NEVADA
DIVISION OF
NATURAL HERITAGE

STATE OF NEVADA
Department of Conservation & Natural Resources
Joe Lombardo, *Governor*
James A. Settelmeyer, *Director*
Kristin Szabo, *Administrator*

April 11, 2023

Dear Wetland Conservation Partner,

The Nevada Priority Wetlands Inventory (NPWI) was first developed in 2007 to identify and rank 234 critical wetland habitats that are under threat throughout Nevada. Given limited funding, capacity, and resources, the priority wetland list can be used to select wetland landscapes to target for preservation, easement programs, and restoration projects.

Beginning in 2021, the Nevada Division of Natural Heritage worked with Dr. Ken McGwire at the Desert Research Institute to update the NPWI. This involved reaching out to 40 experts across many agencies and organizations involved in wetland work throughout Nevada. Additionally, Dr. McGwire used WetBar, a level 1 wetland analysis tool, to quantify changes in the Nevada Priority Wetlands as measured through satellite imagery. This project was generously supported by the U.S. Environmental Protection Agency through a Wetland Program Development Grant awarded to NDNH and a Multi-purpose Grant awarded to the Nevada Division of Environmental Protection in 2019.

New expert input emphasizes that 24 of the original 26 highest priority wetlands identified in the 2007 report are still priorities more than 15 years later. Dixie Valley springs and riparian areas and Muddy River Upper springs/brooks are new high priority sites, replacing Diamond Lake Playa and Lahontan Reservoir, Carson River. The similarities in the final list does not mean that no progress has been made to conserve the highest priority wetlands (HPWs). Numerous agencies have been engaged in conservation work at several scales on many of the HPWs. At the broadest scale, the High Schells Wilderness was designated in 2006, providing added protection to the entire watershed surrounding three of the HPWs (HPW 1, 6, and 8; Schell Creek Range riparian areas, wet meadows, and springs, respectively). Watershed management plans have been developed for the Truckee River (HPW 17) and Carson River (HPW 14). Dozens of more localized restoration projects have targeted portions of HPWs. For example, the U.S. Forest Service has restored meadows and used beavers to increase wetland health around the North Fork Humboldt River (HPW 3). Several projects along the Humboldt (HPW 10) and Carson rivers sought to reduce nonpoint source pollution by improving the health of the riparian corridor. The U.S. Fish and Wildlife Service has restored many springs around Pahranagat (HPW 25). There are dozens of organizations involved in wetland restoration in Nevada, and no centralized tracking of restoration work, so undoubtedly many more projects have occurred in and around HPWs.

The fact that the HPW list has remained mostly the same despite 15 years of conservation efforts from many organizations is likely due in part to the scale of the wetland habitats and threats they face. Some of the HPWs identified include hundreds of linear miles of stream corridor or square miles of playa. Restoration on that scale is incredibly costly and time consuming. Similarly,

threats scored in this report (such as nonnative plants and groundwater pumping) can have broad and complex wetland impacts that may be challenging or impossible to reverse. The results of this NPWI update indicate that wetland experts throughout Nevada believe that more work is needed to protect our most important and vulnerable wetland resources.

NDNH hopes that the updated NPWI will continue to help our wetland partners prioritize wetland conservation work throughout Nevada. This report will also serve as an addendum to Nevada's 2022 Statewide Comprehensive Outdoor Recreation Plan.

Sincerely,

Chantal Iosso
Wetland Program Coordinator

An Update to the Nevada Priority Wetlands Inventory

Kenneth McGwire
Desert Research Institute, Reno, Nevada
April 10, 2023

Cover photo: Carson River at River Fork Ranch, one of the High Priority Wetland Sites. Photo courtesy of Kristin Szabo.

Executive Summary

This effort to update the 2007 Nevada Priority Wetlands Inventory (NPWI) collected input from federal, state, and non-governmental stakeholders to ensure that information available to decision makers is up-to-date and reflects the current understanding of threats to wetland resources. This effort has greatly reduced ambiguity regarding the extent and nature of each NPWI site. Each site now has a sophisticated PDF-format report with data that describes its environment and satellite-based timeseries from Landsat that quantify trends at the site since 1985.

Participants reviewed the original data for the 234 NPWI sites and provided any required updates to the 24 attributes that characterize the ecological values and stressors associated with each site. Responses were received for 199 of the 234 sites in the original inventory, and multiple site reviews were received for 119 sites. Updates could not be obtained for 35 NPWI sites (including the defunct Hoover Dam Refugia).

Draft map boundaries were developed for almost every NPWI site, and changes in the vigor of terrestrial wetland vegetation and the extent of surface inundation were measured from Landsat for the period of 1985 to 2021. The Sens Slope trend statistic was calculated for each site, and sites with statistically significant negative trends were identified. While participant response for reviewing NPWI tabular data was strong, no participant provided input to change the draft map boundaries for each site.

The stakeholders' commitment to the goals of the NPWI can be seen in the strong, voluntary participation in this effort by dozens of interested individuals from a variety of backgrounds. This updated report provides a stronger basis to inform decision making about Nevada's wetland resources, and the information developed by this effort is now in a format that is much more amenable to ongoing updates.

Introduction

The Nevada Priority Wetlands Inventory (NPWI, 2008) was developed by the Nevada Natural Heritage Program (now the Nevada Division of Natural Heritage) for the Nevada Division of State Parks to provide guidance to inform natural resource manager and conservation partners about the locations of wetlands in Nevada and the factors influencing their relative priority. The NPWI report also satisfied requirements in the Emergency Wetlands Resources Act of 1986 and provided planning guidance for the National Wetlands Priority Conservation Plan (NWPCP) to maintain Land and Water Conservation Fund grant eligibility for Nevada. The NWPCP directs states to identify and rank priorities using a comparative evaluation process that gives preference to wetlands that are declining or rare, vulnerable to human activities, or possess unique or diverse ecosystem functions and societal values including outdoor recreation. It has been 15 years since the compilation of the original NPWI report, and the threats to these wetlands or their perceived value may have changed. This report provides an update to NPWI based on the input from dozens of stakeholders around the state and provides additional data on site changes that are derived from satellite image analysis.

Method

Identification of stakeholders

Outreach for this project engaged a wide variety of individuals from different stakeholder communities around the state including federal and state agencies, non-governmental organizations, and Tribes. Table 1 indicates individuals who contributed directly to the final product, including management

personnel who helped to coordinate that input. Many other stakeholders were supportive of the effort to update the NPWI but were not able to directly contribute. Unfortunately, the impact of Coronavirus restrictions and personal tragedies from the pandemic did affect the ability for individuals to participate.

Generation of products for review

Tabular data for NPWI sites in the appendices of the 2007 NPWI report were converted to numerical values in an Excel spreadsheet. The spreadsheet included space for reviewers to enter their contact information and provided definitions of NPWI scoring items. This spreadsheet was sent to potential reviewers along with more detailed information on the scoring criteria taken from the 2007 NPWI report (reproduced in Appendix 1). Participants were asked to edit the original scores for sites that they were personally familiar with in order to reflect current conditions.

The original NPWI did not provide explicit information on site locations; only a name, habitat type, county, and groundwater basin were specified. For this project, draft maps of the NPWI sites were generated and distributed to stakeholders for review. Initial draft map products were based on a number of sources. In most cases boundaries were taken from the Wetland Map of Nevada (https://www.dri.edu/project/wetland-mapnvnew/) which is a composite of multiple sources including the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory, the U.S. Geological Survey (USGS) National Hydrography Dataset, the Natural Resources Conservation Service (NRCS) Gridded Soil Survey Geographic Database (GSSURGO) soils map, spring locations from the Springs Stewardship Institute, the DRI Map of Riparian Vegetation for Nevada (https://www.dri.edu/project/mrvn/), wet meadow maps from U.S. Forest Service (USFS) and the University of Nevada, localized mapping by The Nature Conservancy, and normalized difference vegetation index (NDVI, Rouse et al. 1974) data from the Landsat series of satellites. Maps of vegetation for USFS lands (Gillham et al. 2004) were also used for sites on USFS lands. Boundaries were clipped to any specified administrative boundaries (e.g. Wildlife Management Areas) using a map of federal lands for the United States (https://services.arcgis.com/P3ePLMYs2RVChkJx/arcgis/rest/services/USA_Federal_Lands/FeatureServer) and a map of public lands for Nevada. Further adjustments to map boundaries were made based on photo interpretation. Given the variety of sources, sometimes vague site descriptions, and often little reference information, the accuracy of the draft maps is difficult to quantify and varies from site to site. Some sites remained unmapped. For example, no reasonable source data was identified to create a map for the NPWI site “Aspen in the Sheldon National Wildlife Area” (a map by Pacific Northwest National Laboratory exists, but documented accuracy for the aspen class was 0%). Also, the NPWI site “Hoover Dam Refugia” was not considered in this update as it was a manmade concrete pool used in pupfish studies that fell into disrepair and has been abandoned.

PDF reports that characterized each NPWI site were generated by the WetBar toolbar for ArcMap (McGwire 2021). The individual site reports provided text describing the site using data derived from numerous geospatial data sources, and it included draft maps for site boundaries. These site reports were placed in cloud storage, and links for downloading them were embedded in the Excel spreadsheet that was distributed to potential reviewers. Reviewers were asked to comment on the draft map boundaries.

Table 1: Contributors to the updated Nevada Priority Wetlands Inventory

Alan Jenne	Nevada Department of Wildlife
Amy Bolinger	U.S. Bureau of Land Management
Boris Poff	U.S. Bureau of Land Management
Brad Larkin	Nevada State Parks
Brian McMillan	U.S. Bureau of Land Management
Cayenne Engel	Nevada Division of Forestry
Chad Mellison	U.S. Fish and Wildlife Service
Chris Faehling	Nevada Division of Forestry
Christopher Fichtel	The Nature Conservancy
Cody Byrne	Nevada Department of Wildlife
Cody Tingey	Nevada State Parks
Dale Conner	Nevada State Parks
Dan Huser	Nevada Division of Forestry
Emily Hagler	Pyramid Lake Paiute Tribe
Gary Reese	Nevada Division of Forestry
Gerald Miller	Nevada Department of Conservation & Natural Resources
Heath Korrel	Nevada Department of Wildlife
Jill Ralston	U.S. Bureau of Land Management
Jonathan Burnjes	Nevada State Parks
Kaylan Hager	U.S. Fish and Wildlife Service
Kris Urquhart	Nevada Department of Wildlife
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Lara Enders	U.S. Fish and Wildlife Service
Laurel Saito	The Nature Conservancy
Laurie Averill-Murry	U.S. Fish and Wildlife Service
Lee Ann Carranza	U.S. Fish and Wildlife Service
Lee Davis	Nevada Department of Wildlife
Lori Leonard	The Nature Conservancy
Michael Starr	Nevada Department of Wildlife
Mike Kizorek	U.S. Bureau of Land Management
Mitchell Vorwerk	U.S. Bureau of Land Management
Robert Mergell	Nevada State Parks
Robyn Mercer	Pyramid Lake Paiute Tribe
Sarah Peterson	U.S. Bureau of Land Management
Susan Abele	U.S. Fish and Wildlife Service
Travis Hawks	Nevada Department of Wildlife
Zachary Ormsby	Nevada Department of Conservation & Natural Resources

Remote sensing metrics

A set of remotely sensed indicators of trends in vegetation and hydrology at the NPWI sites were calculated using DRI's WetBar software which links in real-time to Google Earth Engine to calculate time-series of climate data, vegetation vigor, and waterbody extent from Landsat satellite imagery. The boundaries of NPWI sites were used to calculate trend statistics from 1985 to 2021, and also the period

since the original NPWI data collection, 2006 to 2021. The NDVI from Landsat was used to indicate changes in vegetation vigor, and a threshold value of 0.2884 for a normalized difference wetness index (NDWI) from Landsat [(band 3 - band 5) / (band 3 + band 5)] was used to indicate changes in the extent of inundation. Interannual variability in inundation extent for ephemeral water bodies was based on cloud-free composites of Landsat imagery from late spring (April-June). Changes in perennial water bodies were based on inundation extent at the end of the water year (July-September). In the Great Basin, the median late-summer value of NDVI was used to indicate changes at sites with substantial terrestrial vegetation (e.g., springs, riparian tributaries), and a late spring median of NDVI (April-June) was used for such sites in the Mojave region. Note that some NPWI sites cover a large region, and in these cases overall site statistics does not represent localized variability. Separate reports that show localized negative trends within these extensive sites have been created for NDNH by the Desert Research Institute for a separate project funded by the U.S. Environmental Protection Agency (USEPA).

Results

Tabular results

The level of voluntary response from stakeholders to update the tabular data for NPWI was strong, especially considering that it occurred during the height of the Coronavirus emergency. Responses were received for 199 of the 234 sites in the original inventory, and multiple site reviews were received for 119 sites. Updates could not be obtained for 35 NPWI sites (including the defunct Hoover Dam Refugia). In order to reduce the chances of a participant's input being given undue weight, the new criteria scores were averaged with those from the original report. Overall scores were then recalculated, and sites were ranked using the method of the original report. Appendix 2 lists sites and their scores in alphabetical order; in Appendix 3 the sites are sorted by rank from highest priority to lowest. The original report specifically identified the 26 highest ranking sites. Figure 1 presents the top 26 sites based on the updated scores, and a legend with site names and ranks follows in Table 2. The top ranked sites listed in Table 2 and their ordering are very similar to the original NPWI. Two sites in the original top 26, "Lahontan Reservoir, Carson River (upstream reach) – open water, riparian" and "Diamond Lake Playa - playa lake/pool, spring pool/brook," were replaced by "Dixie Valley springs, riparian" and "Muddy River Upper - springs/brooks."

Remote sensing results

While there was a strong response to the request to update tabular data, unfortunately no participant provided further guidance to the draft geographic boundaries that were delineated for each site. Trends in vegetation and surface water extent were calculated within the original draft of sites boundaries. Appendix 4 indicates which sites had a statistically significant trend at the 95% confidence level using the Sens Slope statistic for 1985 to2021 and for 2006 to 2021. Sens Slope values represent the change in NDVI or inundation per year over the period, and since NDVI and percent inundation both have a small range (0.0 – 1.0) the small slope values may represent a large amount of change over time. A plot of the change in NDVI or inundation from 1985 to 2021 was appended to all of the site reports that were provided to NDNH[1]. An example report is provided in Appendix 5.

[1] To get a copy of site reports, please email the Wetland Program Coordinator.

Figure 1: Top 26 ranked wetland sites

Table 2: Legend to sites in Figure 1

Map #	Site	Rank
1	Schell Creek Range - stream riparian	1
2	Little Humboldt - below Chimney Reservoir; Cottonwood, Martin lower, Santa Rosa east side creeks	2
3	North Fork Humboldt - Beaver Creek to headwaters, and tributaries	3
4	San Antonio Site - spring/brook	4
5	Rock Creek upper, Tosa Wihi Hunu'u - stream riparian woodland, wet meadow, marsh, springs/brooks	5
6	Schell Creek Range - wet meadow	5
7	Railroad Valley springs and marshes	6
8	Schell Creek Range - spring/springbrook	7
9	Twentyone Mile Marsh - stream riparian marsh, wet meadow, springs/brooks	8
10	Humboldt River - Elburz to Palisade	9
11	Meadow Valley Wash Lower - Elgin north to, including Clover Creek	10
12	Clover Valley (north) spring pools and outflows	11
13	Colorado River below Davis Dam Mojave River riparian	12
14	Carson River/Carson Valley - river open water, California border to Carson Valley exit	13
15	Owyhee South Fork - Independence Valley w/tributaries	13
16	Steptoe Valley Middle - Bassett Lake	13
17	Truckee River Tribs (Franktown, Galena, Whites, Thomas, Hunter, other creeks) - stream riparian	13
18	Quinn River Lakes - (near Kings River confluence) intermittent ponds	14
19	Spring Valley - Baking Powder Flat playa/ephemeral pool, spring pool/brook	15
20	Steptoe Valley Middle - Duck Creek discharge area	16
21	Steptoe Valley Middle – Bassett Slough riparian meadow, marsh	17
22	Argenta Marsh	18
23	Dixie Valley springs, riparian	19
24	Muddy River Upper - springs/brooks	20
25	Pahranagat River/Valley - spring/brook	21
26	Spring Valley - Yelland Lake playa/ephemeral pool, spring/brook, lowland stream, wet meadow, marsh	22

Tables 3 and 4 indicate which NPWI sites had a statistically significant negative trend for NDVI or inundation for each of the two time periods. Entries in each column of these tables are sorted from most negative trend to least negative trend.

