10.61	237	10.75	0.14
1057	Rabbit Spring	NV01057	20,767	732	3.52	760	3.66	0.13
27	Granite	NV00027	744	11	1.48	12	1.61	0.13
3246	Antelope Springs Ffr	NV03246	1,488	145	9.74	147	9.88	0.13
3574	Pilot-table Mountain	NV03574	551,551	13,746	2.49	14,485	2.63	0.13
5004	FREMONT	UT05004	65,498	1,636	2.50	1,723	2.63	0.13
1086	Pioche	NV01086	13,553	1,031	7.61	1,049	7.74	0.13

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
216	SAND LEDGE	UT00216	2,267	99	4.37	102	4.50	0.13
10114	Bassett Creek	NV10114	9,088	1,132	12.46	1,144	12.59	0.13
4506	GILSON	UT04506	22,248	432	1.94	461	2.07	0.13
5769	SUMMIT	UT05769	3,836	390	10.17	395	10.30	0.13
11	Lower Quinn	NV00011	7,698	449	5.83	459	5.96	0.13
902	White Rock	NV00902	28,610	864	3.02	901	3.15	0.13
20107	Tippett Pass	NV20107	81,305	2,382	2.93	2,486	3.06	0.13
6219	HARDPAN	UT06219	15,811	431	2.73	451	2.85	0.13
3231	O'neil	NV03231	797	67	8.41	68	8.53	0.13
10130	South Spring Valley	NV10130	84,624	5,567	6.58	5,673	6.70	0.13
6205	ANTELOPE PEAK	UT06205	57,486	1,699	2.96	1,771	3.08	0.13
15	Upper Quinn	NV00015	4,802	553	11.52	559	11.64	0.12
3020	Eastgate	NV03020	312,552	8,914	2.85	9,302	2.98	0.12
4029	NORTH CEDAR MT.	UT04029	61,276	1,517	2.48	1,593	2.60	0.12
21030	Ely Springs Sheep	NV21030	24,238	795	3.28	825	3.40	0.12
2113	Lone Mountain	NV02113	809	85	10.50	86	10.63	0.12
15047	MORTENSEN-HOLYOAK	UT15047	18,682	227	1.22	250	1.34	0.12
1722	ROUGH CANYON	UT01722	6,525	186	2.85	194	2.97	0.12
3228	Metropolis	NV03228	41,823	3,452	8.25	3,503	8.38	0.12
1727	TIMBER CANYON	UT01727	30,723	1,283	4.18	1,320	4.30	0.12
5702	SPRING CANYON	UT05702	9,208	599	6.50	610	6.62	0.12
1016	Jake's Creek	NV01016	838	5	0.60	6	0.72	0.12
203	CHICKEN COOP	UT00203	4,211	211	5.01	216	5.13	0.12
416	Heusser Mountain	NV00416	5,096	576	11.30	582	11.42	0.12
15025	FIDDLERS CANYON	UT15025	1,705	2	0.12	4	0.23	0.12
5744	YUBA	UT05744	1,706	155	9.08	157	9.20	0.12
6119	MILFORD BENCH	UT06119	11,976	1,243	10.38	1,257	10.50	0.12
94	Montezuma	NV00094	339,253	10,524	3.10	10,920	3.22	0.12
4024	DEAD MAN CREEK	UT04024	858	35	4.08	36	4.20	0.12
15048	NADA	UT15048	42,286	778	1.84	827	1.96	0.12
1034	White House	NV01034	20,731	2,191	10.57	2,215	10.68	0.12

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15094	HICKS CREEK	UT15094	2,592	37	1.43	40	1.54	0.12
4315	Barger Ffr	NV04315	870	85	9.77	86	9.89	0.11
806	Preston	NV00806	12,254	846	6.90	860	7.02	0.11
14015	CURLY HOLLOW	UT14015	28,055	123	0.44	155	0.55	0.11
6036	Adobe Lake	CA06036	3,521	372	10.57	376	10.68	0.11
5480	Cottonwood Ffr	NV05480	2,654	232	8.74	235	8.86	0.11
10054	Spanish Gulch	NV10054	7,124	74	1.04	82	1.15	0.11
4328	Odgers	NV04328	27,679	2,124	7.67	2,155	7.79	0.11
5735	STONE QUARRY	UT05735	4,467	262	5.87	267	5.98	0.11
1009	Eleven Mile Flat	NV01009	10,753	1,102	10.25	1,114	10.36	0.11
4056	ONAQUI MOUNTAIN EAST	UT04056	35,469	1,536	4.33	1,575	4.44	0.11
105	Goldbanks	NV00105	40,961	1,679	4.10	1,724	4.21	0.11
6040	Laws	CA06040	5,464	558	10.21	564	10.32	0.11
6225	SAND HOLLOW	UT06225	3,644	52	1.43	56	1.54	0.11
4400	BERYLLIUM	UT04400	11,895	788	6.62	801	6.73	0.11
5465	South Buckhorn	NV05465	5,533	451	8.15	457	8.26	0.11
804	Indian Jake	NV00804	48,894	1,190	2.43	1,243	2.54	0.11
14010	BULL MOUNTAIN	UT14010	13,922	75	0.54	90	0.65	0.11
10061	Willow Race Track	NV10061	932	82	8.79	83	8.90	0.11
127	Buffalo Hills	NV00127	472,834	13,162	2.78	13,669	2.89	0.11
829	Sheep Trail Seeding	NV00829	934	50	5.35	51	5.46	0.11
3201	Anderson Creek	NV03201	939	108	11.50	109	11.60	0.11
4305	Big Meadows	NV04305	15,972	1,516	9.49	1,533	9.60	0.11
3222	Hd	NV03222	43,303	844	1.95	890	2.06	0.11
4403	FOOL CREEK # 1	UT04403	945	77	8.15	78	8.26	0.11
23	Abel Creek	NV00023	10,392	357	3.44	368	3.54	0.11
6061	Stockton Creek-1	ID06061	8,632	795	9.21	804	9.31	0.10
1733	ANTELOPE VALLEY	UT01733	28,796	1,622	5.63	1,652	5.74	0.10
6034	Granite Mountain	CA06034	21,214	644	3.04	666	3.14	0.10
54	Pine Forest	NV00054	142,705	3,049	2.14	3,196	2.24	0.10
1029	Tall Corral	NV01029	1,944	197	10.13	199	10.24	0.10

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10036	Dry Creek	NV10036	4,865	422	8.67	427	8.78	0.10
4335	SMITH CREEK	UT04335	8,766	832	9.49	841	9.59	0.10
135	Blue Wing-seven Troughs Allotm	NV00135	1,376,282	27,814	2.02	29,218	2.12	0.10
5771	DEVILS KITCHEN	UT05771	28,470	680	2.39	709	2.49	0.10
5084	FISHER CREEK	UT05084	19,680	788	4.00	808	4.11	0.10
16	Antelope	NV00016	4,922	76	1.54	81	1.65	0.10
40	Scott Spring	NV00040	44,375	4,037	9.10	4,082	9.20	0.10
21024	Crossroads	NV21024	19,733	473	2.40	493	2.50	0.10
5483	Thomas Creek Ffr	NV05483	12,930	860	6.65	873	6.75	0.10
4346	Spruce	NV04346	525,376	16,289	3.10	16,815	3.20	0.10
6083	Aurora Canyon	CA06083	20,087	402	2.00	422	2.10	0.10
4505	GARRETT	UT04505	2,022	159	7.86	161	7.96	0.10
9	Willow Creek	NV00009	9,169	852	9.29	861	9.39	0.10
76	Ralston	NV00076	387,305	12,190	3.15	12,570	3.25	0.10
4042	WEST GRASSY	UT04042	52,099	1,167	2.24	1,218	2.34	0.10
4306	Big Springs	NV04306	219,339	6,858	3.13	7,072	3.22	0.10
6215	BEAVER LAKE	UT06215	71,901	2,214	3.08	2,284	3.18	0.10
47	Wilder-quinn	NV00047	210,052	8,714	4.15	8,918	4.25	0.10
5443	Palacio	NV05443	1,034	37	3.58	38	3.68	0.10
6055	Mono Mills	CA06055	34,180	708	2.07	741	2.17	0.10
5465	South Buckhorn	NV05465	1,037	48	4.63	49	4.72	0.10
21006	Bennett Spring	NV21006	48,852	1,413	2.89	1,460	2.99	0.10
4306	Big Springs	NV04306	1,043	57	5.46	58	5.56	0.10
15025	FIDDLERS CANYON	UT15025	1,044	75	7.18	76	7.28	0.10
4040	STANSBURY ISLAND SE	UT04040	1,049	96	9.15	97	9.25	0.10
5	U.c.	NV00005	50,618	1,248	2.47	1,296	2.56	0.09
24011	Treasureton Hill-2	ID24011	2,115	184	8.70	186	8.79	0.09
21001	Applewhite	NV21001	30,700	529	1.72	558	1.82	0.09
25029	CALLAO	UT25029	23,437	465	1.98	487	2.08	0.09
4501	BOULTER	UT04501	2,134	183	8.57	185	8.67	0.09
4299	BURBANK	UT04299	1,069	101	9.45	102	9.55	0.09

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4410	TOPAZ	UT04410	1,073	111	10.34	112	10.44	0.09
614	Monte Cristo	NV00614	6,453	501	7.76	507	7.86	0.09
16001	Curlew	ID16001	139,864	5,197	3.72	5,327	3.81	0.09
211	NORTH COVE MOUNTAIN	UT00211	16,157	878	5.43	893	5.53	0.09
14077	PINTURA	UT14077	2,157	143	6.63	145	6.72	0.09
15071	TUCKER POINT	UT15071	7,554	615	8.14	622	8.23	0.09
20015	Cottonwood	NV20015	110,119	8,660	7.86	8,762	7.96	0.09
1706	FLAT CANYON	UT01706	5,421	246	4.54	251	4.63	0.09
2112	Halleck Ffr	NV02112	17,467	221	1.27	237	1.36	0.09
3239	Trout Creek	NV03239	7,715	675	8.75	682	8.84	0.09
20	Long Canyon	NV00020	27,709	326	1.18	351	1.27	0.09
4046	CHIMNEY ROCK	UT04046	4,455	251	5.63	255	5.72	0.09
5413	El Jiggs	NV05413	1,116	19	1.70	20	1.79	0.09
1718	NORTH HOLLOW	UT01718	2,242	46	2.05	48	2.14	0.09
6072	Mono Sand Flat	CA06072	63,085	1,071	1.70	1,127	1.79	0.09
10131	Chokecherry	NV10131	34,953	2,818	8.06	2,849	8.15	0.09
3231	O'neil	NV03231	5,708	488	8.55	493	8.64	0.09
1014	Taylor Canyon	NV01014	3,431	69	2.01	72	2.10	0.09
10003	Carico Lake	NV10003	599,416	31,519	5.26	32,043	5.35	0.09
124	Klondike	NV00124	79,310	2,170	2.74	2,239	2.82	0.09
200	AURORA	UT00200	2,309	136	5.89	138	5.98	0.09
5422	Grindstone Mountain	NV05422	10,411	449	4.31	458	4.40	0.09
4332	GRABALT	UT04332	1,160	49	4.23	50	4.31	0.09
113	Humboldt Sink	NV00113	190,814	9,923	5.20	10,087	5.29	0.09
6112	STEWART	UT06112	10,530	164	1.56	173	1.64	0.09
10001	Washburn	NV10001	33,993	260	0.76	289	0.85	0.09
4519	SHEARING	UT04519	18,935	1,458	7.70	1,474	7.78	0.08
53	Coyote Hills	NV00053	39,168	958	2.45	991	2.53	0.08
1012	Horseshoe	NV01012	2,375	130	5.47	132	5.56	0.08
4337	Ruby 6	NV04337	16,731	1,282	7.66	1,296	7.75	0.08
1066	Sand Springs	NV01066	239,673	8,187	3.42	8,387	3.50	0.08

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1734	GUNNISON VALLEY	UT01734	9,594	456	4.75	464	4.84	0.08
4022	LONE ROCK	UT04022	32,583	970	2.98	997	3.06	0.08
5082	SHAW SPRING	UT05082	10,906	810	7.43	819	7.51	0.08
5063	South Oasis	CA05063	15,819	251	1.59	264	1.67	0.08
72	San Antone	NV00072	432,662	17,277	3.99	17,632	4.08	0.08
17	Buffalo	NV00017	3,662	55	1.50	58	1.58	0.08
4357	EAST FORK	UT04357	3,694	297	8.04	300	8.12	0.08
3231	O'neil	NV03231	1,242	61	4.91	62	4.99	0.08
5447	Pony Creek	NV05447	17,444	566	3.24	580	3.32	0.08
97	Silver Peak	NV00097	277,113	6,219	2.24	6,439	2.32	0.08
5054	KILGORE	UT05054	22,694	616	2.71	634	2.79	0.08
6015	Sawmill Creek	CA06015	3,782	192	5.08	195	5.16	0.08
140	Majuba	NV00140	280,286	6,488	2.31	6,709	2.39	0.08
21023	Sunnyside	NV21023	237,409	6,457	2.72	6,643	2.80	0.08
3021	Edwards Creek	NV03021	77,937	1,405	1.80	1,466	1.88	0.08
5414	Dixie Flats	NV05414	18,011	904	5.02	918	5.10	0.08
5118	BENNION SPRING	UT05118	6,453	464	7.19	469	7.27	0.08
1066	Sand Springs	NV01066	18,093	306	1.69	320	1.77	0.08
3042	Pah Rah	NV03042	5,173	363	7.02	367	7.09	0.08
5736	THE DRAW	UT05736	2,596	136	5.24	138	5.32	0.08
5472	Twin Creek South	NV05472	1,298	29	2.23	30	2.31	0.08
5774	SQUIDIKE	UT05774	42,863	2,003	4.67	2,036	4.75	0.08
10022	Washington Creek	NV10022	11,836	788	6.66	797	6.73	0.08
501	Medicine Butte	NV00501	310,943	10,993	3.54	11,229	3.61	0.08
419	Duckcreek Basin	NV00419	10,603	796	7.51	804	7.58	0.08
6002	South Stone	IDO6002	11,946	789	6.60	798	6.68	0.08
15042	LONG HOLLOW SHEEP	UT15042	9,356	294	3.14	301	3.22	0.07
1025	Squaw Valley	NV01025	1,338	66	4.93	67	5.01	0.07
74	Smoky	NV00074	2,690	140	5.20	142	5.28	0.07
701	Duckwater	NV00701	870,569	25,624	2.94	26,270	3.02	0.07
3007	Bucky O Neill	NV03007	36,577	901	2.46	928	2.54	0.07

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4304	Bennett Field	NV04304	2,717	176	6.48	178	6.55	0.07
4062	SALT MOUNTAIN	UT04062	28,555	1,761	6.17	1,782	6.24	0.07
25030	THOUSAND PEAKS	UT25030	384,434	8,660	2.25	8,941	2.33	0.07
5452	Red Rock	NV05452	4,123	239	5.80	242	5.87	0.07
112	Humboldt House	NV00112	60,647	4,043	6.67	4,087	6.74	0.07
5799	SCIPIO PASS	UT05799	1,382	98	7.09	99	7.16	0.07
5409	Chimney Creek	NV05409	2,772	117	4.22	119	4.29	0.07
10116	Taft Creek	NV10116	32,050	2,100	6.55	2,123	6.62	0.07
32	Hot Springs Peak	NV00032	54,566	1,395	2.56	1,434	2.63	0.07
61	Blue Mountain	NV00061	60,353	4,008	6.64	4,051	6.71	0.07
4353	TREASURE HILL	UT04353	1,406	109	7.75	110	7.82	0.07
10024	Clear Creek	NV10024	21,139	911	4.31	926	4.38	0.07
5434	Lindsay Creek	NV05434	11,337	794	7.00	802	7.07	0.07
6047	Red Mountain	CA06047	8,536	557	6.52	563	6.60	0.07
6230	BUCKHORN	UT06230	34,190	1,180	3.45	1,204	3.52	0.07
1032	Twenty Five	NV01032	292,451	3,393	1.16	3,598	1.23	0.07
15017	WILD HORSE	UT15017	52,913	832	1.57	869	1.64	0.07
5444	Pearl Creek	NV05444	1,436	96	6.68	97	6.75	0.07
5062	LUCIN PILOT	UT05062	242,787	4,155	1.71	4,324	1.78	0.07
3208	Black Butte	NV03208	51,786	3,269	6.31	3,305	6.38	0.07
4325	Moor Summit	NV04325	15,875	691	4.35	702	4.42	0.07
999	Out	UT00999	1,450	84	5.79	85	5.86	0.07
28	Solid Silver	NV00028	1,450	68	4.69	69	4.76	0.07
143	White Horse	NV00143	37,830	1,094	2.89	1,120	2.96	0.07
10118	Stephens Creek	NV10118	4,383	285	6.50	288	6.57	0.07
5456	Safford Canyon	NV05456	4,393	198	4.51	201	4.58	0.07
5401	Achurra Sdg.	NV05401	2,930	107	3.65	109	3.72	0.07
15014	BERGSTROM	UT15014	2,937	135	4.60	137	4.67	0.07
4511	MCINTYRE	UT04511	105,634	3,717	3.52	3,788	3.59	0.07
10058	Underwood	NV10058	19,420	71	0.37	84	0.43	0.07
4308	North Butte Valley	NV04308	4,493	337	7.50	340	7.57	0.07

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56	Happy Creek	NV00056	99,185	2,911	2.93	2,977	3.00	0.07
30	Mullanix	NV00030	1,512	61	4.03	62	4.10	0.07
6062	Travertine Hills	CA06062	10,594	85	0.80	92	0.87	0.07
421	Goat Ranch	NV00421	6,075	358	5.89	362	5.96	0.07
1073	Six Mile	NV01073	34,942	807	2.31	830	2.38	0.07
5431	Kennedy Seeding	NV05431	1,522	67	4.40	68	4.47	0.07
603	Cold Creek	NV00603	59,365	3,389	5.71	3,428	5.77	0.07
6051	Wells Meadow	CA06051	1,522	73	4.79	74	4.86	0.07
701	Twin Peaks	CA00701	406,934	5,875	1.44	6,141	1.51	0.07
4349	Warm Creek	NV04349	1,538	87	5.66	88	5.72	0.07
3231	Cottonwood	NV03231	1,540	62	4.03	63	4.09	0.06
1032	Twenty Five	NV01032	1,543	52	3.37	53	3.43	0.06
5415	East Fork	NV05415	16,979	422	2.49	433	2.55	0.06
10113	Meadow Creek	NV10113	9,330	624	6.69	630	6.75	0.06
4149	Glendale Peak	ID04149	1,579	61	3.86	62	3.93	0.06
6081	Casa Diablo	CA06081	3,163	156	4.93	158	4.99	0.06
1031	Tuscarora	NV01031	96,492	1,508	1.56	1,569	1.63	0.06
4317	Gordon Creek	NV04317	1,584	78	4.92	79	4.99	0.06
3231	O'neil	NV03231	3,208	156	4.86	158	4.93	0.06
5159	NEW HARMONY	UT05159	22,494	146	0.65	160	0.71	0.06
5023	SPOTTED FAWN	UT05023	37,008	175	0.47	198	0.54	0.06
5414	Dixie Flats	NV05414	3,225	179	5.55	181	5.61	0.06
4306	Big Springs	NV04306	16,211	909	5.61	919	5.67	0.06
5458	Sandhill South	NV05458	1,621	40	2.47	41	2.53	0.06
5119	BERYL	UT05119	3,247	198	6.10	200	6.16	0.06
4307	Boone Springs	NV04307	78,476	2,226	2.84	2,274	2.90	0.06
4050	DESERET-RUSH VALLEY	UT04050	4,912	262	5.33	265	5.40	0.06
3023	Fort Churchill	NV03023	14,753	821	5.57	830	5.63	0.06
3559	Marieta Burro Range	NV03559	67,256	1,794	2.67	1,835	2.73	0.06
5731	SALT CREEK	UT05731	1,643	52	3.16	53	3.23	0.06
5791	WALLACE	UT05791	1,653	129	7.80	130	7.86	0.06

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4334	Ruby 3	NV04334	4,994	216	4.33	219	4.39	0.06
5417	Emigrant Springs	NV05417	26,771	1,333	4.98	1,349	5.04	0.06
10034	North Diamond	NV10034	82,493	2,793	3.39	2,842	3.45	0.06
15050	NELSON	UT15050	1,684	38	2.26	39	2.32	0.06
902	White Rock	NV00902	47,454	2,389	5.03	2,417	5.09	0.06
4345	FOOL CREEK POINT	UT04345	1,702	101	5.93	102	5.99	0.06
5737	THE POINT	UT05737	1,705	138	8.09	139	8.15	0.06
33	Bullhead	NV00033	168,934	9,060	5.36	9,159	5.42	0.06
25004	MEADOW CREEK	UT25004	42,660	1,364	3.20	1,389	3.26	0.06
11004	Barclay	NV11004	81,989	1,860	2.27	1,908	2.33	0.06
1018	Little Humboldt	NV01018	1,713	69	4.03	70	4.09	0.06
5761	RED BUTTE	UT05761	5,177	236	4.56	239	4.62	0.06
9999	UNALOTTED	UT09999	5,180	318	6.14	321	6.20	0.06
810	Douglas Point	NV00810	8,640	492	5.69	497	5.75	0.06
35034	NORTH SCIPIO	UT35034	10,377	540	5.20	546	5.26	0.06
4351	DIAMOND SPRING	UT04351	10,497	593	5.65	599	5.71	0.06
5708	CEDAR SPRINGS	UT05708	1,750	78	4.46	79	4.51	0.06
827	Dark Peak	NV00827	21,090	1,101	5.22	1,113	5.28	0.06
99	Monitor	NV00099	87,910	2,937	3.34	2,987	3.40	0.06
9999	Out	UT09999	1,759	8	0.45	9	0.51	0.06
9999	UNALLOTTED	UT09999	1,767	61	3.45	62	3.51	0.06
5445	Pine Creek	NV05445	15,961	766	4.80	775	4.86	0.06
5783	HOLDEN SPRING	UT05783	3,556	155	4.36	157	4.41	0.06
25003	DESERT MOUNTAIN	UT25003	42,793	1,729	4.04	1,753	4.10	0.06
132	Cottonwood	NV00132	49,964	917	1.84	945	1.89	0.06
1005	Carlin Field	NV01005	23,284	535	2.30	548	2.35	0.06
606	Warm Springs	NV00606	336,722	17,203	5.11	17,391	5.16	0.06
606	Warm Springs	NV00606	19,716	1,057	5.36	1,068	5.42	0.06
4052	ELBERTA (WEST)	UT04052	7,177	357	4.97	361	5.03	0.06
20117	SMITH CREEK	NV20117	21,681	287	1.32	299	1.38	0.06
4346	Spruce	NV04346	21,729	1,084	4.99	1,096	5.04	0.06

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14025	GUNLOCK	UT1402*	7,266	157	2.16	161	2.22	0.06
830	East Wells	NV00830	3,637	150	4.12	152	4.18	0.05
5435	Little Porter	NV05435	3,648	140	3.84	142	3.89	0.05
5724	MIDDLE FORK	UT05724	5,476	274	5.00	277	5.06	0.05
6076	Stockton Creek-2	ID06076	3,658	169	4.62	171	4.67	0.05
5461	Shoshone	NV05461	1,829	49	2.68	50	2.73	0.05
11023	Crestline	NV11023	3,661	177	4.83	179	4.89	0.05
5465	South Buckhorn	NV05465	1,838	107	5.82	108	5.87	0.05
6008	Round Valley	CA06008	5,515	313	5.67	316	5.73	0.05
3237	Stormy	NV03237	5,519	211	3.82	214	3.88	0.05
4318	GANDY	UT04318	58,884	2,959	5.03	2,991	5.08	0.05
5088	SNOWVILLE	UT05088	88,360	2,115	2.39	2,163	2.45	0.05
3224	Hot Creek	NV03224	5,540	191	3.45	194	3.50	0.05
10041	Jd	NV10041	145,897	4,525	3.10	4,604	3.16	0.05
6360	Ridgedale	ID06360	5,551	238	4.29	241	4.34	0.05
5422	Grindstone Mountain	NV05422	1,853	40	2.16	41	2.21	0.05
1027	T Lazy S	NV01027	151,779	5,513	3.63	5,594	3.69	0.05
4301	Antelope Valley	NV04301	44,982	1,451	3.23	1,475	3.28	0.05
66	Bottle Creek	NV00066	139,395	4,994	3.58	5,068	3.64	0.05
424	Gilford Meadows	NV00424	5,661	300	5.30	303	5.35	0.05
1734	GUNNISON VALLEY	UT01734	11,407	462	4.05	468	4.10	0.05
15053	PAROWAN GAP	UT15053	13,346	528	3.96	535	4.01	0.05
5450	Browne	NV05450	1,918	107	5.58	108	5.63	0.05
1708	HAYES CANYON	UT01708	7,701	325	4.22	329	4.27	0.05
11017	Wildhorse	NV11017	23,107	500	2.16	512	2.22	0.05
5043	LYNN	UT05043	3,852	60	1.56	62	1.61	0.05
5003	BUCKSKIN MOUNTAIN	UT05003	5,795	273	4.71	276	4.76	0.05
5448	Potato Patch	NV05448	3,864	165	4.27	167	4.32	0.05
4318	Harrison	NV04318	7,728	411	5.32	415	5.37	0.05
10004	Austin	NV10004	245,183	6,195	2.53	6,321	2.58	0.05
15051	NORTE WELL	UT15051	9,783	169	1.73	174	1.78	0.05

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5090	SALT WELLS	UT05090	33,276	1,376	4.14	1,393	4.19	0.05
1012	Horseshoe	NV01012	3,928	166	4.23	168	4.28	0.05
3518	Churchill Canyon	NV03518	41,286	732	1.77	753	1.82	0.05
5069	THREE PEAKS	UT05069	5,923	242	4.09	245	4.14	0.05
4341	TINTIC JUNCTION	UT04341	1,974	168	8.51	169	8.56	0.05
4354	Wood Hills	NV04354	71,190	3,007	4.22	3,043	4.27	0.05
3231	O'neil	NV03231	1,979	41	2.07	42	2.12	0.05
802	Moorman Ranch	NV00802	136,706	3,756	2.75	3,825	2.80	0.05
5006	INDIAN SPRINGS	UT05006	27,816	1,228	4.41	1,242	4.47	0.05
114	Pleasant Valley	NV00114	185,289	4,986	2.69	5,079	2.74	0.05
5744	YUBA	UT05744	5,992	247	4.12	250	4.17	0.05
5426	Hog Tommy	NV05426	1,998	108	5.41	109	5.46	0.05
4027	LAKESIDE	UT04027	43,976	2,038	4.63	2,060	4.68	0.05
4357	Bear River-1	ID04357	3,998	160	4.00	162	4.05	0.05
1724	SOUTH HOLLOW	UT01724	2,001	59	2.95	60	3.00	0.05
122	D-x	NV00122	4,020	124	3.08	126	3.13	0.05
10043	Lucky C	NV10043	115,226	3,685	3.20	3,742	3.25	0.05
15049	NECK OF THE DESERT	UT15049	16,191	721	4.45	729	4.50	0.05
4336	Ruby 5	NV04336	16,213	736	4.54	744	4.59	0.05
6032	Sherwin	CA06032	2,035	57	2.80	58	2.85	0.05
120	Negro Creek	NV00120	34,958	1,569	4.49	1,586	4.54	0.05
5022	PINON FLAT	UT05022	18,664	692	3.71	701	3.76	0.05
1032	Twenty Five	NV01032	2,076	25	1.20	26	1.25	0.05
1053	Panaca Cattle	NV01053	4,160	111	2.67	113	2.72	0.05
4319	Hylton	NV04319	4,167	175	4.20	177	4.25	0.05
78	Hunts Canyon	NV00078	102,476	2,694	2.63	2,743	2.68	0.05
142	South Buffalo (bm)	NV00142	245,353	8,742	3.56	8,859	3.61	0.05
4312	Curtis Spring	NV04312	37,808	1,677	4.44	1,695	4.48	0.05
5741	WASHBOARD	UT05741	8,455	402	4.75	406	4.80	0.05
423	Duckcreek	NV00423	12,688	549	4.33	555	4.37	0.05
3009	Clan Alpine	NV03009	275,815	5,853	2.12	5,983	2.17	0.05