Table 3: Terrestrial vegetation NPW sites with negative trend in NDVI over time

Mojave (late spring NDVI)		Great Basin (summer NDVI)	
1985-2021	2006-2021	1985-2021	2006-2021
Virgin River - Halfway up	Virgin River - Halfway down	Steptoe Valley Upper - McDermid Creek	Overton WMA
Grapevine Canyons		Steptoe Valley Upper - Indian Ranch	Steptoe Valley Upper - Indian Ranch
Ash Meadows meadows		Steptoe Valley Upper - Twin Springs	Steptoe Valley Upper - McDermid Creek
		Snow Water Lake	Truckee River tributaries aspen
		Steptoe Valley Upper - Currie	
		Twentyone Mile Marsh	
		Fish Creek Springs	
		Continental Lake - Baltazor	
		Fish Lake Valley	
		Truckee River lower	

Table 4: Water body NPW sites with negative trend in surface inundation over time

Ephemeral (late spring inundation)		Perennial (late summer inundation)	
1985-2021	2006-2021	1985-2021	2006-2021
Massacre Lakes		Walker Lake delta	Summit Lake
Calcutta Lakes		Mohave Reservoir	Walker Lake delta
Alkali Lake		Sheldon NWR ponds	Walker Lake
Sheldon NWR playas		Steptoe Valley WMA - Comins Lake	Mohave Reservoir
Fernley Sink		Walker Lake shorezone	
Central Lake		Steptoe Valley Middle - Bassett Lake	
Gridley Lake playa		Pyramid Lake delta	
Alkali Lake WMA		Summit Lake	
Whirlwind Valley		Walker Lake	
Spring Valley - Yelland Lake			
Newark Lake			

It is notable how frequently Steptoe Valley sites in eastern Nevada have statistically significant negative trends for both terrestrial and aquatic wetland sites. However, the driving factor at each site must be considered. For example, there is a good chance that the negative trend for “Virgin River – halfway down” and “Overton WMA” in Table 3 is due to intentional defoliation of tamarisk stands by the *Diorhabda carinulata* beetle for restoration purposes. Also, there will be cases where uncertainty in site boundaries may have a large effect on the measured trends.

Conclusion

Numerous stakeholders contributed to the update of the Nevada Priority Wetlands Inventory, helping to ensure that the document remains an up-to-date source of reference information. This effort also facilitates future updates, by coding site data in a format that is easy to edit. The development of draft map boundaries for the list of 234 sites greatly improves the ability to communicate where the site is and to generate environmental characterizations from satellite imagery and geospatial data sources. Unfortunately, there was no feedback from the user community on the draft site boundaries. An effort should be made to have site boundaries improved through communication with stakeholders. It may be that the map review was considered to be too time intensive for a volunteer activity by the participants. Despite this difficulty, the strong participation in the survey can be taken to indicate the stakeholders' commitment to the goals of the Nevada Priority Wetlands Inventory.

References

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Rouse, J.W., Haas, R.H., Schell, J.A., Deering, D.W., 1974. Monitoring vegetation systems in the Great Plains with ERTS. Proceedings of the Third Earth Resources Technology Satellite-1 Symposium, NASA, Greenbelt, MD, pp. 301–31.

Appendix 1: NPWI Scoring Criteria

This appendix duplicates Appendix 3 of the original Nevada Priority Wetlands Inventory that provides a detailed description of the scoring criteria.

Some text from the body of the NPWI report was added to Section 5 of this Appendix to clarify that one of the scoring categories was given double weight.

APPENDIX 3.

--- Nevada Priority Wetlands Evaluation and Ranking Procedure ---

Introduction

The evaluation procedure is designed to produce Nevada's inventory of priority wetlands, which will be used to:

- Inform resource scientists, managers, conservationists, and the interested public about the places in Nevada containing wetland conservation priorities.

- Satisfy federal regulations that tie state wetlands conservation planning and comprehensive outdoor recreation planning by the Nevada Division of State Parks to eligibility for federal Land and Water Conservation Fund grants.

The priority wetland evaluation process is intended to produce a ranked priority wetland list. The Nevada Wetlands Priority Conservation Plan, Technical Review Draft (NvWP) (NNHP, January 2006) presents a provisional list of 150 areas selected as locations of wetlands identified, broadly speaking, as valuable and vulnerable in resource management agency and conservation organization conservation plans.

The federal priority wetland planning guidance specifies three factors that must be used in the comparative evaluation process. For this project, these factors are identified as: 1) Historical Impact; 2) Ecosystem Functions/Values and Socioeconomic Importance; and, 3) Sources of Stress, Stress Intensity and Stewardship Urgency. A final report of the state's priority wetland inventory must be submitted for acceptance by the National Park Service and the U.S. Fish and Wildlife Service. The final report will be distributed to agencies, conservation organizations, and interested citizens participating in the priority evaluation process and to others whose work involves the management and conservation of wetlands. The NvWP must be updated every five years. A desired outcome of this process is establishment of a cooperative wetland conservation planning tradition and partnership to incrementally develop a comprehensive wetland information system.

This wetland priority project is a joint effort of the Nevada Natural Heritage Program, Nevada Department of Wildlife, and The Nature Conservancy. Three regional workshops will be held at which we will consult with biologists, hydrologists, and knowledgeable managers and scientists who are familiar with the candidate priority wetlands. The final list and ranking of priority wetland areas will be determined from the input obtained from participating experts.

The steps in the evaluation procedure, including definition of wetland factors and method of rating factors, are described below.

Step 1. Identify Important Wetlands and Locations in Priority Wetland Area (Sheet 1)

1. Identify important aquatic-wetland types and their geographic locations.
2. Consider whether the geographic scope of the area is an appropriate unit for evaluating important wetlands. If needed modify area scope to better fit the biology, hydrology, or management situation.

Step 2. Estimate Historical Impact – % Eliminated, Converted, Degraded, and Intact (Sheet 2)

For each important wetland type in the priority area, estimate the percentages of the type-area still intact and eliminated, converted, and/or degraded. Applying the best professional judgment of people knowledgeable about wetlands in the area to evaluate the extent of impacts is really the only approach available absent spatial data and analyses.

- **% Eliminated**. Wetland areas where the hydrology, soil, and vegetation have been entirely altered or destroyed (e.g., drained, filled, excavated, dredged, or built upon). Eliminated wetland acreage also includes areas transformed into upland communities or xeric conditions. Causes may be modification to channel sinuosity/geometry or flow rate that caused the stream to incise, widen or to lose hydraulic capacity to flood naturally; also, groundwater depletion due to pumping or loss of recharge area.

- **% Converted**. Wetland areas where the hydrology, soil, and/or vegetation were substantially modified for another land use (e.g., low impact crop production, grazing, outdoor recreation, or water development) or for resource management (e.g., marsh habitat converted to wet meadow) and some natural functions and characteristics remain (e.g., floodplain riparian corridor where wetland acreage has been converted to hay meadow cultivation, but hydric soils and the wetland water supply exist).

- **% Degraded**. Wetland areas where the hydrology, landform, soil, and/or vegetation have been altered, but most natural characteristics and ecosystem functions exist. Causes of alteration include sporadic or dispersed levels of low impact land use on-site, or cumulative effects of land, water, or vegetation use off-site.

- **% Intact**. Wetland areas where the hydrology, soil, and/or vegetation predominantly exhibit natural conditions in terms of vegetation, landform, surface runoff, geomorphic processes, and wildlife occupancy/utilization.

Step 3. Evaluate Ecosystem Functions/Values and Socioeconomic Importance (Sheet 3)

3.1 Identify which of the ecosystem functions or valued services the wetland is capable of performing. Functions and values are described in Table 3A.

Table 3A. Ecosystem Functions/Values for Evaluating Priority Wetlands

Function/Value	Description
Wildlife Habitat, Diversity, and Food Web Support	Wetland is inhabited by wetland dependent animal or plant species (i.e., are found only in such habitats or that they depend on such habitats for a portion of their life cycle, or that the habitats on which they depend exist only because of close proximity to, or other influence from, aquatic or wetland habitats). Wetland is the source of organic detritus, vegetable matter, or prey species that terrestrial or avian species require for survival. Wetland is critical habitat for reproduction/breeding of conservation priority species otherwise not considered wetland-dependent.
Special Status Wetland Dependent Taxa	Wetland is inhabited by wetland dependent species or subspecies identified as special status taxa, including, animals and plants tracked by the NNHP as rare/at risk; animals and plants listed under federal Endangered Species Act regulations as threatened, endangered, threatened/endangered candidate; plant species listed as fully protected by Nevada regulation (NAC 527); and species of mammals, birds, fishes, and amphibians listed as protected, threatened, endangered, or sensitive by Nevada regulation (NAC 503).
Hydrology & Water Supply	Wetland occurs in a watershed or adjacent to a water body that perennially or in most years conveys surface or subsurface flow or retains water seasonally, semi-permanently, or permanently. Includes wetlands in groundwater recharge zones; also, springs or seepage zones that discharge perennially into low elevation water bodies.
Erosion & Sediment Control	Wetland possesses vegetation, hydrology, and landform features that affect the movement and energy of surface water (e.g., channel flow, overland flow, and groundwater recharge) capable of influencing rates and patterns of erosion and/or sedimentation within and up- and down-gradient of wetland.
Flood Control	Wetland occurs in a river floodplain, swale drainage, or landscape depression that receives and holds channel flow or surface runoff during peak flow periods, usually associated with snow melt, rain-on-snow events, or summer convective storms. Includes beaver dams.
Water Quality Maintenance	Wetlands in a position to intercept or adsorb waterborne pollutants (dissolved, suspended) from manmade or natural sources and possess the physical, biological, and chemical properties necessary to retain pollutants or alter water quality in a manner that benefits wildlife, vegetation, or water supply for human uses.
Outdoor Recreation	Wetland known to be used as or planned or under consideration for use as outdoor recreation area. Wetlands with characteristics compatible and complementary to outdoor recreation activities in wetland/aquatic settings, including but not limited to fishing, hunting, wildlife watching, hiking, camping, wading/bathing, swimming, and picnicking.

3.2 Rate the effectiveness or capacity of the wetlands to perform the functions and services (high, moderate, low). Factors to consider when rating wetland effectiveness/capacity include:

- What natural functions are usually performed by this type of wetland?
- Are the wetlands in a natural landscape position to perform the functions?
- Are the natural biological, physical, and chemical properties still intact to perform functions?
- Do animals, plants, or people that benefit from the function occur in the area, or is access prevented?
- Is on- or off-site landform modification, land use, or disturbance (e.g., fire, invasive plants, or pollution) inhibiting the function?
- Have drier than normal conditions persisted (drought, increased water diversion) that might subdue or mask natural functions or values?

Table 3B. Alternative Factors and Measures to Aid in Rating Ecosystem Functions/Values

Ecosystem Function/Value	Factors to Consider in Rating Effectiveness/Capacity of Priority Wetlands to Provide Function or Value	Rating Value		
		LOW	MODERATE	HIGH
Wildlife Habitat, Diversity, and Food Web Support	• Richness/abundance of wetland dependent animal and plants species living entire life or portion of life cycle in wetland. • Richness/abundance of animal and plant species not wetland dependent but using wetlands for essential needs that cannot be met elsewhere • Amount of wetland sites providing adequate or better habitat conditions for native species and migrants	Few	Several	Many
Special Status Wetland Dependent Taxa	• Occurrences of special status wetland dependent taxa, including NNHP-tracked rare/at-risk taxa; ESA-threatened, endangered, and candidate taxa; or state protected plant taxa and state protected, sensitive, threatened, or endangered wildlife taxa.	Few	Several	Many
Outdoor Recreation	• Number of outdoor recreation visitors using wetlands • Number of outdoor recreation opportunities involving wetlands	Few	Several	Many
	• Public access to wetlands with recreation values	Private	Public/private	Public
Hydrology Water Supply	• Amount of riparian wetland coverage adjacent to perennial water • Amount of wetlands in upper watersheds that supply perennial streams/rivers or in groundwater recharge zones	Small	Medium	Large
Erosion and Sediment Control	• Overall degree that wetlands function properly; i.e., condition of the vegetation, landform, & large woody/stony debris is sufficient to dissipate stream energy, filter/distribute sediment, stabilize banks, and hold flood-water	Small	Medium	Large
Flood Control	• Amount of wetlands located in floodplains that function properly – condition of channel, vegetation, landform, large woody debris, and bedload is sufficient to attenuate flood flow energy and volume, retain flood-water, and aid the process of floodplain maintenance and development	Small	Medium	Large
Water Quality Maintenance	• Amount of wetland areas characterized as having the vegetation, soil, size, and position to intercept pollutants in stream flow or overland flow (typically lotic riparian wetland types)	Small	Modest	Large
Socioeconomic Importance	• Size of population center or commercial activity benefiting from wetland functions or values	Small	Medium	Large
	• Number of ecosystem functions performed and valuable services provided	1 to 2	3 to 4	5 or more
	• Degree of interest local community/government exhibits in wetland protection and recovery action: regulatory ordinance; conservation easement, acquisition, or plan; or formal agreements with land/resource management agencies	Small	Medium	Large

3.3 Socioeconomic Importance. Rate the relative significance of the wetlands in terms of local values: do these wetlands provide a high, medium, or low level of social and economic benefits to the surrounding communities? Consider how the well being of the community and economy benefit from the ecosystem functions and services the wetlands provide. Socio-economic services include: removal of pollutants in water supplies; preventing flood and erosion damage across urban and agricultural land; local access to outdoor recreation (e.g., hunting, fishing, photography, etc.); ecotourism; preserving biodiversity; and water supply replenishment. Include cultural and aesthetic aspects (e.g., scenic quality, heritage, rarity of wetlands, access to other wetlands; also, artistic inspiration, contemplative practices, appreciation of natural diversity).

Step 4. Evaluate Sources of Stress / Stress Intensity and Stewardship Urgency (Sheet 4)

4.1 Identify human sources of stress that are occurring or are likely to occur in the future (roughly next 5 years) and cause or contribute to negative impacts on wetland resources. Negative impacts, attributed to various activities, may include:

- Reduction in surface/groundwater reaching wetlands due to diversion, dam, pumping, or drainage.
- Deterioration in water quality due to nonpoint source discharges of macro/micro-nutrients, metals, and chemicals.
- Encroaching upland plant species or nonnative species due to wetland soil/hydrology disturbance.
- Soil resource degraded by compaction, salinity, limited organic litter, or altered erosion or sedimentation processes.
- Incising or widening channel due to grading, channel clearance/dredging, placing fill, or increased runoff.
- Changes in physical habitat conditions (vegetation community characteristics) that alter abundance/diversity of animal species, populations, or communities.

4.2 Rate the intensity of stress that wetlands might undergo as a result of the expansion, intensification, or commencement of stressful human activities that are ongoing or anticipated in the next five years. Human sources of stress are described in Table 4A. Stress intensity criteria are explained in Table 4B.

Table 4A. Human Activities (Current and Potential) As Stressors of Wetland Resources

Type of Activity	Description of Stressors
Surface Water Diversion or Development	All or a significant portion of the water that naturally accumulates or flows into, through, or from the wetland are being/will be diverted or stored in artificial conveyance or impoundment. Includes a diversion, conveyance, or storage structure that may be constructed/operated offsite such that the hydrology of the site is modified to the detriment of the wetland.
Groundwater Pumping	The development/use of groundwater is reducing/may reduce water naturally available to wetlands. Wetlands are in a Groundwater Basin the Nevada State Engineer has "designated" (i.e., groundwater in the basin is being depleted or in need of additional administration by Nevada Division of Water Resources).
Hydrogeomorphic Modification	Natural channels or depressions that customarily carry flow or accumulate standing water are being/will be mechanically altered (excavation, dredge or fill); wetlands are/will be inundated due to dam/reservoir development; accelerated erosion of landforms is occurring/will occur due to changes in surface runoff induced by onsite or surrounding land use activities; or, the clearance of vegetation or sediment is occurring/will occur resulting in alteration of hydrogeomorphic landforms or accelerated erosion.
Water Quality Impairment	The wetland water supply contains elevated levels of pollutants, such as sediment, dissolved solids, nutrients, metals, pesticides or other contaminants that come from point source discharges (e.g., wastewater treatment plant, industrial operation) or from nonpoint sources (e.g., irrigation drain, agricultural or urban runoff) are/will negatively impact the vegetation, wildlife, wildlife habitat, or ecological functions of the wetland. May include high turbidity; higher or lower temperature; or lower dissolved oxygen.
Land Development	The construction of buildings, roads, and other structures, or mechanical contouring of the surface for human occupation or enterprise are occurring/will occur within or adjacent to the wetlands resulting in wetland loss, degradation, or conversion (e.g., parks, golf course). Includes urban, rural, industrial and other uses.
Farming	Land surface, hydrology, and/or vegetation in the wetland area are being/will be altered for the cultivation or harvest of crops, including hay, or by structures built to support the production of crops.
Livestock Grazing	Land and/or vegetation in the wetland area that is being/will be altered by grazing, trampling or other impacts due to domestic livestock grazing or by ranch structures built to support the grazing operation.

Type of Activity	Description of Stressors
Mining	Mining operations or exploration (excavation, stockpiling, buildings, roads, etc.) that are resulting/may result in wetland impacts; including groundwater pumping for open pit mining that may alter water discharge in streams, springs, or seeps.
Outdoor Recreation	Dispersed or concentrated outdoor recreation activities are occurring/will occur in such that the level and types of uses are likely to cause additional wetland impacts. Includes amenities built or planned for operation of parks, wildlife management areas, campgrounds, etc.
Nonnative Plants or Animals	Invasive nonnative plants or introduced nonnative animal species are present or likely to increase, or are likely to be introduced to the site, causing alteration of wetland hydrology, vegetation, soil, and/or landform.
Energy Development	The construction of structures to explore, develop, refine, produce, transmit, or distribute energy resources (e.g., electricity, fossil fuel, or renewable forms of energy) is occurring/will occur and degrade wetlands.
Military Mission	The construction of structures or implementation of operations related to U.S. Department of Defense or of Energy activities that are impairing/will impair wetland resources upon or in proximity to DOD/DOE lands.

Table 4B. Rating Stress Intensity

Stress Intensity Rating	**Considering current and likely future (5 year horizon) use/development in the priority area – qualitatively rate the relative intensity of stress placed on priority wetlands.**
High	• Large amount of acreage likely to be eliminated or converted (>XX acres, or X%) • Stresses likely to seriously degrade or fragment substantial amount of acreage (>XX acres or X%)
Moderate	• Modest amount of acreage likely to be eliminated or converted (>XX acres, or X%) • Stresses likely to measurably degrade or fragment priority wetlands limited portion of the area
Low	• Small amount of acreage likely to be eliminated or converted (>XX acres, or X%) • Stresses likely to slightly degrade or fragment priority wetland locally or in patches across the area

4.3 Stewardship Urgency: 'Stewardship urgency' is a qualitative or interpretive measure of the extent that applicable protective regulations (if any) and management actions (if any) currently in place will deter loss or degradation in the next five years. Estimate Stewardship Urgency based on consideration of the overall protection and management situation for the important wetlands in the area. Table 4C describes stewardship urgency intensity ratings.

Table 4C. Rating Stewardship Urgency

Stewardship Urgency Rating	**Consider the stresses that are being/likely will be placed on priority wetlands in the future and their overall stress intensity…What is the level of need for new or modified stewardship strategies to sustain priority wetlands?**
High	No regulatory protection; or, limited protection weakly enforced. Management plans not prepared; or, plans done but management actions not implemented or funding not authorized.
Moderate	Certain wetlands protected by regulation, or certain wetland resources protected by regulation; enforcement weak or infrequent. Management plans prepared but implementation a low priority; funding intermittent or uncertain.
Low	Regulations provide limited protection of wetlands and/or wetland-associated resources; enforcement often adequate. Management plans partially implemented and generally funded.

5.0 Scoring and Ranking

The rank score of each priority wetland area is determined by totaling the sum of the ratings of seven ecosystem function and value factors, socioeconomic importance score, and the ten stressor/stress intensity factors. A rank score for each priority wetland area was computed by totaling the ratings of the seven ecosystem function/value factors, the socioeconomic importance factor, and the ten stressor/stress intensity factors. **To superimpose the importance of the relationship between wildlife and wetlands in an arid state, the ratings of the wildlife habitat/diversity/food web support and special status wetland dependent taxa factors were doubled (rating of high=6, moderate=4, low=2, not applicable=0.**

Each priority wetland area was placed in a priority class based on the rank score. The break points for the high, middle, and low priority classes are, respectively 40 and greater; 39 to 30; and, 29 and lower.

The stewardship urgency score (3=high, 2=moderate, 1=low) is used as a weighting factor in combination with priority class to subdivide priority areas into tiers ordered from highest to lowest as follows:

Priority Class	Stewardship Urgency
High	High
High	Moderate
Middle	High
High	Low
Middle	Moderate
Low	High
Middle	Low
Low	Moderate
Low	Low

Priority wetland area ranks are ordered by highest to lowest rank score within each of the nine tiers. The “highest priority” wetlands are in the top tier, that is, the high priority class and the high stewardship urgency rating.

Appendix 2: New scores for the Nevada Priority Wetland Inventory sorted alphabetically. Sites with a statistically significant negative trend from the Landsat analysis are indicated by italics for 1985-2021 and bold for 2006-2021.

ID	Site Description	%Priority Wetlands Intact	%Priority Wetlands Eliminated	%Priority Wetlands Converted	%Priority Wetlands Degraded	Wildlife Habitat, Diversity, Food Web	Special Status Wetland Dependent Taxa	Outdoor Recreation	Hydrology and Water Supply	Erosion and Sediment Control	Flood Control	Water Quality Maintenance	Socioeconomic Importance	Surface Water Diversion/Development	Groundwater Pumping	Hydrogeomorphic Modification	Land Development	Farming	Livestock Grazing	Mining	Outdoor Recreation	Nonnative Plants or Animals	Energy Development	Military Mission	Stewardship Urgency	Score	New Rank
1	*Alkali Lake WMA*	90	0	0	10	1	1	1	1	1	1	1	1	3	2	1	2	1	1	1	1	1	1	0	1	24	193
2	*Alkali Lake/Forty-Mile Lake - playa / ephemeral pool*	100	0	0	0	3	2	1	2	0	0	1	1	1	2	0	1	1	1	1	1	1	0	0	1	24	194
3	Argenta Marsh	0	10	0	90	2.3	1	1	2.3	1	1	1	1	3	3	3	2	3	3	3	1	3	3	0	3	41	18
4	Ash Meadows - riparian willow, ash, mesquite woodland; saltbush shrubland	12	14	54	20	3	2	3	2	0	0	0	2	3	3	3	1	0	0	1.5	1	3	0	0	2	33	120
5	Ash Meadows spring complex w/stream, marsh	8	18	55	19	3	3	3	3	3	3	2	3	3	3	3	2	1	0	2	1	3	0	0	2	47	34
6	*Ash Meadows wet meadow*	4	18	58	20	3	3	2	2	2	3	2	3	3	3	3	2	0	0	2	1	3	0	0	2	43	38
7	Big Smoky Valley springs / brooks (Charnock, Darroughs, Alkali Flat)	40	10	20	30	3	3	1	3	3	3	1.5	3	3	2.5	3	3	2	3	3	1	2	2	1	2	52	24
8	Black Canyon - springs/brooks	80	0	0	20	2	2	2	1	0	0	0	2	1	1	0	0	0	0	0	2	3	0	0	1	20	202
9	Black Rock Desert playa / ephemeral pool; springs/brooks	95	0	0	5	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1	2.4	1	1	1	1	26	185
10	Bruneau River and tributaries - stream riparian	93	0	2	5	3	3	2	3	3	3	3	2	1	0	2	1	1	2	0	3	2	0	0	1	40	84
11	Buffalo Valley Playa - playa lake, ephemeral pool, spring/brook	70	0	15	15	3	2	1	2	1	1	1.2	1	1	1.8	1	1	1	3	1	1	2	1	1	1	32	166
12	*Calcutta, Middle, Cow lakes - playa/ephemeral pool*	100	0	0	0	3	2	1	2	0	0	1	1	1	2	0	1	1	1	1	1	1	1	0	1	25	189
13	Carico Lake - playa, spring/brook	20	0	0	80	2	3	1	1	0	0	0.5	1	2	1	0	0	1	3	2	1	1	0	0	3	25	135
14	Carico Lake tributaries	10	0	40	50	2	2	2	2	1	2	1	2	2	1	2	1	1	3	2	2	2	0	0	2	34	111
15	Carson Lake marshes	0	0	50	50	3	3	3	0	0	3	2	3	1	1	1	2	1	1.3	0	1	2	1	1	1	35	153
16	Carson Lake wet meadows	90	0	10	0	3	3	3	0	1	3	2	3	1	1	1	2	1	1.3	0	1	2	1	1	1	36	146
17	Carson River Trib.s - aspen woodlands	0	0	100	0	3	2	2	3	3	3	2	3	2	3	3	1	2	3	1	1.8	1	1	1	1	46	68
18	Carson River Trib.s - lower wet meadows, mostly irrigated	0	0	100	0	2	2	3	3	2	2	2	2.8	3	3	3	1	3	3	1	2	2	1	1	1	46	69
19	Carson River Trib.s - lowland ponds, reserviors, woodland- urban interface	50	0	0	50	3	2	3	3	2	2.3	2	3	2	3	2	2	3	3	1	1.8	2	1	1	1	47	65
20	Carson River Trib.s (Clear, Ash, Kings, Vicee creeks) - perennial & intermittent stream riparian	10	0	0	90	3	3	1.3	1	1	1	2	1.3	2	1	2	1.3	1	1	1	2	1	1	0.8	1	34	161
21	Carson River/Carson Valley - lowland tributaries to West, East Forks	20	0	0	80	1	1	1	1	1	1	2	1	1	2	1	1	1	2	0	1	2	0	0	1	22	197
22	Carson River/Carson Valley - marshes	20	60	0	20	3	2	1	3	2	2	3	3	3	3	1	2	2	1	0	1	2	0	0	2	39	86
23	Carson River/Carson Valley - ponds / reservoirs near foothills	100	0	0	0	2	1	1.3	2	1	1.3	1	2	1	2	1	1	1	1	0	1	1	0	0	1	24	195
24	Carson River/Carson Valley - river open water, California border to Carson Valley exit	0	0	0	100	2	2	2	3	2	2	2	3	3	3	3	3	2	3	1	1	2	0	0	3	43	13

ID	Site Description	%Priority Wetlands Intact	%Priority Wetlands Eliminated	%Priority Wetlands Converted	%Priority Wetlands Degraded	Wildlife Habitat, Diversity, Food Web	Special Status Wetland Dependent Taxa	Outdoor Recreation	Hydrology and Water Supply	Erosion and Sediment Control	Flood Control	Water Quality Maintenance	Socioeconomic Importance	Surface Water Diversion/Development	Groundwater Pumping	Hydrogeomorphic Modification	Land Development	Farming	Livestock Grazing	Mining	Outdoor Recreation	Nonnative Plants or Animals	Energy Development	Military Mission	Stewardship Urgency	Score	New Rank
25	Carson River/Carson Valley - river riparian	1	95	0	4	2	2	1.3	1.3	1	1	1	3	3	2	3	2	2	2	0	1	2	0	0	2	34	115
26	Carson River/Carson Valley - wet meadow, mostly irrigated	20	0	0	80	2	1	1	3	1	1	2	3	1.3	2	1	3	1	3	0	1	2	0	0	2	31	124
27	Carson Sink playa / ephemeral pool; marsh	80	0	0	20	2	2	1	1	1	1	1	1.8	3	1	1	3	3	1	1	1	2	1	1	2	33	119
28	*Central Lake - playa / ephemeral pool*	100	0	0	0	2	2	1	2	0	0	1	1	1	2	0	1	1	1	1	1	1	0	0	1	22	198
29	Chimney Reservoir	100	0	0	0	3	1	3	3	3	3	3	3	0	2	0	0	1	0	2	2	3	1	0	2	37	90
30	Clover Valley (north) spring pools and outflows	20	0	60	20	3	3	1	3	1	1	1.5	3	3	1	3	1	2	3	1	2	2	2	1	3	44	11
31	Colorado River below Davis Dam Mojave river riparian	0	50	20	30	1	3	3	3	1	1	3	3	3	1	3	3	3	1	1	2	3	1	0	3	43	12
32	*Continental Lake - Baltazor Meadow*	80	0	10	10	3	1	2	2	1	1	1	2	2	2	1	1	1	2	1	1	1	2	0	2	31	125
33	Continental Lake springs	100	0	0	0	3	2	1	1	1	1	1	2	1	2	1	1	1	1	2	1	1	1	0	2	29	172
34	Coyote Springs (Pleasant Valley, Pershing Co.) - spring complex, outflow	10	0	50	40	3	3	1	2	0	0	2	2	3	1	3	0	0	3	0	1	1	1	0	3	32	63
35	Diamond Lake Playa - playa lake/pool, spring pool/brook	35	0	15	50	3	3	1	2	1	1	1	1	1	2	1	1	1.5	2	2	3	2	2	1	3	38	56
36	Dixie Valley springs, riparian	10	10	15	65	3	3	1	3	0	0	1.4	3	3	2.2	3	1.4	1	3	0	1	1	3	1	3	40	19
37	Dolly Varden Spring (Antelope V., Elko Co.) - pool/brook	8	3	50	40	3	3	1	2	0	0	2	2	3	2	3	1	1	3	0	1	1	0	0	2	34	112
38	Duck Flat Lake - playa, marsh	100	0	0	0	3	3	2	2	1	1	3	2	1	2	1	2	1	1	1	1	1	1	0	2	35	106
39	*Fernley Sink playa/ephemeral pool, marsh*	100	0	0	0	1	2	1	1	1	1	1	1	3	2	1	3	1	1	1	1	2	1	1	1	29	175
40	*Fish Creek Springs*	25	0	25	50	2	3	0	2	0	0	1	1	3	1	1.5	1	1.5	1	0	0	1	0	0	3	24	136
41	*Fish Lake Valley (McNett) springs*	0	0	90	10	3	3	1	2	0	0	1	2	3	0	3	1	2	2	0	1	2	0	0	2	32	122
42	Fly Ranch / Geyser - spring complex	80	0	10	10	3	3	1	3	0	0	3	2	3	1	2.6	1	1	1.6	0	1	1	2	0	2	35	105
43	Franklin Lake (entire) w/ stream, big meadow (Duvall Ranch) to lake	35	0	10	55	3	3	2	2	1	0	0	2	2	1	2	2	2	3	0	1	3	0	0	3	35	60
44	Franklin Lake watershed - tributary streams, lower reaches	75	0	20	5	3	1	3	3	1	0	3	3	2	0	1	1	2	2	0	2	3	0	0	1	34	159
45	Goose Creek and tributaries	25	0	50	25	2	2	1	2	2	2	2	1	3	0	2	1	1	3	0	1	3	0	0	3	32	64
46	Goshute Lake (Steptoe Valley, north) - ephemeral playa lake/pools	70	0	15	15	3	2	1	2	1	1	1	1	1	3	1	1	1	3	1	1	2	1	1	2	33	116
47	*Grapevine - Sacatone Canyons - desert wash riparian*	90	0	0	10	3	2	2	3	3	1	1	2	1	1	1.5	1.5	1	1	1	2	3	1	1	1	37	143
48	Grass Valley playa	70	0	15	15	3	2	1	2	1	1	1	1	1	1	1	1	1	3	1	1	2	1	1	2	31	126
49	*Gridley Lake playa*	95	0	0	5	3	3	2	2	0	0	0	1	2	2	1	1	1	1	1	1	3	1	1	2	32	123
50	Gridley Lake spring/brook	0	0	0	100	3	3	2	2	0	0	0	1	2	2	1	1	1	2	1	1	3	1	1	2	33	117