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3737	Winter Range CA	CA03737	10,634	110	1.03	115	1.08	0.05
4337	SWASEY KNOLL	UT04337	53,204	965	1.81	990	1.86	0.05
5131	HOLT MINE	UT05131	8,523	407	4.78	411	4.82	0.05
35005	DEATH CANYON	UT35005	68,188	2,916	4.28	2,948	4.32	0.05
2137	Steven's	NV02137	2,132	48	2.25	49	2.30	0.05
6019	West Crater Mountain	CA06019	6,397	269	4.21	272	4.25	0.05
2000	Evans Ffr	NV02000	36,396	570	1.57	587	1.61	0.05
5465	South Buckhorn	NV05465	6,432	248	3.86	251	3.90	0.05
201	BEAR VALLEY	UT00201	6,449	314	4.87	317	4.92	0.05
23	Abel Creek	NV00023	2,150	43	2.00	44	2.05	0.05
4045	ALLEN BASIN	UT04045	10,771	411	3.82	416	3.86	0.05
1101	Geyser Ranch	NV01101	247,746	9,629	3.89	9,744	3.93	0.05
4034	SKULL VALLEY	UT04034	254,369	5,771	2.27	5,889	2.32	0.05
4338	Ruby 7	NV04338	6,568	277	4.22	280	4.26	0.05
4352	West White Horse	NV04352	6,578	261	3.97	264	4.01	0.05
6206	SHAUNTIE	UT06206	24,124	968	4.01	979	4.06	0.05
10111	Harmony	NV10111	6,603	251	3.80	254	3.85	0.05
4502	FERNER DOG VALLEY	UT04502	15,442	641	4.15	648	4.20	0.05
4054	HILL SPRING	UT04054	2,211	73	3.30	74	3.35	0.05
5012	Lacey-Cactus-McCloud	CA05012	147,058	1,404	0.95	1,470	1.00	0.04
15064	SAND SPRING	UT15064	6,705	312	4.65	315	4.70	0.04
5409	Chimney Creek	NV05409	2,238	152	6.79	153	6.84	0.04
1018	Little Humboldt	NV01018	4,479	206	4.60	208	4.64	0.04
5440	Mitchell Creek	NV05440	4,485	171	3.81	173	3.86	0.04
1712	LITTLE VALLEY	UT01712	8,979	288	3.21	292	3.25	0.04
5464	South Fork Ffr	NV05464	2,256	86	3.81	87	3.86	0.04
6016	SANDHILLS	OR06016	18,147	71	0.39	79	0.44	0.04
6012	Zurich	CA06012	9,077	203	2.24	207	2.28	0.04
4080	LAKE MT - SMITH	UT04080	6,811	254	3.73	257	3.77	0.04
10105	Sampson Creek	NV10105	13,645	531	3.89	537	3.94	0.04
101	Rock Creek	NV00101	40,954	1,702	4.16	1,720	4.20	0.04

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6201	COOK	UT06201	27,391	821	3.00	833	3.04	0.04
5752	DUST BOWL	UT05752	6,852	329	4.80	332	4.85	0.04
4338	Ruby 7	NV04338	4,574	179	3.91	181	3.96	0.04
5076	DOVE CREEK	UT05076	57,551	2,264	3.93	2,289	3.98	0.04
3237	Stormy	NV03237	6,935	288	4.15	291	4.20	0.04
608	Newark	NV00608	270,672	10,092	3.73	10,209	3.77	0.04
607	Strawberry	NV00607	20,834	851	4.08	860	4.13	0.04
10055	Sweeney Wash	NV10055	6,994	230	3.29	233	3.33	0.04
1030	Quarter Circle S	NV01030	2,332	36	1.54	37	1.59	0.04
623	Silverado	NV00623	9,394	328	3.49	332	3.53	0.04
3561	Mickey Pass	NV03561	7,064	303	4.29	306	4.33	0.04
814	Six Mile Ranch	NV00814	2,355	133	5.65	134	5.69	0.04
73	Butterfield	NV00073	120,476	2,901	2.41	2,952	2.45	0.04
5053	ROSEBUD	UT05053	30,744	1,174	3.82	1,187	3.86	0.04
5765	SEVIER RIVER	UT05765	4,747	130	2.74	132	2.78	0.04
4308	HOLE-IN-THE-ROCK	UT04308	11,884	489	4.11	494	4.16	0.04
5440	Mitchell Creek	NV05440	2,378	91	3.83	92	3.87	0.04
5410	Corral Canyon	NV05410	2,385	118	4.95	119	4.99	0.04
4308	North Butte Valley	NV04308	14,445	477	3.30	483	3.34	0.04
406	Lovell Peak	NV00406	2,418	51	2.11	52	2.15	0.04
1085	Klondike	NV01085	7,259	302	4.16	305	4.20	0.04
5748	COVE	UT05748	4,845	176	3.63	178	3.67	0.04
3249	Jp	NV03249	14,544	485	3.33	491	3.38	0.04
35018	SPOR MOUNTAIN	UT35018	58,238	1,864	3.20	1,888	3.24	0.04
59	Desert Valley	NV00059	58,268	931	1.60	955	1.64	0.04
10045	Potts	NV10045	177,402	3,908	2.20	3,981	2.24	0.04
5465	South Buckhorn	NV05465	21,943	307	1.40	316	1.44	0.04
21026	Deer Lodge	NV21026	7,345	235	3.20	238	3.24	0.04
812	Big Six Well	NV00812	4,918	182	3.70	184	3.74	0.04
832	Swamp Cedar	NV00832	7,380	321	4.35	324	4.39	0.04
5403	Bellinger Seeding	NV05403	2,467	123	4.99	124	5.03	0.04

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5755	JUAB	UT05755	2,470	72	2.91	73	2.96	0.04
6084	Mount Biedeman	CA06084	4,953	99	2.00	101	2.04	0.04
2115	Mason Mountain	NV02115	2,484	85	3.42	86	3.46	0.04
1025	Squaw Valley	NV01025	2,485	42	1.69	43	1.73	0.04
5124	DELVECCHIO	UT05124	4,979	129	2.59	131	2.63	0.04
4308	North Butte Valley	NV04308	4,982	227	4.56	229	4.60	0.04
5457	Sandhill North	NV05457	2,491	70	2.81	71	2.85	0.04
3590	Sunrise	NV03590	19,975	57	0.29	65	0.33	0.04
4518	SHEEP ROCK	UT04518	25,113	942	3.75	952	3.79	0.04
6105	MINERSVILLE NO. 5	UT06105	7,536	314	4.17	317	4.21	0.04
3231	O'neil	NV03231	2,513	54	2.15	55	2.19	0.04
4065	SOUTH DESERET	UT04065	2,515	73	2.90	74	2.94	0.04
5411	Cut Off	NV05411	5,031	204	4.05	206	4.09	0.04
5720	LEVAN	UT05720	5,065	157	3.10	159	3.14	0.04
133	Hamlin Valley	NV00133	106,621	3,544	3.32	3,586	3.36	0.04
2102	Annie Creek	NV02102	2,543	29	1.14	30	1.18	0.04
4308	North Butte Valley	NV04308	2,551	155	6.08	156	6.12	0.04
4051	EAST ONAQUI R.C.A.	UT04051	10,209	411	4.03	415	4.07	0.04
83	Morey	NV00083	84,520	1,965	2.32	1,998	2.36	0.04
1709	HOP CREEK	UT01709	2,566	113	4.40	114	4.44	0.04
15039	LEIGH LIVESTOCK	UT15039	2,575	31	1.20	32	1.24	0.04
24	Singus	NV00024	2,577	88	3.41	89	3.45	0.04
613	Six Mile	NV00613	20,648	709	3.43	717	3.47	0.04
4342	LEAMINGTON PASS	UT04342	2,587	77	2.98	78	3.02	0.04
88	Nyala	NV00088	326,138	7,251	2.22	7,377	2.26	0.04
5439	Mineral Hill	NV05439	25,947	884	3.41	894	3.45	0.04
3248	Valley Mountain	NV03248	189,523	6,717	3.54	6,790	3.58	0.04
5005	SIXMILE	UT05005	18,223	651	3.57	658	3.61	0.04
5413	El Jiggs	NV05413	5,208	193	3.71	195	3.74	0.04
156	Blue Eagle	NV00156	44,335	1,487	3.35	1,504	3.39	0.04
4039	STANSBURY ISLAND SO.	UT04039	7,850	237	3.02	240	3.06	0.04

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3241	Westside	NV03241	7,880	257	3.26	260	3.30	0.04
4079	CHIPMAN	UT04079	2,635	35	1.33	36	1.37	0.04
3201	Anderson Creek	NV03201	5,271	127	2.41	129	2.45	0.04
9999	UNALLOTTED	UT09999	2,635	140	5.31	141	5.35	0.04
5026	CLIFTON	UT05026	26,367	218	0.83	228	0.86	0.04
10106	Tippett	NV10106	200,782	6,251	3.11	6,327	3.15	0.04
15081	STEER HOLLOW	UT15081	2,643	53	2.01	54	2.04	0.04
10046	Roberts Mountain	NV10046	166,773	3,559	2.13	3,622	2.17	0.04
5002	COTTONWOOD WEST	UT05002	10,604	316	2.98	320	3.02	0.04
5057	OWL SPRINGS	UT05057	34,489	918	2.66	931	2.70	0.04
3000	Adriance Valley	NV03000	21,250	788	3.71	796	3.75	0.04
4043	WEST LOOKOUT PASS	UT04043	18,705	661	3.53	668	3.57	0.04
1032	Twenty Five	NV01032	5,346	109	2.04	111	2.08	0.04
621	Maverick Springs	NV00621	5,354	198	3.70	200	3.74	0.04
5049	MUDDY CREEK	UT05049	48,207	1,302	2.70	1,320	2.74	0.04
2905	TILLY CREEK	UT02905	10,718	383	3.57	387	3.61	0.04
3237	Stormy	NV03237	2,683	136	5.07	137	5.11	0.04
5703	SAGE VALLEY #16	UT05703	5,366	186	3.47	188	3.50	0.04
10038	Fish Creek Ranch	NV10038	295,196	7,025	2.38	7,135	2.42	0.04
999	OUT	UT00999	8,056	252	3.13	255	3.17	0.04
4307	BUCKSKIN	UT04307	24,264	581	2.39	590	2.43	0.04
999	Out	UT00999	8,113	302	3.72	305	3.76	0.04
11024	Dry Farm	NV11024	32,479	1,137	3.50	1,149	3.54	0.04
15076	WILLOW SPRING	UT15076	2,724	172	6.32	173	6.35	0.04
11034	Henrie Complex	NV11034	169,144	1,740	1.03	1,802	1.07	0.04
3231	O'neil	NV03231	8,208	261	3.18	264	3.22	0.04
5789	STOTT-ROWLEY	UT05789	16,438	517	3.15	523	3.18	0.04
3231	O'neil	NV03231	8,222	251	3.05	254	3.09	0.04
5033	JACKRABBIT	UT05033	10,967	327	2.98	331	3.02	0.04
5782	BLACK POINT	UT05782	25,077	831	3.31	840	3.35	0.04
3505	Basalt	NV03505	27,871	908	3.26	918	3.29	0.04

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13	Sod House	NV00013	19,567	700	3.58	707	3.61	0.04
15015	BIG HOLLOW WASH	UT15015	8,394	287	3.42	290	3.46	0.04
404	Becky Creek	NV00404	14,086	454	3.22	459	3.26	0.04
3232	Pole Creek	NV03232	5,635	146	2.59	148	2.63	0.04
10071	lone	NV10071	196,244	6,334	3.23	6,403	3.26	0.04
3237	Stormy	NV03237	28,453	960	3.37	970	3.41	0.04
5135	LUND	UT05135	2,845	182	6.40	183	6.43	0.04
4313	CONGER SPRING	UT04313	74,028	2,106	2.84	2,132	2.88	0.04
5121	CHOKECHERRY CREEK	UT05121	8,542	226	2.65	229	2.68	0.04
5470	Twin Creek East	NV05470	2,860	54	1.89	55	1.92	0.03
11007	Black Canyon	NV11007	8,637	258	2.99	261	3.02	0.03
5752	DUST BOWL	UT05752	2,880	106	3.68	107	3.72	0.03
1018	Little Humboldt	NV01018	5,768	128	2.22	130	2.25	0.03
6365	Hansel Mountain	ID06365	5,770	161	2.79	163	2.82	0.03
5080	RUSH LAKE	UT05080	11,563	407	3.52	411	3.55	0.03
915	Connors Summit	NV00915	26,045	878	3.37	887	3.41	0.03
11009	White River	NV11009	5,793	113	1.95	115	1.99	0.03
58	Jackson Mountains	NV00058	363,024	8,011	2.21	8,136	2.24	0.03
4350	West Cherry Creek	NV04350	64,014	2,035	3.18	2,057	3.21	0.03
10104	Chin Creek	NV10104	148,638	4,409	2.97	4,460	3.00	0.03
20134	North Chokecherry	NV20134	8,745	288	3.29	291	3.33	0.03
5072	RED DOME	UT05072	34,995	1,080	3.09	1,092	3.12	0.03
3216	Deeth	NV03216	32,097	790	2.46	801	2.50	0.03
609	Dry Mountain	NV00609	32,149	1,012	3.15	1,023	3.18	0.03
1726	SWEDES CANYON	UT01726	2,932	35	1.19	36	1.23	0.03
4320	GRANITE	UT04320	32,408	657	2.03	668	2.06	0.03
10033	Corta	NV10033	2,947	83	2.82	84	2.85	0.03
3216	Deeth	NV03216	14,751	402	2.73	407	2.76	0.03
4517	RILEY SPRING	UT04517	5,917	186	3.14	188	3.18	0.03
3201	Anderson Creek	NV03201	8,885	312	3.51	315	3.55	0.03
2111	Fox Springs	NV02111	8,904	109	1.22	112	1.26	0.03

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
62	Willows Ranch	NV00062	53,433	1,716	3.21	1,734	3.25	0.03
3560	Mc Bride Flat	NV03560	2,979	130	4.36	131	4.40	0.03
4350	RATTLESNAKE PEAK	UT04350	2,979	92	3.09	93	3.12	0.03
5087	CURLEW JUNCTION	UT05087	5,961	220	3.69	222	3.72	0.03
10036	Dry Creek	NV10036	92,851	2,860	3.08	2,891	3.11	0.03
4357	EAST FORK	UT04357	5,999	233	3.88	235	3.92	0.03
5477	Willow Creek Pockets	NV05477	3,000	82	2.73	83	2.77	0.03
11031	Enterprise	NV11031	21,154	573	2.71	580	2.74	0.03
5471	Twin Creek North	NV05471	3,033	122	4.02	123	4.06	0.03
4325	LADY LAIRD	UT04325	72,851	1,915	2.63	1,939	2.66	0.03
3046	Phillips Well	NV03046	72,872	2,179	2.99	2,203	3.02	0.03
4509	LUNT	UT04509	6,095	206	3.38	208	3.41	0.03
5032	IRON SPRINGS	UT05032	12,253	361	2.95	365	2.98	0.03
5413	El Jiggs	NV05413	3,078	92	2.99	93	3.02	0.03
5018	COTTONWOOD EAST	UT05018	12,358	376	3.04	380	3.08	0.03
2113	Lone Mountain	NV02113	9,303	94	1.01	97	1.04	0.03
615	South Pancake	NV00615	34,142	1,019	2.98	1,030	3.02	0.03
10109	Mill Spring	NV10109	3,116	51	1.64	52	1.67	0.03
9999	SWEET WATER	UT09999	3,123	49	1.57	50	1.60	0.03
2108	Eagle Rock 1	NV02108	9,370	31	0.33	34	0.36	0.03
3235	Spratling	NV03235	6,252	198	3.17	200	3.20	0.03
1012	Horseshoe	NV01012	15,702	528	3.36	533	3.39	0.03
5438	Crane Springs	NV05438	25,169	729	2.90	737	2.93	0.03
20010	South Smith Creek	NV20010	151,652	3,692	2.43	3,740	2.47	0.03
3207	Bishop Flat	NV03207	6,343	198	3.12	200	3.15	0.03
818	Sorenson Well	NV00818	6,346	244	3.85	246	3.88	0.03
6082	George Creek	CA06082	3,190	73	2.29	74	2.32	0.03
3245	Dalton	NV03245	6,401	214	3.34	216	3.37	0.03
4302	Badlands	NV04302	19,221	578	3.01	584	3.04	0.03
48	Kings River	NV00048	73,817	625	0.85	648	0.88	0.03
57	Paiute Meadows	NV00057	173,627	2,666	1.54	2,720	1.57	0.03

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904	Cave Valley Ranch	NV00904	38,585	1,158	3.00	1,170	3.03	0.03
1011	Hadley	NV01011	45,092	1,287	2.85	1,301	2.89	0.03
4323	Maverick/ruby #9	NV04323	61,236	1,713	2.80	1,732	2.83	0.03
15007	TABLE MOUNTAIN	UT15007	58,110	922	1.59	940	1.62	0.03
1028	Crescent N-4	NV01028	61,473	865	1.41	884	1.44	0.03
3557	Lucky Boy	NV03557	25,980	752	2.89	760	2.93	0.03
5413	El Jiggs	NV05413	6,503	169	2.60	171	2.63	0.03
6213	WAH-WAH LAWSON	UT06213	32,569	966	2.97	976	3.00	0.03
5459	Scotts Gulch	NV05459	22,799	629	2.76	636	2.79	0.03
37	Eden Valley	NV00037	62,097	1,812	2.92	1,831	2.95	0.03
5413	El Jiggs	NV05413	9,808	269	2.74	272	2.77	0.03
4300	AMASA	UT04300	6,544	228	3.48	230	3.51	0.03
6202	BLUE MOUNTAIN	UT06202	16,363	461	2.82	466	2.85	0.03
909	Cold Spring	NV00909	13,102	433	3.30	437	3.34	0.03
15012	EAST TOPAZ	UT15012	32,772	868	2.65	878	2.68	0.03
1713	LONE CEDAR	UT01713	16,423	392	2.39	397	2.42	0.03
94	Unallocated to Livestock/livestock Closure Area	NV00094	39,674	984	2.48	996	2.51	0.03
401	Indian Creek	NV00401	3,313	51	1.54	52	1.57	0.03
11015	Cottonwood	NV11015	39,780	1,151	2.89	1,163	2.92	0.03
5142	PINE VALLEY	UT05142	6,650	143	2.15	145	2.18	0.03
2129	Adobe	NV02129	3,329	57	1.71	58	1.74	0.03
5001	GOVERNMENT CREEK	UT05001	50,218	1,357	2.70	1,372	2.73	0.03
5413	El Jiggs	NV05413	13,484	339	2.51	343	2.54	0.03
5473	Union Mountain	NV05473	23,618	671	2.84	678	2.87	0.03
2103	Beaver Creek	NV02103	33,797	168	0.50	178	0.53	0.03
1029	Tall Corral	NV01029	3,389	45	1.33	46	1.36	0.03
10103	Deep Creek	NV10103	23,772	628	2.64	635	2.67	0.03
3024	Frenchman Flat	NV03024	68,085	1,876	2.76	1,896	2.78	0.03
20026	Stewart Springs	NV20026	17,050	394	2.31	399	2.34	0.03
82	Stone Cabin	NV00082	396,258	9,603	2.42	9,719	2.45	0.03

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148	Jersey Valley	NV00148	68,324	1,904	2.79	1,924	2.82	0.03
4412	SABIE MOUNTAIN	UT04412	17,089	396	2.32	401	2.35	0.03
11016	Needles	NV11016	85,498	2,374	2.78	2,399	2.81	0.03
2117	Mexican Field	NV02117	3,423	58	1.69	59	1.72	0.03
4316	DEADMAN WASH	UT04316	58,216	1,554	2.67	1,571	2.70	0.03
999	Out	UT00999	10,279	263	2.56	266	2.59	0.03
10129	Willow Springs	NV10129	85,708	2,339	2.73	2,364	2.76	0.03
5465	South Buckhorn	NV05465	216,102	4,548	2.10	4,611	2.13	0.03
1011	Hadley	NV01011	51,549	954	1.85	969	1.88	0.03
4306	Big Springs	NV04306	3,445	98	2.84	99	2.87	0.03
5731	SALT CREEK	UT05731	6,895	188	2.73	190	2.76	0.03
603	Cold Creek	NV00603	10,456	305	2.92	308	2.95	0.03
5011	ANTELOPE SPRING	UT05011	6,971	174	2.50	176	2.52	0.03
11012	Pine Creek	NV11012	34,869	932	2.67	942	2.70	0.03
3018	Dixie Valley	NV03018	306,870	5,581	1.82	5,669	1.85	0.03
1705	FAYETTE CATTLE	UT01705	14,048	373	2.66	377	2.68	0.03
1025	Squaw Valley	NV01025	63,785	1,598	2.51	1,616	2.53	0.03
1016	Jake's Creek	NV01016	35,458	972	2.74	982	2.77	0.03
3216	Deeth	NV03216	31,999	475	1.48	484	1.51	0.03
1721	ROCK CANYON	UT01721	10,680	255	2.39	258	2.42	0.03
21011	Buckboard Spring	NV21011	10,687	227	2.12	230	2.15	0.03
1065	Garden Spring	NV01065	39,209	1,048	2.67	1,059	2.70	0.03
1016	Jake's Creek	NV01016	7,145	196	2.74	198	2.77	0.03
3105	COWBOY PASS	UT03105	46,571	1,185	2.54	1,198	2.57	0.03
5440	Mitchell Creek	NV05440	7,174	131	1.83	133	1.85	0.03
4061	ST JOHN	UT04061	7,200	201	2.79	203	2.82	0.03
4323	Maveric/ruby #9	NV04323	14,452	407	2.82	411	2.84	0.03
84	Hot Creek	NV00084	155,677	3,471	2.23	3,514	2.26	0.03
6361	East Holbrook	IDO6361	7,253	226	3.12	228	3.14	0.03
4028	LOST CREEK	UT04028	3,635	21	0.58	22	0.61	0.03
4321	Lead Hills	NV04321	80,164	1,929	2.41	1,951	2.43	0.03

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5058	U AND I	UT05058	32,806	848	2.58	857	2.61	0.03
20101	Yellow Hills	NV20101	10,958	270	2.46	273	2.49	0.03
10013	Porter Canyon	NV10013	138,852	3,492	2.51	3,530	2.54	0.03
5465	South Buckhorn	NV05465	3,669	84	2.29	85	2.32	0.03
3515	Cedar Mountain	NV03515	55,103	1,379	2.50	1,394	2.53	0.03
6220	VOORHEES	UT06220	25,715	590	2.29	597	2.32	0.03
5093	CONNER	UT05093	7,366	223	3.03	225	3.05	0.03
4048	BROAD CANYON	UT04048	11,106	251	2.26	254	2.29	0.03
3035	La Beau Flat	NV03035	197,263	4,852	2.46	4,905	2.49	0.03
3237	Stormy	NV03237	11,171	270	2.42	273	2.44	0.03
2135	South Four Mile	NV02135	3,746	66	1.76	67	1.79	0.03
64	Three Bars	NV00064	78,767	1,813	2.30	1,834	2.33	0.03
5133	JACKSON WASH	UT05133	26,338	623	2.37	630	2.39	0.03
5073	SELMAN	UT05073	34,031	775	2.28	784	2.30	0.03
601	Railroad Pass	NV00601	30,286	693	2.29	701	2.31	0.03
5446	Pine Mountain	NV05446	15,185	342	2.25	346	2.28	0.03
21015	Clover Creek	NV21015	22,786	485	2.13	491	2.15	0.03
119	Rawhide	NV00119	153,599	3,746	2.44	3,786	2.46	0.03
15016	BULLOCH	UT15016	27,134	619	2.28	626	2.31	0.03
1058	Rattlesnake	NV01058	34,949	812	2.32	821	2.35	0.03
3206	Bishop Creek	NV03206	7,771	160	2.06	162	2.08	0.03
4311	CRYSTAL PEAK	UT04311	23,328	523	2.24	529	2.27	0.03
10049	Santa Fe/ferguson	NV10049	85,591	2,040	2.38	2,062	2.41	0.03
5465	South Buckhorn	NV05465	3,894	110	2.82	111	2.85	0.03
418	Gallagher Gap	NV00418	3,900	147	3.77	148	3.79	0.03
3218	Gamble Individual	NV03218	15,632	436	2.79	440	2.81	0.03
3237	Stormy	NV03237	19,600	458	2.34	463	2.36	0.03
3222	Hd	NV03222	3,922	77	1.96	78	1.99	0.03
6033	Tinemaha	CA06033	3,927	91	2.32	92	2.34	0.03
10031	Arambel	NV10031	47,166	1,006	2.13	1,018	2.16	0.03
3511	Bellville	NV03511	149,913	3,237	2.16	3,275	2.18	0.03

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3201	Anderson Creek	NV03201	3,963	182	4.59	183	4.62	0.03
704	Deep Cut	CA00704	63,478	272	0.43	288	0.45	0.03
4347	Sugarloaf	NV04347	23,864	590	2.47	596	2.50	0.03
20111	Muncy Creek	NV20111	211,425	4,857	2.30	4,910	2.32	0.03
3504	Bagley Valley	NV03504	7,988	161	2.02	163	2.04	0.03
3580	Rawe Peak	NV03580	7,991	235	2.94	237	2.97	0.03
3242	Mud Springs	NV03242	3,996	104	2.60	105	2.63	0.03
5133	JACKSON WASH	UT05133	15,985	363	2.27	367	2.30	0.03
15035	JOEL SPRING	UT15035	19,994	416	2.08	421	2.11	0.03
6109	BALD HILLS	UT06109	16,030	340	2.12	344	2.15	0.02
5446	Pine Mountain	NV05446	16,072	292	1.82	296	1.84	0.02
10039	Flynn/parman	NV10039	28,131	632	2.25	639	2.27	0.02
5402	Barnes Seeding	NV05402	4,020	123	3.06	124	3.08	0.02
6219	HARDPAN	UT06219	12,079	224	1.85	227	1.88	0.02
11033	Haypress	NV11033	8,060	178	2.21	180	2.23	0.02
4314	DOME CANYON	UT04314	36,334	906	2.49	915	2.52	0.02
6222	WATER HOLLOW	UT06222	32,301	763	2.36	771	2.39	0.02
3216	Deeth	NV03216	8,081	145	1.79	147	1.82	0.02
5790	WHEELER	UT05790	20,220	495	2.45	500	2.47	0.02
85	Reveille	NV00085	659,388	11,336	1.72	11,499	1.74	0.02
81	Willow Creek	NV00081	12,163	275	2.26	278	2.29	0.02
4338	SKUNK SPRINGS	UT04338	40,588	868	2.14	878	2.16	0.02
4336	STEAMBOAT	UT04336	48,762	1,035	2.12	1,047	2.15	0.02
4353	White Horse	NV04353	61,329	1,340	2.18	1,355	2.21	0.02
10086	Sand Springs	NV10086	197,458	4,356	2.21	4,404	2.23	0.02
1062	Crescent N-5	NV01062	37,057	888	2.40	897	2.42	0.02
5158	BUTCHER	UT05158	8,235	206	2.50	208	2.53	0.02
4031	NORTH PUDDLE VALLEY	UT04031	82,418	1,884	2.29	1,904	2.31	0.02
1078	White Rock	NV01078	32,983	747	2.26	755	2.29	0.02
5781	COATES	UT05781	20,633	429	2.08	434	2.10	0.02
4340	TULE SPRING	UT04340	16,542	409	2.47	413	2.50	0.02

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5079	BLACK ROCK	UT05079	8,287	190	2.29	192	2.32	0.02
3598	Wheeler Flat	NV03598	8,329	180	2.16	182	2.19	0.02
621	Maverick Springs	NV00621	41,668	888	2.13	898	2.16	0.02
5076	DOVE CREEK	UT05076	8,334	133	1.60	135	1.62	0.02
48	Kings River	NV00048	79,199	1,127	1.42	1,146	1.45	0.02
5155	ATCHISON CREEK	UT05155	37,675	904	2.40	913	2.42	0.02
4327	Utah/nevada South	NV04327	37,682	836	2.22	845	2.24	0.02
3237	Stormy	NV03237	4,187	124	2.96	125	2.99	0.02
5122	COUNTY LINE	UT05122	4,190	98	2.34	99	2.36	0.02
3231	O'neil	NV03231	12,616	312	2.47	315	2.50	0.02
4398	PINE VALLEY	UT04398	46,438	1,003	2.16	1,014	2.18	0.02
3237	Stormy	NV03237	4,233	74	1.75	75	1.77	0.02
5452	Red Rock	NV05452	63,551	1,359	2.14	1,374	2.16	0.02
5132	INDIAN PEAK	UT05132	80,609	1,701	2.11	1,720	2.13	0.02
4311	CRYSTAL PEAK	UT04311	55,265	1,180	2.14	1,193	2.16	0.02
5429	Indian Springs	NV05429	34,084	420	1.23	428	1.26	0.02
5784	HOLDEN WINTER	UT05784	38,641	818	2.12	827	2.14	0.02
14016	DAGGET FLAT	UT14016	4,294	82	1.91	83	1.93	0.02
209	LOST CREEK	UT00209	4,295	87	2.03	88	2.05	0.02
4094	TIMPIE-N W GRANTSVIL	UT04094	8,664	210	2.42	212	2.45	0.02
1070	Sheep Spring	NV01070	30,367	629	2.07	636	2.09	0.02
4314	Ferber Flat	NV04314	21,705	484	2.23	489	2.25	0.02
999	Out	UT00999	4,344	147	3.38	148	3.41	0.02
3223	Holborn	NV03223	4,360	42	0.96	43	0.99	0.02
15054	PAROWAN STAKE	UT15054	4,370	74	1.69	75	1.72	0.02
3237	Stormy	NV03237	4,370	137	3.14	138	3.16	0.02
6219	HARDPAN	UT06219	17,560	341	1.94	345	1.96	0.02
5454	Robinson Creek	NV05454	17,585	401	2.28	405	2.30	0.02
5065	NEWFOUNDLAND	UT05065	57,293	1,178	2.06	1,191	2.08	0.02
4329	NOTCH PEAK	UT04329	26,449	566	2.14	572	2.16	0.02
4328	NORTH CANYON	UT04328	22,057	454	2.06	459	2.08	0.02