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51	Hamlin Valley Big Springs - spring/brook	25	0	25	50	2	3	1	1	0	0	1	1	1	1	3	0	1	3	0	1	1	0	0	3	25	134
52	Harmon Reservoir - riparian woodland, shrubland, marsh, wet meadow	0	0	80	20	2	2	3	2	3	3	1	2.3	3	1	1	1	2	1	0.8	1	2	1	0.8	1	37	145
54	Hot Creek Spring - spring/brook, terminal marsh	50	5	0	45	3	3	3	2	2	2	1	2	3	0	2	0	0	3	2	1	2	0	0	1	37	144
55	Hot Spring Hill (Kobeh V.) high water table seep areas, forb/graminoid cover, wet/upland mosaic	0	0	0	100	2	3	1	1	1	1	1	1	1	1	1.5	1	1	1	1	3	1	1	1	3	30	130
56	Hot Spring Hill (Kobeh V.) spring/brook - marsh, wet meadow, wet-/upland mosaic	0	0	0	100	2	1	1	3	1	1	1	1	3	1	1.5	1	1	1.5	1	2	1	1	1	3	29	131
57	Humboldt River - Elburz to Palisade	0	5	50	45	3	1	1.5	3	2	2	2	3	3	2	3	3	3	3	2	1	3	0	0	3	45	9
58	Humboldt River - Rose Creek to Rye Patch Reservoir	35	0	15	50	3	1	1	3	2	1	2	2	2	2	2	2	3	3	1	1	3	1	0	2	39	86
59	Humboldt River - Wells to Elburz	10	0	80	10	3	3	1	2	2	2	1	3	3	1.5	3	1	3	3	0	1	3	1	0	2	43	40
60	Humboldt River South Fork, headwaters to S. Fk. Reservoir	45	0	15	40	3	3	3	3	3	3	3	3	3	1	3	2	3	3	1.5	2	3	0	0	2	52	25
61	Humboldt River South Fork, S. Fk. Reservoir to Humboldt River	0	0	8	93	2	1.5	2.5	3	2	2	2	2.5	1	0	2	1	2	3	0.5	1.5	3	0	0	1	35	155
62	Humboldt Sink - playa lake, marsh, wet meadow, shrub phreatophytes	80	0	20	0	3	2	2	1	1	3	1	1	3	1	1	1	3	1	1	1	3	1	1	1	36	148
63	Huntington Creek, headwaters to S. Fk. Humboldt confluence	0	0	25	75	2	2	2	3	2.5	2.5	2.5	2	2	1.5	1.5	1.5	2	3	1	1	3	0	0	2	39	86
64	Jackson Mtn.s - spring/brook, within Wilderness Area	70	0	4	26	3	2	2	2	1	1	1	2	2	1	1	1	1	3	1	2	1	1	1	2	34	113
65	Jackson Mtn.s - spring/brook, outside Wilderness Area	60	0	20	20	3	2	2	2	1	1	1	3	2	1	2	1	1	3	1	1	2	1	1	1	36	149
66	Jackson Mtn.s - stream riparian w/in Wilderness Area	80	0	0	20	3	2	2	3	2	1	1	2	2	1	1	1	1	3	1	2	1	1	1	2	36	103
67	Jackson Mtn.s - stream riparian, outside Wilderness Area	30	0	50	20	3	2	2	3	2	1	1	3	2	1	2	1	1	3	1	1	2	1	1	1	38	142
68	Jackson Mtn.s - wet meadow	20	0	60	20	3	2	1	3	2	1	1	3	1	1	1	1	3	3	1	1	2	1	1	1	37	144
69	Jarbidge River and tributaries	94	0	1	5	3	3	3	3	3	3	3	3	1	0	1	1	1	1	1.5	2.5	1	0	0	1	40	85
70	Lahontan Reservoir - aquatic	100	0	0	0	3	2	3	3	3	3	1.5	3	1	1	1	1	1	1	0	1.8	2	0	0	1	36	147
71	Lahontan Reservoir, Carson river (upstream reach) – open water, riparian woodland	45	25	0	30	3	3	3	3	3	3	2	3	3	2	2	1	0	2.8	0	1	3	0	0	1	44	72
72	Lahontan Reservoir - marsh	75	25	0	0	3	2.3	1	1	1	1	1	1	1	2	1	1	0	2	0	1	2	0	0	1	27	183
73	Lake Mead NRA BluePoint, Rogers, Corral springs	50	5	15	30	3	3	3	3	2	1	1	3	3	1	3	1	1	1	1	3	3	1	1	1	44	70
74	Lake Tahoe tributaries - riparian	0	0	0	100	3	3	3	3	3	0	3	3	1	0	2	2	0	0	0	2	2	0	0	2	36	104
75	Lake Valley Springs - spring bog/marsh	75	0	0	25	2	3	1	1	1	1	1	1	1	0	0	0	0	2	0	1	1	0	0	2	21	174
76	Lamoille Valley	55	0	40	5	3	3	3	3	3	3	3	3	3	1	1	3	3	3	0	2	3	1	0	2	50	28

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77	Las Vegas Valley - Corn Creek springs/brooks	5	0	75	20	3	3	3	3	0	0	0	3	3	3	3	1	1	0	0	2	3	0	0	2	37	91
78	Las Vegas Wash, above Lake of LV - riparian woodland, shrubland, marsh	20	20	0	60	3	3	3	3	2	2	2	3	3	0	3	2	0	0	0	3	3	0	0	1	41	81
79	Little Humboldt - below Chimney Reservoir; Cottonwood, Martin lower, Santa Rosa east side creeks	20	0	50	30	3	3	3	2.5	2	2	2	3	3	3	3	3	3	3	1	2	2	1	0	3	51	2
80	Little Humboldt - Martin Creek upper, Martin Basin creeks	80	0	0	20	3	3	2	3	3	2	3	3	1	1	1	2	0	2	2	1	1	1	0	2	40	47
81	Little Humboldt North Fork above the canyon (Chimney Reservoir) - stream riparian	90	0	0	10	3	3	2	3	3	3	3	3	1	1	1	1	1	2	2	1	2	1	0	2	42	41
82	Little Humboldt South Fork (Snowstorm Range) - stream riparian	30	0	10	60	3	3	1	3	3	3	3	1	1	0	1	1	1	2.5	1	1	1.5	0	0	2	36	96
83	Little Humboldt South Fork, above Chimney Reservoir - stream riparian	42	0	6	52	3	3	2	3	2	2	3	2.8	1.2	2	1	1	1.2	2.2	2	1	2	0.8	0	2	41	45
84	Maggie Creek and tributaries	53	0	8	40	3	3	2	3	3	3	3	3	2	2.5	2	1	1.5	2.5	3	1	3	0	0	2	48	33
85	Marys River and tributaries	50	0	15	35	3	3	2.5	3	3	3	3	2	2	1.5	1.5	1	2	3	0.5	1	2	0	0	2	43	39
86	Mason Valley - Walker River riparian	0	0	80	20	3	2	2	3	3	1	2	3	3	3	3	3	3	3	3	1	3	0	0	2	49	30
87	Mason Valley - Wildlife Management Area marsh	100	0	0	0	3	3	3	3	3	3	3	3	3	3	1	0	1	1	1.5	1	1	0	0	1	43	76
88	Mason Valley - Wildlife Management Area open water, cooling ponds	100	0	0	0	3	1	3	2	1	2.3	2	3	3	3	1	0	1	1	2	1	1	0.8	0	1	35	156
89	Mason Valley - Wildlife Management Area riparian	90	0	10	0	3	3	3	2	3	3	2	3	3	3	3	0	1	1	0.8	1	2	0	0	1	43	74
90	*Massacre/Middle/West Lakes - playa/ephemeral pool*	100	0	0	0	3	2	2	1	1	1	1	2	1	1	0	1	1	3	1	1	1	1	0	1	29	175
91	Massie/Mahala Sloughs - riparian woodland, shrubland, wet mdw., emergent veg.	0	0	100	0	2.2	2.2	1	2	1	2	1	1.2	3	3	3	3	1	3	1	1	1	1	1	1	38	142
92	Meadow Valley Wash Lower - Elgin north to, including Clover Creek	15	10	15	60	3	3	2	3	0	1	2	3	3	2	3	2	3	2	1	2	2	1	0	3	44	10
93	Meadow Valley Wash Lower - Elgin south to Muddy River confluence	38	5	15	43	2.5	2	1	1	1	1	1	2	2.5	2.5	2.5	1.5	1	1.5	1.5	1	3	2	0	3	35	60
94	Meadow Valley Wash Upper - Condor Canyon	25	0	10	65	2	3	2	2	2	1	1	3	2	0	2	1	2	1	2	2	3	0	0	1	36	150
95	Meadow Valley Wash Upper - main stem, Condor Canyon to Caliente	0	5	90	5	2	1	1	1	1	1	1	3	3	3	3	2	3	3	1	1	2	0	0	2	35	107
96	Meadow Valley Wash Upper - spring systems (about 25)	10	10	40	40	2	2	1	3	0	0	3	3	3	1	3	1	0	3	1	1	2	0	0	3	33	62
97	***Mohave Reservoir aquatic***	0	0	100	0	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	3	3	1	0	1	37	144
98	Mohave Reservoir riparian woodland	0	50	0	50	2	1	3	1	1	1	2	3	0	0	0	0	0	0	0	3	3	0	0	1	23	196
99	Monitor Range (upper elev.) - Aspen Woodland	50	5	5	40	3	3	3	3	3	3	3	3	1	1.5	1	2.5	1	3	2	2	2	1	1	2	48	32
100	Monitor Range (upper elev.) - Spring/brook	50	5	5	40	3	3	2	3	2	2	3	2	2	1.5	1	2	1	2.5	2	2	2	1	1	2	44	36

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101	Monitor Range (upper elev.) - stream riparian	40	5	5	50	3	3	3	2	3	2	1	1	1	1.5	1	2	1	2.5	2	2	1	1	1	2	40	48
102	Monitor Range (upper elev.) - wet meadow	10	15	5	70	3	3	3	3	3	3	3	3	2	1.5	1	2	1	3	2	2	2	1	1	2	49	31
103	Monitor Valley springs riparian	15	10	15	60	3	3	2	3	0	0	2	3	3	1.5	3	1	1	3	0	1	1	0	0	3	37	58
104	Montana/Double H Mountains - spring/brook	20	0	60	20	3	2	2	2	1	1	1	3	3	2	2	1	1	3	1	2	2	1	1	2	39	86
105	Montana/Double H Mountains - stream riparian	20	0	60	20	3	3	2	3	2	1	1	3	3	1	2	1	1	3	1	2	2	1	1	2	42	42
106	Montana/Double H Mountains - wet meadow	20	0	80	0	3	2	1	3	1	1	1	3	1	1	3	1	2	3	1	1	2	1	1	2	37	92
107	Mosquito Lake - playa/ephemeral pool	100	0	0	0	2	1	1	1	1	1	1	1	1	1	0	1	0	2	1	1	1	1	0	1	21	200
108	Muddy River Lower - Glendale to Lake Mead, river riparian	0	25	50	25	2	2	2	1	1	1	0	3	3	3	3	3	3	2	2	2	3	0	0	2	40	49
109	Muddy River Upper - Springs/brooks	3	10	25	63	3	3	1	3	1.5	1.5	2	3	2	3	2.5	2	1.5	0.5	0	1	3	0.5	0	3	40	20
110	Muddy River Upper - upstream from Glendale, Mojave river/stream	0	0	0	100	2	2	1	3	1	1	1	3	1.5	3	2	2	1.5	1	0	1	3	1	0	3	34	61
111	New Year Lake - playa / ephemeral pool	100	0	0	0	2	1	1	1	1	1	1	1	1	1	0	1	1	2	1	1	1	1	0	1	22	199
112	*Newark Lake - playa*	70	0	15	15	3	3	1	2	1	1	1	1	2	3	1	1	2	3	1	2	2	1	1	3	38	54
113	North Fork Humboldt - Beaver Creek to headwaters, and tributaries	10	0	38	53	2.5	3	3	3	2.5	2.5	3	3	3	1	2	1	3	3	3	2.5	3	0	0	3	50	3
114	North Fork Humboldt - Elburz to Beaver Creek	0	0	40	60	1.5	1.5	1	1.5	1.5	1.5	1.5	1.5	1.5	0	3	2	1.5	3	1	1	3	0	0	2	31	129
115	Oasis Valley spring complex marsh	25	5	15	55	3	3	2	3	1	0	1	2	1	2	2	3	1	1	1	1	3	0	0	2	36	97
116	Oasis Valley stream riparian	10	0	20	70	3	3	3	3	1	1	0	3	1	2	3	2	0	1	0	2	3	0	0	2	37	93
117	O'Neil Basin - Salmon Falls River forks and tributaries	50	0	10	40	3	2	2	3	3	3	2	2	3	0	1	1	2	2	0	2	2	0	0	2	38	88
118	**Overton Wildlife Management Area - river riparian, marsh**	100	0	0	0	3	3	3	1	1	1	1	3	1	1	1	3	1	1	1	1	3	1	0	3	36	59
119	Owyhee Desert Playas - ephemeral playa lake/pools	80	0	10	10	2	2	1	2	1	1	1	1	1	1	1	1	1	3	1	1	1	1	2	1	29	175
120	Owyhee East Fork - w/tributaries, including Wildhorse Reservoir	27	12	9	53	2	2	3	3	2	2	2	3	3	0	3	1	2	3	1	3	3	0	0	1	42	77
121	Owyhee River - below Wildhorse Res, w/tributaries	20	0	20	60	2	2	2	3	2	3	2	2	2	0	2	2	2	3	1	1.5	3	0	0	3	39	53
122	Owyhee South Fork - Independence Valley w/tributaries	0	0	50	50	3	3	3	1	3	2	3	3	3	0	1	1	3	3	2	1	2	0	0	3	43	13
123	Owyhee South Fork - narrows to stateline w/tribs	0	0	50	50	2	2	2	3	2	2	1	3	3	0	3	1	2	3	1	1	3	0	0	2	38	89
124	Pahranagat River/Valley - lake / reservoir, Maynard playa lake	100	0	0	0	3	3	3	3	0	0	1	3	1	1	1	1	1	1	0	2	2	0	0	1	32	167
125	Pahranagat River/Valley - marsh	30	20	20	30	3	3	3	1	2	2	1	3	3	1	3	3	1	2	0	1	1	0	0	2	39	86
126	Pahranagat River/Valley - spring/brook	0	0	0	100	3	3	3	3	0	1	1	3	1	3	3	1	1	2	0	3	3	0	0	3	40	21