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11011	Coal Valley Lake	NV11011	115,182	2,445	2.12	2,471	2.15	0.02
6203	BURN KNOLL	UT06203	22,249	451	2.03	456	2.05	0.02
15013	BITNER KNOLL	UT15013	22,349	483	2.16	488	2.18	0.02
3236	Stag Mountain	NV03236	40,261	784	1.95	793	1.97	0.02
15072	UPPER HORSE HOLLOW	UT15072	8,959	96	1.07	98	1.09	0.02
4303	Bald Mountain	NV04303	31,414	633	2.02	640	2.04	0.02
4356	Bear River Narrows	ID04356	4,491	110	2.45	111	2.47	0.02
3210	West Buckhorn	NV03210	22,565	521	2.31	526	2.33	0.02
4331	PAINTER SPRING	UT04331	31,611	691	2.19	698	2.21	0.02
5138	MODENA CANYON	UT05138	27,176	376	1.38	382	1.41	0.02
903	Cattle Camp/cave Valley	NV00903	72,638	1,487	2.05	1,503	2.07	0.02
5477	Willow Creek Pockets	NV05477	4,545	69	1.52	70	1.54	0.02
4322	KLONDIKE	UT04322	36,471	709	1.94	717	1.97	0.02
1025	Squaw Valley	NV01025	168,706	3,406	2.02	3,443	2.04	0.02
3237	Stormy	NV03237	4,600	134	2.91	135	2.94	0.02
4030	NORTH GRASSY	UT04030	9,210	222	2.41	224	2.43	0.02
126	Pole Canyon	NV00126	13,882	301	2.17	304	2.19	0.02
1067	Sawmill Canyon	NV01067	9,279	172	1.85	174	1.88	0.02
87	Crater Black Rock	NV00087	97,624	1,517	1.55	1,538	1.58	0.02
6231	BUCKET RANCH	UT06231	37,298	785	2.10	793	2.13	0.02
6221	JOCKEYS	UT06221	46,631	938	2.01	948	2.03	0.02
3202	Antelope	NV03202	4,717	86	1.82	87	1.84	0.02
5405	Bruffy	NV05405	18,880	401	2.12	405	2.15	0.02
2103	Beaver Creek	NV02103	23,636	478	2.02	483	2.04	0.02
2105	Bruneau River	NV02105	4,732	157	3.32	158	3.34	0.02
4309	Chase Springs	NV04309	47,426	854	1.80	864	1.82	0.02
4302	BROWNS WASH	UT04302	28,556	512	1.79	518	1.81	0.02
5141	MOUNTAIN SPRING	UT05141	28,561	602	2.11	608	2.13	0.02
4308	North Butte Valley	NV04308	4,762	137	2.88	138	2.90	0.02
5078	BAKER HILLS	UT05078	9,539	197	2.07	199	2.09	0.02
10	Double H	NV00010	47,844	944	1.97	954	1.99	0.02

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14321	LEDGER CANYON	UT14321	38,348	735	1.92	743	1.94	0.02
79	Wagon Johnnie	NV00079	28,832	564	1.96	570	1.98	0.02
21005	Lime Mountain	NV21005	62,602	1,157	1.85	1,170	1.87	0.02
1047	Mustang	NV01047	24,098	454	1.88	459	1.90	0.02
5086	NORTH KELTON	UT05086	9,648	191	1.98	193	2.00	0.02
10021	Buffalo Valley	NV10021	140,221	2,660	1.90	2,689	1.92	0.02
8	IBEX	UT00008	77,630	1,461	1.88	1,477	1.90	0.02
5440	Mitchell Creek	NV05440	4,858	82	1.69	83	1.71	0.02
4339	Ruby 8	NV04339	29,205	522	1.79	528	1.81	0.02
5017	RIVERBED	UT05017	9,749	257	2.64	259	2.66	0.02
21003	Bald Mountain	NV21003	260,043	4,846	1.86	4,899	1.88	0.02
914	Chimney Rock	NV00914	29,481	617	2.09	623	2.11	0.02
3031	Horse Mountain	NV03031	64,316	1,027	1.60	1,040	1.62	0.02
4334	SKULL ROCK	UT04334	69,338	1,250	1.80	1,264	1.82	0.02
149	Provo	NV00149	9,922	196	1.98	198	2.00	0.02
3009	Clan Alpine	NV03009	94,414	1,546	1.64	1,565	1.66	0.02
52	Dyke Hot	NV00052	24,906	399	1.60	404	1.62	0.02
3208	Black Butte	NV03208	10,004	128	1.28	130	1.30	0.02
5413	El Jiggs	NV05413	10,019	187	1.87	189	1.89	0.02
4330	PAINTED POTHOLES	UT04330	40,091	665	1.66	673	1.68	0.02
10110	Murphy Gap	NV10110	35,186	631	1.79	638	1.81	0.02
5446	Pine Mountain	NV05446	10,071	164	1.63	166	1.65	0.02
6004	Pleasantview	IDO6004	65,477	1,336	2.04	1,349	2.06	0.02
5077	PEPLIN	UT05077	20,240	433	2.14	437	2.16	0.02
4301	ANTELOPE	UT04301	81,031	1,296	1.60	1,312	1.62	0.02
6224	SOUTH PINE VALLEY	UT06224	40,549	769	1.90	777	1.92	0.02
5455	Robinson Mountain	NV05455	5,074	95	1.87	96	1.89	0.02
1025	Squaw Valley	NV01025	20,332	367	1.81	371	1.82	0.02
3216	Deeth	NV03216	15,325	286	1.87	289	1.89	0.02
5456	Safford Canyon	NV05456	5,116	117	2.29	118	2.31	0.02
10014	Gilbert Creek	NV10014	251,052	4,440	1.77	4,489	1.79	0.02

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55	Deer Creek	NV00055	30,851	584	1.89	590	1.91	0.02
1009	Eleven Mile Flat	NV01009	51,492	976	1.90	986	1.91	0.02
4326	LITTLE DRUM	UT04326	77,439	1,392	1.80	1,407	1.82	0.02
3213	Antelope Basin	NV03213	15,548	192	1.23	195	1.25	0.02
6005	Samaria	ID06005	31,232	521	1.67	527	1.69	0.02
108	Red Hills	NV00108	36,550	626	1.71	633	1.73	0.02
15052	PARAGONAH CATTLE	UT15052	15,708	353	2.25	356	2.27	0.02
3546	Little Huntoon	NV03546	20,966	379	1.81	383	1.83	0.02
5134	LONE PINE SPRING	UT05134	31,717	573	1.81	579	1.83	0.02
5413	El Jiggs	NV05413	15,881	272	1.71	275	1.73	0.02
4309	COYOTE KNOLL	UT04309	42,367	797	1.88	805	1.90	0.02
10005	Manhattan Mountain	NV10005	63,668	1,111	1.74	1,123	1.76	0.02
1052	Pahroc	NV01052	138,188	2,355	1.70	2,381	1.72	0.02
815	Dee Gee Spring	NV00815	5,332	102	1.91	103	1.93	0.02
5014	FANDANGLE	UT05014	42,897	730	1.70	738	1.72	0.02
4026	GERMAN VALLEY	UT04026	26,958	410	1.52	415	1.54	0.02
1018	Little Humboldt	NV01018	53,978	937	1.74	947	1.75	0.02
5127	GOLD SPRING	UT05127	5,417	106	1.96	107	1.98	0.02
5135	LUND	UT05135	5,421	112	2.07	113	2.08	0.02
1068	Schlarman	NV01068	5,422	111	2.05	112	2.07	0.02
4304	BOOB CANYON	UT04304	32,548	541	1.66	547	1.68	0.02
5462	Sleeman	NV05462	5,456	122	2.24	123	2.25	0.02
5028	OVERLAND CANYON	UT05028	65,536	497	0.76	509	0.78	0.02
10115	DEVILS GATE	NV10115	5,478	110	2.01	111	2.03	0.02
1004	Timber Mountain	NV01004	43,839	768	1.75	776	1.77	0.02
4339	TATOW	UT04339	65,820	1,099	1.67	1,111	1.69	0.02
3222	Hd	NV03222	16,455	337	2.05	340	2.07	0.02
3231	Cottonwood	NV03231	5,490	131	2.39	132	2.40	0.02
3224	Hot Creek	NV03224	5,516	103	1.87	104	1.89	0.02
4306	BRECKS KNOLL	UT04306	77,836	1,251	1.61	1,265	1.63	0.02
5446	Pine Mountain	NV05446	22,242	376	1.69	380	1.71	0.02

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1060	Shadow Wells	NV01060	16,738	214	1.28	217	1.30	0.02
2133	Long Field	NV02133	5,597	11	0.20	12	0.21	0.02
1079	Uvada	NV01079	11,245	168	1.49	170	1.51	0.02
5128	GOVERNMENT WELL	UT05128	5,633	112	1.99	113	2.01	0.02
622	Warm Springs Trail	NV00622	11,283	193	1.71	195	1.73	0.02
10050	Seven Mile	NV10050	90,497	1,480	1.64	1,496	1.65	0.02
9999	Mountain Home	UT09999	45,470	738	1.62	746	1.64	0.02
3216	Deeth	NV03216	5,691	134	2.35	135	2.37	0.02
5015	TRIANGLE	UT05015	22,895	378	1.65	382	1.67	0.02
1012	Horseshoe	NV01012	5,742	161	2.80	162	2.82	0.02
10035	Diamond Springs	NV10035	75,053	1,197	1.59	1,210	1.61	0.02
5016	BLACK ROCK	UT05016	40,446	662	1.64	669	1.65	0.02
10102	Goshute Mountain	NV10102	5,778	53	0.92	54	0.93	0.02
15059	REED LEIGH	UT15059	5,850	24	0.41	25	0.43	0.02
21009	Boulder Spring	NV21009	17,752	356	2.01	359	2.02	0.02
34	Spring Creek	NV00034	23,697	293	1.24	297	1.25	0.02
5154	SPANISH GEORGE	UT05154	11,884	215	1.81	217	1.83	0.02
2116	Boulder Field	NV02116	11,894	145	1.22	147	1.24	0.02
4324	KING	UT04324	47,584	673	1.41	681	1.43	0.02
15008	RIVERBED	UT15008	59,539	895	1.50	905	1.52	0.02
1025	Squaw Valley	NV01025	5,969	80	1.34	81	1.36	0.02
906	Shingle Pass	NV00906	95,667	1,395	1.46	1,411	1.47	0.02
4500	BROAD CANYON	UT04500	6,005	135	2.25	136	2.26	0.02
5467	Thomas Creek	NV05467	6,047	57	0.94	58	0.96	0.02
4074	WEST CANYON	UT04074	18,165	263	1.45	266	1.46	0.02
1056	Pennsylvania	NV01056	30,373	482	1.59	487	1.60	0.02
6226	NORTH PINE VALLEY	UT06226	36,487	565	1.55	571	1.56	0.02
3216	Deeth	NV03216	30,424	477	1.57	482	1.58	0.02
4335	SMITH CREEK	UT04335	18,258	218	1.19	221	1.21	0.02
5083	SOUTH KELTON	UT05083	18,521	308	1.66	311	1.68	0.02
35	William Stock	NV00035	67,936	986	1.45	997	1.47	0.02

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5055	WHITE LAKES	UT05055	93,047	1,402	1.51	1,417	1.52	0.02
5071	MATLIN	UT05071	43,474	589	1.35	596	1.37	0.02
3510	Blutler Mountain	NV03510	43,576	608	1.40	615	1.41	0.02
6066	Slinkard	CA06066	12,531	214	1.71	216	1.72	0.02
11020	West Timber Mountain	NV11020	12,571	173	1.38	175	1.39	0.02
128	Soldier Meadows	NV00128	341,950	3,775	1.10	3,829	1.12	0.02
3004	Big Canyon	NV03004	19,004	220	1.16	223	1.17	0.02
11006	Irish Mountain	NV11006	83,494	1,151	1.38	1,164	1.39	0.02
5030	HORSE HOLLOW	UT05030	6,490	30	0.46	31	0.48	0.02
4038	STANSBURY ISLAND NOR	UT04038	12,986	164	1.26	166	1.28	0.02
5135	LUND	UT05135	45,490	627	1.38	634	1.39	0.02
5152	WOOD WEST	UT05152	6,533	78	1.19	79	1.21	0.02
5070	MANN	UT05070	19,898	239	1.20	242	1.22	0.02
49	Horse Creek	NV00049	39,869	622	1.56	628	1.58	0.02
11014	South Coal Valley(cv)	NV11014	46,698	693	1.48	700	1.50	0.01
11013	Lower Lake West	NV11013	60,077	545	0.91	554	0.92	0.01
4321	HENRY CREEK	UT04321	6,689	122	1.82	123	1.84	0.01
51	Alder Creek	NV00051	133,790	2,134	1.60	2,154	1.61	0.01
136	Mallory Spring	NV00136	13,456	191	1.42	193	1.43	0.01
1069	Sheep Flat	NV01069	74,166	989	1.33	1,000	1.35	0.01
3039	Mountain Well-laplata	NV03039	148,615	2,015	1.36	2,037	1.37	0.01
1048	Mustang Flat	NV01048	6,804	88	1.29	89	1.31	0.01
4333	SAND PASS	UT04333	34,334	501	1.46	506	1.47	0.01
10053	Snowball Ranch	NV10053	27,512	368	1.34	372	1.35	0.01
3015	Cow Canyon	NV03015	137,744	1,855	1.35	1,875	1.36	0.01
8	Pole Creek	NV00008	34,501	535	1.55	540	1.57	0.01
1008	Eagle Rock	NV01008	6,958	13	0.19	14	0.20	0.01
502	North Butte	NV00502	27,896	376	1.35	380	1.36	0.01
2113	Lone Mountain	NV02113	42,021	107	0.25	113	0.27	0.01
3231	O'neil	NV03231	7,024	180	2.56	181	2.58	0.01
5412	Devils Gate Ffr	NV05412	14,109	170	1.20	172	1.22	0.01

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4324	KING	UT04324	21,255	295	1.39	298	1.40	0.01
67	Mormon Dan	NV00067	49,710	605	1.22	612	1.23	0.01
11002	Narrows	NV11002	7,136	163	2.28	164	2.30	0.01
6250	HAMLIN	UT06250	21,457	255	1.19	258	1.20	0.01
5455	Robinson Mountain	NV05455	14,390	244	1.70	246	1.71	0.01
6	Crowley Creek	NV00006	50,462	674	1.34	681	1.35	0.01
5328	Point Allotment	ID05328	29,093	234	0.80	238	0.82	0.01
999	Out	UT00999	21,928	226	1.03	229	1.04	0.01
5153	MODENA	UT05153	7,379	115	1.56	116	1.57	0.01
1043	Mcguffy Spring	NV01043	22,180	301	1.36	304	1.37	0.01
147	Bilk Creek	NV00147	44,773	520	1.16	526	1.17	0.01
2119	Rattlesnake Canyon	NV02119	7,468	105	1.41	106	1.42	0.01
1051	Oak Wells	NV01051	30,094	375	1.25	379	1.26	0.01
3217	Devils Gate	NV03217	68,122	821	1.21	830	1.22	0.01
21025	Crystal Springs	NV21025	7,571	47	0.62	48	0.63	0.01
213	PLATEAU	UT00213	7,711	26	0.34	27	0.35	0.01
5120	BULL SPRING	UT05120	23,199	343	1.48	346	1.49	0.01
702	Winter Range NV	CA00702	47,924	611	1.27	617	1.29	0.01
4310	CRATER	UT04310	64,073	771	1.20	779	1.22	0.01
3563	Mill Canyon	NV03563	16,224	213	1.31	215	1.33	0.01
5424	Hansel	NV05424	8,128	114	1.40	115	1.41	0.01
6106	ORLANDO FFR	OR06106	8,431	60	0.71	61	0.72	0.01
913	Little White Rock	NV00913	17,008	168	0.99	170	1.00	0.01
15077	ZANE	UT15077	8,612	161	1.87	162	1.88	0.01
5001	Eurika Valley	CA05001	17,284	182	1.05	184	1.06	0.01
11021	Worthington Mountain	NV11021	77,900	843	1.08	852	1.09	0.01
5450	Browne	NV05450	17,496	152	0.87	154	0.88	0.01
1008	Eagle Rock	NV01008	8,751	75	0.86	76	0.87	0.01
5061	Last Chance	CA05061	35,160	370	1.05	374	1.06	0.01
6054	Mono Lake	CA06054	8,841	57	0.64	58	0.66	0.01
1074	Snow Springs	NV01074	44,376	474	1.07	479	1.08	0.01

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10115	Devils Gate	NV10115	17,763	196	1.10	198	1.11	0.01
21021	Cottonwood	NV21021	62,221	631	1.01	638	1.03	0.01
5048	INGHAM	UT05048	8,966	125	1.39	126	1.41	0.01
5025	OCHRE	UT05025	17,988	152	0.85	154	0.86	0.01
20101	Yellow Hills	NV20101	54,012	523	0.97	529	0.98	0.01
5044	KIMBALL CREEK	UT05044	9,093	112	1.23	113	1.24	0.01
5041	GROUSE CREEK	UT05041	36,436	402	1.10	406	1.11	0.01
3057	White Cloud	NV03057	72,911	750	1.03	758	1.04	0.01
14005	BIG MOUNTAIN	UT14005	9,228	73	0.79	74	0.80	0.01
3030	Hole In The Wall	NV03030	84,212	857	1.02	866	1.03	0.01
5067	YOUNG BROTHERS	UT05067	28,567	319	1.12	322	1.13	0.01
1045	Pine Cone	NV01045	38,622	369	0.96	373	0.97	0.01
3999	SILVER ISLAND	UT03999	107,766	1,046	0.97	1,057	0.98	0.01
1032	Twenty Five	NV01032	9,875	113	1.14	114	1.15	0.01
3215	Dairy Valley	NV03215	90,255	396	0.44	405	0.45	0.01
1014	Taylor Canyon	NV01014	10,370	108	1.04	109	1.05	0.01
5066	BASIN L&L	UT05066	73,777	594	0.81	601	0.81	0.01
15056	PERRY WELL	UT15056	10,653	66	0.62	67	0.63	0.01
25032	EAST FISH SPRINGS	UT25032	53,844	424	0.79	429	0.80	0.01
10064	Home Station Gap	NV10064	10,973	91	0.83	92	0.84	0.01
1008	Eagle Rock	NV01008	10,988	38	0.35	39	0.35	0.01
2104	Blue Basin	NV02104	10,994	90	0.82	91	0.83	0.01
2114	Mahala Creek	NV02114	33,262	198	0.60	201	0.60	0.01
5127	GOLD SPRING	UT05127	33,281	223	0.67	226	0.68	0.01
1008	Eagle Rock	NV01008	11,610	9	0.08	10	0.09	0.01
90	White Sage	NV00090	11,801	154	1.30	155	1.31	0.01
10112	Indian George	NV10112	35,637	323	0.91	326	0.91	0.01
1059	Red Bluff	NV01059	12,127	62	0.51	63	0.52	0.01
14004	BEAVER DAM SLOPE	UT14004	61,275	595	0.97	600	0.98	0.01
3006	Cottonwood Canyon (c	NV03006	12,393	105	0.85	106	0.86	0.01
1088	Sand Hills	NV01088	12,431	86	0.69	87	0.70	0.01

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4316	East Buckhorn	NV04316	37,926	271	0.71	274	0.72	0.01
3555	Lincoln Flat	NV03555	25,515	199	0.78	201	0.79	0.01
10067	Hicks Station	NV10067	12,777	176	1.38	177	1.39	0.01
9999	UNALLOTTED	UT09999	13,433	128	0.95	129	0.96	0.01
5074	TERRACE	UT05074	27,032	177	0.65	179	0.66	0.01
6020	PUEBLO LONE MTN	OR06020	224,296	56	0.02	72	0.03	0.01
703	Observation	CA00703	244,788	340	0.14	357	0.15	0.01
25011	MOUNTAIN	UT25011	14,481	92	0.64	93	0.64	0.01
6073	Potato Peak	CA06073	14,669	72	0.49	73	0.50	0.01
5020	DEEP CREEK	UT05020	44,889	269	0.60	272	0.61	0.01
1023	Spanish Ranch	NV01023	15,160	196	1.29	197	1.30	0.01
1003	Black Horse	NV01003	15,401	130	0.84	131	0.85	0.01
5145	SHEEP SPRING	UT05145	15,847	59	0.37	60	0.38	0.01
1004	Timber Mountain	NV01004	32,199	176	0.55	178	0.55	0.01
2106	Coal Mine Basin	NV02106	16,527	71	0.43	72	0.44	0.01
5019	ELEPHANT KNOLL	UT05019	33,057	119	0.36	121	0.37	0.01
1032	Twenty Five	NV01032	33,675	139	0.41	141	0.42	0.01
1018	Little Humboldt	NV01018	17,554	99	0.56	100	0.57	0.01
1077	Summit Spring	NV01077	17,621	107	0.61	108	0.61	0.01
1032	Twenty Five	NV01032	18,352	100	0.54	101	0.55	0.01
6009	Big Onion	ID06009	18,587	285	1.53	286	1.54	0.01
2464	KEG SPRINGS	UT02464	20,895	141	0.67	142	0.68	0.00
2103	Beaver Creek	NV02103	21,971	86	0.39	87	0.40	0.00
5013	Hunter Mt Lee Flat	CA05013	53,958	164	0.30	166	0.31	0.00
3222	Hd	NV03222	54,650	139	0.25	141	0.26	0.00
130	Coyote	NV00130	37,413	132	0.35	133	0.36	0.00
3218	Gamble Individual	NV03218	80,451	225	0.28	227	0.28	0.00
70	Old Gunnery Range	NV00070	206,677	442	0.21	446	0.22	0.00
3225	Hubbard Vineyard	NV03225	58,300	57	0.10	58	0.10	0.00
5021	DUTCH MOUNTAIN	UT05021	63,248	106	0.17	107	0.17	0.00
36	Little Owyhee	NV00036	580,032	638	0.11	645	0.11	0.00

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6015	TROUT CREEK MOUNTAIN	OR06015	88,417	66	0.07	67	0.08	0.00
1071	Gourd Spring	NV01071	97,535	76	0.08	77	0.08	0.00
3218	Gamble Individual	NV03218	97,732	75	0.08	76	0.08	0.00
802	Tuledad	CA00802	164,020	84	0.05	85	0.05	0.00
900	Bare	CA00900	201,626	73	0.04	74	0.04	0.00
21	Chimney Creek	NV00021	3,241	52	1.60	52	1.60	0.00
22	Paradise Hill	NV00022	1,613	0	0.00	0	0.00	0.00
24	Singus	NV00024	320	0	0.00	0	0.00	0.00
25	Hanson Creek	NV00025	1,758	0	0.00	0	0.00	0.00
26	Fort Scott	NV00026	2,221	14	0.63	14	0.63	0.00
27	Granite	NV00027	1,264	27	2.14	27	2.14	0.00
28	Solid Silver	NV00028	430	6	1.40	6	1.40	0.00
28	Solid Silver	NV00028	67	1	1.49	1	1.49	0.00
29	Indian Creek	NV00029	715	0	0.00	0	0.00	0.00
29	Indian Creek	NV00029	64	3	4.66	3	4.66	0.00
36	Oneida Narrows Reservoir	ID00036	735	15	2.04	15	2.04	0.00
45	Sugar Loaf	NV00045	5,607	0	0.00	0	0.00	0.00
50	Little Horse Creek	NV00050	3,844	0	0.00	0	0.00	0.00
65	Knott Creek	NV00065	70,941	0	0.00	0	0.00	0.00
79	Wagon Johnnie	NV00079	7	0	0.00	0	0.00	0.00
84	Red Rock Pass	ID00084	1,527	0	0.00	0	0.00	0.00
92	White Wolf	NV00092	45	2	4.42	2	4.42	0.00
200	AURORA	UT00200	80	0	0.00	0	0.00	0.00
200	AURORA	UT00200	204	25	12.26	25	12.26	0.00
200	AURORA	UT00200	480	32	6.66	32	6.66	0.00
200	AURORA	UT00200	81	5	6.15	5	6.15	0.00
203	Zimmerman (vale)	NV00203	22,828	0	0.00	0	0.00	0.00
205	Mcdermitt Creek (vale)	NV00205	5,078	0	0.00	0	0.00	0.00
401	Mcdermitt Creek	NV00401	2,700	11	0.41	11	0.41	0.00
402	Goshute Basin	NV00402	9,911	42	0.42	42	0.42	0.00
506	South Butte Seeding	NV00506	994	2	0.20	2	0.20	0.00

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
601	Bonta	CA00601	198	8	4.05	8	4.05	0.00
602	Maddalena	CA00602	107	0	0.00	0	0.00	0.00
603	Harrison	CA00603	552	6	1.09	6	1.09	0.00
608	Chilcoot Community	CA00608	4,199	11	0.26	11	0.26	0.00
609	Ramelli	CA00609	127	3	2.36	3	2.36	0.00
612	Stefan	CA00612	1,616	2	0.12	2	0.12	0.00
710	Spanish Springs Amp	CA00710	8,574	0	0.00	0	0.00	0.00
807	Sawmill Bench	NV00807	503	6	1.19	6	1.19	0.00
824	Willow Springs Seeding	NV00824	657	26	3.96	26	3.96	0.00
828	Maybe Seeding	NV00828	860	18	2.09	18	2.09	0.00
834	OGDEN	UT00834	7,187	45	0.63	45	0.63	0.00
907	Haggerty Wash	NV00907	1,056	40	3.79	40	3.79	0.00
908	Cave Valley Seeding	NV00908	1,284	27	2.10	27	2.10	0.00
999	OUT	UT00999	646	0	0.00	0	0.00	0.00
999	Out	UT00999	2	0	0.00	0	0.00	0.00
999	Out	UT00999	13	2	15.07	2	15.07	0.00
999	Out	UT00999	3	0	0.00	0	0.00	0.00
999	Out	UT00999	143	0	0.00	0	0.00	0.00
999	Out	UT00999	41	5	12.08	5	12.08	0.00
999	Out	UT00999	314	24	7.65	24	7.65	0.00
999	Out	UT00999	166	6	3.61	6	3.61	0.00
999	OUT	UT00999	125	45	36.00	45	36.00	0.00
999	OUT	UT00999	310	8	2.58	8	2.58	0.00
999	Out	UT00999	1,090	8	0.73	8	0.73	0.00
1008	Massacre Mountain	CA01008	107,691	0	0.00	0	0.00	0.00
1014	Wall Canyon East	CA01014	40,802	0	0.00	0	0.00	0.00
1016	Jake's Creek	NV01016	1,019	21	2.06	21	2.06	0.00
1018	Little Humboldt	NV01018	364	20	5.50	20	5.50	0.00
1023	Spanish Ranch	NV01023	36,637	0	0.00	0	0.00	0.00
1023	Spanish Ranch	NV01023	26,539	72	0.27	72	0.27	0.00
1023	Spanish Ranch	NV01023	18,049	0	0.00	0	0.00	0.00

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
1023	Spanish Ranch	NV01023	51,722	18	0.03	18	0.03	0.00
1025	Squaw Valley	NV01025	4,645	51	1.10	51	1.10	0.00
1025	Squaw Valley	NV01025	1,204	55	4.57	55	4.57	0.00
1025	Squaw Valley	NV01025	4,522	2	0.04	2	0.04	0.00
1025	Squaw Valley	NV01025	660	0	0.00	0	0.00	0.00
1026	Six Mile	NV01026	1,027	24	2.34	24	2.34	0.00
1029	Tall Corral	NV01029	8,503	12	0.14	12	0.14	0.00
1031	Tuscarora	NV01031	1,446	0	0.00	0	0.00	0.00
1032	Twenty Five	NV01032	2,809	0	0.00	0	0.00	0.00
1032	Twenty Five	NV01032	4,006	0	0.00	0	0.00	0.00
1032	Twenty Five	NV01032	1,325	58	4.38	58	4.38	0.00
1032	Twenty Five	NV01032	6,818	2	0.03	2	0.03	0.00
1044	Mormon Peak	NV01044	77,991	0	0.00	0	0.00	0.00
1064	Sand Hollow	NV01064	34,562	0	0.00	0	0.00	0.00
1077	Diamond A Taylor Pocket	IDO1077	16,383	0	0.00	0	0.00	0.00
1203	ZIMMERMAN	OR01203	56,882	0	0.00	0	0.00	0.00
1205	MCDERMITT CREEK	OR01205	4,910	0	0.00	0	0.00	0.00
1704	AXTELL	UT01704	524	48	9.16	48	9.16	0.00
1729	UINTA	UT01729	1,028	3	0.29	3	0.29	0.00
2101	Adobe Hills	NV02101	4,693	0	0.00	0	0.00	0.00
2101	Adobe Hills	NV02101	6,558	0	0.00	0	0.00	0.00
2101	Adobe Hills	NV02101	1,119	0	0.00	0	0.00	0.00
2104	Blue Basin	NV02104	9,108	0	0.00	0	0.00	0.00
2104	Blue Basin	NV02104	13,037	0	0.00	0	0.00	0.00
2104	Blue Basin	NV02104	7,422	0	0.00	0	0.00	0.00
2107	Cotant Seeding	NV02107	752	0	0.00	0	0.00	0.00
2107	Cotant Seeding	NV02107	2,912	0	0.00	0	0.00	0.00
2109	Double Mountain	NV02109	39,952	4	0.01	4	0.01	0.00
2113	Lone Mountain	NV02113	1,523	0	0.00	0	0.00	0.00
2118	North Fork Group	NV02118	3,737	0	0.00	0	0.00	0.00
2119	Rattlesnake Canyon	NV02119	3,662	6	0.16	6	0.16	0.00

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
2121	Rough Hills	NV02121	6,297	42	0.67	42	0.67	0.00
2123	Stone Flat	NV02123	3,256	45	1.38	45	1.38	0.00
2124	White Rock	NV02124	4,061	0	0.00	0	0.00	0.00
2130	Stone Flat Ffr	NV02130	199	8	4.03	8	4.03	0.00
2130	Stone Flat Ffr	NV02130	96	0	0.00	0	0.00	0.00
2134	Dorsey	NV02134	967	0	0.00	0	0.00	0.00
2134	Dorsey	NV02134	1,523	0	0.00	0	0.00	0.00
2134	Dorsey	NV02134	1,696	0	0.00	0	0.00	0.00
2134	Dorsey	NV02134	2,461	0	0.00	0	0.00	0.00
2134	Dorsey	NV02134	1,755	0	0.00	0	0.00	0.00
2134	Dorsey	NV02134	6,118	0	0.00	0	0.00	0.00
2138	Jackstone	NV02138	3,789	0	0.00	0	0.00	0.00
2138	Jackstone	NV02138	4,769	9	0.19	9	0.19	0.00
2139	Board Corral Ffr	NV02139	4,341	0	0.00	0	0.00	0.00
3006	Cottonwood Canyon (c	NV03006	67	8	11.89	8	11.89	0.00
3201	Anderson Creek	NV03201	3,153	30	0.95	30	0.95	0.00
3201	Anderson Creek	NV03201	47	0	0.00	0	0.00	0.00
3201	Anderson Creek	NV03201	31	4	12.79	4	12.79	0.00
3201	Anderson Creek	NV03201	207	0	0.00	0	0.00	0.00
3201	Anderson Creek	NV03201	110	0	0.00	0	0.00	0.00
3201	Anderson Creek	NV03201	135	3	2.23	3	2.23	0.00
3209	Bluff Creek	NV03209	58,215	0	0.00	0	0.00	0.00
3213	Antelope Basin	NV03213	1,136	4	0.35	4	0.35	0.00
3213	Antelope Basin	NV03213	89	2	2.26	2	2.26	0.00
3214	Cottonwood	NV03214	653	54	8.28	54	8.28	0.00
3216	Deeth	NV03216	0	0	0.00	0	0.00	0.00
3216	Deeth	NV03216	119	2	1.68	2	1.68	0.00
3216	Deeth	NV03216	643	22	3.42	22	3.42	0.00
3218	Gamble Individual	NV03218	690	0	0.00	0	0.00	0.00
3220	Grouse Creek	NV03220	17,263	0	0.00	0	0.00	0.00
3222	Hd	NV03222	1,329	7	0.53	7	0.53	0.00

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3222	Hd	NV03222	10,490	9	0.09	9	0.09	0.00
3222	Hd	NV03222	15,327	0	0.00	0	0.00	0.00
3222	Hd	NV03222	8,316	2	0.02	2	0.02	0.00
3223	Holborn	NV03223	3,328	52	1.56	52	1.56	0.00
3224	Hot Creek	NV03224	205	9	4.38	9	4.38	0.00
3225	Hubbard Vineyard	NV03225	5,669	3	0.05	3	0.05	0.00
3229	Metropolis Seeding	NV03229	2,455	27	1.10	27	1.10	0.00
3231	Cottonwood	NV03231	956	28	2.93	28	2.93	0.00
3231	Cottonwood	NV03231	159	3	1.89	3	1.89	0.00
3231	Cottonwood	NV03231	510	17	3.33	17	3.33	0.00
3231	Cottonwood	NV03231	2,983	52	1.74	52	1.74	0.00
3231	Cottonwood	NV03231	1,931	57	2.95	57	2.95	0.00
3231	Cottonwood	NV03231	1,428	14	0.98	14	0.98	0.00
3231	O'neil	NV03231	3,353	55	1.64	55	1.64	0.00
3231	Cottonwood	NV03231	856	39	4.55	39	4.55	0.00
3233	Rabbit Creek	NV03233	6,713	69	1.03	69	1.03	0.00
3237	Stormy	NV03237	17	1	5.77	1	5.77	0.00
3237	Stormy	NV03237	3,728	33	0.89	33	0.89	0.00
3243	Railroad Field	NV03243	3,170	20	0.63	20	0.63	0.00
3343	Flat Canyon Point	ID03343	39	0	0.00	0	0.00	0.00
3544	Hay Press	NV03544	1,478	33	2.23	33	2.23	0.00
3576	Pinenut	NV03576	34,075	14	0.04	14	0.04	0.00
3581	Red-burbank	NV03581	3,159	0	0.00	0	0.00	0.00
4014	COUGAR CANYON	UT04014	8,754	0	0.00	0	0.00	0.00
4024	DEAD MAN CREEK	UT04024	383	27	7.04	27	7.04	0.00
4032	ROADSIDE	UT04032	187	8	4.29	8	4.29	0.00
4032	ROADSIDE	UT04032	303	18	5.94	18	5.94	0.00
4041	STANSBURY MOUNTAIN	UT04041	7,110	6	0.08	6	0.08	0.00
4059	POLE CANYON	UT04059	3,535	38	1.08	38	1.08	0.00
4081	LAKE MT MONTE VISTA	UT04081	4,404	59	1.34	59	1.34	0.00
4092	FAUST REST AREA	UT04092	21	6	28.21	6	28.21	0.00

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4093	STANSBURY-BROAD CNYN	UT04093	1,224	0	0.00	0	0.00	0.00
4199	LAVERKIN CREEK	UT04199	11,715	5	0.04	5	0.04	0.00
4206	Stock Valley Hills	ID04206	3,786	33	0.87	33	0.87	0.00
4214	North Oneida Narrows	ID04214	187	1	0.54	1	0.54	0.00
4253	Maple Grove	ID04253	730	25	3.42	25	3.42	0.00
4308	North Butte Valley	NV04308	379	45	11.89	45	11.89	0.00
4308	North Butte Valley	NV04308	53	0	0.00	0	0.00	0.00
4315	Treasureton Hill-1	ID04315	744	16	2.15	16	2.15	0.00
4317	Gordon Creek	NV04317	349	7	2.01	7	2.01	0.00
4333	Ruby 2	NV04333	183	12	6.56	12	6.56	0.00
4335	Ruby 4	NV04335	1,062	65	6.12	65	6.12	0.00
4342	LEAMINGTON PASS	UT04342	560	7	1.25	7	1.25	0.00
4347	MONTE	UT04347	40	6	14.86	6	14.86	0.00
4348	DEAN	UT04348	582	6	1.03	6	1.03	0.00
4349	RICH	UT04349	205	5	2.44	5	2.44	0.00
4350	RATTLESNAKE PEAK	UT04350	3,070	44	1.43	44	1.43	0.00
4359	W & C Ruby #9 Ffr	NV04359	189	24	12.72	24	12.72	0.00
4397	Glendale Reservoir	ID04397	587	2	0.34	2	0.34	0.00
4410	TOPAZ	UT04410	644	19	2.95	19	2.95	0.00
4450	Thatcher Hill-1	ID04450	25,739	48	0.19	48	0.19	0.00
4504	FINLINSON 21A	UT04504	1,601	33	2.06	33	2.06	0.00
4506	GILSON	UT04506	244	12	4.91	12	4.91	0.00
4522	12 B	UT04522	361	26	7.20	26	7.20	0.00
5012	LITTLE BALD HILLS	UT05012	2,507	34	1.36	34	1.36	0.00
5029	HOLE IN THE WALL	UT05029	5,273	0	0.00	0	0.00	0.00
5049	MUDDY CREEK	UT05049	19,321	6	0.03	6	0.03	0.00
5068	WARD	UT05068	11,943	38	0.32	38	0.32	0.00
5081	HIRSCHI	UT05081	646	14	2.17	14	2.17	0.00
5085	JAMES	UT05085	542	19	3.51	19	3.51	0.00
5092	GOLDEN SPIKE	UT05092	5,386	52	0.97	52	0.97	0.00
5094	IDA UTE	UT05094	158	8	5.07	8	5.07	0.00

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5096	HOOSIER LAKE	UT05096	4,046	71	1.75	71	1.75	0.00
5097	KANARRA MOUNTAIN	UT05097	1,533	0	0.00	0	0.00	0.00
5098	LAST CHANCE	UT05098	1,783	15	0.84	15	0.84	0.00
5107	SPRING CREEK	UT05107	3,327	11	0.33	11	0.33	0.00
5122	COUNTY LINE	UT05122	2,644	22	0.83	22	0.83	0.00
5123	CULVER SPRING	UT05123	1,118	46	4.11	46	4.11	0.00
5132	INDIAN PEAK	UT05132	2,991	6	0.20	6	0.20	0.00
5132	INDIAN PEAK	UT05132	80	0	0.00	0	0.00	0.00
5133	JACKSON WASH	UT05133	0	0	0.00	0	0.00	0.00
5152	WOOD WEST	UT05152	310	14	4.52	14	4.52	0.00
5152	WOOD WEST	UT05152	1,758	29	1.65	29	1.65	0.00
5152	WOOD WEST	UT05152	1,396	30	2.15	30	2.15	0.00
5324	South Lake Fork	ID05324	8,245	0	0.00	0	0.00	0.00
5413	El Jiggs	NV05413	299	18	6.02	18	6.02	0.00
5413	El Jiggs	NV05413	658	2	0.30	2	0.30	0.00
5413	El Jiggs	NV05413	359	13	3.62	13	3.62	0.00
5413	El Jiggs	NV05413	1,410	64	4.54	64	4.54	0.00
5413	El Jiggs	NV05413	1,855	28	1.51	28	1.51	0.00
5413	El Jiggs	NV05413	424	5	1.18	5	1.18	0.00
5413	El Jiggs	NV05413	1,223	0	0.00	0	0.00	0.00
5413	El Jiggs	NV05413	6	0	0.00	0	0.00	0.00
5413	El Jiggs	NV05413	39	2	5.17	2	5.17	0.00
5422	Grindstone Mountain	NV05422	1,258	39	3.10	39	3.10	0.00
5430	Iron Blossom	NV05430	10,902	44	0.40	44	0.40	0.00
5430	Iron Blossom	NV05430	3,208	44	1.37	44	1.37	0.00
5432	King Seeding	NV05432	763	0	0.00	0	0.00	0.00
5442	Old Eighty Ffr	NV05442	678	40	5.90	40	5.90	0.00
5463	Smiraldo	NV05463	2,952	24	0.81	24	0.81	0.00
5465	South Buckhorn	NV05465	628	47	7.48	47	7.48	0.00
5465	South Buckhorn	NV05465	2,871	47	1.64	47	1.64	0.00
5465	South Buckhorn	NV05465	609	14	2.30	14	2.30	0.00

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5465	South Buckhorn	NV05465	301	4	1.33	4	1.33	0.00
5465	South Buckhorn	NV05465	660	18	2.73	18	2.73	0.00
5465	South Buckhorn	NV05465	1,958	22	1.12	22	1.12	0.00
5469	Twin Bridges	NV05469	1,784	44	2.47	44	2.47	0.00
5474	Walther	NV05474	449	17	3.79	17	3.79	0.00
5484	Wilson Ffr	NV05484	658	4	0.61	4	0.61	0.00
5484	Wilson Ffr	NV05484	122	5	4.10	5	4.10	0.00
5484	Wilson Ffr	NV05484	621	42	6.76	42	6.76	0.00
5486	Robinson Mountain Ff	NV05486	332	28	8.43	28	8.43	0.00
5711	CHRISS CREEK	UT05711	833	48	5.76	48	5.76	0.00
5711	CHRISS CREEK	UT05711	811	42	5.18	42	5.18	0.00
5745	BIG HOLLOW	UT05745	4,587	36	0.78	36	0.78	0.00
5746	BLUE SPRING	UT05746	760	45	5.92	45	5.92	0.00
5746	BLUE SPRING	UT05746	2,491	39	1.57	39	1.57	0.00
5747	CALS VALLEY	UT05747	1,358	0	0.00	0	0.00	0.00
5749	CUTLER	UT05749	120	7	5.83	7	5.83	0.00
5750	DEER FOOT	UT05750	2,017	3	0.15	3	0.15	0.00
5754	JAKES CANYON	UT05754	2,362	10	0.42	10	0.42	0.00
5756	LONE CEDAR	UT05756	2,417	0	0.00	0	0.00	0.00
5759	VALLEY MOUNTAIN	UT05759	1,407	0	0.00	0	0.00	0.00
5760	T O JOHNSON	UT05760	632	0	0.00	0	0.00	0.00
5766	SNADGE HOLLOW	UT05766	3,241	47	1.45	47	1.45	0.00
5768	STONE	UT05768	2,463	33	1.34	33	1.34	0.00
5770	WHITE BUSH	UT05770	79	11	13.85	11	13.85	0.00
5776	ANDERSON	UT05776	1,134	10	0.88	10	0.88	0.00
5780	BEESTON	UT05780	565	9	1.59	9	1.59	0.00
5794	SECTION 31	UT05794	458	20	4.37	20	4.37	0.00
5798	TEEPLES	UT05798	1,471	59	4.01	59	4.01	0.00
6007	Madsen	IDO6007	604	5	0.83	5	0.83	0.00
6013	Owens Valley	CA06013	1,800	38	2.11	38	2.11	0.00
6013	Deep Creek	IDO6013	426	1	0.23	1	0.23	0.00

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6014	TUM TUM	OR06014	8,083	1	0.01	1	0.01	0.00
6016	Owens Valley Common	CA06016	957	49	5.12	49	5.12	0.00
6016	Sand Hills (burns)	NV06016	3,030	0	0.00	0	0.00	0.00
6016	Holloway Mountain (burns)	NV06016	3,561	0	0.00	0	0.00	0.00
6017	Grassy Basin (burns)	NV06017	1,503	0	0.00	0	0.00	0.00
6017	South Fork (crow Crk)	NV06017	2,320	0	0.00	0	0.00	0.00
6022	KINGS RIVER	OR06022	1,772	0	0.00	0	0.00	0.00
6024	SOUTH FORK	OR06024	519	0	0.00	0	0.00	0.00
6026	Mathiew	CA06026	1,978	39	1.97	39	1.97	0.00
6044	LOWER ANTELOPE	OR06044	5,889	0	0.00	0	0.00	0.00
6048	West Santa Rita	CA06048	775	10	1.29	10	1.29	0.00
6049	Aberdeen	CA06049	3,665	39	1.06	39	1.06	0.00
6056	West Reservoir	CA06056	771	0	0.00	0	0.00	0.00
6067	Swan Lake	ID06067	107	64	60.04	64	60.04	0.00
6068	Sarman Ranch	CA06068	408	12	2.94	12	2.94	0.00
6074	Downata Hot Springs	ID06074	1,884	0	0.00	0	0.00	0.00
6078	Walters Ranch	CA06078	519	0	0.00	0	0.00	0.00
6082	Arbon	ID06082	1,216	0	0.00	0	0.00	0.00
6105	WRENCH RANCH FFR	OR06105	4,906	0	0.00	0	0.00	0.00
6107	CRUMP/CALD FFR	OR06107	821	0	0.00	0	0.00	0.00
6115	YARDLEY	UT06115	548	19	3.47	19	3.47	0.00
6122	ANDERSON JUNCTION	UT06122	610	49	8.03	49	8.03	0.00
6221	JOCKEYS	UT06221	602	4	0.66	4	0.66	0.00
6347	Lookout Mountain	ID06347	765	0	0.00	0	0.00	0.00
6362	Ireland Canyon	ID06362	299	4	1.34	4	1.34	0.00
9999	TWELVE MILE	UT09999	164	11	6.71	11	6.71	0.00
9999	Graff Point	UT09999	1,634	2	0.12	2	0.12	0.00
9999	UNALLOTTED	UT09999	2	0	0.00	0	0.00	0.00
9999	UNALLOTTED	UT09999	103	18	17.52	18	17.52	0.00
10023	San Juan	NV10023	762	16	2.10	16	2.10	0.00
10036	Glendale Ridge	ID10036	79	0	0.00	0	0.00	0.00

ALLOT_NO	ALLOT_NAME	ST_ALLOT	GIS_ACRES	Development Total 2010	Developed Percent 2010	Development Total 2025	Developed Percent 2025	Percent Change
10045	Weston 40	ID10045	40	0	0.00	0	0.00	0.00
10046	Mapleton-2	ID10046	40	0	0.00	0	0.00	0.00
10047	Morgan Ridge	ID10047	20	0	0.00	0	0.00	0.00
10048	Crooked Creek	ID10048	39	0	0.00	0	0.00	0.00
10056	North Springs	NV10056	1,647	0	0.00	0	0.00	0.00
10085	Swan Lake Point	ID10085	40	0	0.00	0	0.00	0.00
10090	Fishlake Valley	AZ10090	644	1	0.16	1	0.16	0.00
11010	Breedlove	NV11010	121,066	0	0.00	0	0.00	0.00
14006	BIG PLAINS	UT14006	3,122	0	0.00	0	0.00	0.00
14053	TRAIL	UT14053	3,938	0	0.00	0	0.00	0.00
14062	Strawberry Creek	ID14062	1,244	64	5.14	64	5.14	0.00
14071	Bear River-4	ID14071	1,394	57	4.09	57	4.09	0.00
14074	TERRACE	UT14074	5,174	0	0.00	0	0.00	0.00
14076	CASTLE CLIFFS	UT14076	14,631	14	0.10	14	0.10	0.00
14082	HONEYMOON TRAIL	UT14082	20,373	0	0.00	0	0.00	0.00
14083	BIG MOUNTAIN CUST.	UT14083	1,468	11	0.75	11	0.75	0.00
14090	Left Hand Fork Marsh Creek	ID14090	29,873	30	0.10	30	0.10	0.00
14093	CEDAR MOUNTAIN	UT14093	1,825	0	0.00	0	0.00	0.00
15019	CROSSROADS	UT15019	2,119	38	1.79	38	1.79	0.00
15025	FIDDLERS CANYON	UT15025	5,448	35	0.64	35	0.64	0.00
15028	HIDDEN SPRING	UT15028	2,223	58	2.61	58	2.61	0.00
15073	URIE	UT15073	4,908	33	0.67	33	0.67	0.00
15086	DALLEY CANYON	UT15086	1,659	3	0.18	3	0.18	0.00
15773	MEADOW SPRING	UT15773	2,769	55	1.99	55	1.99	0.00
21008	Black Hills	NV21008	3,994	44	1.10	44	1.10	0.00
24022	GOOSEBERRY	UT24022	4,713	37	0.79	37	0.79	0.00
141	Leadville	NV00141	57,120	212	0.37	211	0.37	0.00
711	Shinn Peak Ind	CA00711	4,436	13	0.29	12	0.27	-0.02
6084	Anderson	ID06084	3,291	5	0.15	4	0.12	-0.03
6011	Dairy Creek	ID06011	4,812	95	1.97	93	1.93	-0.04
5348	Saddle Horse Basin	ID05348	349	11	3.15	10	2.87	-0.29

D-2.1.7 Aquatic Distributions, overlain with current CAs

MQ35 - WHERE WILL THE LIKELY RECHARGE AREAS (RELATING TO AQUATIC CEs) IDENTIFIED IN MQ 37 POTENTIALLY BE AFFECTED BY CHANGE AGENTS?

All of the likely recharge areas (areas above 2000 m (6562 feet), Figure D - 7) show very little alteration by current change agents, as represented by the Landscape Condition Model Index, because very little development has occurred at higher elevations within the ecoregion.

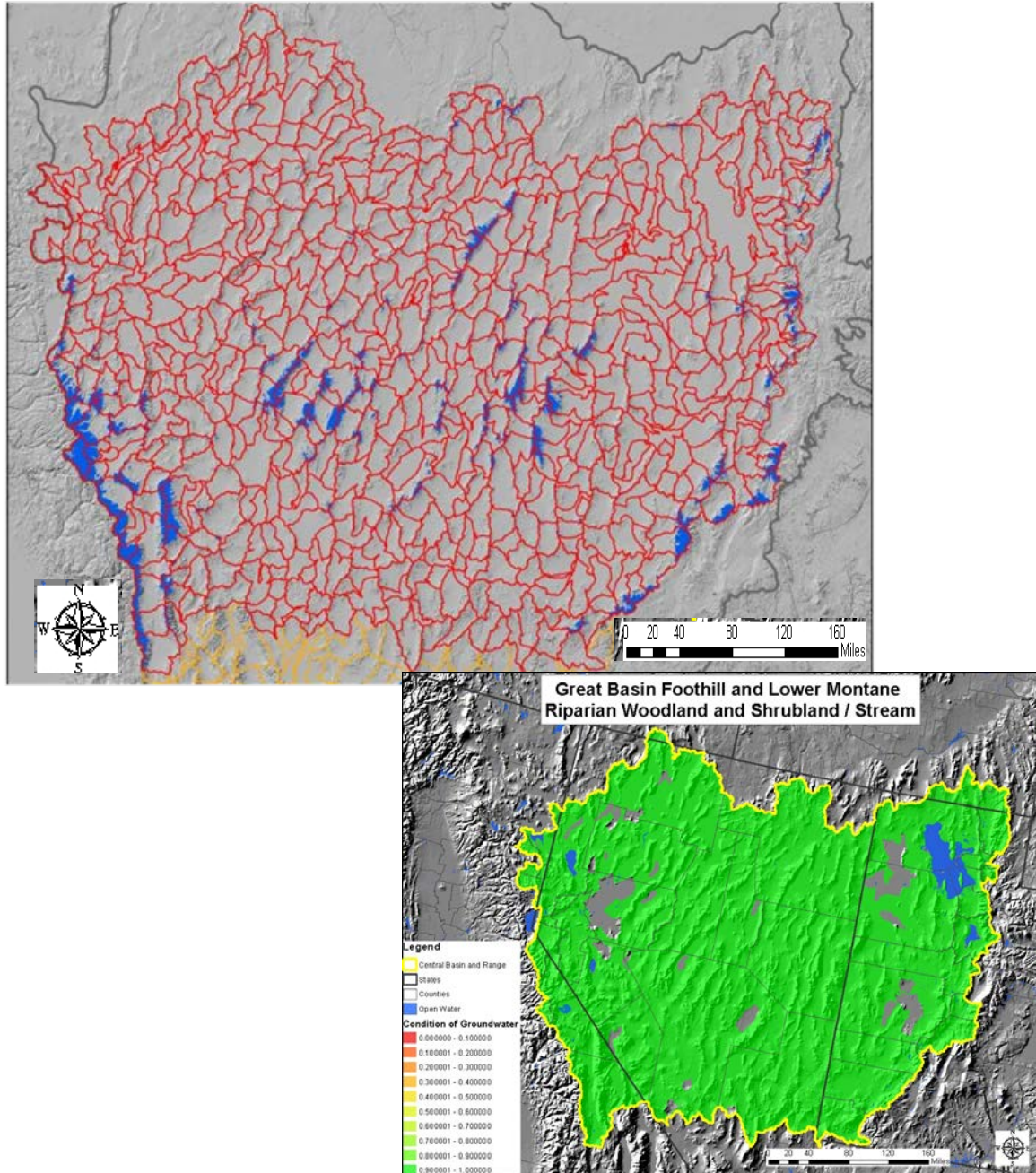


Figure D - 7. Location of likely groundwater recharge zones shown in blue (areas above 2000 m, 6562 feet-- not all areas visible at this scale) (left) and their condition (reported by watershed score, gray areas are watersheds with no recharge zones)(right). Very little hard-surface development has occurred within the likely recharge zones.

D-2.1.8 Groundwater consumption

MQ56 - WHAT IS THE PRESENT DISTRIBUTION OF MUNICIPAL AND AGRICULTURAL WATER USE OF GROUNDWATER RESOURCES IN RELATION TO THE DISTRIBUTION OF AQUATIC CES?

Groundwater use in the CBR ecoregion (Figure D - 8) is highest in approximately the same four sections of the ecoregion where surface water use is also highest: (1) the basin floor and toe of the slope of the Wasatch Front, from the vicinity of the Great Salt Lake south to the Virgin River valley; (2) a cluster of valleys in northwestern Nevada, northwest of Winnemucca; (3) scattered watersheds along the basin floor and toe of the slope of the Sierra Nevada Range, both north and south of Carson City; and (4) in scattered valleys in the center of the Central basin, including in the vicinity of and just west of Elko, NV. Most of these instances involve center-pivot irrigation for agriculture; we verified that these areas exhibit high densities of such irrigation systems through a rapid scan of satellite imagery (Google Earth). Center-pivot systems are highly visible in satellite imagery. Withdrawals from alluvial, basin fill, and regional aquifers have the potential to affect the hydrologic regime of perennial streams, wetlands, and springs in all affected watersheds.

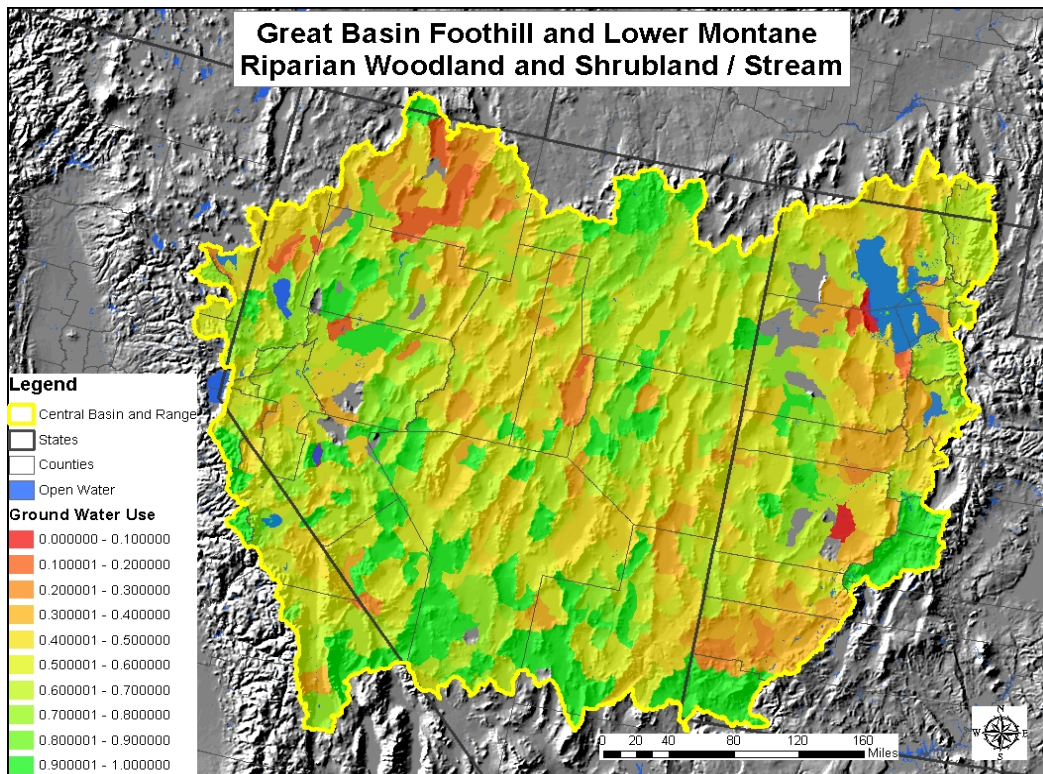


Figure D - 8. Groundwater use by watershed. Values were calibrated for watershed size and degree of wetness by dividing annual use by the total annual average surface flow. Results were highly skewed, even after log transformation: some watersheds have no water use, and others have extremely high values due to very low surface wetness values. Index values were calculated by log transformation and normalized to range between 0 (red) with the highest use/impact and 1 (green) with the lowest use/impact to aquatic conservation elements.

These comments pertain to current patterns of water use. Future conditions are addressed elsewhere as they may be affected by changes in the distribution of urban land use and by groundwater withdrawals for inter-basin, such as the Groundwater Development Project proposed by the Southern Nevada Water Authority (SNWA 2011).

D-2.1.9 Place I w/Aquatic Distributions, overlain with current CAs

MQ 19 - WHERE WILL THESE AQUATIC HIGH BIODIVERSITY SITES BE POTENTIALLY AFFECTED BY CHANGE AGENTS (ASIDE FROM CLIMATE CHANGE)?

Aquatic High Biodiversity sites co-occur with terrestrial high biodiversity areas (Figure D - 9), which are scattered throughout the ecoregion with heavy concentrations on the western and north eastern edges. Figure D - 10 shows results for the key ecological attribute of hydrologic condition, which provides a sense of the degree of hydrologic intactness corresponding to areas of high biodiversity, which support aquatic CEs.