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127	Pahranagat River/Valley - stream riparian	0	0	90	10	3	2	1	3	1	0	1	3	3	3	3	1	2	2	0	0	2	0	0	3	35	60
128	Pahrump Valley - mequite-acacia complex (shrub phreatophytes)	10	23	22	45	3	3	2	2	0	0	0	1	3	3	2	3	2.7	0.3	0	3	3	1.7	0	3	39	52
129	Pine Creek watershed	10	0	40	50	2	3	2	2	2	2	1.3	1	2.3	1.5	3	1	1.8	3	0.8	1	3	1	0	2	39	87
130	Prather Springs - Windemere Hills spring pool	50	0	20	30	2	3	1	1	0	0	0	1	1	1	1	0	1	3	0	1	1	0	0	3	22	138
131	*Pyramid Lake delta*	100	0	0	0	3	3	3	1	3	0	2	2	0	0	0	0	0	1	0	1	3	0	0	1	28	177
132	Pyramid Lake open water	100	0	0	0	3	3	3	0	0	0	0	3	1	1	0	0	0	0	0	1	0	0	0	1	21	201
133	Quinn River - low elev. stream riparian, marsh, oxbow, near Devil's Gate and Oregon Border	90	0	0	10	3	2	1	2	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2	35	108
134	Quinn River - lowland tributaries riparian, intermittent flow, wet meadow (McDermitt, Washburn Crk.s)	70	0	10	20	1	1	1	1	2	2	2	2	3	2	2	1	2	2	1	1	3	1	1	1	33	162
135	Quinn River - Q.R. Crossing vic. terminal/ephemeral wetlands and meadow	75	0	15	10	3	2	1	1	2	2	2	2	3	3	2	1	2	2	1	1	2	1	1	2	39	86
136	Quinn River - south and east forks (north flank Santa Rosa Range to confluence)	85	0	0	15	2	2	2	3	2	2	2	3	1	1	1	1	1	3	1	1	2	1	1	1	36	151
137	Quinn River - terminus, northern portion Black Rock playa lake	100	0	0	0	1	1	1	1	1	1	1	1	1	3	1	1	2	1	1	1	2	1	1	1	25	190
138	Quinn River - upper elev. trib.s riparian shrubland, small wet meadows	80	0	0	20	2	2	2	3	2	2	2	2	1	1	1	1	1	3	1	1	2	1	1	1	35	157
139	Quinn River - upper Q.R. Valley springs, bogs, small marshes	85	0	10	5	3	2	1	2	3	2	2	2	1	1	1	1	2	2	1	1	2	1	1	2	36	98
140	Quinn River Lakes - (near Kings River confluence) intermittent ponds	75	0	15	10	3	3	1	2	3	2	1	2	2	3	3	1	2	2	1	1	2	1	1	3	42	14
141	Quinn River, Quinn River V. - lowland river riparian, shrubland, wet meadow	60	0	30	10	2	3	1	1	2	2	2	3	3	3	3	2	3	3	1	2	2	1	1	2	45	35
142	Railroad Valley springs and marshes	0	0	20	80	3	3	2	3	0	0	3	2.5	3	2	3	1	2	3	1	2	2	3	1	3	46	6
143	Red Rock Canyon - ephemeral pool	90	0	0	10	3	3	2	0	1	1	0	3	0	0	0	0	0	0	0	2	1	0	0	3	22	139
144	Red Rock Canyon - spring/springbrook	20	40	20	20	3	3	3	3	1	0	0	3	2	1	1	1	0	0	0	3	3	0	0	2	33	118
145	Reese River lower, Hwy 50 north to Humboldt River - stream riparian	15	0	25	60	1.3	1	1	1.3	1.3	1.3	1.3	1	3	2.7	1.3	2	2	3	0.7	0.3	3	0	0.3	1	30	170
146	Reese River upper headwaters and upper tributaries	67	0	0	33	3	3	3	3	3	3	2.7	3	1.3	0.7	1.3	0.3	0.7	2.7	0.7	1.3	2.3	0	0.3	2	41	44
147	Reese River upper mainstem - Clear Creek to Hwy 50	3	0	40	57	2.3	3	1.3	2	1.3	1.3	1.7	2	3	2	3	1.7	2	3	0.3	1	1.3	0	0.3	3	38	55
148	Rock Creek lower (county road to lowest gorge)	0	0	40	60	3	2	1	3	1	1	1	1	1	0	1	1	0	3	0	1	2	0	0	3	27	133
149	Rock Creek upper and Willow Creek - stream riparian, springs/brooks	25	0	5	70	3	3	2	3	3	3	3	2	1	0	1	0	0	2.5	1	1.5	2	0	0	2	37	95
150	Rock Creek upper, Tosa Wihi Hunu'u* - stream riparian woodland, wet meadow, marsh, springs/brooks	60	0	30	10	3	3	2	3	2	2	2	2	3	2	2	1	3	3	2	1	2	1	1	3	46	5

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151	Ruby Lake aquatic	50	0	50	0	3	3	3	0	0	0	0	3	1	1	0	0	1	1	0	2	2.5	0	0	1	27	184
152	Ruby Lake NWR marsh	80	0	0	20	3	3	3	3	3	0	3	2	1	3	1	1	1	1	1	1	3	1	1	1	41	82
153	Ruby Lake NWR spring complex (pools/outflows)	50	0	38	12	2	2	2	3	3	0	2	2	1	3	1	1	1	1	1	1	3	1	1	1	35	158
154	Ruby Lake NWR wet meadow	71	0	0	29	3	0	2	0	3	0	0	1	1	3	1	1	1	2	1	1	3	1	1	1	28	178
155	Ruby Valley sulphur hot springs, geothermal springs	75	0	0	25	1	2	2	0	0	0	0	1	0	2	1	2	0	1.5	0	2	1	1	0	1	20	203
156	Rye Patch Reservoir	100	0	0	0	1	1	3	2	3	3	2	3	2	1	1	1	1	1	1	1	2	1	1	1	33	163
157	Salmon Falls River and tributaries	45	0	20	35	2	2	2	2	2	2	2	2	3	0	2	1	1	2.5	0	2	3	0	0	2	35	110
158	San Antonio Site - spring/brook	10	10	10	70	3	3	1	3	2	2	2	3	2	2	3	3	3	3	1	1	2	1	1	3	47	4
159	Schell Creek Range - aspen woodland	10	20	20	50	3	3	2	1	1	1	1	2	1	1	1	1	1	3	1	2	2	1	1	3	35	60
160	Schell Creek Range - spring/springbrook	5	10	30	55	3	3	3	3	1	1	2	3	2.5	2	2.5	2	1	3	1	2	2	1	1	3	45	7
161	Schell Creek Range - stream riparian	5	5	35	55	3	3	3	3	3	3	3	3	2.5	1	2.5	2	2	3	1	3	2	1	1	3	51	1
162	Schell Creek Range - wet meadow	20	10	30	40	3	3	2	2	3	2	3	2	2.5	1	2.5	2	1	3	1	3	2	1	1	3	46	5
163	Sheldon NWR - aspen on Virgin, Hell, Cottonwood, Wheeler crk.s, below basalt outcrops, snowpockets	40	0	0	60	3	3	3	3	3	3	3	3	1	1	1	1	1	1	2	2	2	1	1	1	44	71
164	*Sheldon NWR - lakes/reservoirs (Big Spring, Alkali, Catnip Reservoirs, Swan Lake)*	100	0	0	0	3	3	3	2	3	3	2	3	1	1	1	1	1	1	2	2	2	1	1	1	42	78
165	Sheldon NWR - marsh particularly in Virgin Valley	95	0	0	5	3	3	3	3	3	3	3	3	1	1	1	1	1	1	2	2	2	1	1	1	44	71
166	*Sheldon NWR - playas/ephemeral pools (near Swan Lake, Round Mountain)*	100	0	0	0	2	2	1	1	1	1	1	2	1	1	1	1	1	1	2	2	2	1	1	1	29	175
167	Sheldon NWR - riparian shrubland, woodland Virgin, Thousand, Hell, Badger, Cottonwood, Catnip crk.s	35	0	0	65	3	3	3	3	3	3	3	3	1	1	1	1	1	1	2	2	2	1	1	1	44	71
168	Sheldon NWR - wet meadow, most w/stream riparian Virgin, Hell, Catnip, Big Spring, Fish crk.s	75	0	15	10	2	2	3	3	2	2	2	3	1	1	1	1	1	1	2	2	2	1	1	1	37	144
169	Sherman Creek	35	0	10	55	2.3	3	1	1	1	1	1	1	0.3	0	1	1.3	1	3	0	1.7	3	0	0	1	28	180
170	Smith Creek Playa - ephemeral playa lake/pool, spring pool/brook	70	0	15	15	3	2	1	2	1	1	2	1	2	1	1	1	1	3	1	1	2	1	2	1	34	160
171	Smoke Creek - stream outflow, including wells and springs	80	0	10	10	2	3	1	2	0	0	0	2	2	3	1	1	1	2	1	1	1	3	0	2	31	127
172	*Snow Water Lake (Clover V.) - terminal lake, ephemeral playa lake/pool, spring pool/brook*	70	0	15	15	3	3	2	2	1	1	1	1	2	3	1	1	2	3	1	2	2	1	1	2	39	86
173	Soda Lakes - lake / reservoir	80	0	0	20	2	1	3	1	1	1	1	2	2	2	1	3	1	1	1	3	1	2	1	1	33	164
174	Soda Spring Valley - Sodaville Scorecard site	0	25	50	25	1	2	1	1	0	0	0	1	3	2	3	3	1	1	2	1	3	0	0	3	28	132

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175	Soldier Meadows - springs/brooks above reservoir, wet meadows	81	0	5	14	2	3	3	2	0	0	0	3	2	1	1	1	1	1.6	0	1	1	0	0	1	28	181
176	Spring Mountain - aspen woodland	65	15	0	20	3	3	3	2	1	0	0	2	1	0	1	1	0	0	0	2	3	0	0	1	28	179
177	Spring Mountain - montane fen-bog	80	0	0	20	3	3	1	3	1	0	0	1	1	0	2	1	0	0	0	1	2	0	0	1	25	191
178	Spring Mountain - springs	19	37	22	22	3	3	3	3	1	0	0	3	3	1	2	1	0	0	1	3	3	0	0	2	36	99
179	Spring Valley - Baking Powder Flat playa/ephemeral pool, spring pool/brook	70	0	15	15	3	3	1	2	1	1	1	2	3	3	1	1	3	3	3	1	2	1	1	3	42	15
180	*Spring Valley - Yelland Lake playa/ephemeral pool, spring/brook, lowland stream, wet meadow, marsh*	70	0	15	15	3	3	1	2	1	1	1	2	2	3	1	1	2	3	3	1	2	1	1	3	40	22
181	Starr Valley	50	0	40	10	3	3	1.3	3	3	3	3	2	3	0.3	1	2	3	3	0	1	3	0	0	1	44	73
182	Steptoe Valley Middle - Basset Slough riparian meadow, marsh	70	10	10	10	3	3	2	2	1	1	2	2	2	2	1	2	2	2	2	1	2	3	0	3	41	17
183	*Steptoe Valley Middle - Bassett Lake*	55	20	15	10	3	2	3	2	1	1	2	2	3	3	1	2	2	2	2	1	3	3	0	3	43	13
184	Steptoe Valley Middle - Duck Creek discharge area	60	10	10	20	3	3	2	2	1	1	2	2	2	3	1	2	2	2	1	1	3	3	0	3	42	16
185	*Steptoe Valley Upper - Currie springs*	35	10	20	35	3	3	2	2	1	1	1	1	2	1	2	1	2	2	1	1	2	2	1	2	37	94
186	***Steptoe Valley Upper - Indian Ranch springs***	55	10	15	20	3	2	1	2	1	1	1	1	2	1	2	1	1	1	1	1	2	1	1	2	31	128
187	***Steptoe Valley - McDermid Creek***	10	10	20	60	3	2	1	2	1	1	1	1	2	1	2	1	2	3	1	1	2	2	1	2	35	109
188	*Steptoe Valley Upper - Twin Springs*	25	10	20	45	3	3	1	2	1	1	1	1	2	1	2	1	2	2	1	1	2	2	1	2	36	100
189	*Steptoe Valley WMA - Comins Lake*	90	0	0	10	3	3	3	3	3	3	3	3	1	1	0	1	0	1	2	2	2	2	0	1	42	79
190	Steptoe Valley WMA - springs, marsh, small ponds	35	10	30	25	3	3	3	2	3	3	3	3	1	1	1	1	0	1	1	2	2	2	0	1	41	83
191	Stillwater NWR - marsh, wet meadow	5	0	0	95	3	3	3	1	1	1	2	3	1	1	1	3	1	1	0	1	2	1	1	1	36	152
192	Sullivan Spring, Antelope V. - spring pool/brook	50	10	20	20	3	3	1	1	0	0	2	1	2	1	2	1	1	2	0	0	1	0	0	2	27	173
193	***Summit Lake***	100	0	0	0	3	3	1	2.4	1	1	1	3	1	2	1	1	1.6	1.6	1	1	2	0	0	2	34	114
194	Summit Lake tributaries (Mahogany, Summer Camp, Snow crk.s) - stream riparian	93	0	0	7	3	3	3	3	2	2.3	3	3	1	2	1	1	1.7	1.7	1.2	3	3	0	0	2	44	37
195	Susie Creek	25	0	5	70	2	2	1	1	1	1	1	1	1	0.7	0	1	1	3	0	1	3	0	0	1	25	192
196	Toiyabe Range - Aspen Woodland	30	5	5	60	3	2.7	2.3	2	2	2	1.3	1.3	2	1.3	1.3	2	1.3	2.7	2	2	1.7	1	1	2	41	46
197	Toiyabe Range - stream riparian	50	5	5	40	3	3	3	3	3	3	3	3	2.3	1.3	2	2	1.3	3	2	2	2.3	1	1	2	50	27
198	Toiyabe Range - Wet Meadow	10	15	5	70	3	3	3	3	3	3	3	3	2.3	1.7	1.7	2	1.7	3	2	2	2.3	1	1	2	51	26
199	Topaz Lake - open water, reservoir	0	0	100	0	2.3	1	3	3	2	2.3	2	3	2	1	3	1	3	3	1	3	2	1	1	1	43	75