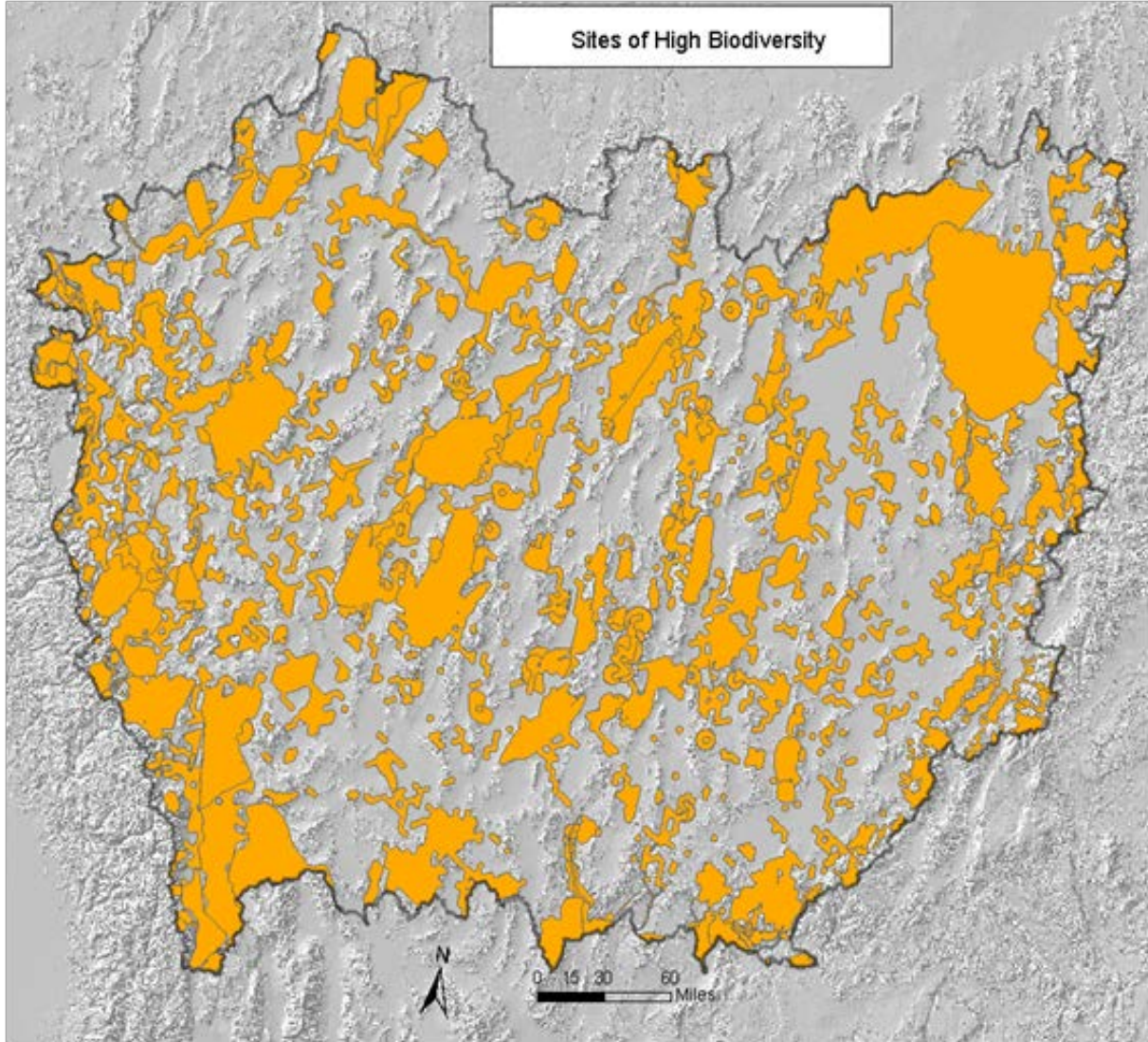


Figure D - 9. Sites of High Biodiversity

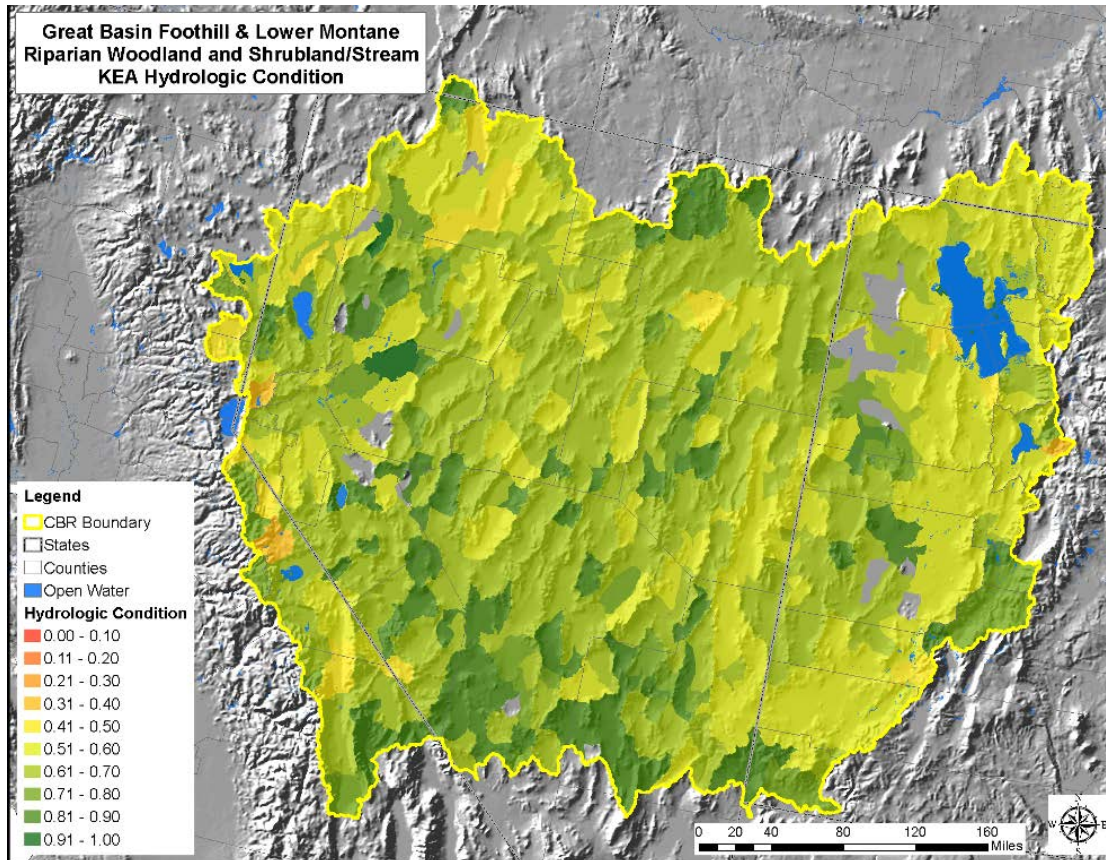


Figure D - 10. The Key Ecological Attribution of Hydrologic Condition for one aquatic CE summarizes 5 indicators measuring the degree of stress on hydrologic intactness: Surface water use, ground water use, number of aqueducts, flow modification by dams, and condition of groundwater recharge zones. This CE is representative of all the aquatic CEs in the ecoregion. Much of the ecoregion is in a moderate state of impact with the highest impact occurring along the western and eastern portions, which corresponds with many high biodiversity sites (Figure D - 9).

D-2.2 Specialized analyses: Restoration Potential

MQ7 - GIVEN CURRENT AND ANTICIPATED FUTURE LOCATIONS OF CHANGE AGENTS, WHICH HABITAT AREAS REMAIN AS OPPORTUNITIES FOR HABITAT ENHANCEMENT/ RESTORATION?

This analysis addressed a management question seeking potential habitat restoration sites, given forecasted development impacts as of 2025. Management question #7 specifically stated as: *Given current and anticipated future locations of change agents, which habitat areas remain as opportunities for habitat enhancement/ restoration?*

The location of habitat enhancement and restoration, areas for greater sage grouse in the CBR was addressed via a three pronged approach. Analysis parameters were directed to identify areas that are of moderate condition, with low Invasive Annual Grasses potential, and low potential for climate change shifts (Figure D - 11).

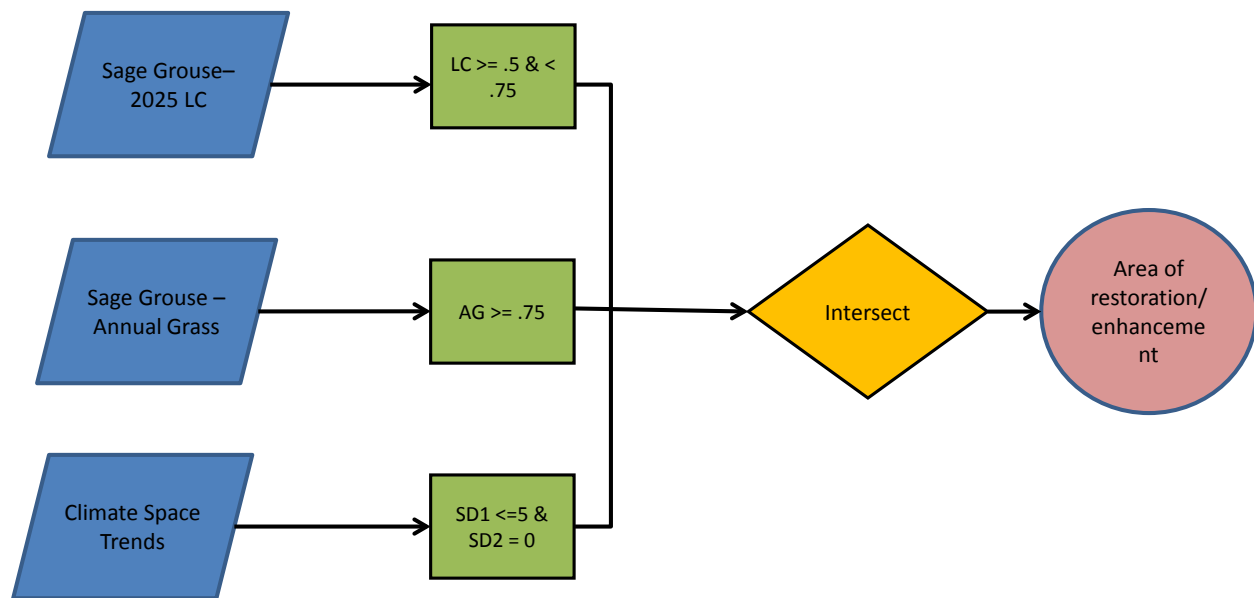


Figure D - 11. Conceptual model for identification of restoration/enhancement areas

Here we demonstrate how this question was answered for Greater sage-grouse habitat within the ecoregion. As opposed to sage-grouse lek locations, occupied habitat area for GSG was the focus; in this case using a 4 x 4 km grid as the spatial reporting unit. This type of analysis could be repeated for any number of CEs. Robust site selection for this purpose first considered the distribution and relative ecological status of terrestrial coarse-filter CEs. We utilized output from the conservation status scores per pixel. For GSG, indicators of landscape condition and invasive annual grasses were used. This eliminated pixels from the pool that are likely to be developed over the coming decade.

We then utilized output from the climate space-trend forecasts as of 2060, filtering potential sites for those where forecasted climate change is least intense. These areas include sites where temperature and precipitation variables are forecasted to be within 1 standard deviation of the 20th century baseline value (see Appendix B and subsequent sections of this report for detail on climate space trend analysis). These areas also coincide with “overlap” zones for this habitat type resulting from climate envelope analysis (again see climate change sections of this report for details on these methods).

This series of filters lead to the identification of areas highlighted in Figure D - 12. These areas, located along higher latitudinal and elevation gradients throughout the CBR, appear to provide a robust set of locations where GSG habitat restoration investments might be concentrated. Of course, given REA data limitations, these results should be considered to be preliminary. Field evaluation of these areas would provide more specific insights into a) the relative severity of existing landscape conditions and invasive species effects, b) the actual distribution of habitat relative to existing and proposed development patterns, and c) local management context, partners, and issues, that could either support or challenge efforts for habitat restoration.

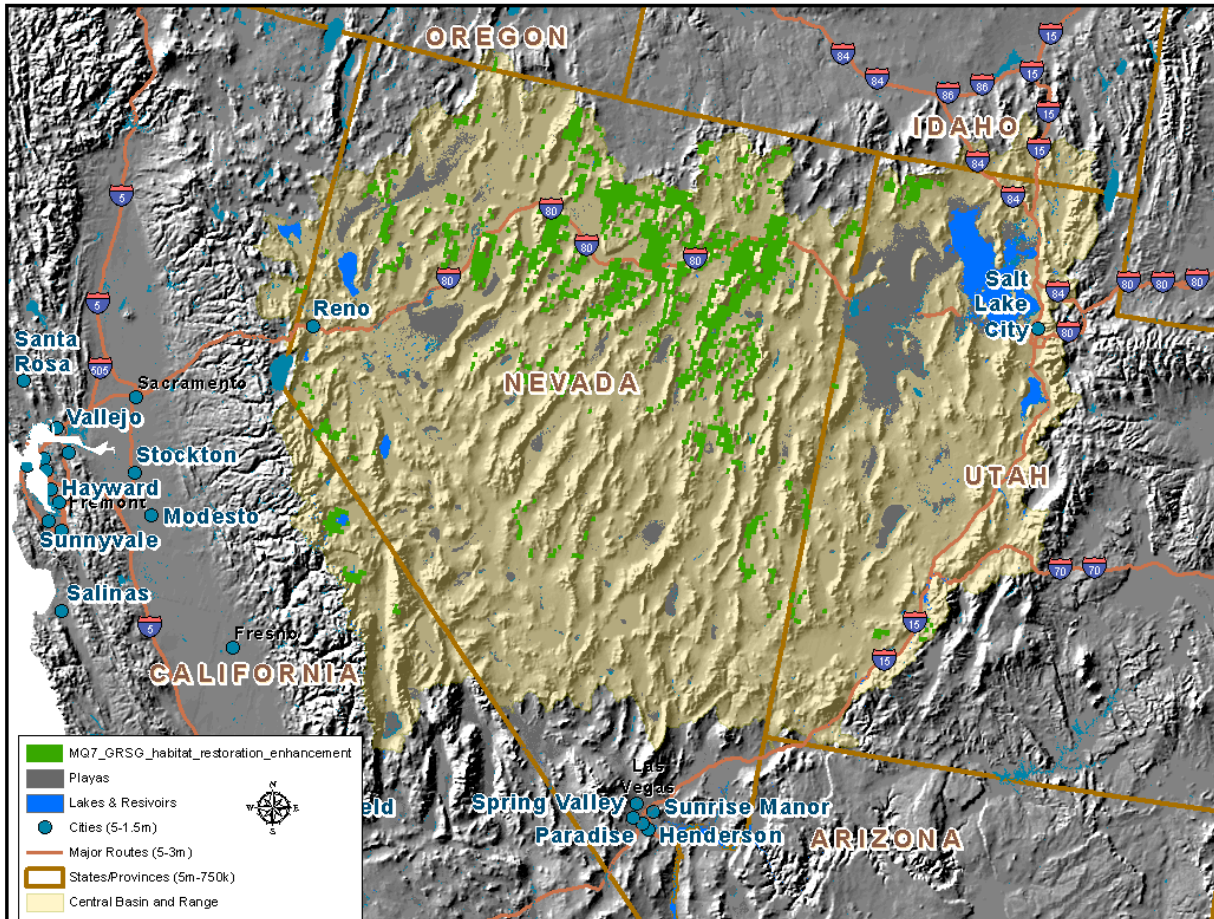


Figure D - 12. Potential Habitat Restoration/enhancement sites for Greater Sage-Grouse

MQ8 - WHERE ARE POTENTIAL AREAS TO RESTORE CONNECTIVITY FOR GREATER SAGE-GROUSE, BASED ON CURRENT LOCATIONS OF CHANGE AGENTS?

Building upon the above MQ7, the Greater Sage-Grouse restoration areas were filtered further to determine which area meeting conceptual model for MQ7 (Figure D - 12) met the criteria of moderate connectivity (methods for scoring connectivity for the ecological status are described in Appendix B), with connectivity scores between ≥ 0.50 and < 0.75 . The results are shown in Figure D - 13.

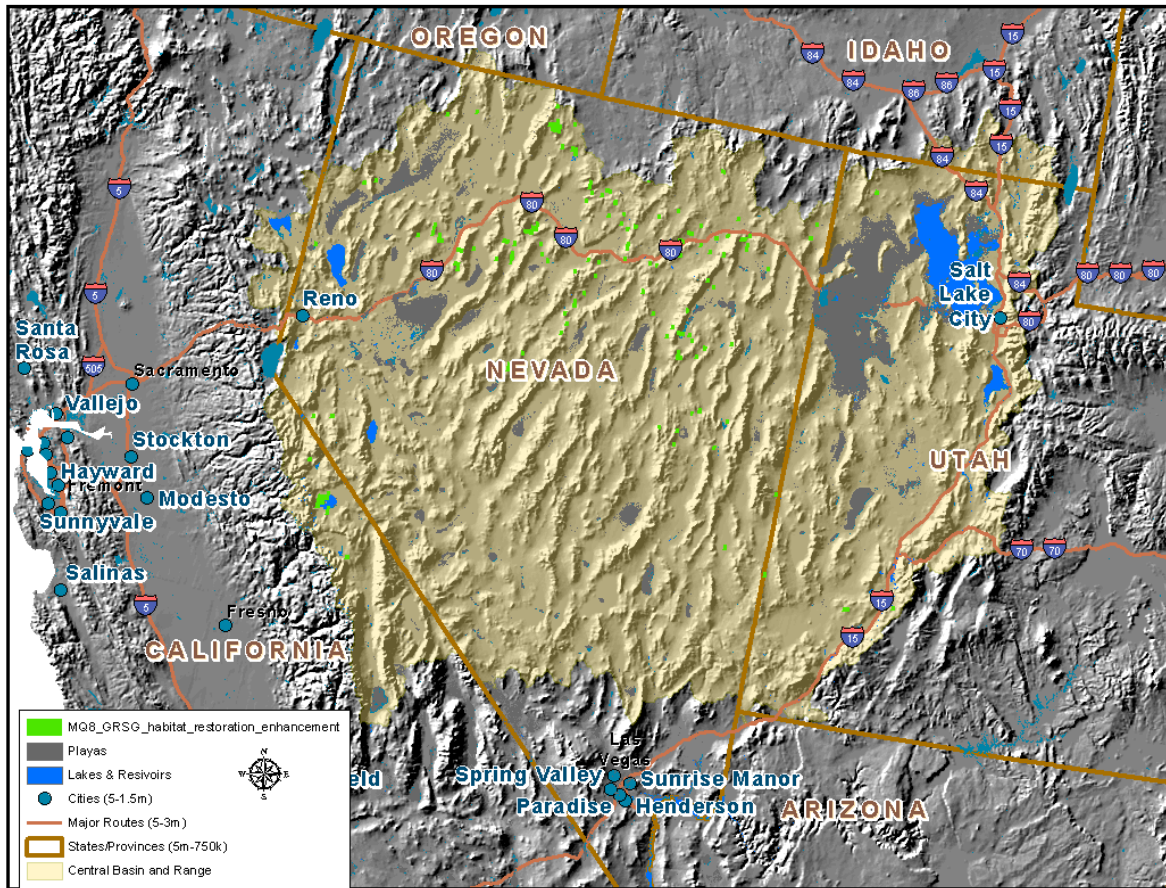


Figure D - 13. Potential connectivity restoration areas for greater sage-grouse

D-2.3 2025 Distribution: CEs and CAs

MQ12 - WHERE ARE EXISTING AND POTENTIAL FUTURE CAs (ASIDE FROM CLIMATE CHANGE) LIKELIEST TO AFFECT CURRENT COMMUNITIES?)

MQ5 - WHERE ARE SPECIES CEs WHOSE CURRENT LOCATIONS OR SUITABLE HABITATS OVERLAP WITH THE POTENTIAL FUTURE DISTRIBUTION OF CAs (OTHER THAN CLIMATE CHANGE)?

The footprint analysis (CA/CE intersect) employs the same basic assessment model as the current scenario. The 2025 scenario repeats similar patterns as observed in the current scenario. Overall, while there is relatively little change from the current scenario to the 2025 scenario in terms of the percent of the ecoregion, the pattern of increasing pressure especially on riparian areas and their obligates is consistent. Change from current to 2025 is not substantial because the total development CA footprint only increases 0.5%. Results for individual CEs are highly variable however, and we provide information on those CEs experiencing >1% (rounded) changes in development CA overlap with CEs:

- Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland/Stream (3%)
- Bald Eagle (4%)
- Migratory Shorebirds and Waterfowl Species Assemblage (2%)

The key development CA causing this change for all three CEs is urban and rural development in the same proportion as their overall reported change.

Table D - 6. CE and 2025 CA footprint analysis (intersect) for the Future (2025) Scenario. CEs are sorted into CE groups (e.g. coarse-filters, assemblages, landscape species), then in descending order by % of distribution overlapped by projected future development.

Element Name	Total Area (ac)	Development Footprint Total	No Development CA	Multiple Change Agents	Urban or Rural Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Solar	Renewable Energy Wind	Mine or landfill	Oil or gas well	Military Urbanized Area	Railroad	Water canal or ditch	Electric utility line	Pipeline	Crops or irrigated pasture	Roads principle or secondary	Roads rural private neighborhood	Roads Unimproved or 4wd	Roads - non motorized trails	Roads Unknown	Renewable Energy SEZ
Aquatic/Wetland/Riparian Coarse-filter Conservation Elements																							
Great Basin Springs and Seeps	25	25.23	74.77	0.90	2.70	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.61	0.00	9.01	0.00	0.00	0.00	0.00
Rocky Mountain Lower Montane-Foothill Riparian Woodland and Shrubland/Stream	164,935	24.14	75.86	4.47	12.06	0.01	0	0.00	0.05	0.00	0.00	0.00	0.07	0.25	0.27	0.05	3.25	0.26	2.18	0.98	0.24	0.00	0.00
Great Basin Foothill and Lower Montane Riparian Woodland and Shrubland	743,548	23.23	76.77	3.63	7.66	0.01	0	0.00	0.00	0.01	0.00	0.00	0.13	0.20	0.10	0.02	7.76	0.24	2.86	0.55	0.06	0.00	0.00
Inter-Mountain Basins Greasewood Flat	3,668,764	7.90	92.10	0.60	1.89	0.28	1	0.00	0.08	0.01	0.00	0.04	0.14	0.10	0.15	0.03	1.97	0.17	2.20	0.10	0.00	0.00	0.13
Rocky Mountain Subalpine-Montane Riparian Woodland and Shrubland/Stream	36,684	6.87	93.13	0.29	4.05	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.11	0.15	1.41	0.53	0.26	0.01	0.00
Inter-Mountain Basins Wash	1,984,600	6.32	93.68	0.25	1.51	0.06	14	0.00	0.05	0.02	0.00	0.00	0.03	0.01	0.11	0.02	0.75	0.11	2.91	0.37	0.02	0.00	0.09
Inter-Mountain Basins Playa	4,660,218	1.58	98.42	0.06	0.42	0.18	4	0.00	0.00	0.01	0.00	0.01	0.05	0.05	0.03	0.02	0.23	0.02	0.38	0.01	0.00	0.00	0.10
Great Basin Lake / Reservoir	1,595,308	1.29	98.71	0.15	0.66	0.00	0	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.03	0.00	0.23	0.01	0.07	0.03	0.00	0.00	0.00
Landscape Species Conservation Elements																							
Bald Eagle	4,786	62.16	37.84	21.93	27.29	0.04	0	0.00	0.00	0.04	0.00	0.00	0.05	0.30	0.14	0.02	5.03	1.47	4.87	0.72	0.26	0.00	0.00
Loggerhead Shrike	1,258,464	54.89	45.11	20.58	12.13	0.00	0	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.15	0.02	19.21	0.22	1.92	0.52	0.04	0.01	0.00
Golden Eagle	3,292	47.39	52.61	11.95	21.90	0.07	0	0.00	0.00	0.00	0.00	0.10	0.10	0.30	0.34	0.02	4.17	1.39	5.57	0.86	0.60	0.00	0.00
Savannah Sparrow	8,544,246	27.05	72.95	7.52	4.64	0.05	0	0.00	0.03	0.01	0.00	0.00	0.03	0.06	0.07	0.02	12.06	0.13	2.11	0.30	0.02	0.00	0.01
Ferruginous Hawk	7,186,910	22.36	77.64	6.79	4.13	0.00	0	0.00	0.03	0.06	0.00	0.00	0.05	0.06	0.15	0.04	8.26	0.14	2.17	0.45	0.02	0.00	0.01

Element Name	Total Area (ac)	Development Footprint Total	No Development CA	Multiple Change Agents	Urban or Rural Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Solar	Renewable Energy Wind	Mine or landfill	Oil or gas well	Military Urbanized Area	Railroad	Water canal or ditch	Electric utility line	Pipeline	Crops or irrigated pasture	Roads principle or secondary	Roads rural private neighborhood	Roads Unimproved or 4wd	Roads - non motorized trails	Roads Unknown	Renewable Energy SEZ
Northern Rubber Boa	845,018	20.96	79.04	3.19	8.17	0.01	0	0.00	0.00	0.01	0.00	0.00	0.11	0.16	0.09	0.02	6.02	0.27	2.36	0.51	0.05	0.00	0.00
Swainson's Hawk	21,512,594	11.92	88.08	3.15	2.00	0.01	3	0.00	0.03	0.01	0.00	0.00	0.02	0.02	0.07	0.01	5.02	0.07	1.28	0.20	0.01	0.00	0.01
Northern Harrier	25,286,086	11.64	88.36	2.46	1.93	0.07	0	0.00	0.06	0.03	0.00	0.01	0.05	0.04	0.11	0.02	4.37	0.14	2.18	0.16	0.00	0.00	0.02
Prairie Falcon	34,058,831	10.68	89.32	2.16	2.17	0.10	2725	0.01	0.08	0.06	0.00	0.01	0.03	0.03	0.11	0.02	3.34	0.13	2.07	0.21	0.01	0.00	0.15
Big brown bat	48,294,158	9.25	90.75	1.95	2.36	0.11	2729	0.01	0.07	0.03	0.00	0.01	0.04	0.04	0.10	0.02	2.47	0.16	1.56	0.18	0.01	0.00	0.13
Colombian sharp-tailed grouse	1,477,722	8.02	91.98	0.19	4.05	0.00	0	0.00	0.00	0.02	0.00	0.00	0.03	0.01	0.11	0.01	0.22	0.18	2.90	0.27	0.03	0.00	0.00
Brazilian free-tailed bat	61,843,262	7.36	92.64	1.16	2.19	0.10	2728	0.00	0.07	0.02	0.00	0.01	0.04	0.03	0.11	0.02	1.35	0.15	1.79	0.20	0.01	0.00	0.11
Cooper's hawk	18,278,920	7.20	92.80	1.43	3.38	0.01	0	0.00	0.02	0.06	0.00	0.02	0.02	0.03	0.08	0.01	0.52	0.19	1.14	0.25	0.02	0.00	0.00
Mule Deer Class F Summer Range	7,978,272	6.77	93.23	1.53	1.03	0.07	0	0.00	0.00	0.02	0.00	0.02	0.02	0.01	0.06	0.02	2.39	0.07	1.41	0.11	0.00	0.00	0.00
Common Kingsnake	24,680,279	6.08	93.92	0.74	1.79	0.21	2729	0.01	0.00	0.03	0.00	0.01	0.03	0.03	0.11	0.02	0.90	0.11	1.75	0.15	0.01	0.00	0.19
Sage Thrasher	52,736,355	5.75	94.25	0.29	1.88	0.11	2739	0.01	0.09	0.03	0.00	0.01	0.04	0.03	0.13	0.02	0.56	0.13	2.10	0.21	0.01	0.00	0.12
Pygmy Rabbit	10,047,058	5.72	94.28	0.26	1.68	0.04	0	0.00	0.11	0.00	0.00	0.00	0.04	0.02	0.13	0.03	0.31	0.17	2.71	0.19	0.00	0.00	0.03
Brewer's Sparrow (Breeding)	46,470,564	5.70	94.30	0.30	1.99	0.09	2722	0.01	0.08	0.03	0.00	0.00	0.03	0.02	0.13	0.02	0.48	0.12	2.06	0.21	0.01	0.00	0.11
Coachwhip	17,488,171	5.49	94.51	0.37	2.75	0.05	3	0.00	0.00	0.02	0.00	0.01	0.02	0.02	0.10	0.02	0.26	0.08	1.52	0.22	0.01	0.00	0.03
Greater Sage-Grouse Breeding Density 100%	10,396,134	5.46	94.54	0.21	1.02	0.01	0	0.00	0.06	0.14	0.00	0.00	0.02	0.01	0.09	0.01	1.53	0.12	1.97	0.20	0.01	0.00	0.05
White-tailed Jackrabbit	30,311,209	5.30	94.70	0.29	2.08	0.02	1	0.00	0.05	0.03	0.00	0.00	0.03	0.02	0.10	0.02	0.56	0.10	1.77	0.22	0.01	0.00	0.01
Mule Deer Class D Summer Range	15,133,067	5.05	94.95	0.33	1.73	0.04	0	0.00	0.04	0.05	0.00	0.00	0.01	0.01	0.11	0.02	0.60	0.10	1.67	0.31	0.02	0.00	0.00
Sage Sparrow	34,785,965	4.91	95.09	0.21	1.39	0.06	2725	0.01	0.04	0.06	0.00	0.00	0.03	0.02	0.11	0.01	0.56	0.13	2.01	0.21	0.01	0.00	0.04
Mule Deer Class B Summer Range	11,911,065	4.75	95.25	0.27	2.46	0.01	0	0.00	0.00	0.05	0.00	0.00	0.01	0.01	0.07	0.01	0.35	0.09	0.93	0.45	0.06	0.00	0.00
Kit Fox	40,761,010	4.50	95.50	0.18	1.13	0.11	2742	0.01	0.09	0.03	0.00	0.00	0.03	0.02	0.11	0.02	0.29	0.12	2.04	0.16	0.00	0.00	0.15
Greater Sage-Grouse Breeding Density 75%	683,582	4.41	95.59	0.05	0.38	0.67	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.94	0.18	1.82	0.33	0.00	0.00	0.00
Northern Sagebrush Lizard	68,546,113	4.34	95.66	0.21	1.53	0.08	2728	0.00	0.06	0.04	0.00	0.00	0.03	0.02	0.10	0.02	0.19	0.09	1.68	0.19	0.01	0.00	0.09
Great Basin Collared Lizard	27,887,752	4.33	95.67	0.17	1.09	0.12	2725	0.01	0.10	0.04	0.00	0.01	0.03	0.02	0.13	0.02	0.14	0.12	1.98	0.16	0.00	0.00	0.19

Element Name	Total Area (ac)	Development Footprint Total	No Development CA	Multiple Change Agents	Urban or Rural Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Solar	Renewable Energy Wind	Mine or landfill	Oil or gas well	Military Urbanized Area	Railroad	Water canal or ditch	Electric utility line	Pipeline	Crops or irrigated pasture	Roads principle or secondary	Roads rural private neighborhood	Roads Unimproved or 4wd	Roads - non motorized trails	Roads Unknown	Renewable Energy SEZ
Greater Sage-Grouse Occupied Habitat	18,397,421	4.15	95.85	0.12	0.73	0.04	0	0.00	0.02	0.02	0.00	0.00	0.01	0.01	0.04	0.01	0.99	0.01	2.01	0.14	0.00	0.00	0.01
Western Patch-nosed Snake	3,502,752	3.96	96.04	0.21	1.93	0.00	2	0.00	0.00	0.03	0.00	0.00	0.02	0.01	0.11	0.01	0.06	0.04	1.25	0.25	0.02	0.00	0.00
Greater Sage-Grouse Breeding Density 25%	4,358,460	3.27	96.73	0.08	0.32	0.08	0	0.00	0.00	0.01	0.00	0.00	0.02	0.01	0.07	0.02	0.67	0.14	1.73	0.14	0.00	0.01	0.00
Greater Sage-Grouse Breeding Density 50%	904,415	3.26	96.74	0.11	0.40	0.00	0	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.05	0.00	0.64	0.16	1.67	0.15	0.01	0.00	0.00
Clark's nutcracker	14,273,206	2.35	97.65	0.06	0.96	0.01	0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.04	0.03	0.90	0.21	0.02	0.00	0.00
Brewer's Sparrow (Migratory)	4,504,614	2.02	97.98	0.01	0.14	0.00	0	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.04	0.00	0.01	0.02	1.60	0.06	0.00	0.00	0.10
Desert big horn	7,962,296	1.47	98.53	0.01	0.10	0.09	0	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.08	0.02	0.94	0.11	0.01	0.00	0.00
Vulnerable Species Assemblage Conservation Elements																							
Migratory Shorebirds and Waterfowl Species Assemblage	110,765	24.09	75.91	6.23	8.66	0.15	0	0.00	0.02	0.00	0.00	0.01	0.12	0.20	0.14	0.04	6.25	0.21	1.70	0.23	0.01	0.00	0.11
Montane Conifer Species Assemblage	281,970	10.97	89.03	1.80	4.75	0.00	0	0.00	0.00	0.01	0.00	0.00	0.03	0.13	0.07	0.01	0.98	0.37	2.10	0.61	0.09	0.01	0.00
Sand Dunes and Sandy Soils Species Assemblage	79,390	9.15	90.85	0.67	4.38	0.46	0	0.00	0.00	0.00	0.00	0.04	0.12	0.06	0.25	0.03	0.36	0.17	2.35	0.24	0.01	0.00	0.00
Gypsum Soils Species Assemblage	338	4.80	95.20	0.46	3.75	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
Clay Soil Patches Species Assemblage	126,195	4.12	95.88	0.14	1.34	0.01	0	0.00	0.00	0.06	0.00	0.00	0.01	0.01	0.09	0.02	0.22	0.09	1.80	0.15	0.01	0.00	0.18
Azonal Carbonate Rock Crevices Species Assemblage	38,755	3.06	96.94	0.57	1.29	0.00	0	0.00	0.00	0.02	0.00	0.00	0.03	0.01	0.05	0.00	0.06	0.20	0.76	0.06	0.01	0.00	0.00
Carbonate Alpine Species Assemblage	35,438	1.32	98.68	0.01	0.62	0.00	0	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.52	0.07	0.00	0.02	0.00
Azonal Noncarbonate Rock Crevices	89,387	1.03	98.97	0.00	0.11	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.80	0.09	0.00	0.00	0.00

Element Name	Total Area (ac)	Development Footprint Total	No Development CA	Multiple Change Agents	Urban or Rural Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Solar	Renewable Energy Wind	Mine or landfill	Oil or gas well	Military Urbanized Area	Railroad	Water canal or ditch	Electric utility line	Pipeline	Crops or irrigated pasture	Roads principle or secondary	Roads rural private neighborhood	Roads Unimproved or 4wd	Roads - non motorized trails	Roads Unknown	Renewable Energy SEZ
Species Assemblage																							
Noncarbonate Alpine Species Assemblage	21,608	0.63	99.37	0.02	0.30	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.19	0.07	0.02	0.00	0.00
Terrestrial Coarse-filter Conservation Elements																							
Inter-Mountain Basins Semi-Desert Grassland	496,949	30.01	69.99	2.38	3.29	0.01	0	0.00	0.03	0.02	0.00	0.00	0.03	0.09	0.07	0.02	22.09	0.11	1.68	0.12	0.00	0.00	0.07
Great Basin Semi-Desert Chaparral	17,301	14.77	85.23	1.62	11.11	0.01	0	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.11	0.03	0.69	0.06	0.58	0.48	0.02	0.02	0.00
Inter-Mountain Basins Cliff and Canyon	185,680	8.36	91.64	1.54	0.64	0.04	0	0.00	0.01	4.93	0.00	0.00	0.01	0.01	0.04	0.01	0.16	0.12	0.68	0.14	0.01	0.00	0.00
Rocky Mountain Aspen Forest and Woodland	1,060,579	7.65	92.35	0.17	6.01	0.00	0	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.04	0.01	0.07	0.04	0.83	0.37	0.09	0.00	0.00
Colorado Plateau Mixed Low Sagebrush Shrubland	43,413	7.54	92.46	0.19	2.01	0.00	0	0.00	0.01	0.01	0.00	0.00	0.00	0.07	0.53	0.00	0.12	0.17	3.35	1.02	0.05	0.00	0.00
Inter-Mountain Basins Montane Sagebrush Steppe	3,847,354	6.41	93.59	0.33	3.59	0.01	0	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.05	0.01	0.20	0.06	1.73	0.34	0.04	0.00	0.00
Inter-Mountain Basins Semi-Desert Shrub-Steppe	448,086	5.97	94.03	0.29	1.51	0.03	3	0.00	0.40	0.01	0.00	0.00	0.07	0.02	0.12	0.03	0.57	0.36	2.19	0.18	0.01	0.00	0.17
Inter-Mountain Basins Big Sagebrush Shrubland	16,085,961	5.87	94.13	0.30	2.33	0.04	0	0.00	0.06	0.03	0.00	0.00	0.03	0.02	0.13	0.03	0.31	0.14	2.19	0.24	0.01	0.00	0.02
Inter-Mountain Basins Mixed Salt Desert Scrub	16,159,559	5.14	94.86	0.21	1.14	0.19	2722	0.02	0.15	0.02	0.00	0.01	0.04	0.02	0.16	0.03	0.22	0.15	2.31	0.16	0.00	0.00	0.32
Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland	98,599	4.61	95.39	0.09	3.58	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.03	0.38	0.42	0.08	0.00	0.00
Inter-Mountain Basins Big Sagebrush Steppe	1,591,258	4.50	95.50	0.22	1.43	0.18	0	0.00	0.00	0.04	0.00	0.00	0.02	0.01	0.10	0.02	0.42	0.07	1.82	0.17	0.00	0.00	0.00
Great Basin Xeric Mixed	8,202,634	2.92	97.08	0.09	0.68	0.03	0	0.00	0.01	0.05	0.00	0.00	0.01	0.01	0.06	0.01	0.06	0.07	1.72	0.11	0.00	0.00	0.00

Element Name	Total Area (ac)	Development Footprint Total	No Development CA	Multiple Change Agents	Urban or Rural Development	Renewable Energy Geothermal	Renewable Energy Solar	Renewable Energy Solar	Renewable Energy Wind	Mine or landfill	Oil or gas well	Military Urbanized Area	Railroad	Water canal or ditch	Electric utility line	Pipeline	Crops or irrigated pasture	Roads principle or secondary	Roads rural private neighborhood	Roads Unimproved or 4wd	Roads - non motorized trails	Roads Unknown	Renewable Energy SEZ
Sagebrush Shrubland																							
Mojave Mid-Elevation Mixed Desert Scrub	3,423,603	2.89	97.11	0.10	1.09	0.00	0	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.10	0.01	0.03	0.03	1.27	0.20	0.02	0.00	0.01
Great Basin Pinyon-Juniper Woodland	13,803,748	2.47	97.53	0.11	1.02	0.01	0	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.06	0.00	0.07	0.03	0.93	0.18	0.01	0.00	0.00
Rocky Mountain Alpine Turf	14,187	1.88	98.12	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	1.45	0.34	0.03	0.00	0.00
Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland	322,909	1.54	98.46	0.03	0.97	0.00	0	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.01	0.28	0.11	0.02	0.01	0.00
Inter-Mountain Basins Active and Stabilized Dune	104,792	1.45	98.55	0.07	0.18	0.03	0	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.15	0.01	0.51	0.00	0.00	0.00	0.45
Inter-Mountain Basins Subalpine Limber-Bristlecone Pine Woodland	106,601	0.28	99.72	0.01	0.01	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.19	0.06	0.00	0.00	0.00

D-2.3.1 Potential Renewable overlap with CEs

MQ90 - WHERE DO CURRENT LOCATIONS OF LANDSCAPE CEs OVERLAP WITH AREAS OF POTENTIAL FUTURE LOCATIONS OF RENEWABLE ENERGY DEVELOPMENT?

This assessment intersected the combined footprint of the landscape species CEs with the total potential renewable energy footprint. Fifty-one percent of the combined landscape species distribution is overlapped by potential renewable energy. While this assessment suggests the potential for large numbers of CEs and large areas of habitat to be impacted, as was pointed out in the renewable energy trends assessment earlier, only a small proportion of the total potential is expected to be developed.

In addition to answering this management question, this analysis seeks to address article 1.1.1 in the BLM Statement of Work for the REA:

Areas with High Potential for Renewable Energy Development (Required) (The Contractor shall: a) locate areas identified (e.g., by DOE, USGS) as suitable for wind, solar, geothermal, and biomass energy production and b) compare these with areas of change-agent disturbance, intact native vegetation, conservation elements of concern, and ecological integrity to c) identify and map the geographic distribution of areas that would have that have the fewest environmental effects from renewable energy development.

This analysis looks at the potential (or suitability) for three types of renewable energy development: wind, geothermal, and solar following the spatial model shown in Figure D - 14. The suitability areas were then combined with the landscape condition model which integrates elements of change agent disturbance (specifically development and invasive species) and a summary layer of landscape species richness (reflecting the number of landscape species by pixel). Lower values reflect fewer species and poorer landscape condition while higher scores reflect more species and higher landscape condition. At the landscape scale this would tend to indicate better versus worse places for renewable energy development relative to potential impacts on landscape species. The following figures (Figure D - 14, Figure D - 15, Figure D - 16) are graphics showing energy suitability in the ecoregion according to this method for each type of renewable energy. Higher values in these images show areas with greater numbers of landscape species and higher landscape condition, lower values show fewer landscape species and lower landscape condition. Lower value areas are likely more appropriate for renewable energy development but may not reflect specific species or habitats of concern (e.g. greater sage grouse or wetlands). For individual species of concern, assessment for individual proposed projects is necessary.

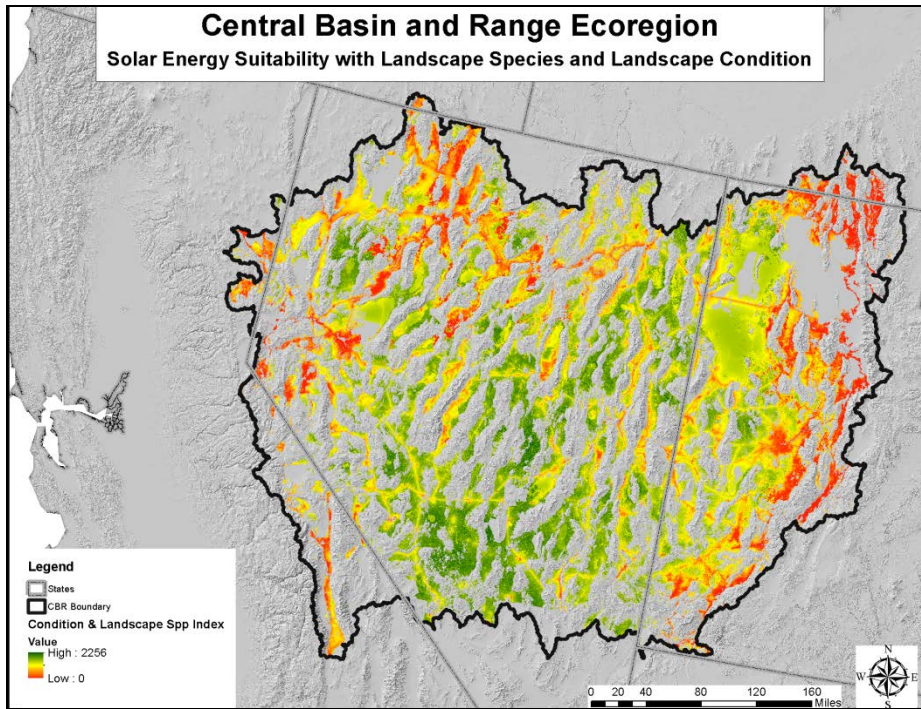


Figure D - 14. Solar Energy Suitability with Landscape Species and Landscape Condition

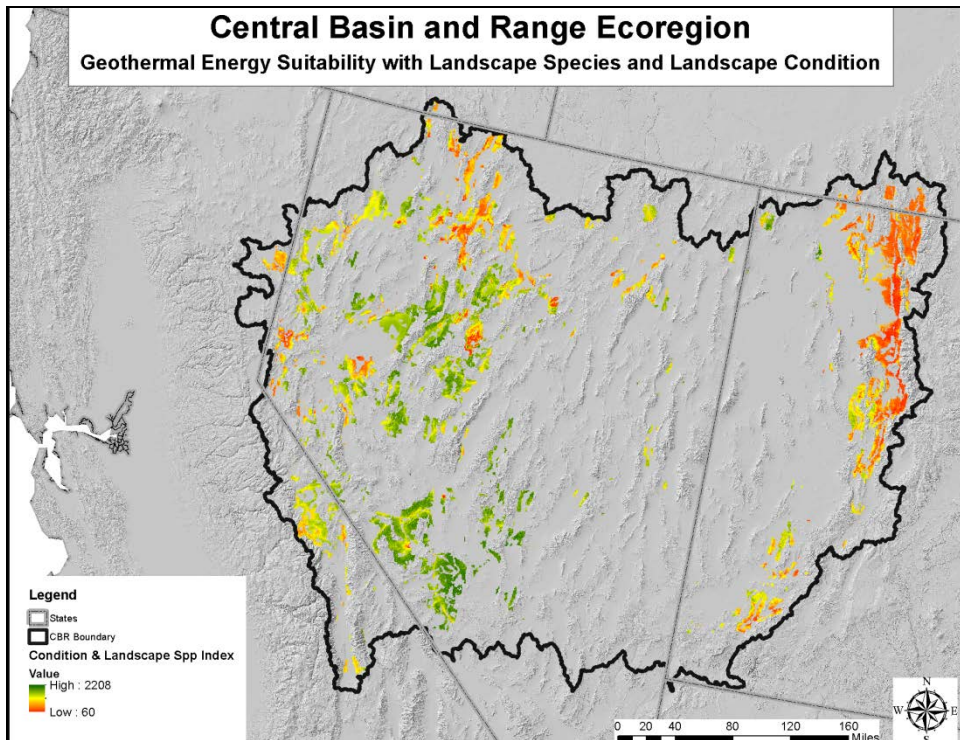


Figure D - 15. Geothermal Energy Suitability with Landscape Species and Landscape Condition

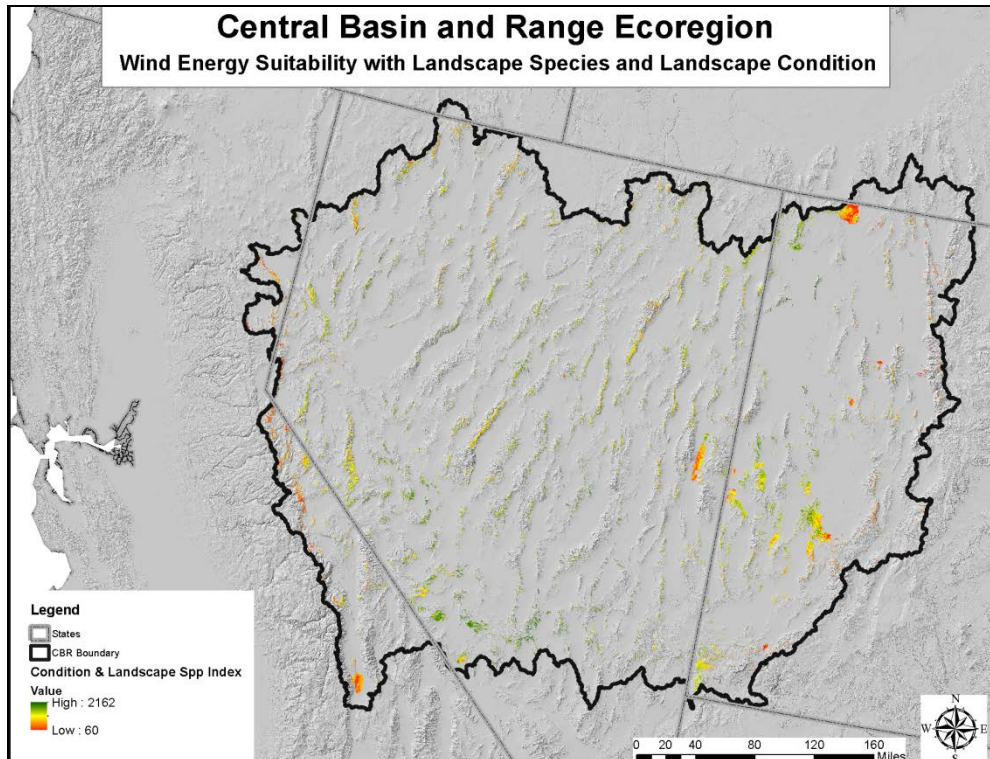


Figure D - 16. Wind Energy Suitability with Landscape Species and Landscape Condition

D-2.3.2 Energy impact mitigation sites

MQ89 - WHERE ARE THE AREAS OF LOW RENEWABLE AND NON-RENEWABLE ENERGY DEVELOPMENT POTENTIAL THAT COULD POTENTIALLY MITIGATE IMPACTS TO CES FROM POTENTIAL ENERGY DEVELOPMENT?

To answer this question, areas with low renewable energy potential (relatively free of such future development) were intersected with the Landscape Condition Model (LCM) results to identify areas unlikely to be developed (with renewables) *and* require and feasibly could accommodate restoration if that is a mitigation requirement. The resulting map (Figure D - 17) displays areas with low renewable energy development potential and their current condition to further inform their suitability for mitigation. While it is not anticipated that the full potential of renewable energy would be developed in the ecoregion, there are ample mitigation opportunities with over 43 million acres in the ecoregion presenting very little potential for renewable energy development. Note that further modeling and filtering of results could provide additional precision to the result (as was described in Memorandum 3c for this MQ) but the AMT concluded that a simpler analysis was appropriate for an REA and mitigation for individual projects takes into account a large number of factors and local information.

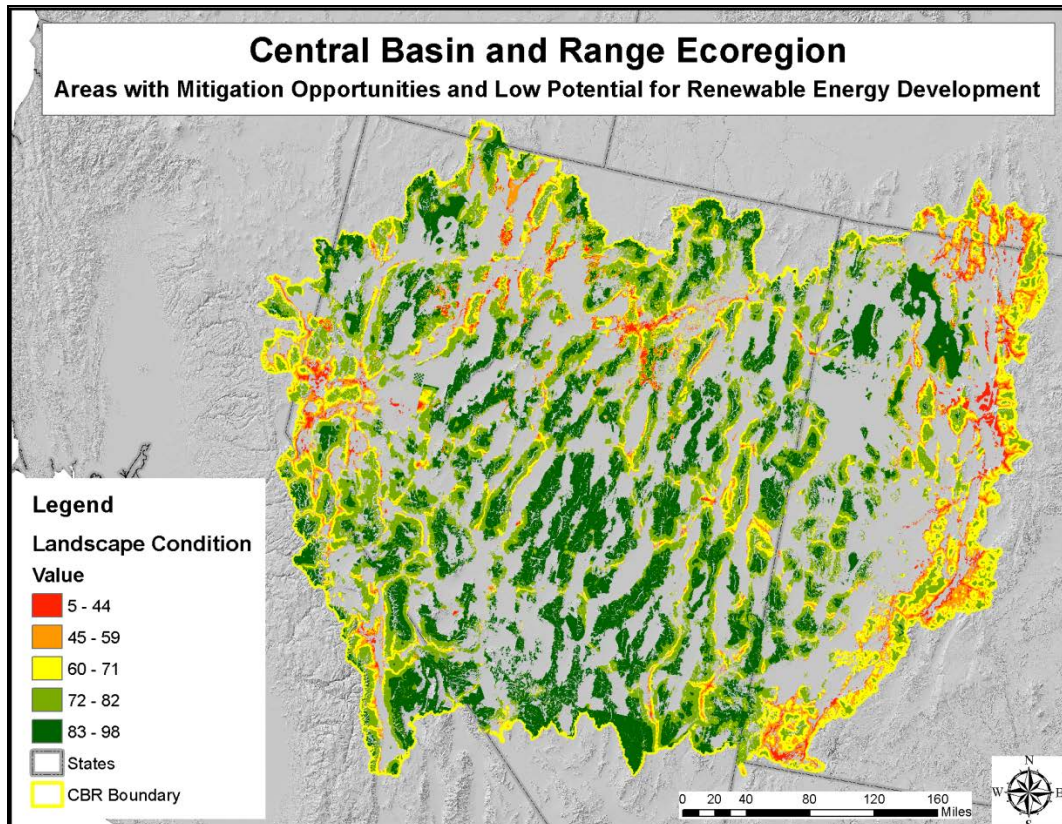


Figure D - 17. Potential mitigation areas for renewable energy development. All shaded areas have low renewable energy development potential. Areas in red are in very poor condition and thus may not offer suitable mitigation options. Green areas are in very good condition but may not meet requirements if restoration must be conducted for mitigation. Yellow areas have intermediate condition and may represent the most suitable mitigation opportunities where restoration is required.

D-2.4 2060 Distribution

D-2.4.1 Climate Change and Places

D-2.4.1.1 HMAs, HAs, GAS

MQ27 - WHICH HAS, HMAs AND GAS WILL EXPERIENCE CLIMATE OUTSIDE THEIR CURRENT CLIMATE ENVELOPE?

For this assessment, the climate space trends data layer was used to ascertain areas of significant climate changes. Cells that represent Near Term (2025) variance of overall counts of all variables with a Standard Deviation of one ($SD1 \leq 5$) with less than or equal to 5 and a Standard Deviation of two equal to 0 ($SD2=0$) were identified as areas of stable climate space (Figure D - 18). Above the threshold was identified as areas of significant change.

Conservation elements were then intersected with either of the resultant layers to identify areas dependent on the question. For example Herd Management Areas (Figure D - 19) and Grazing Allotments (Figure D - 20) were intersected with the areas of significant change in order to identify areas at risk of climate change.

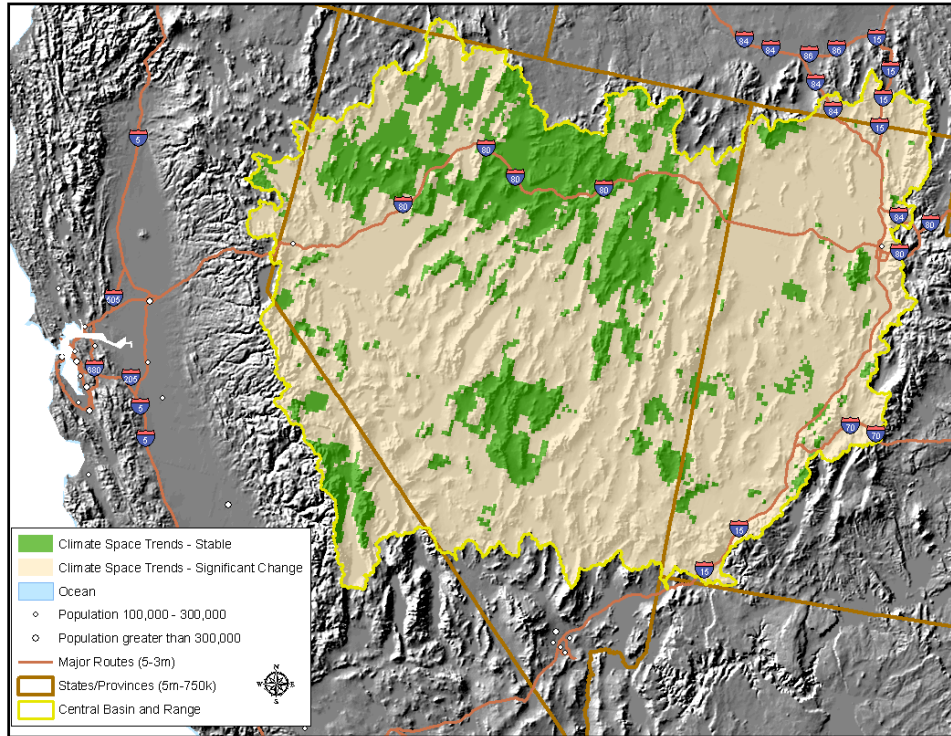


Figure D - 18. Areas in the CBR with projected significant climate change (beige). Green represents areas with projected stable climate, e.g. no significant change. See text for explanation of “significant”.

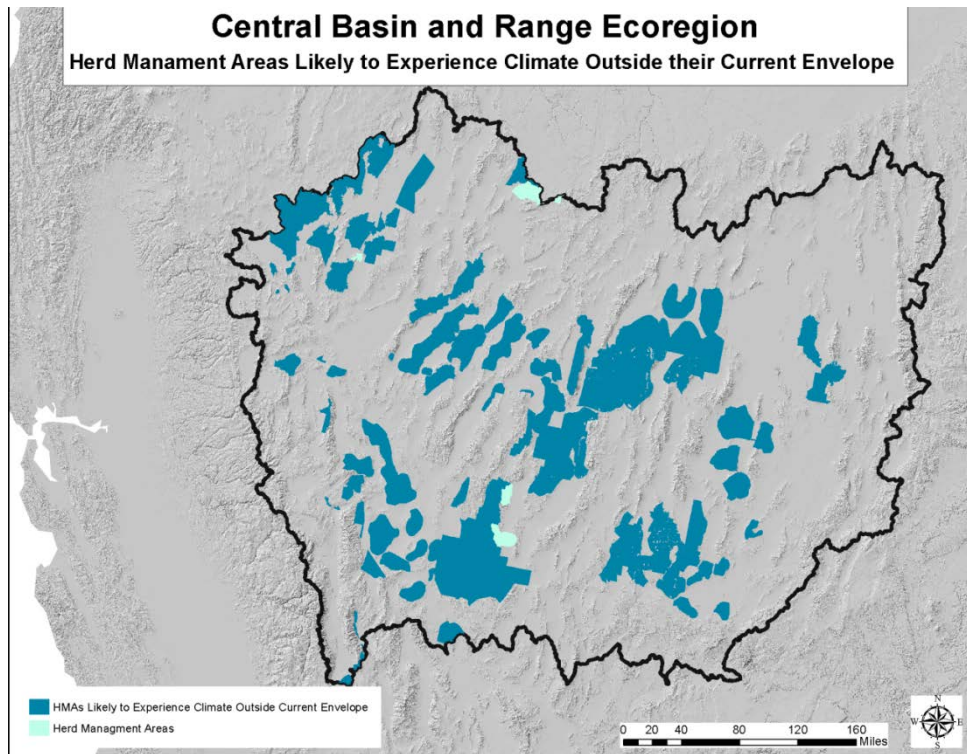


Figure D - 19. Herd management areas in the CBR that are projected to experience significant climate change by 2025.