ID	Site Description	%Priority Wetlands Intact	%Priority Wetlands Eliminated	%Priority Wetlands Converted	%Priority Wetlands Degraded	Wildlife Habitat, Diversity, Food Web	Special Status Wetland Dependent Taxa	Outdoor Recreation	Hydrology and Water Supply	Erosion and Sediment Control	Flood Control	Water Quality Maintenance	Socioeconomic Importance	Surface Water Diversion/Development	Groundwater Pumping	Hydrogeomorphic Modification	Land Development	Farming	Livestock Grazing	Mining	Outdoor Recreation	Nonnative Plants or Animals	Energy Development	Military Mission	Stewardship Urgency	Score	New Rank
200	Toquima Range - Aspen Woodland	20	15	10	55	3	3	2	2	2	2	1	1	1	2	1	2	1	3	2	2	1	1	1	2	39	86
201	Toquima Range - Wet Meadow	10	15	5	70	3	3	2	3	3	3	3	3	2	2	1	3	1	3	2	2	3	1	1	2	50	28
202	Truckee Meadows vicinity - marshes Spanish Springs	60	20	17	3	2	1	3	2	0	2	1	3	3	2	1	3	0	0	0	2	3	0	0	1	31	169
203	Truckee Meadows vicinity - Swan Lake marsh Lemmon Valley	100	0	0	0	3	2	3	0	0	0	2	2	0	1	0	3	0	0	0	1	3	0	1	1	26	186
204	*Truckee River Lower - river riparian, oxbows*	5	5	15	75	3	3	2	3	1	1	1	3	1	1	1	1	1	1	1	1	3	1	0	1	35	154
205	Truckee River Trib.s - lowland ponds / reserviors, woodland- urban interface	50	0	0	50	3	2	3	3	2	2	2	3	2	3	2	2	3	3	1	2	2	1	1	1	47	65
206	Truckee River Trib.s - Steamboat Creek riparian, marsh, wet meadow	0	75	5	20	2	1	2	3	3	3	3	3	1	1	3	3	0	0	0	1	3	1	0	2	36	101
207	Truckee River Trib.s (Franktown, Galena, Whites, Thomas, Hunter, other creeks) - stream riparian	20	60	15	5	3	2	3	3	3	2	3	3	2	1	2	3	1	1	1	2	2	1	0	3	43	13
208	**Truckee River Tribs. - aspen woodlands**	0	0	100	0	3	2	2	3	3	3	2	3	2	3	3	1	2	3	1	2	1	1	1	1	46	66
209	Truckee River Tribs. - lower wet meadows, mostly irrigated	0	0	100	0	2	2	3	3	2	2	2	3	3	3	3	1	3	3	1	2	2	1	1	1	46	67
210	Truckee River Upper - river riparian, oxbows	0	60	0	40	2	3	3	3	1	1	1	3	1	1	2	2	0	0	0	1	3	0	0	1	32	168
211	Truckee River/Lake Tahoe Trib.s - montane lake, pond, reservoir	25	10	0	65	3	3	3	3	2	1	2	3	1	1	2	1	1	1	1	2	1	1	1	1	39	140
212	*Twentyone Mile Marsh - stream riparian marsh, wet meadow, springs/brooks*	45	0	20	35	3	3	2	3	2	2	2	2	3	2	3	1	2	3	1	1	2	1	1	3	45	8
213	**Virgin River lower, Halfway Wash to Lake Mead - river riparian**	30	0	5	65	3	3	1	3	3	3	2	2	3	3	1	1	1	2	1	1	3	0	0	2	42	43
214	*Virgin River lower, state border to Halfway Wash - river riparian*	15	15	25	45	3	3	2	2.5	2.5	3	1	3	3	2.5	2.5	3	3	2.5	0.5	3	3	0.5	0	2	50	29
215	Virgin River upper, w/Beaver Dam Wash - stream riparian	60	0	5	35	3	3	3	3	3	1	2	3	2	1	3	0	0	3	0	2	2	0	0	2	40	50
216	***Walker Lake delta - unvegetated***	100	0	0	0	3	2	1	3	3	0	3	3	3	2	0	0	0	0	0	1	1	0	0	1	30	171
217	***Walker Lake open water***	0	0	65	35	2	2	3	0	0	0	3	3	3	2	0	0	0	0	0	1	0	0	0	3	23	137
218	*Walker Lake shorezone*	100	0	0	0	3	3	3	0	1	0	3	3	3	2	1	1	1	1	0	1	1	0	0	1	33	165
219	Walker River Forks - riparian	20	0	10	70	2.3	1.3	2.3	3	1	2	2	3	3	2	2	2	3	2	1	1	2	0	0	1	38	141
220	Wall Canyon lower - main reservoir to Duck Flat stream riparian, Duck Flat meadow	20	5	50	25	2	3	1	2	2	3	2	3	3	0	3	2	3	2	0	0	3	0	0	2	39	86
221	Wall Canyon middle - Bordwell Creek confluence to, including main reservoir stream riparian	20	5	50	25	3	3	3	2	2	3	2	3	3	0	3	1	0	2	0	3	3	0	0	2	42	43
222	Wall Canyon upper - headwater to Bordwell Creek confluence stream riparian	85	5	0	10	2	3	1	3	3	1	1	1	1	0	1	0	0	2	0	1	1	0	0	1	26	187
223	Wall Canyon/Reservoir - spring systems (stream tributaries) riparian	35	0	30	35	3	3	3	3	0	0	2	3	2	0	2	0	1	3	0	2	3	0	0	2	36	102
224	Warm Springs Ranch (Independence Valley) - marsh	80	0	0	20	2	3	1	1	1	1	1	1	1	1.5	1	1	1	2	1	1	2	1	0	1	29	176

ID	Site Description	%Priority Wetlands Intact	%Priority Wetlands Eliminated	%Priority Wetlands Converted	%Priority Wetlands Degraded	Wildlife Habitat, Diversity, Food Web	Special Status Wetland Dependent Taxa	Outdoor Recreation	Hydrology and Water Supply	Erosion and Sediment Control	Flood Control	Water Quality Maintenance	Socioeconomic Importance	Surface Water Diversion/Development	Groundwater Pumping	Hydrogeomorphic Modification	Land Development	Farming	Livestock Grazing	Mining	Outdoor Recreation	Nonnative Plants or Animals	Energy Development	Military Mission	Stewardship Urgency	Score	New Rank
225	Warm Springs Ranch (Independence Valley) - springs	0	0	100	0	2	2	2	2	1	1	1	1	1	1.5	3	1	1	2	1	2	3	1	0	2	33	121
226	Washoe Valley - lake-reservoir riparian woodland, shrubland, marsh, wet meadow	0	0	100	0	3	2	3	3	2	3	1	3	3	2	1	2	2	1	1	1	3	1	1	2	43	39
227	Weber Reservoir - reservoir riparian woodland, shrubland, marsh, wet meadow	0	0	100	0	2	2	3	3	2	3	2	3	3	3	2	2	3	1	1	1	2	0	0	1	42	80
228	*Whirlwind Valley Playa - ephemeral playa lake*	80	0	10	10	3	3	1	2	1	1	1	1	2	3	1	1	2	3	3	1	2	1	1	3	39	51
229	White Mountains - Wet Meadow	20	10	5	65	3	3	3	3	3	3	3	3	3	2	2	2	2	3	2	3	2	1	1	2	53	23
230	White Plains, Humboldt Slough - playa lake marsh, wet meadow, shrub phreatophytes	100	0	0	0	2	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	27	182
231	White River Lower - springs/brooks (Camp, Emigrant, Moon River, Moorman, Sunnyside/Kirch)	50	0	40	10	3	3	3	3	2	1	3	3	2	1	1	1	2	2	0	1	2	0	0	2	39	86
232	White River Upper - springs/brooks (Lund, Preston, Ruppes Place/Boghole, The Cove)	50	25	10	15	3	3	1	3	0	0	2	3	3	2	3	1	2	2	0	0	3	0	0	3	37	57
233	White Rock/Wilson Creek Range - Big Jack spring	50	0	0	50	2	3	1	1	0	0	1	1	1	0	2	0	1	3	0	1	1	0	0	3	23	137
234	Winnemucca Lake - playa/ephemeral pool, marsh	10	0	0	90	1	1	1	1	1	1	1	1	3	1	1	3	2	1	1	1	1	1	1	1	26	188

* The name of this site was changed from the original NPWI report

Appendix 3: New scores for the Nevada Priority Wetland Inventory sorted by rank. Sites with a statistically significant negative trend from the Landsat analysis are indicated by italics for 1985-2021 and bold for 2006-2021.

ID	Site Description	%Priority Wetlands Intact	%Priority Wetlands Eliminated	%Priority Wetlands Converted	%Priority Wetlands Degraded	Wildlife Habitat, Diversity, Food Web	Special Status Wetland Dependent Taxa	Outdoor Recreation	Hydrology and Water Supply	Erosion and Sediment Control	Flood Control	Water Quality Maintenance	Socioeconomic Importance	Surface Water Diversion/Development	Groundwater Pumping	Hydrogeomorphic Modification	Land Development	Farming	Livestock Grazing	Mining	Outdoor Recreation	Nonnative Plants or Animals	Energy Development	Military Mission	Stewardship Urgency	Score	New Rank
161	Schell Creek Range - stream riparian	5	5	35	55	3	3	3	3	3	3	3	3	2.5	1	2.5	2	2	3	1	3	2	1	1	3	51	1
79	Little Humboldt - below Chimney Reservoir; Cottonwood, Martin lower, Santa Rosa east side creeks	20	0	50	30	3	3	3	2.5	2	2	2	3	3	3	3	3	3	3	1	2	2	1	0	3	51	2
113	North Fork Humboldt - Beaver Creek to headwaters, and tributaries	10	0	38	53	2.5	3	3	3	2.5	2.5	3	3	3	1	2	1	3	3	3	2.5	3	0	0	3	50	3
158	San Antonio Site - spring/brook	10	10	10	70	3	3	1	3	2	2	2	3	2	2	3	3	3	3	1	1	2	1	1	3	47	4
150	Rock Creek upper, Tosa Wihi Hunu'u* - stream riparian woodland, wet meadow, marsh, springs/brooks	60	0	30	10	3	3	2	3	2	2	2	2	3	2	2	1	3	3	2	1	2	1	1	3	46	5
162	Schell Creek Range - wet meadow	20	10	30	40	3	3	2	2	3	2	3	2	2.5	1	2.5	2	1	3	1	3	2	1	1	3	46	5
142	Railroad Valley springs and marshes	0	0	20	80	3	3	2	3	0	0	3	2.5	3	2	3	1	2	3	1	2	2	3	1	3	46	6
160	Schell Creek Range - spring/springbrook	5	10	30	55	3	3	3	3	1	1	2	3	2.5	2	2.5	2	1	3	1	2	2	1	1	3	45	7
212	*Twentyone Mile Marsh - stream riparian marsh, wet meadow, springs/brooks*	45	0	20	35	3	3	2	3	2	2	2	2	3	2	3	1	2	3	1	1	2	1	1	3	45	8
57	Humboldt River - Elburz to Palisade	0	5	50	45	3	1	1.5	3	2	2	2	3	3	2	3	3	3	3	2	1	3	0	0	3	45	9
92	Meadow Valley Wash Lower - Elgin north to, including Clover Creek	15	10	15	60	3	3	2	3	0	1	2	3	3	2	3	2	3	2	1	2	2	1	0	3	44	10
30	Clover Valley (north) spring pools and outflows	20	0	60	20	3	3	1	3	1	1	1.5	3	3	1	3	1	2	3	1	2	2	2	1	3	44	11
31	Colorado River below Davis Dam Mojave river riparian	0	50	20	30	1	3	3	3	1	1	3	3	3	1	3	3	3	1	1	2	3	1	0	3	43	12
24	Carson River/Carson Valley - river open water, California border to Carson Valley exit	0	0	0	100	2	2	2	3	2	2	2	3	3	3	3	3	2	3	1	1	2	0	0	3	43	13
122	Owyhee South Fork - Independence Valley w/tributaries	0	0	50	50	3	3	3	1	3	2	3	3	3	0	1	1	3	3	2	1	2	0	0	3	43	13
183	*Steptoe Valley Middle - Bassett Lake*	55	20	15	10	3	2	3	2	1	1	2	2	3	3	1	2	2	2	2	1	3	3	0	3	43	13
207	Truckee River Trib.s (Franktown, Galena, Whites, Thomas, Hunter, other creeks) - stream riparian	20	60	15	5	3	2	3	3	3	2	3	3	2	1	2	3	1	1	1	2	2	1	0	3	43	13
140	Quinn River Lakes - (near Kings River confluence) intermittent ponds	75	0	15	10	3	3	1	2	3	2	1	2	2	3	3	1	2	2	1	1	2	1	1	3	42	14
179	Spring Valley - Baking Powder Flat playa/ephemeral pool, spring pool/brook	70	0	15	15	3	3	1	2	1	1	1	2	3	3	1	1	3	3	3	1	2	1	1	3	42	15
184	Steptoe Valley Middle - Duck Creek discharge area	60	10	10	20	3	3	2	2	1	1	2	2	2	3	1	2	2	2	1	1	3	3	0	3	42	16
182	Steptoe Valley Middle - Basset Slough riparian meadow, marsh	70	10	10	10	3	3	2	2	1	1	2	2	2	2	1	2	2	2	2	1	2	3	0	3	41	17
3	Argenta Marsh	0	10	0	90	2.3	1	1	2.3	1	1	1	1	3	3	3	2	3	3	3	1	3	3	0	3	41	18

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36	Dixie Valley springs, riparian	10	10	15	65	3	3	1	3	0	0	1.4	3	3	2.2	3	1.4	1	3	0	1	1	3	1	3	40	19
109	Muddy River Upper - Springs/brooks	3	10	25	63	3	3	1	3	1.5	1.5	2	3	2	3	2.5	2	1.5	0.5	0	1	3	0.5	0	3	40	20
126	Pahranagat River/Valley - spring/brook	0	0	0	100	3	3	3	3	0	1	1	3	1	3	3	1	1	2	0	3	3	0	0	3	40	21
180	*Spring Valley - Yelland Lake playa/ephemeral pool, spring/brook, lowland stream, wet meadow, marsh*	70	0	15	15	3	3	1	2	1	1	1	2	2	3	1	1	2	3	3	1	2	1	1	3	40	22
229	White Mountains - Wet Meadow	20	10	5	65	3	3	3	3	3	3	3	3	3	2	2	2	2	3	2	3	2	1	1	2	53	23
7	Big Smoky Valley springs / brooks (Charnock, Darroughs, Alkali Flat)	40	10	20	30	3	3	1	3	3	3	1.5	3	3	2.5	3	3	2	3	3	1	2	2	1	2	52	24
60	Humboldt River South Fork, headwaters to S. Fk. Reservoir	45	0	15	40	3	3	3	3	3	3	3	3	3	1	3	2	3	3	1.5	2	3	0	0	2	52	25
198	Toiyabe Range - Wet Meadow	10	15	5	70	3	3	3	3	3	3	3	3	2.3	1.7	1.7	2	1.7	3	2	2	2.3	1	1	2	51	26
197	Toiyabe Range - stream riparian	50	5	5	40	3	3	3	3	3	3	3	3	2.3	1.3	2	2	1.3	3	2	2	2.3	1	1	2	50	27
76	Lamoille Valley	55	0	40	5	3	3	3	3	3	3	3	3	3	1	1	3	3	3	0	2	3	1	0	2	50	28
201	Toquima Range - Wet Meadow	10	15	5	70	3	3	2	3	3	3	3	3	2	2	1	3	1	3	2	2	3	1	1	2	50	28
214	*Virgin River lower, state border to Halfway Wash - river riparian*	15	15	25	45	3	3	2	2.5	2.5	3	1	3	3	2.5	2.5	3	3	2.5	0.5	3	3	0.5	0	2	50	29
86	Mason Valley - Walker River riparian	0	0	80	20	3	2	2	3	3	1	2	3	3	3	3	3	3	3	3	1	3	0	0	2	49	30
102	Monitor Range (upper elev.) - wet meadow	10	15	5	70	3	3	3	3	3	3	3	3	2	1.5	1	2	1	3	2	2	2	1	1	2	49	31
99	Monitor Range (upper elev.) - Aspen Woodland	50	5	5	40	3	3	3	3	3	3	3	3	1	1.5	1	2.5	1	3	2	2	2	1	1	2	48	32
84	Maggie Creek and tributaries	53	0	8	40	3	3	2	3	3	3	3	3	2	2.5	2	1	1.5	2.5	3	1	3	0	0	2	48	33
5	Ash Meadows spring complex w/stream, marsh	8	18	55	19	3	3	3	3	3	3	2	3	3	3	3	2	1	0	2	1	3	0	0	2	47	34
141	Quinn River, Quinn River V. - lowland river riparian, shrubland, wet meadow	60	0	30	10	2	3	1	1	2	2	2	3	3	3	3	2	3	3	1	2	2	1	1	2	45	35
100	Monitor Range (upper elev.) - Spring/brook	50	5	5	40	3	3	2	3	2	2	3	2	2	1.5	1	2	1	2.5	2	2	2	1	1	2	44	36
194	Summit Lake tributaries (Mahogany, Summer Camp, Snow crk.s) - stream riparian	93	0	0	7	3	3	3	3	2	2.3	3	3	1	2	1	1	1.7	1.7	1.2	3	3	0	0	2	44	37
6	*Ash Meadows wet meadow*	4	18	58	20	3	3	2	2	2	3	2	3	3	3	3	2	0	0	2	1	3	0	0	2	43	38
85	Marys River and tributaries	50	0	15	35	3	3	2.5	3	3	3	3	2	2	1.5	1.5	1	2	3	0.5	1	2	0	0	2	43	39
226	Washoe Valley - lake-reservoir riparian woodland, shrubland, marsh, wet meadow	0	0	100	0	3	2	3	3	2	3	1	3	3	2	1	2	2	1	1	1	3	1	1	2	43	39
59	Humboldt River - Wells to Elburz	10	0	80	10	3	3	1	2	2	2	1	3	3	1.5	3	1	3	3	0	1	3	1	0	2	43	40
81	Little Humboldt North Fork above the canyon (Chimney Reservoir) - stream riparian	90	0	0	10	3	3	2	3	3	3	3	3	1	1	1	1	1	2	2	1	2	1	0	2	42	41

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105	Montana/Double H Mountains - stream riparian	20	0	60	20	3	3	2	3	2	1	1	3	3	1	2	1	1	3	1	2	2	1	1	2	42	42
213	**Virgin River lower, Halfway Wash to Lake Mead - river riparian**	30	0	5	65	3	3	1	3	3	3	2	2	3	3	1	1	1	2	1	1	3	0	0	2	42	43
221	Wall Canyon middle - Bordwell Creek confluence to, including main reservoir stream riparian	20	5	50	25	3	3	3	2	2	3	2	3	3	0	3	1	0	2	0	3	3	0	0	2	42	43
146	Reese River upper headwaters and upper tributaries	67	0	0	33	3	3	3	3	3	3	2.7	3	1.3	0.7	1.3	0.3	0.7	2.7	0.7	1.3	2.3	0	0.3	2	41	44
83	Little Humboldt South Fork, above Chimney Reservoir - stream riparian	42	0	6	52	3	3	2	3	2	2	3	2.8	1.2	2	1	1	1.2	2.2	2	1	2	0.8	0	2	41	45
196	Toiyabe Range - Aspen Woodland	30	5	5	60	3	2.7	2.3	2	2	2	1.3	1.3	2	1.3	1.3	2	1.3	2.7	2	2	1.7	1	1	2	41	46
80	Little Humboldt - Martin Creek upper, Martin Basin creeks	80	0	0	20	3	3	2	3	3	2	3	3	1	1	1	2	0	2	2	1	1	1	0	2	40	47
101	Monitor Range (upper elev.) - stream riparian	40	5	5	50	3	3	3	2	3	2	1	1	1	1.5	1	2	1	2.5	2	2	1	1	1	2	40	48
108	Muddy River Lower - Glendale to Lake Mead, river riparian	0	25	50	25	2	2	2	1	1	1	0	3	3	3	3	3	3	2	2	2	3	0	0	2	40	49
215	Virgin River upper, w/Beaver Dam Wash - stream riparian	60	0	5	35	3	3	3	3	3	1	2	3	2	1	3	0	0	3	0	2	2	0	0	2	40	50
228	*Whirlwind Valley Playa - ephemeral playa lake*	80	0	10	10	3	3	1	2	1	1	1	1	2	3	1	1	2	3	3	1	2	1	1	3	39	51
128	Pahrump Valley - mequite-acacia complex (shrub phreatophytes)	10	23	22	45	3	3	2	2	0	0	0	1	3	3	2	3	2.7	0.3	0	3	3	1.7	0	3	39	52
121	Owyhee River - below Wildhorse Res, w/tributaries	20	0	20	60	2	2	2	3	2	3	2	2	2	0	2	2	2	3	1	1.5	3	0	0	3	39	53
112	*Newark Lake - playa*	70	0	15	15	3	3	1	2	1	1	1	1	2	3	1	1	2	3	1	2	2	1	1	3	38	54
147	Reese River upper mainstem - Clear Creek to Hwy 50	3	0	40	57	2.3	3	1.3	2	1.3	1.3	1.7	2	3	2	3	1.7	2	3	0.3	1	1.3	0	0.3	3	38	55
35	Diamond Lake Playa - playa lake/pool, spring pool/brook	35	0	15	50	3	3	1	2	1	1	1	1	1	2	1	1	1.5	2	2	3	2	2	1	3	38	56
232	White River Upper - springs/brooks (Lund, Preston, Ruppes Place/Boghole, The Cove)	50	25	10	15	3	3	1	3	0	0	2	3	3	2	3	1	2	2	0	0	3	0	0	3	37	57
103	Monitor Valley springs riparian	15	10	15	60	3	3	2	3	0	0	2	3	3	1.5	3	1	1	3	0	1	1	0	0	3	37	58
118	**Overton Wildlife Management Area - river riparian, marsh**	100	0	0	0	3	3	3	1	1	1	1	3	1	1	1	3	1	1	1	1	3	1	0	3	36	59
43	Franklin Lake (entire) w/ stream, big meadow (Duvall Ranch) to lake	35	0	10	55	3	3	2	2	1	0	0	2	2	1	2	2	2	3	0	1	3	0	0	3	35	60
93	Meadow Valley Wash Lower - Elgin south to Muddy River confluence	38	5	15	43	2.5	2	1	1	1	1	1	2	2.5	2.5	2.5	1.5	1	1.5	1.5	1	3	2	0	3	35	60
127	Pahranagat River/Valley - stream riparian	0	0	90	10	3	2	1	3	1	0	1	3	3	3	3	1	2	2	0	0	2	0	0	3	35	60
159	Schell Creek Range - aspen woodland	10	20	20	50	3	3	2	1	1	1	1	2	1	1	1	1	1	3	1	2	2	1	1	3	35	60
110	Muddy River Upper - upstream from Glendale, Mojave river/stream	0	0	0	100	2	2	1	3	1	1	1	3	1.5	3	2	2	1.5	1	0	1	3	1	0	3	34	61
96	Meadow Valley Wash Upper - spring systems (about 25)	10	10	40	40	2	2	1	3	0	0	3	3	3	1	3	1	0	3	1	1	2	0	0	3	33	62

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34	Coyote Springs (Pleasant Valley, Pershing Co.) - spring complex, outflow	10	0	50	40	3	3	1	2	0	0	2	2	3	1	3	0	0	3	0	1	1	1	0	3	32	63
45	Goose Creek and tributaries	25	0	50	25	2	2	1	2	2	2	2	1	3	0	2	1	1	3	0	1	3	0	0	3	32	64
19	Carson River Trib.s - lowland ponds, reserviors, woodland- urban interface	50	0	0	50	3	2	3	3	2	2.3	2	3	2	3	2	2	3	3	1	1.8	2	1	1	1	47	65
205	Truckee River Trib.s - lowland ponds / reserviors, woodland- urban interface	50	0	0	50	3	2	3	3	2	2	2	3	2	3	2	2	3	3	1	2	2	1	1	1	47	65
208	**Truckee River Tribs. - aspen woodlands**	0	0	100	0	3	2	2	3	3	3	2	3	2	3	3	1	2	3	1	2	1	1	1	1	46	66
209	Truckee River Tribs. - lower wet meadows, mostly irrigated	0	0	100	0	2	2	3	3	2	2	2	3	3	3	3	1	3	3	1	2	2	1	1	1	46	67
17	Carson River Trib.s - aspen woodlands	0	0	100	0	3	2	2	3	3	3	2	3	2	3	3	1	2	3	1	1.8	1	1	1	1	46	68
18	Carson River Trib.s - lower wet meadows, mostly irrigated	0	0	100	0	2	2	3	3	2	2	2	2.8	3	3	3	1	3	3	1	2	2	1	1	1	46	69
73	Lake Mead NRA BluePoint, Rogers, Corral springs	50	5	15	30	3	3	3	3	2	1	1	3	3	1	3	1	1	1	1	3	3	1	1	1	44	70
163	Sheldon NWR - aspen on Virgin, Hell, Cottonwood, Wheeler crk.s, below basalt outcrops, snowpockets	40	0	0	60	3	3	3	3	3	3	3	3	1	1	1	1	1	1	2	2	2	1	1	1	44	71
165	Sheldon NWR - marsh particularly in Virgin Valley	95	0	0	5	3	3	3	3	3	3	3	3	1	1	1	1	1	1	2	2	2	1	1	1	44	71
167	Sheldon NWR - riparian shrubland, woodland Virgin, Thousand, Hell, Badger, Cottonwood, Catnip crk.s	35	0	0	65	3	3	3	3	3	3	3	3	1	1	1	1	1	1	2	2	2	1	1	1	44	71
71	Lahontan Reservoir, Carson river (upstream reach) – open water, riparian woodland	45	25	0	30	3	3	3	3	3	3	2	3	3	2	2	1	0	2.8	0	1	3	0	0	1	44	72
181	Starr Valley	50	0	40	10	3	3	1.3	3	3	3	3	2	3	0.3	1	2	3	3	0	1	3	0	0	1	44	73
89	Mason Valley - Wildlife Management Area riparian	90	0	10	0	3	3	3	2	3	3	2	3	3	3	3	0	1	1	0.8	1	2	0	0	1	43	74
199	Topaz Lake - open water, reservoir	0	0	100	0	2.3	1	3	3	2	2.3	2	3	2	1	3	1	3	3	1	3	2	1	1	1	43	75
87	Mason Valley - Wildlife Management Area marsh	100	0	0	0	3	3	3	3	3	3	3	3	3	3	1	0	1	1	1.5	1	1	0	0	1	43	76
120	Owyhee East Fork - w/tributaries, including Wildhorse Reservoir	27	12	9	53	2	2	3	3	2	2	2	3	3	0	3	1	2	3	1	3	3	0	0	1	42	77
164	*Sheldon NWR - lakes/reservoirs (Big Spring, Alkali, Catnip Reservoirs, Swan Lake)*	100	0	0	0	3	3	3	2	3	3	2	3	1	1	1	1	1	1	2	2	2	1	1	1	42	78
189	*Steptoe Valley WMA - Comins Lake*	90	0	0	10	3	3	3	3	3	3	3	3	1	1	0	1	0	1	2	2	2	2	0	1	42	79
227	Weber Reservoir - reservoir riparian woodland, shrubland, marsh, wet meadow	0	0	100	0	2	2	3	3	2	3	2	3	3	3	2	2	3	1	1	1	2	0	0	1	42	80
78	Las Vegas Wash, above Lake of LV - riparian woodland, shrubland, marsh	20	20	0	60	3	3	3	3	2	2	2	3	3	0	3	2	0	0	0	3	3	0	0	1	41	81
152	Ruby Lake NWR marsh	80	0	0	20	3	3	3	3	3	0	3	2	1	3	1	1	1	1	1	1	3	1	1	1	41	82
190	Steptoe Valley WMA - springs, marsh, small ponds	35	10	30	25	3	3	3	2	3	3	3	3	1	1	1	1	0	1	1	2	2	2	0	1	41	83

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10	Bruneau River and tributaries - stream riparian	93	0	2	5	3	3	2	3	3	3	3	2	1	0	2	1	1	2	0	3	2	0	0	1	40	84
69	Jarbidge River and tributaries	94	0	1	5	3	3	3	3	3	3	3	3	1	0	1	1	1	1	1.5	2.5	1	0	0	1	40	85
22	Carson River/Carson Valley - marshes	20	60	0	20	3	2	1	3	2	2	3	3	3	3	1	2	2	1	0	1	2	0	0	2	39	86
58	Humboldt River - Rose Creek to Rye Patch Reservoir	35	0	15	50	3	1	1	3	2	1	2	2	2	2	2	2	3	3	1	1	3	1	0	2	39	86
63	Huntington Creek, headwaters to S. Fk. Humboldt confluence	0	0	25	75	2	2	2	3	2.5	2.5	2.5	2	2	1.5	1.5	1.5	2	3	1	1	3	0	0	2	39	86
104	Montana/Double H Mountains - spring/brook	20	0	60	20	3	2	2	2	1	1	1	3	3	2	2	1	1	3	1	2	2	1	1	2	39	86
125	Pahranagat River/Valley - marsh	30	20	20	30	3	3	3	1	2	2	1	3	3	1	3	3	1	2	0	1	1	0	0	2	39	86
135	Quinn River - Q.R. Crossing vic. terminal/ephemeral wetlands and meadow	75	0	15	10	3	2	1	1	2	2	2	2	3	3	2	1	2	2	1	1	2	1	1	2	39	86
172	*Snow Water Lake (Clover V.) - terminal lake, ephemeral playa lake/pool, spring pool/brook*	70	0	15	15	3	3	2	2	1	1	1	1	2	3	1	1	2	3	1	2	2	1	1	2	39	86
200	Toquima Range - Aspen Woodland	20	15	10	55	3	3	2	2	2	2	1	1	1	2	1	2	1	3	2	2	1	1	1	2	39	86
220	Wall Canyon lower - main reservoir to Duck Flat stream riparian, Duck Flat meadow	20	5	50	25	2	3	1	2	2	3	2	3	3	0	3	2	3	2	0	0	3	0	0	2	39	86
231	White River Lower - springs/brooks (Camp, Emigrant, Moon River, Moorman, Sunnyside/Kirch)	50	0	40	10	3	3	3	3	2	1	3	3	2	1	1	1	2	2	0	1	2	0	0	2	39	86
129	Pine Creek watershed	10	0	40	50	2	3	2	2	2	2	1.3	1	2.3	1.5	3	1	1.8	3	0.8	1	3	1	0	2	39	87
117	O'Neil Basin - Salmon Falls River forks and tributaries	50	0	10	40	3	2	2	3	3	3	2	2	3	0	1	1	2	2	0	2	2	0	0	2	38	88
123	Owyhee South Fork - narrows to stateline w/tribs	0	0	50	50	2	2	2	3	2	2	1	3	3	0	3	1	2	3	1	1	3	0	0	2	38	89
29	Chimney Reservoir	100	0	0	0	3	1	3	3	3	3	3	3	0	2	0	0	1	0	2	2	3	1	0	2	37	90
77	Las Vegas Valley - Corn Creek springs/brooks	5	0	75	20	3	3	3	3	0	0	0	3	3	3	3	1	1	0	0	2	3	0	0	2	37	91
106	Montana/Double H Mountains - wet meadow	20	0	80	0	3	2	1	3	1	1	1	3	1	1	3	1	2	3	1	1	2	1	1	2	37	92
116	Oasis Valley stream riparian	10	0	20	70	3	3	3	3	1	1	0	3	1	2	3	2	0	1	0	2	3	0	0	2	37	93
185	*Steptoe Valley Upper - Currie springs*	35	10	20	35	3	3	2	2	1	1	1	1	2	1	2	1	2	2	1	1	2	2	1	2	37	94
149	Rock Creek upper and Willow Creek - stream riparian, springs/brooks	25	0	5	70	3	3	2	3	3	3	3	2	1	0	1	0	0	2.5	1	1.5	2	0	0	2	37	95
82	Little Humboldt South Fork (Snowstorm Range) - stream riparian	30	0	10	60	3	3	1	3	3	3	3	1	1	0	1	1	1	2.5	1	1	1.5	0	0	2	36	96
115	Oasis Valley spring complex marsh	25	5	15	55	3	3	2	3	1	0	1	2	1	2	2	3	1	1	1	1	3	0	0	2	36	97
139	Quinn River - upper Q.R. Valley springs, bogs, small marshes	85	0	10	5	3	2	1	2	3	2	2	2	1	1	1	1	2	2	1	1	2	1	1	2	36	98
178	Spring Mountain - springs	19	37	22	22	3	3	3	3	1	0	0	3	3	1	2	1	0	0	1	3	3	0	0	2	36	99