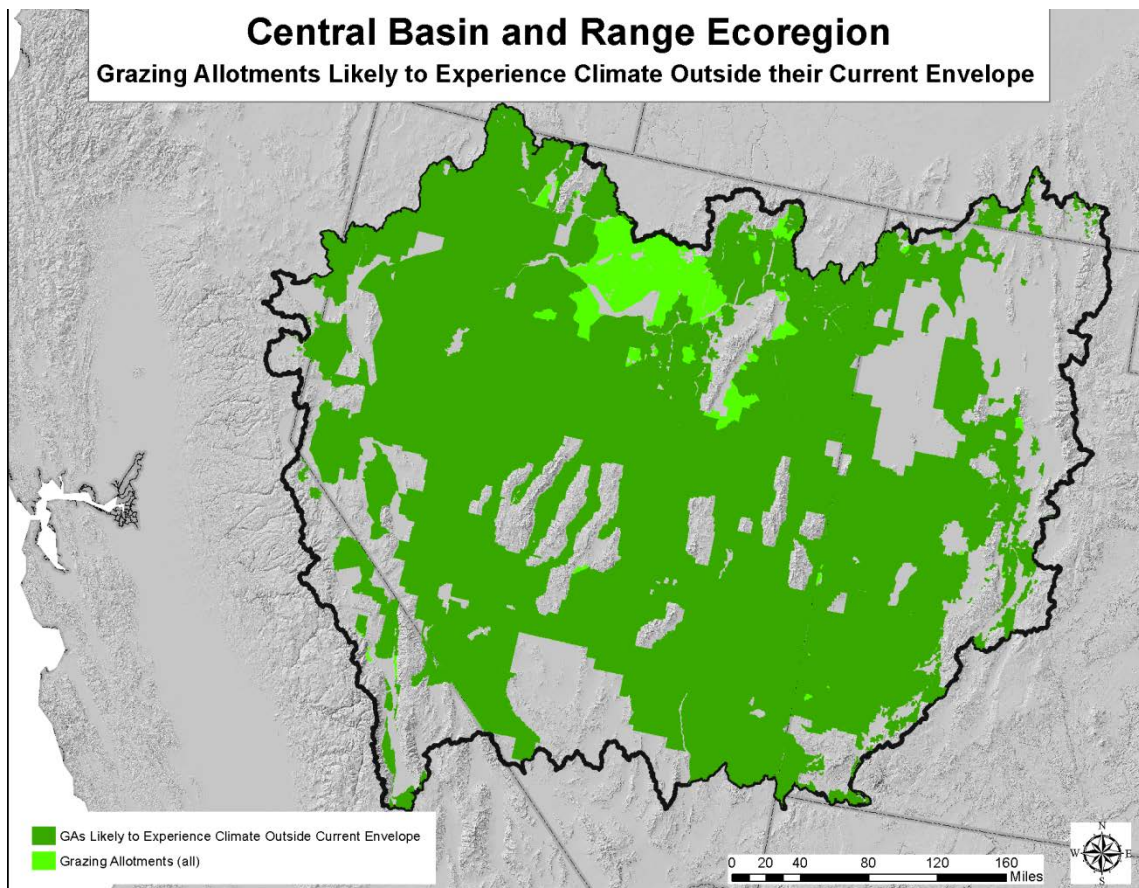


Figure D - 20. Grazing allotments in the CBR that are projected to experience significant climate change by 2025.

D-2.4.1.2 Aquatic Places II

MQ 20 - WHERE WILL CURRENT LOCATIONS OF THESE AQUATIC HIGH BIODIVERSITY SITES EXPERIENCE SIGNIFICANT DEVIATIONS FROM NORMAL CLIMATE VARIATION?

Most sites identified as having important biodiversity resources (Places II in Appendix C) support one or more of the aquatic coarse-filter CEs. Significant deviations (meaning increases) in minimum and maximum temperature are projected to occur throughout the entire ecoregion by 2025. The same climate change dataset in Figure D - 18 was intersected with high biodiversity sites to produce Figure D - 21.

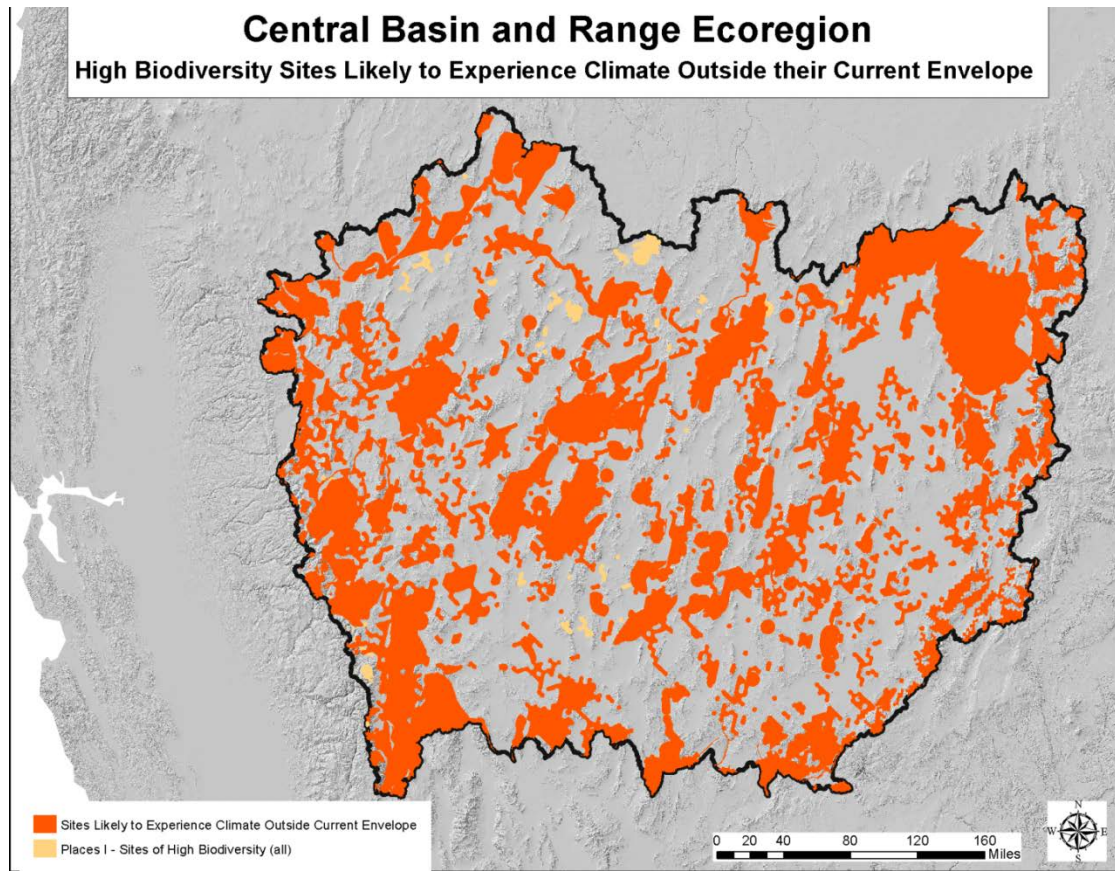


Figure D - 21. Places of high biodiversity that are projected to experience significant climate change by 2060. Most locations identified as high biodiversity support aquatic CEs.

D-2.4.2 Climate change and Aquatic CEs

MQ71 - WHERE WILL AQUATIC CEs EXPERIENCE SIGNIFICANT DEVIATIONS FROM HISTORIC CLIMATE VARIATION THAT POTENTIALLY COULD AFFECT THE HYDROLOGIC AND TEMPERATURE REGIMES OF THESE AQUATIC CEs?

Significant deviations (meaning increases) in minimum and maximum temperature are projected to occur throughout the entire ecoregion by 2060. The following effects may occur anywhere aquatic resources occur.

- (1) Higher evapotranspiration rates leading to an earlier, more rapid seasonal drying-down of stream/riparian and lacustrine CE occurrences;
- (2) Increased water stress in basin-floor phreatophyte communities (e.g., greasewood flats), and later, less frequent, briefer wetting of playas;
- (3) Shrinkage of areas of perennial flow/open water, coupled with higher water temperatures at locations/times when water temperatures are not controlled by groundwater discharges or snowmelt;
- (4) Persistence of these hydrologic conditions later into the Fall or early Winter; and
- (5) Reduced groundwater recharge in the mountains and reduced recharge to basin-fill deposits along the mountain-front/basin-fill interface.

Persistence of these impacts over multiple decades could result in several long-term impacts, including:

- (1) Senescence of riparian vegetation at lower elevations where the frequency and spatial extent of seasonal flows determines the spatial limits of this vegetation;
- (2) Senescence of basin-floor phreatophyte communities;
- (3) Declines in the spatial extent and biodiversity of perennial streams and open waters as a result of shrinkage and warmer temperatures; and
- (4) Reduced discharge to springs and seeps as a result of reduced aquifer recharge.
- (5) The increase in monthly minimum temperatures might result in a continuation of normal "warm-season" aquatic ecological dynamics later into the Fall, since seasonally normal (baseline) overnight near-freezing temperatures will become less common in many areas until later in the Fall.

D-2.4.3 Fire - Forecasted Departure

MQ43 - WHERE ARE AREAS THAT IN THE FUTURE WILL HAVE HIGH POTENTIAL FOR FIRE?

The 2060 time period of fire regime departure for each of the 16 individual conservation element ecological systems were combined across each 5th-level watershed using an area weighted average score of all CEs occurring within the watershed (Figure D - 22). The combined score emphasizes watersheds that are likely to undergo the most overall departure in fire regime.

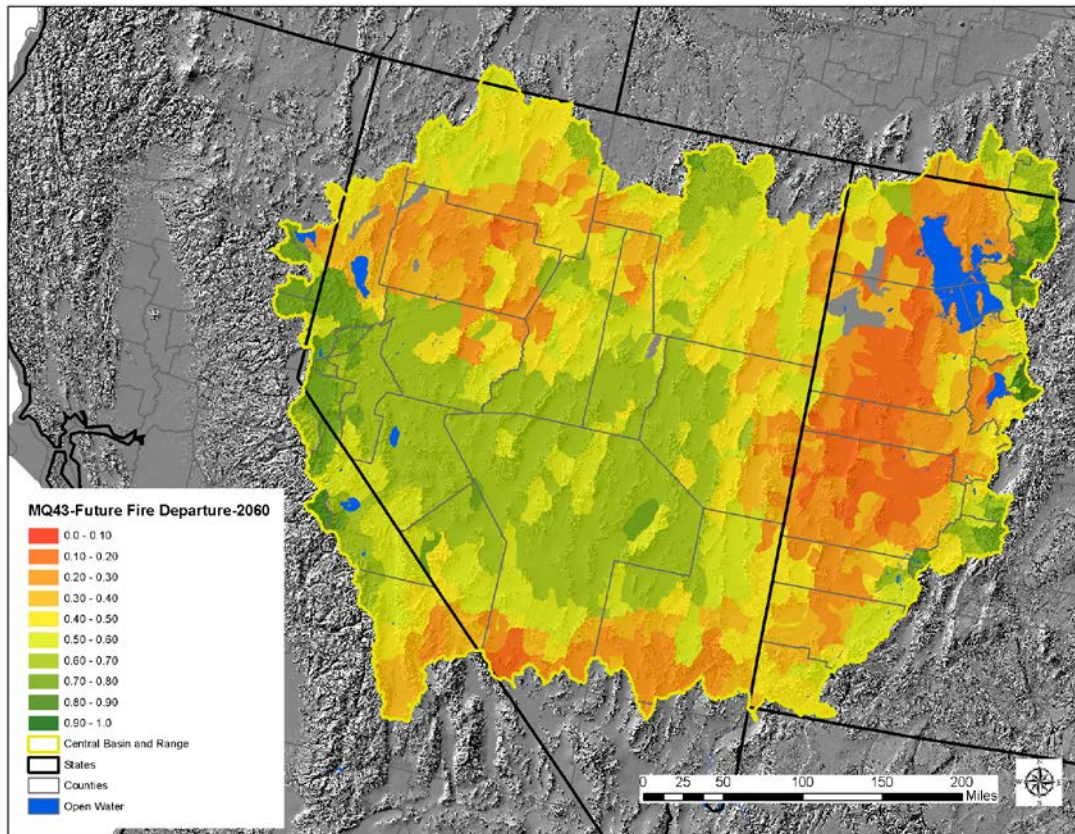


Figure D - 22. Area weighted fire regime departure for 2060; included all terrestrial coarse-filter CEs for which fire regime departure was calculated.

D-2.4.4 Climate Change Vulnerability Index Assessment for Species

Introduction

The Nevada Natural Heritage Program (NNHP) assessed the relative vulnerability, and the relative importance of factors contributing to that vulnerability, for approximately 370 plant and animal species in Nevada using the NatureServe Climate Change Vulnerability Index (CCVI). The wildlife assessments were initiated during the revision of Nevada's State Wildlife Action Plan (SWAP); plant species assessments were conducted within the context of the Bureau of Land Management's (BLM) Rapid Ecoregional Assessment (REA) process for the Central Great Basin and Mohave regions.

The CCVI was chosen for the SWAP project for a number of reasons: 1) it was designed as a rapid way of assessing a large number of species in a relatively short period of time; 2) it is cost-effective (free tool provided by NatureServe); 3) it is packaged as a programmed Excel workbook and is easy to use; 4) it was not overly technical; it was designed to be used by any person with a science background; and, 5) the results are presented in a way that allows the user to group taxa by their relative risk or by specific sensitivity factors, which helps direct management and adaptation.

These CCVI results are directly applicable to the CBR REA, as many of the species of conservation concern were assessed.

Overview of the NatureServe Climate Change Vulnerability Index (CCVI)

The CCVI uses a scoring system that integrates a species' predicted *exposure* (direct and indirect) to climate change within the assessment area (i.e., the state of Nevada) and a series of factors, all supported by published studies, associated with a species' *sensitivity* to changes in climate. The tool also incorporates documented or modeled response to climate change, if available. The tool weighs each sensitivity score depending on the magnitude of projected climate change, incorporates any documented or modeled responses, and calculates a final vulnerability index score.

Direct exposure is the magnitude of projected temperature and moisture change across the species' range within the assessment area. For this project, direct exposure was measured using climate data obtained from The Climate Wizard.¹ The Climate Wizard uses base climate projections previously downscaled by Maurer et al. (2007). As recommended in NatureServe's Guidelines for Using the NatureServe Climate Change Vulnerability Index (Young et al. 2011), a mid-century time line, Medium A1B emissions scenario, and ensemble average² of 16 general circulation models were used for the species' vulnerability assessments. Predicted moisture changes were based on the Hamon AET:PET Moisture Metric,³ also developed by The Climate Wizard team. This metric integrates temperature and precipitation through a ratio of actual evapotranspiration (AET) to potential evapotranspiration (PET) with consideration of total daylight hours and saturated vapor pressure (Young et al. 2011).

Indirect exposure includes phenomena such as sea level rise (not a factor in Nevada), the presence of natural and/or anthropogenic barriers that would hinder or prevent a species from dispersing to a new area with a favorable climate envelope, or human-induced land use changes designed to mitigate greenhouse gases (e.g., the construction of renewable energy projects such as wind farms or solar arrays may remove key habitats or create barriers).

There are six **species-specific sensitivity** factors considered by the CCVI. These factors are listed below with a brief summary/explanation.

¹ <http://www.climatewizard.org/>

² Ensemble average shows the temperature change projected by the middle model. That is, half of the models project a greater amount of change, and half of the models project less change as compared to the 1961-1990 baseline average.

³ <http://www.natureserve.org/prodServices/climatechange/ccvi.jsp>

1. *Dispersal and movements* – species with poor dispersal abilities may not be able to track shifting favorable climate envelopes.
2. *Predicted sensitivity to temperature and moisture changes* – species requiring specific moisture and temperature regimes may be less likely to find similar areas as the climate changes and previously-associated temperature and precipitation patterns uncouple. Four separate factors are scored here as listed below in a through d:
 - a. Historical and physiological sensitivity to changes in temperature.
 - b. Historical and physiological sensitivity to changes in precipitation, hydrology, or moisture regime.
 - c. Dependence on a specific disturbance regime likely to be impacted by climate change – species dependent on habitats that are maintained by regular disturbances (e.g., fires or flooding) are vulnerable to climate change-induced changes in the frequency and intensity of these disturbances.
 - d. Dependence on ice, ice-edge, or snow-cover habitats – the extent of oceanic ice sheets and mountain snow fields are decreasing as temperatures increase, imperiling species dependent on these habitats.
3. *Restriction to uncommon geological features or derivatives* – species requiring specific substrates, soils, or physical features such as caves, cliffs, or sand dunes may become vulnerable to climate change if their favored climate conditions shift to areas without these physical elements.
4. *Reliance on interspecific interactions* – because species will react idiosyncratically to climate change, those with tight relationships with other species may be threatened. A series of five factors are scored within this category as listed below in a through e:
 - a. Dependence on other species to generate habitat.
 - b. Dietary versatility (animals only).
 - c. Pollinator versatility (plants only).
 - d. Dependence on other species for propagule dispersal.
 - e. Forms part of an interspecific interaction not covered above.
5. *Genetic factors* – a species' ability to evolve adaptations to environmental conditions brought about by climate change is largely dependent on its existing genetic variation. Two factors are included in this category:
 - a. Measured genetic variation.
 - b. Occurrence of bottlenecks in recent evolutionary history.
6. *Phenological response to changing seasonal temperature and precipitation dynamics* – research suggests that some phylogenetic groups are declining due to lack of response to changing annual temperature dynamics (e.g., earlier onset of spring, longer growing season), including some bird species that have not advanced their migration times, and some temperate zone plants that are not moving their flowering times.

The final section of the CCVI incorporates any available data on **documented or modeled response** to climate change. This is an optional section and is not required for the CCVI to calculate a vulnerability score. If peer-reviewed, published data are available related to a species response to climate change (e.g., range shifts, range contraction, or phenology mismatches), the species response would be scored in this section. Additionally, the results of available species-specific models can be incorporated in this section.

After all of the appropriate factors are scored, an overall CCVI score is automatically calculated by the tool (i.e., Extremely Vulnerable, Highly Vulnerable, Moderately Vulnerable, Not

Vulnerable/Presumed Stable, or Not Vulnerable/Increase Likely), and a measure of confidence of the score (Very High, High, Moderate, Low) is provided. This confidence relates specifically to the level of uncertainty indicated by the assessor based on the range of values given for each factor. Checking a range of values for particular factors tends to decrease confidence in species information.

The CCVI does not include factors that are already considered in existing conservation status assessments. Conservation status ranks assess a species vulnerability to extinction from a wide variety of factors such as population size, range size, threats, and demographic factors. These types of factors are not repeated in the CCVI. The CCVI only takes into consideration those factors that are related to a species vulnerability to climate change. The goal is for the CCVI to complement NatureServe Conservation Status Ranks and not to partially duplicate factors. Ideally, CCVI scores and Conservation Status Ranks should be used in concert.

Complex interactions such as shifts in competitive, predator-prey, or host-parasite interactions are likely to be important as well, but they are not included in this rapid assessment because of the difficulty and unpredictability inherent in simultaneous evaluation of climate change on interacting species.

Applying the CCVI to Nevada's Species

Species' range maps and natural history information were obtained from a number of sources including the Nevada State Wildlife Action Plan (SWAP) (Wildlife Action Plan Team 2006), the NNHP Biotics database, The Revised Nevada Bat Conservation Plan (Bradley, et al. 2006), Atlas of the Breeding Birds of Nevada (Floyd et al. 2007), The Nevada Comprehensive Bird Conservation Plan (GBBO 2010), NatureServe Explorer,⁴ federal agency documents (e.g., USGS professional reports or published studies, USFWS Recovery Plans, Federal Register), field guides, and expert input.

Assessments were completed for a representative group of species within each wildlife taxonomic group. After these initial CCVI scores were calculated by NNHP, an expert workshop was held (December 2009 in Reno) to solicit feedback and comments from biologists working throughout Nevada. The two-day workshop was well-attended and included representatives from federal (BLM, EPA, NPS, USFS, and USFWS) and state (NDOW, NNHP) agencies, a non-profit organization (TNC), and academia (UNR). Highly constructive comments and feedback were obtained from the attendees on the scoring of the factors, and additional species information was also obtained to better inform the assessments. All feedback and comments were incorporated into the CCVI for each species and scores were recalculated.

In total, 373 species were assessed using the CCVI (348 animals and 25 plants). A total of 256 of the wildlife species are included in the SWAP as Nevada SOCP. The results of the CCVI assessments can be found under separate cover in a table entitled *CBR_MBR_CCVI_Results_Animals and Plants_BLM REA_04-17-12.xlsx*. The below table provides the results of the CCVI for all species, although not all of them were identified to be in the list of species for this REA.

⁴ <http://www.natureserve.org/explorer/>

Table D - 7. Climate change vulnerability index assessment results for Nevada species. *EV = Extremely vulnerable; HV = highly vulnerable; MV = moderately vulnerable; PS = Not Vulnerable/Presumed Stable; IL = Not Vulnerable/Increase Likely

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Invert-Mollusk	Anodonta californiensis	California floater	Coarse Filter	MV	Mod	Yes
Invert-Mollusk	Assiminea infima	Badwater snail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Eremopyrgus eganensis	Steptoe hydrobe	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Fluminicola dalli	Pyramid Lake pebblesnail	Coarse Filter	HV	VH	Yes
Invert-Mollusk	Fluminicola turbiniformis	turban pebblesnail	Coarse Filter	HV	VH	
Invert-Mollusk	Fluminicola virginius	Virginia Mountains pebblesnail	Coarse Filter	HV	VH	Yes
Invert-Mollusk	Juga interioris	smooth juga	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis aloba	Duckwater springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis anatina	southern Duckwater springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis anguina	longitudinal gland springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis augustae	elongate Cain Spring springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis aurata	Pleasant Valley springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis avernalis	Moapa pebblesnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis basiglans	large gland Carico springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis bifurcata	small gland Carico springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis breviloba	Flag springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis bruesi	Fly Ranch springsnail	Coarse Filter	HV	Low	Yes
Invert-Mollusk	Pyrgulopsis bryantwalkeri	Cortez Hills pebblesnail or Carlin springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis carinata	carinate Duckwater springsnail	Coarse Filter	PS	VH	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Invert-Mollusk	Pyrgulopsis carinifera	Moapa Valley springsnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis coloradensis	Blue Point springsnail	Coarse Filter	MV	VH	
Invert-Mollusk	Pyrgulopsis cruciglans	transverse gland springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis crystalis	Crystal Spring springsnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis deaconi	Spring Mountains springsnail	Coarse Filter	HV	VH	
Invert-Mollusk	Pyrgulopsis dixensis	Dixie Valley springsnail	Coarse Filter	MV	VH	Yes
Invert-Mollusk	Pyrgulopsis erythropoma	Ash Meadows pebblesnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis fairbanksensis	Fairbanks springsnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis fausta	Corn Creek springsnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis gracilis	Emigrant springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis hovinghi	Upper Thousand Spring springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis hubbsi	Hubbs springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis humboldtensis	Humboldt springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis imperialis	Kings River springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis isolata	elongate-gland springsnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis landyei	Landyes springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis lata	Butterfield springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis lentiglans	Crittenden springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis leporina	Elko pyrg	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis limaria	squat Mud Meadows springsnail	Coarse Filter	HV	VH	Yes
Invert-Mollusk	Pyrgulopsis lockensis	Lockes springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis marcida	Hardy springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis merriami	Pahranagat pebblesnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis micrococcus	Oasis Valley springsnail	Coarse Filter	MV	VH	Yes
Invert-Mollusk	Pyrgulopsis militaris	northern Soldier Meadow pyrg	Coarse Filter	HV	VH	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Invert-Mollusk	Pyrgulopsis millenaria	Twentyone Mile springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis montana	Camp Valley springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis nanus	distal-gland springsnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis neritella	neritiform Steptoe Ranch springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis notidicola	elongate Mud Meadows springsnail	Coarse Filter	HV	VH	Yes
Invert-Mollusk	Pyrgulopsis orbiculata	sub-globose Steptoe Ranch springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis papillata	Big Warm Spring springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis peculiaris	bifid duct springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis pellita	Antelope Valley springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis pictilis	ovate Cain Spring springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis pisteri	median-gland springsnail	Coarse Filter	PS	VH	
Invert-Mollusk	Pyrgulopsis planulata	flat-topped Steptoe springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis ruinosa	Fish Lake springsnail	Coarse Filter	HV	VH	Yes
Invert-Mollusk	Pyrgulopsis sadai	Sada's springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis sathos	White River Valley springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis serrata	northern Steptoe springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis sterilis	sterile basin springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis sublata	Lake Valley springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis sulcata	southern Steptoe springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis turbatrix	southeast Nevada springsnail	Coarse Filter	HV	VH	
Invert-Mollusk	Pyrgulopsis umbilicata	southern Soldier Meadow springsnail	Coarse Filter	HV	VH	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Invert-Mollusk	Pyrgulopsis variegata	northwest Bonneville springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis villacampae	Duckwater warm springs springsnail	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Pyrgulopsis vinyardi	Vinyard's springsnail	Coarse Filter	EV	VH	Yes
Invert-Mollusk	Pyrgulopsis wongi	Wong's pyrg	Coarse Filter	MV	VH	Yes
Invert-Mollusk	Tryonia angulata	sportinggoods tryonia	Coarse Filter	PS	VH	
Invert-Mollusk	Tryonia clathrata	grated tryonia	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Tryonia elata	Point of Rocks tryonia	Coarse Filter	PS	VH	
Invert-Mollusk	Tryonia ericae	minute tryonia	Coarse Filter	PS	VH	
Invert-Mollusk	Tryonia monitorae	Monitor tryonia	Coarse Filter	PS	VH	Yes
Invert-Mollusk	Tryonia porrecta	desert springsnail	Coarse Filter	MV	VH	Yes
Invert-Mollusk	Tryonia variegata	Amargosa tryonia	Coarse Filter	PS	VH	
Fish	Catostomus clarki intermedius	White River desert sucker		HV	VH	
Fish	Catostomus clarkii ssp. 2	Meadow Valley Wash desert sucker		PS	Low	
Fish	Catostomus latipinnis	flannelmouth sucker	Coarse Filter	PS	VH	Yes
Fish	Catostomus sp. 1	Wall Canyon sucker	Coarse Filter	MV	VH	Yes
Fish	Chasmistes cujus	cui-ui	Coarse Filter	MV	VH	Yes
Fish	Crenichthys baileyi albivallis	Preston White River springfish	Coarse Filter	PS	VH	Yes
Fish	Crenichthys baileyi baileyi	White River springfish	Coarse Filter	PS	VH	Yes
Fish	Crenichthys baileyi grandis	Hiko White River springfish	Coarse Filter	PS	VH	Yes
Fish	Crenichthys baileyi moapae	Moapa White River springfish	Coarse Filter	PS	VH	
Fish	Crenichthys baileyi thermophilus	Moorman White River springfish	Coarse Filter	PS	VH	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Fish	<i>Crenichthys nevadae</i>	Railroad Valley springfish	Coarse Filter	PS	VH	Yes
Fish	<i>Cyprinodon diabolis</i>	Devils Hole pupfish	Coarse Filter	PS	VH	
Fish	<i>Cyprinodon nevadensis mionectes</i>	Ash Meadows Amargosa pupfish	Coarse Filter	PS	VH	
Fish	<i>Cyprinodon nevadensis pectoralis</i>	Warm Springs pupfish	Coarse Filter	PS	VH	
Fish	<i>Empetrichthys latos</i>	Pahrump poolfish	Coarse Filter	MV	VH	
Fish	<i>Eremichthys acros</i>	desert dace	Coarse Filter	MV	VH	Yes
Fish	<i>Gila alvordensis</i>	Alvord chub	Coarse Filter	HV	Low	Yes
Fish	<i>Gila bicolor eurysoma</i>	Sheldon tui chub		HV	VH	
Fish	<i>Gila bicolor isolata</i>	Independence Valley tui chub	Coarse Filter	PS	Low	Yes
Fish	<i>Gila bicolor ssp. 4</i>	Fish Lake Valley tui chub	Coarse Filter	PS	VH	Yes
Fish	<i>Gila bicolor ssp. 6</i>	Little Fish Lake Valley tui chub	Coarse Filter	HV	Mod	Yes
Fish	<i>Gila bicolor ssp. 7</i>	Railroad Valley tui chub	Coarse Filter	MV	VH	Yes
Fish	<i>Gila bicolor ssp. 8</i>	Big Smoky Valley tui chub	Coarse Filter	HV	VH	Yes
Fish	<i>Gila bicolor ssp. 9</i>	Dixie Valley tui chub	Coarse Filter	PS	High	Yes
Fish	<i>Gila elegans</i>	bonytail	Coarse Filter	PS	VH	
Fish	<i>Gila robusta jordani</i>	Pahranagat roundtail chub	Coarse Filter	PS	VH	Yes
Fish	<i>Gila seminuda</i>	Virgin River chub	Coarse Filter	PS	VH	Yes
Fish	<i>Lepidomeda albivallis</i>	White River spinedace	Coarse Filter	PS	VH	Yes
Fish	<i>Lepidomeda mollispinis mollispinis</i>	Virgin River spinedace	Coarse Filter	PS	VH	Yes
Fish	<i>Lepidomeda mollispinis pratensis</i>	Big Spring spinedace	Coarse Filter	MV	VH	Yes
Fish	<i>Moapa coriacea</i>	Moapa dace	Coarse Filter	PS	VH	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Fish	<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout		MV	VH	
Fish	<i>Oncorhynchus clarkii bouvieri</i>	Yellowstone cutthroat trout	Coarse Filter	MV	VH	Yes
Fish	<i>Oncorhynchus mykiss</i> pop. 4	Warner Valley Redband Trout	Coarse Filter	HV	VH	
Fish	<i>Plagopterus argentissimus</i>	woundfin	Coarse Filter	PS	VH	Yes
Fish	<i>Prosopium williamsoni</i>	mountain whitefish		MV	Mod	
Fish	<i>Rhinichthys osculus lariversi</i>	Big Smoky Valley speckled dace	Coarse Filter	HV	VH	Yes
Fish	<i>Rhinichthys osculus lethoporus</i>	Independence Valley speckled dace	Coarse Filter	HV	VH	Yes
Fish	<i>Rhinichthys osculus moapae</i>	Moapa speckled dace	Coarse Filter	PS	VH	
Fish	<i>Rhinichthys osculus nevadensis</i>	Ash Meadows speckled dace	Coarse Filter	PS	VH	
Fish	<i>Rhinichthys osculus oligoporus</i>	Clover Valley speckled dace	Coarse Filter	HV	VH	Yes
Fish	<i>Rhinichthys osculus</i> ssp. 10	Diamond Valley speckled dace	Coarse Filter	HV	VH	Yes
Fish	<i>Rhinichthys osculus</i> ssp. 11	Meadow Valley speckled dace		PS	Mod	
Fish	<i>Rhinichthys osculus</i> ssp. 5	Monitor Valley speckled dace	Coarse Filter	HV	VH	Yes
Fish	<i>Rhinichthys osculus</i> ssp. 6	Oasis Valley speckled dace	Coarse Filter	PS	VH	Yes
Fish	<i>Rhinichthys osculus</i> ssp. 7	White River speckled dace	Coarse Filter	MV	VH	Yes
Fish	<i>Rhinichthys osculus velifer</i>	Pahrnagat speckled dace	Coarse Filter	PS	VH	Yes
Fish	<i>Salvelinus confluentus</i> pop. 4	bull trout	Coarse Filter	HV	Low	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Fish	Xyrauchen texanus	razorback sucker	Coarse Filter	IL	Low	
Amphibian	Anaxyrus (=Bufo) boreas boreas	boreal toad		PS	VH	
Amphibian	Bufo cognatus	Great Plains toad	Coarse Filter	PS	VH	
Amphibian	Bufo microscaphus	Arizona toad (southwestern toad)	Coarse Filter	PS	VH	
Amphibian	Bufo nelsoni	Amargosa toad	Coarse Filter	PS	VH	
Amphibian	Rana luteiventris	Columbia spotted frog (Toiyabe sub-population)	Coarse Filter	HV	Low	Yes
Amphibian	Rana luteiventris	Columbia spotted frog (NE sub-population)	Coarse Filter	HV	Low	Yes
Amphibian	Rana onca	relict leopard frog	Coarse Filter	MV	VH	
Amphibian	Rana pipiens	northern leopard frog	Coarse Filter	PS	VH	Yes
Amphibian	Rana sierrae	Sierra Nevada mountain yellow-legged frog	Local	PS	VH	Yes
Amphibian	Spea intermontana	Great Basin spadefoot	Coarse Filter	MV	Mod	Yes
Reptile	Actinemys marmorata	western pond turtle	Coarse Filter	PS	VH	Yes
Reptile	Arizona elegans	glossy snake	Landscape Species	PS	VH	
Reptile	Charina bottae	rubber boa	Landscape Species	PS	VH	Yes
Reptile	Chionactis occipitalis	shovel-nosed snake		MV	VH	
Reptile	Coleonyx varigatus	western banded gecko		MV	VH	
Reptile	Crotalus atrox	western diamond-backed rattlesnake	Local	PS	VH	
Reptile	Crotalus cerastes	sidewinder	Species Assemblage	MV	VH	
Reptile	Crotalus mitchellii	speckled rattlesnake	Local	PS	VH	Yes
Reptile	Crotalus scutulatus scutulatus	Mojave green rattlesnake		PS	VH	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Reptile	<i>Crotalus stephensi</i>	Panamint rattlesnake		PS	VH	
Reptile	<i>Crotaphytus bicinctores</i>	Great Basin collared lizard	Landscape Species	PS	VH	Yes
Reptile	<i>Diadophis punctatus</i>	ringneck snake	Local	MV	Mod	Yes
Reptile	<i>Dipsosaurus dorsalis</i>	desert iguana	Species Assemblage	MV	Mod	
Reptile	<i>Elgaria coerulea palmeri</i>	Sierra alligator lizard	Local	PS	VH	Yes
Reptile	<i>Elgaria coerulea shastensis</i>	Shasta alligator lizard	Local	MV	VH	
Reptile	<i>Elgaria panamintina</i>	Panamint alligator lizard	Local	PS	VH	
Reptile	<i>Gambelia wislizenii</i>	long-nosed leopard lizard	Local	PS	VH	Yes
Reptile	<i>Gopherus agassizii</i>	desert tortoise	Landscape Species	PS	VH	
Reptile	<i>Gopherus agassizii</i>	desert tortoise	Landscape Species	PS	VH	
Reptile	<i>Heloderma suspectum</i>	Gila monster	Landscape Species	HV	Mod	
Reptile	<i>Lampropeltis pyromelana</i>	Sonoran mountain kingsnake	Coarse Filter	HV	VH	Yes
Reptile	<i>Lichanura (=Charina) trivirgata</i>	rosy boa		PS	Mod	
Reptile	<i>Phrynosoma douglasii</i>	pygmy short-horned lizard	Local	MV	Low	Yes
Reptile	<i>Phrynosoma hernandesi</i>	greater short-horned lizard	Local	PS	VH	Yes
Reptile	<i>Phrynosoma platyrhinos</i>	desert horned lizard	Local	PS	Low	Yes
Reptile	<i>Phyllorhynchus decurtatus</i>	spotted leaf-nosed snake	Species Assemblage	PS	Mod	
Reptile	<i>Plestiodon gilberti</i>	Gilbert's skink	Local	PS	VH	
Reptile	<i>Rena humilis</i>	western blind snake		MV	VH	
Reptile	<i>Rhinocheilus lecontei</i>	long-nosed snake	Local	PS	VH	Yes
Reptile	<i>Salvadora hexalepis</i>	western patch-nosed snake	Landscape Species	PS	VH	Yes
Reptile	<i>Sauromalus obesus</i>	common chuckwalla		MV	VH	
Reptile	<i>Tantilla hobartsmithi</i>	Smith's black-headed snake	Local	PS	VH	Yes
Reptile	<i>Thamnophis couchii</i>	Sierra garter snake		PS	VH	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Reptile	Thamnophis sirtalis	common (valley) garter snake	Local	PS	VH	Yes
Reptile	Trimorphodon biscutatus	western lyre snake	Local	MV	VH	
Reptile	Urosaurus graciosus	long-tailed brush lizard	Local	HV	VH	
Reptile	Urosaurus ornatus	ornate tree lizard		PS	Low	
Reptile	Xantusia vigilis	desert night lizard	Coarse Filter	MV	VH	
Bird	Accipiter cooperii	Cooper's hawk	Landscape Species	PS	VH	Yes
Bird	Accipiter gentilis	northern goshawk	Coarse Filter	MV	VH	Yes
Bird	Accipiter striatus	sharp-shinned hawk	Coarse Filter	PS	VH	Yes
Bird	Aechmophorus clarkii	Clark's grebe	Coarse Filter	PS	VH	Yes
Bird	Aechmophorus occidentalis	western grebe	Coarse Filter	PS	VH	Yes
Bird	Aeronautes saxatalis	white-throated swift	Coarse Filter	PS	VH	Yes
Bird	Agelaius tricolor	tricolored blackbird	Local	PS	VH	
Bird	Amphispiza belli	sage sparrow	Landscape Species	MV	Mod	Yes
Bird	Anas acuta	northern pintail	Species Assemblage	PS	VH	Yes
Bird	Anas cyanoptera	cinnamon teal	Species Assemblage	PS	VH	Yes
Bird	Aquila chrysaetos	golden eagle	Landscape Species	PS	VH	Yes
Bird	Asio flammeus	short-eared owl	Local	PS	VH	Yes
Bird	Athene cunicularia hypugaea	western burrowing owl	Local	PS	VH	Yes
Bird	Auriparus flaviceps	verdin	Coarse Filter	PS	VH	
Bird	Aythya americana	redhead	Species Assemblage	PS	VH	Yes
Bird	Aythya valisineria	canvasback	Species Assemblage	PS	VH	Yes
Bird	Bombycilla cedrorum	cedar waxwing		PS	Low	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Bird	<i>Botaurus lentiginosus</i>	American bittern	Local	MV	Low	Yes
Bird	<i>Buteo lineatus</i>	red-shouldered hawk		PS	VH	
Bird	<i>Buteo regalis</i>	ferruginous hawk	Landscape Species	PS	VH	Yes
Bird	<i>Buteo swainsoni</i>	Swainson's hawk	Landscape Species	PS	VH	Yes
Bird	<i>Calidris mauri</i>	western sandpiper	Coarse Filter	PS	Low	
Bird	<i>Calidris minutilla</i>	least sandpiper	Species Assemblage	PS	Low	Yes
Bird	<i>Callipepla gambelii</i>	Gambel's quail	Coarse Filter	PS	VH	
Bird	<i>Calypte costae</i>	Costa's hummingbird	Coarse Filter	IL	VH	
Bird	<i>Campylorhynchus brunneicapillus</i>	cactus wren		PS	VH	
Bird	<i>Caprimulgus vociferus</i>	whip-poor-will		PS	VH	
Bird	<i>Carpodacus cassinii</i>	Cassin's finch	Species Assemblage	PS	VH	Yes
Bird	<i>Catharus ustulatus</i>	Swainson's thrush	Coarse Filter	PS	VH	Yes
Bird	<i>Centrocercus urophasianus</i>	greater sage-grouse	Landscape Species	HV	Low	Yes
Bird	<i>Charadrius alexandrinus nivosus</i>	western snowy plover	Coarse Filter	MV	Mod	Yes
Bird	<i>Chlidonias niger</i>	black tern	Coarse Filter	PS	VH	Yes
Bird	<i>Chordeiles minor</i>	common nighthawk		PS	VH	
Bird	<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	Coarse Filter	MV	Low	Yes
Bird	<i>Colaptes chrysoides</i>	gilded flicker	Local	PS	VH	
Bird	<i>Contopus cooperi</i>	olive-sided flycatcher	Species Assemblage	IL	VH	Yes
Bird	<i>Cygnus buccinator</i>	trumpeter swan	Local	MV	Low	Yes
Bird	<i>Dendragapus fuliginosus</i>	sooty grouse		PS	VH	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Bird	Dendragapus obscurus	dusky grouse	Species Assemblage	PS	VH	Yes
Bird	Dendroica graciae	Grace's warbler	Species Assemblage	PS	High	
Bird	Dendroica occidentalis	hermit warbler	Local	PS	VH	
Bird	Dendroica petechia	yellow warbler		PS	Mod	
Bird	Dolichonyx oryzivorus	bobolink	Local	PS	Mod	Yes
Bird	Egretta thula	snowy egret	Coarse Filter	PS	VH	Yes
Bird	Empidonax hammondii	Hammond's flycatcher		PS	VH	
Bird	Empidonax traillii adastus	(Great Basin) willow flycatcher	Coarse Filter	PS	VH	Yes
Bird	Empidonax traillii brewsteri	mountain willow flycatcher	Coarse Filter	PS	VH	Yes
Bird	Empidonax traillii extimus	southwestern willow flycatcher	Coarse Filter	PS	VH	
Bird	Falco mexicanus	prairie falcon	Landscape Species	PS	VH	Yes
Bird	Falco peregrinus	peregrine falcon	Local	PS	Low	Yes
Bird	Gavia immer	common loon	Species Assemblage	PS	VH	Yes
Bird	Geothlypis trichas	common yellowthroat	Local	PS	VH	Yes
Bird	Grus canadensis tabida	greater sandhill crane	Coarse Filter	PS	VH	Yes
Bird	Gymnorhinus cyanocephalus	pinyon jay	Coarse Filter	PS	VH	Yes
Bird	Haliaeetus leucocephalus	bald eagle	Landscape Species	PS	VH	Yes
Bird	Himantopus mexicanus	black-necked stilt	Species Assemblage	PS	VH	Yes
Bird	Icteria virens	yellow-breasted chat	Local	PS	Mod	Yes
Bird	Icterus parisorum	Scott's oriole	Local	PS	VH	
Bird	Ixbrychus exilis hesperis	western least bittern		PS	Mod	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Bird	Lanius ludovicianus	loggerhead shrike	Landscape Species	PS	VH	Yes
Bird	Larus pipixcan	Franklin's gull		PS	VH	
Bird	Leucosticte atrata	black rosy-finch	Local	HV	VH	Yes
Bird	Leucosticte tephrocotis	gray-crowned rosy-finch	Local	HV	VH	Yes
Bird	Limnodromus scolopaceus	long-billed dowitcher	Species Assemblage	PS	VH	Yes
Bird	Melanerpes lewis	Lewis's woodpecker	Coarse Filter	PS	VH	Yes
Bird	Numenius americanus	long-billed curlew	Coarse Filter	PS	VH	Yes
Bird	Oreortyx pictus	mountain quail	Coarse Filter	PS	VH	Yes
Bird	Oreoscoptes montanus	sage thrasher	Landscape Species	MV	Mod	Yes
Bird	Oreothlypis celata	orange-crowned warbler		PS	Low	
Bird	Otus flammeolus	flamulated owl	Species Assemblage	PS	VH	Yes
Bird	Pandion haliaetus	osprey	Coarse Filter	PS	VH	Yes
Bird	Patagioenas fasciata	band-tailed pigeon	Species Assemblage	PS	VH	Yes
Bird	Pelecanus erythrorhynchos	American white pelican	Coarse Filter	MV	VH	Yes
Bird	Phainopepla nitens	phainopepla	Coarse Filter	PS	VH	
Bird	Phalaropus lobatus	red-necked phalarope	Species Assemblage	MV	VH	Yes
Bird	Phalaropus tricolor	Wilson's phalarope	Coarse Filter	MV	VH	Yes
Bird	Picoides albolarvatus	white-headed woodpecker	Local	PS	Low	Yes
Bird	Picoides arcticus	black-backed woodpecker		IL	VH	
Bird	Picoides dorsalis	American three-toed woodpecker	Local	IL	VH	Yes
Bird	Pipilo aberti	Abert's towhee	Coarse Filter	IL	VH	
Bird	Pipilo chlorurus	green-tailed towhee	Coarse Filter	PS	VH	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Bird	Plegadis chihi	white-faced ibis	Species Assemblage	PS	VH	Yes
Bird	Podiceps nigricollis	eared grebe	Local	PS	VH	Yes
Bird	Pyrocephalus rubinus	vermilion flycatcher	Coarse Filter	PS	VH	
Bird	Rallus longirostris yumanensis	Yuma clapper rail	Local	PS	VH	
Bird	Recurvirostra americana	American avocet	Species Assemblage	PS	VH	Yes
Bird	Riparia riparia	bank swallow	Local	MV	VH	Yes
Bird	Sayornis nigricans	black phoebe	Coarse Filter	IL	VH	Yes
Bird	Selasphorus platycercus	broad-tailed hummingbird	Local	PS	VH	Yes
Bird	Selasphorus rufus	rufous hummingbird	Local	PS	VH	Yes
Bird	Sphyrapicus ruber	red-breasted sapsucker	Coarse Filter	PS	VH	Yes
Bird	Sphyrapicus thyroideus	Williamson's sapsucker	Coarse Filter	PS	VH	Yes
Bird	Spizella atrogularis	black-chinned sparrow	Coarse Filter	PS	VH	
Bird	Spizella breweri	Brewer's sparrow	Landscape Species	MV	Mod	Yes
Bird	Stellula calliope	calliope hummingbird	Coarse Filter	PS	VH	Yes
Bird	Sterna forsteri	Forster's tern	Coarse Filter	PS	VH	Yes
Bird	Strix occidentalis occidentalis	California spotted owl	Local	MV	VH	
Bird	Toxostoma bendirei	Bendire's thrasher	Coarse Filter	PS	VH	
Bird	Toxostoma crissale	Crissal thrasher	Coarse Filter	IL	VH	
Bird	Toxostoma lecontei	LeConte's thrasher	Coarse Filter	PS	VH	
Bird	Tringa semipalmata	willet	Species Assemblage	PS	VH	Yes
Bird	Tympanuchus phasianellus columbianus	Columbian sharp-tailed grouse	Landscape Species	MV	VH	Yes
Bird	Vermivora luciae	Lucy's warbler	Coarse Filter	PS	VH	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Bird	Vermivora ruficapilla	Nashville warbler		PS	VH	
Bird	Vermivora virginiae	Virginia's warbler	Coarse Filter	PS	VH	Yes
Bird	Vireo bellii arizonae	Arizona Bell's vireo	Coarse Filter	PS	VH	
Bird	Vireo vicinior	gray vireo	Coarse Filter	PS	VH	Yes
Bird	Wilsonia pusilla	Wilson's warbler		PS	VH	
Mammal	Aplodontia rufa californica	aplodontia (mountain beaver)	Local	HV	Low	Yes
Mammal	Bassariscus astutus	ringtail	Coarse Filter	PS	VH	Yes
Mammal	Brachylagus idahoensis	pygmy rabbit	Landscape Species	EV	Mod	Yes
Mammal	Castor canadensis	American beaver	Local	PS	VH	Yes
Mammal	Chaetodipus penicillatus	desert pocket mouse	Coarse Filter	MV	VH	
Mammal	Chaetodipus spinatus	spiny pocket mouse	Local	PS	VH	
Mammal	Corynorhinus townsendii	Townsend's big-eared bat	Local	PS	VH	Yes
Mammal	Dipodomys californicus	California kangaroo rat	Local	PS	VH	
Mammal	Dipodomys deserti	desert kangaroo rat	Species Assemblage	PS	VH	Yes
Mammal	Euderma maculatum	spotted bat	Coarse Filter	PS	VH	Yes
Mammal	Glaucomys sabrinus	northern flying squirrel	Species Assemblage	PS	VH	Yes
Mammal	Idionycteris phyllotis	Allen's big-eared bat	Local	PS	VH	
Mammal	Lasionycteris noctivagans	silver-haired bat	Species Assemblage	PS	VH	Yes
Mammal	Lasiurus blossevillii	western red bat	Coarse Filter	PS	VH	Yes
Mammal	Lasiurus cinereus	hoary bat	Species Assemblage	IL	VH	Yes
Mammal	Lasiurus xanthinus	western yellow bat	Local	PS	VH	
Mammal	Lemmiscus curtatus	sagebrush vole	Local	HV	VH	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Mammal	Lepus americanus tahoensis	Sierra Nevada snowshoe hare	Local	PS	VH	Yes
Mammal	Lepus townsendi	white-tailed jackrabbit		PS	VH	
Mammal	Lontra canadensis	northern river otter	Local	MV	Mod	Yes
Mammal	Macrotus californicus	California leaf-nosed bat	Local	PS	VH	
Mammal	Martes americana	American marten		PS	VH	
Mammal	Microdipodops megacephalus	dark kangaroo mouse	Species Assemblage	HV	Mod	Yes
Mammal	Microdipodops pallidus	pale kangaroo mouse	Species Assemblage	MV	VH	Yes
Mammal	Microtus montanus fucosus	Pahranagat Valley vole	Local	PS	Low	Yes
Mammal	Microtus montanus nevadensis	Ash Meadows montane vole	Local	PS	VH	
Mammal	Mustela erminea	ermine		PS	Mod	
Mammal	Mustela frenata	long-tailed weasel		PS	VH	
Mammal	Myotis ciliolabrum	western small-footed myotis	Local	PS	VH	Yes
Mammal	Myotis evotis	long-eared myotis	Species Assemblage	IL	VH	Yes
Mammal	Myotis lucifugus	little brown bat	Species Assemblage	IL	Mod	Yes
Mammal	Myotis thysanodes	fringed myotis	Local	IL	VH	Yes
Mammal	Myotis velifer	cave myotis	Local	PS	VH	
Mammal	Neotamias amoenus celeris	Humboldt yellow-pine chipmunk		MV	VH	
Mammal	Neotamias palmeri	Palmer's chipmunk	Local	HV	VH	
Mammal	Neotamias senex	Allen's chipmunk		PS	VH	
Mammal	Neotamias umbrinus nevadensis	Hidden Forest Uinta chipmunk	Local	MV	VH	

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Mammal	Neovison vison	American mink		PS	VH	
Mammal	Notiosorex crawfordi	Crawford's gray shrew	Local	PS	VH	
Mammal	Nyctinomops macrotis	big free-tailed bat	Local	PS	VH	
Mammal	Ochotona princeps	American pika	Local	MV	Mod	Yes
Mammal	Odocoileus hemionus	mule deer	Landscape Species	PS	VH	Yes
Mammal	Ovis canadensis	bighorn sheep	Landscape Species	MV	VH	
Mammal	Ovis canadensis californiana	California bighorn sheep		PS	VH	
Mammal	Ovis canadensis nelsoni	Nelson bighorn sheep	Landscape Species	PS	VH	Yes
Mammal	Peromyscus boylii	brush mouse	Local	PS	VH	Yes
Mammal	Peromyscus eremicus	cactus deermouse	Local	PS	VH	Yes
Mammal	Scapanus latimanus	broad-footed mole	Coarse Filter	PS	VH	Yes
Mammal	Sorex merriami leucogenys	Merriam's shrew	Local	PS	VH	Yes
Mammal	Sorex monticolus	montane shrew	Coarse Filter	MV	VH	Yes
Mammal	Sorex palustris	water shrew	Coarse Filter	MV	VH	Yes
Mammal	Sorex preblei	Preble's shrew	Local	PS	VH	Yes
Mammal	Sorex tenellus	Inyo shrew	Local	PS	VH	Yes
Mammal	Sorex trowbridgii	Trowbridge's shrew	Local	PS	VH	Yes
Mammal	Sorex vagrans	vagrant shrew	Coarse Filter	PS	VH	Yes
Mammal	Spermophilus beldingi	Belding's ground squirrel	Local	PS	VH	Yes
Mammal	Spermophilus canus	Merriam's ground squirrel		PS	Mod	
Mammal	Spermophilus elegans nevadensis	Wyoming ground squirrel		PS	VH	
Mammal	Spermophilus tereticaudus	round-tailed ground squirrel		PS	High	
Mammal	Tadarida brasiliensis	Brazilian free-tailed bat	Landscape Species	PS	VH	Yes
Mammal	Thomomys bottae	pocket gopher	Local	MV	Mod	Yes
Mammal	Thomomys bottae abstrusus	Fish Spring pocket gopher	Local	MV	Low	Yes
Mammal	Thomomys bottae curtatus	San Antonio pocket gopher	Local	MV	VH	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Mammal	<i>Thomomys monticola</i>	mountain pocket gopher	Local	PS	VH	Yes
Mammal	<i>Vulpes macrotis</i>	kit fox	Landscape Species	PS	VH	Yes
Mammal	<i>Vulpes vulpes necator</i>	Sierra Nevada red fox	Local	PS	VH	Yes
Mammal	<i>Zapus princeps</i>	western jumping mouse	Coarse Filter	PS	Mod	Yes
Vascular Plant	<i>Angelica scabrida</i>		Coarse Filter	HV	Low	
Vascular Plant	<i>Machaeranthera grindelioides</i> var. <i>depressa</i>		Local	PS	Mod	Yes
Vascular Plant	<i>Phacelia glaberrima</i>		Local	MV	Low	Yes
Vascular Plant	<i>Eriogonum esmeraldense</i> var. <i>toiyabense</i>		Local	PS	VH	Yes
Vascular Plant	<i>Anulocaulis leiosolenus</i> var. <i>leiosolenus</i>			PS	Mod	
Vascular Plant	<i>Hulsea vestita</i> ssp. <i>inyoensis</i>		Local	PS	VH	Yes
Vascular Plant	<i>Oxytheca watsonii</i>		Local	PS	VH	Yes
Vascular Plant	<i>Perityle intricata</i>			PS	Mod	
Vascular Plant	<i>Antennaria arcuata</i>		Coarse Filter	MV	Mod	Yes
Vascular Plant	<i>Agastache cusickii</i>		Local	PS	VH	Yes
Vascular Plant	<i>Astragalus callithrix</i>		Species Assemblage	MV	VH	Yes
Vascular Plant	<i>Frasera gypsicola</i>		Species Assemblage	HV	VH	Yes
Vascular Plant	<i>Frasera pahutensis</i>		Local	PS	Low	Yes
Vascular Plant	<i>Gentianella amarella</i>		Local	MV	Mod	Yes
Vascular Plant	<i>Nevada holmgrenii</i>			PS	Mod	
Vascular Plant	<i>Oryctes nevadensis</i>		Species Assemblage	MV	VH	Yes
Vascular Plant	<i>Psorothamnus kingii</i>		Species Assemblage	MV	Mod	Yes

Taxonomic Group	Species	Common Name	Assessment Approach for REA	CCVI	Conf	CBR Species
Vascular Plant	<i>Draba pedicellata</i> var. <i>pedicellata</i>			PS	Low	
Nonvascular Plant	<i>Meesia triquetra</i>		Local	EV	VH	Yes
Vascular Plant	<i>Schoenus nigricans</i>		Local	PS	VH	Yes
Vascular Plant	<i>Botrychium lunaria</i>		Local	HV	VH	Yes
Vascular Plant	<i>Astragalus porrectus</i>		Local	PS	VH	Yes
Vascular Plant	<i>Salix nivalis</i>		Local	EV	VH	Yes
Vascular Plant	<i>Abronia nana</i> ssp. <i>covillei</i>			PS	VH	

D-2.5 Uncertainty, Limitations and Data Gaps

All of these integrated assessments build upon data and models described in Appendix's A, B and C. In many cases they are relatively simple GIS overlays of the previous data layers to display or answer a particular MQ. In some cases they are a bit more complex, such as the mitigation or restoration analysis presented for Greater sage-grouse (MQs # 7 and #8 presented above), where a series of "filters" were applied to remove grid cells not meeting criteria.

Hence the uncertainty and limitations for these integrated assessments are much the same as those pertaining to the models and data used as the inputs to them. Below we summarize a few of these limitations.

Development - A full description of the development change agents and their uncertainty and limitations is detailed in Appendix A. All of the data inputs to these assessments are considered to have high confidence; see however Appendix A for sensitive soils modeling for additional information on those features. Grazing allotment and herd management areas were used as they were received from BLM. It was noted during the analysis that the grazing allotment layer included areas of private or non-federal land and this resulted in some unlikely results, namely the presence of urban development overlap with the (federally owned) grazing allotments. The allotment data did not specify the status of each allotment (open, closed, retired, etc.) so all were treated as open. No additional verification was done regarding the current status of these places by the contractor.

Areas of high potential hydrocarbon energy development – Given the volatile nature of hydrocarbon markets and technologies for extraction, one should take care in the interpretation of these REA findings as they pertain to potential development zones in this sector.

Areas of most likely renewable energy development (i.e., constrained by transmission access) – with some similarities to hydrocarbon development, the sensitivities of investors to factors such as the existing or planned placement of transmission corridors, or the rapid shifts in technology (e.g., heights of wind turbines), can have dramatic effect on the potential for renewable energy development. Our findings should be carefully considered in this light.

Landscape condition models – Following from development change agents, landscape condition modeling is also vulnerable to incomplete representations of surface disturbance. In particular, older roads that have been closed to traffic have been removed or are no longer maintained in roads data, although the effects from surface disturbance persists for decades after closure. Given the settings for landscape condition modeling fall into the realm of expert judgment, there remains considerable potential to test, calibrate, and customize the model used in this REA

Species Distributions - Landscape species distributions are typically somewhat generalized, indicating a range of possible areas where the species might be found. Most of these used in this REA were developed by the regional gap analysis projects. However, in order to provide meaningful answers to most management questions, a more rigorous characterization of habitat usage and quality is needed. Just as Mule deer or Greater sage-grouse were represented using seasonal range or habitat components (e.g., lek sites with relative densities), most landscape species worthy of REA attention require more specific characterization, mapping, and evaluation of seasonal range and/or populations. With this next level of information developed, tools aimed at evaluating landscape linkages, individually suited to each species, can be appropriately applied.

Fire regime models – While a substantial base existed for this REA, as a result of prior national and regional efforts, this area of both conceptual and spatial modeling remains in early stages. One could expect substantial benefits from regionally customized and field-validation of models for most vegetation types in the ecoregion.

Climate Change Analyses – as described previously, current climate data are limited in this area by a number of factors. Weather stations, forming the basis for characterizing the 1900-1980 ‘baseline’ at 4km², have relatively low density with respect to the size of the CBR. For the ongoing 15km² analyses, the baseline is restricted to a shorter time period, 1961-1990, and the baseline climate values are model outputs, although strongly forced by observations. Significant climate change was defined based on the variability of climate over these two baseline periods. Given the observed high variability in this basin and range landscape, one should be careful to not over interpret the findings for climate space trends. These analyses are based not only on these 20th century baselines, but upon the rapidly developing science of climate forecasting.

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