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188	*Steptoe Valley Upper - Twin Springs*	25	10	20	45	3	3	1	2	1	1	1	1	2	1	2	1	2	2	1	1	2	2	1	2	36	100
206	Truckee River Trib.s - Steamboat Creek riparian, marsh, wet meadow	0	75	5	20	2	1	2	3	3	3	3	3	1	1	3	3	0	0	0	1	3	1	0	2	36	101
223	Wall Canyon/Reservoir - spring systems (stream tributaries) riparian	35	0	30	35	3	3	3	3	0	0	2	3	2	0	2	0	1	3	0	2	3	0	0	2	36	102
66	Jackson Mtn.s - stream riparian w/in Wilderness Area	80	0	0	20	3	2	2	3	2	1	1	2	2	1	1	1	1	3	1	2	1	1	1	2	36	103
74	Lake Tahoe tributaries - riparian	0	0	0	100	3	3	3	3	3	0	3	3	1	0	2	2	0	0	0	2	2	0	0	2	36	104
42	Fly Ranch / Geyser - spring complex	80	0	10	10	3	3	1	3	0	0	3	2	3	1	2.6	1	1	1.6	0	1	1	2	0	2	35	105
38	Duck Flat Lake - playa, marsh	100	0	0	0	3	3	2	2	1	1	3	2	1	2	1	2	1	1	1	1	1	1	0	2	35	106
95	Meadow Valley Wash Upper - main stem, Condor Canyon to Caliente	0	5	90	5	2	1	1	1	1	1	1	3	3	3	3	2	3	3	1	1	2	0	0	2	35	107
133	Quinn River - low elev. stream riparian, marsh, oxbow, near Devil's Gate and Oregon Border	90	0	0	10	3	2	1	2	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	2	35	108
187	***Steptoe Valley - McDermid Creek***	10	10	20	60	3	2	1	2	1	1	1	1	2	1	2	1	2	3	1	1	2	2	1	2	35	109
157	Salmon Falls River and tributaries	45	0	20	35	2	2	2	2	2	2	2	2	3	0	2	1	1	2.5	0	2	3	0	0	2	35	110
14	Carico Lake tributaries	10	0	40	50	2	2	2	2	1	2	1	2	2	1	2	1	1	3	2	2	2	0	0	2	34	111
37	Dolly Varden Spring (Antelope V., Elko Co.) - pool/brook	8	3	50	40	3	3	1	2	0	0	2	2	3	2	3	1	1	3	0	1	1	0	0	2	34	112
64	Jackson Mtn.s - spring/brook, within Wilderness Area	70	0	4	26	3	2	2	2	1	1	1	2	2	1	1	1	1	3	1	2	1	1	1	2	34	113
193	***Summit Lake***	100	0	0	0	3	3	1	2.4	1	1	1	3	1	2	1	1	1.6	1.6	1	1	2	0	0	2	34	114
25	Carson River/Carson Valley - river riparian	1	95	0	4	2	2	1.3	1.3	1	1	1	3	3	2	3	2	2	2	0	1	2	0	0	2	34	115
46	Goshute Lake (Steptoe Valley, north) - ephemeral playa lake/pools	70	0	15	15	3	2	1	2	1	1	1	1	1	3	1	1	1	3	1	1	2	1	1	2	33	116
50	Gridley Lake spring/brook	0	0	0	100	3	3	2	2	0	0	0	1	2	2	1	1	1	2	1	1	3	1	1	2	33	117
144	Red Rock Canyon - spring/springbrook	20	40	20	20	3	3	3	3	1	0	0	3	2	1	1	1	0	0	0	3	3	0	0	2	33	118
27	Carson Sink playa / ephemeral pool; marsh	80	0	0	20	2	2	1	1	1	1	1	1.8	3	1	1	3	3	1	1	1	2	1	1	2	33	119
4	Ash Meadows - riparian willow, ash, mesquite woodland; saltbush shrubland	12	14	54	20	3	2	3	2	0	0	0	2	3	3	3	1	0	0	1.5	1	3	0	0	2	33	120
225	Warm Springs Ranch (Independence Valley) - springs	0	0	100	0	2	2	2	2	1	1	1	1	1	1.5	3	1	1	2	1	2	3	1	0	2	33	121
41	*Fish Lake Valley (McNett) springs*	0	0	90	10	3	3	1	2	0	0	1	2	3	0	3	1	2	2	0	1	2	0	0	2	32	122
49	*Gridley Lake playa*	95	0	0	5	3	3	2	2	0	0	0	1	2	2	1	1	1	1	1	1	3	1	1	2	32	123
26	Carson River/Carson Valley - wet meadow, mostly irrigated	20	0	0	80	2	1	1	3	1	1	2	3	1.3	2	1	3	1	3	0	1	2	0	0	2	31	124

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32	*Continental Lake - Baltazor Meadow*	80	0	10	10	3	1	2	2	1	1	1	2	2	2	1	1	1	2	1	1	1	2	0	2	31	125
48	Grass Valley playa	70	0	15	15	3	2	1	2	1	1	1	1	1	1	1	1	1	3	1	1	2	1	1	2	31	126
171	Smoke Creek - stream outflow, including wells and springs	80	0	10	10	2	3	1	2	0	0	0	2	2	3	1	1	1	2	1	1	1	3	0	2	31	127
186	***Steptoe Valley Upper - Indian Ranch springs***	55	10	15	20	3	2	1	2	1	1	1	1	2	1	2	1	1	1	1	1	2	1	1	2	31	128
114	North Fork Humboldt - Elburz to Beaver Creek	0	0	40	60	1.5	1.5	1	1.5	1.5	1.5	1.5	1.5	1.5	0	3	2	1.5	3	1	1	3	0	0	2	31	129
55	Hot Spring Hill (Kobeh V.) high water table seep areas, forb/graminoid cover, wet/upland mosaic	0	0	0	100	2	3	1	1	1	1	1	1	1	1	1.5	1	1	1	1	3	1	1	1	3	30	130
56	Hot Spring Hill (Kobeh V.) spring/brook - marsh, wet meadow, wet-/upland mosaic	0	0	0	100	2	1	1	3	1	1	1	1	3	1	1.5	1	1	1.5	1	2	1	1	1	3	29	131
174	Soda Spring Valley - Sodaville Scorecard site	0	25	50	25	1	2	1	1	0	0	0	1	3	2	3	3	1	1	2	1	3	0	0	3	28	132
148	Rock Creek lower (county road to lowest gorge)	0	0	40	60	3	2	1	3	1	1	1	1	1	0	1	1	0	3	0	1	2	0	0	3	27	133
51	Hamlin Valley Big Springs - spring/brook	25	0	25	50	2	3	1	1	0	0	1	1	1	1	3	0	1	3	0	1	1	0	0	3	25	134
13	Carico Lake - playa, spring/brook	20	0	0	80	2	3	1	1	0	0	0.5	1	2	1	0	0	1	3	2	1	1	0	0	3	25	135
40	*Fish Creek Springs*	25	0	25	50	2	3	0	2	0	0	1	1	3	1	1.5	1	1.5	1	0	0	1	0	0	3	24	136
217	***Walker Lake open water***	0	0	65	35	2	2	3	0	0	0	3	3	3	2	0	0	0	0	0	1	0	0	0	3	23	137
233	White Rock/Wilson Creek Range - Big Jack spring	50	0	0	50	2	3	1	1	0	0	1	1	1	0	2	0	1	3	0	1	1	0	0	3	23	137
130	Prather Springs - Windemere Hills spring pool	50	0	20	30	2	3	1	1	0	0	0	1	1	1	1	0	1	3	0	1	1	0	0	3	22	138
143	Red Rock Canyon - ephemeral pool	90	0	0	10	3	3	2	0	1	1	0	3	0	0	0	0	0	0	0	2	1	0	0	3	22	139
211	Truckee River/Lake Tahoe Trib.s - montane lake, pond, reservoir	25	10	0	65	3	3	3	3	2	1	2	3	1	1	2	1	1	1	1	2	1	1	1	1	39	140
219	Walker River Forks - riparian	20	0	10	70	2.3	1.3	2.3	3	1	2	2	3	3	2	2	2	3	2	1	1	2	0	0	1	38	141
67	Jackson Mtn.s - stream riparian, outside Wilderness Area	30	0	50	20	3	2	2	3	2	1	1	3	2	1	2	1	1	3	1	1	2	1	1	1	38	142
91	Massie/Mahala Sloughs - riparian woodland, shrubland, wet mdw., emergent veg.	0	0	100	0	2.2	2.2	1	2	1	2	1	1.2	3	3	3	3	1	3	1	1	1	1	1	1	38	142
47	*Grapevine - Sacatone Canyons - desert wash riparian*	90	0	0	10	3	2	2	3	3	1	1	2	1	1	1.5	1.5	1	1	1	2	3	1	1	1	37	143
54	Hot Creek Spring - spring/brook, terminal marsh	50	5	0	45	3	3	3	2	2	2	1	2	3	0	2	0	0	3	2	1	2	0	0	1	37	144
68	Jackson Mtn.s - wet meadow	20	0	60	20	3	2	1	3	2	1	1	3	1	1	1	1	3	3	1	1	2	1	1	1	37	144
97	***Mohave Reservoir aquatic***	0	0	100	0	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	3	3	1	0	1	37	144
168	Sheldon NWR - wet meadow, most w/stream riparian Virgin, Hell, Catnip, Big Spring, Fish crk.s	75	0	15	10	2	2	3	3	2	2	2	3	1	1	1	1	1	1	2	2	2	1	1	1	37	144
52	Harmon Reservoir - riparian woodland, shrubland, marsh, wet meadow	0	0	80	20	2	2	3	2	3	3	1	2.3	3	1	1	1	2	1	0.8	1	2	1	0.8	1	37	145

ID	Site Description	%Priority Wetlands Intact	%Priority Wetlands Eliminated	%Priority Wetlands Converted	%Priority Wetlands Degraded	Wildlife Habitat, Diversity, Food Web	Special Status Wetland Dependent Taxa	Outdoor Recreation	Hydrology and Water Supply	Erosion and Sediment Control	Flood Control	Water Quality Maintenance	Socioeconomic Importance	Surface Water Diversion/Development	Groundwater Pumping	Hydrogeomorphic Modification	Land Development	Farming	Livestock Grazing	Mining	Outdoor Recreation	Nonnative Plants or Animals	Energy Development	Military Mission	Stewardship Urgency	Score	New Rank
16	Carson Lake wet meadows	90	0	10	0	3	3	3	0	1	3	2	3	1	1	1	2	1	1.3	0	1	2	1	1	1	36	146
70	Lahontan Reservoir - aquatic	100	0	0	0	3	2	3	3	3	3	1.5	3	1	1	1	1	1	1	0	1.8	2	0	0	1	36	147
62	Humboldt Sink - playa lake, marsh, wet meadow, shrub phreatophytes	80	0	20	0	3	2	2	1	1	3	1	1	3	1	1	1	3	1	1	1	3	1	1	1	36	148
65	Jackson Mtn.s - spring/brook, outside Wilderness Area	60	0	20	20	3	2	2	2	1	1	1	3	2	1	2	1	1	3	1	1	2	1	1	1	36	149
94	Meadow Valley Wash Upper - Condor Canyon	25	0	10	65	2	3	2	2	2	1	1	3	2	0	2	1	2	1	2	2	3	0	0	1	36	150
136	Quinn River - south and east forks (north flank Santa Rosa Range to confluence)	85	0	0	15	2	2	2	3	2	2	2	3	1	1	1	1	1	3	1	1	2	1	1	1	36	151
191	Stillwater NWR - marsh, wet meadow	5	0	0	95	3	3	3	1	1	1	2	3	1	1	1	3	1	1	0	1	2	1	1	1	36	152
15	Carson Lake marshes	0	0	50	50	3	3	3	0	0	3	2	3	1	1	1	2	1	1.3	0	1	2	1	1	1	35	153
204	*Truckee River Lower - river riparian, oxbows*	5	5	15	75	3	3	2	3	1	1	1	3	1	1	1	1	1	1	1	1	3	1	0	1	35	154
61	Humboldt River South Fork, S. Fk. Reservoir to Humboldt River	0	0	8	93	2	1.5	2.5	3	2	2	2	2.5	1	0	2	1	2	3	0.5	1.5	3	0	0	1	35	155
88	Mason Valley - Wildlife Management Area open water, cooling ponds	100	0	0	0	3	1	3	2	1	2.3	2	3	3	3	1	0	1	1	2	1	1	0.8	0	1	35	156
138	Quinn River - upper elev. trib.s riparian shrubland, small wet meadows	80	0	0	20	2	2	2	3	2	2	2	2	1	1	1	1	1	3	1	1	2	1	1	1	35	157
153	Ruby Lake NWR spring complex (pools/outflows)	50	0	38	12	2	2	2	3	3	0	2	2	1	3	1	1	1	1	1	1	3	1	1	1	35	158
44	Franklin Lake watershed - tributary streams, lower reaches	75	0	20	5	3	1	3	3	1	0	3	3	2	0	1	1	2	2	0	2	3	0	0	1	34	159
170	Smith Creek Playa - ephemeral playa lake/pool, spring pool/brook	70	0	15	15	3	2	1	2	1	1	2	1	2	1	1	1	1	3	1	1	2	1	2	1	34	160
20	Carson River Trib.s (Clear, Ash, Kings, Vicee creeks) - perennial & intermittent stream riparian	10	0	0	90	3	3	1.3	1	1	1	2	1.3	2	1	2	1.3	1	1	1	2	1	1	0.8	1	34	161
134	Quinn River - lowland tributaries riparian, intermittent flow, wet meadow (McDermitt, Washburn Crk.s)	70	0	10	20	1	1	1	1	2	2	2	2	3	2	2	1	2	2	1	1	3	1	1	1	33	162
156	Rye Patch Reservoir	100	0	0	0	1	1	3	2	3	3	2	3	2	1	1	1	1	1	1	1	2	1	1	1	33	163
173	Soda Lakes - lake / reservoir	80	0	0	20	2	1	3	1	1	1	1	2	2	2	1	3	1	1	1	3	1	2	1	1	33	164
218	*Walker Lake shorezone*	100	0	0	0	3	3	3	0	1	0	3	3	3	2	1	1	1	1	0	1	1	0	0	1	33	165
11	Buffalo Valley Playa - playa lake, ephemeral pool, spring/brook	70	0	15	15	3	2	1	2	1	1	1.2	1	1	1.8	1	1	1	3	1	1	2	1	1	1	32	166
124	Pahranagat River/Valley - lake / reservoir, Maynard playa lake	100	0	0	0	3	3	3	3	0	0	1	3	1	1	1	1	1	1	0	2	2	0	0	1	32	167
210	Truckee River Upper - river riparian, oxbows	0	60	0	40	2	3	3	3	1	1	1	3	1	1	2	2	0	0	0	1	3	0	0	1	32	168
202	Truckee Meadows vicinity - marshes Spanish Springs	60	20	17	3	2	1	3	2	0	2	1	3	3	2	1	3	0	0	0	2	3	0	0	1	31	169

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145	Reese River lower, Hwy 50 north to Humboldt River - stream riparian	15	0	25	60	1.3	1	1	1.3	1.3	1.3	1.3	1	3	2.7	1.3	2	2	3	0.7	0.3	3	0	0.3	1	30	170
216	***Walker Lake delta - unvegetated***	100	0	0	0	3	2	1	3	3	0	3	3	3	2	0	0	0	0	0	1	1	0	0	1	30	171
33	Continental Lake springs	100	0	0	0	3	2	1	1	1	1	1	2	1	2	1	1	1	1	2	1	1	1	0	2	29	172
192	Sullivan Spring, Antelope V. - spring pool/brook	50	10	20	20	3	3	1	1	0	0	2	1	2	1	2	1	1	2	0	0	1	0	0	2	27	173
75	Lake Valley Springs - spring bog/marsh	75	0	0	25	2	3	1	1	1	1	1	1	1	0	0	0	0	2	0	1	1	0	0	2	21	174
39	*Fernley Sink playa/ephemeral pool, marsh*	100	0	0	0	1	2	1	1	1	1	1	1	3	2	1	3	1	1	1	1	2	1	1	1	29	175
90	*Massacre/Middle/West Lakes - playa/ephemeral pool*	100	0	0	0	3	2	2	1	1	1	1	2	1	1	0	1	1	3	1	1	1	1	0	1	29	175
119	Owyhee Desert Playas - ephemeral playa lake/pools	80	0	10	10	2	2	1	2	1	1	1	1	1	1	1	1	1	3	1	1	1	1	2	1	29	175
166	*Sheldon NWR - playas/ephemeral pools (near Swan Lake, Round Mountain)*	100	0	0	0	2	2	1	1	1	1	1	2	1	1	1	1	1	1	2	2	2	1	1	1	29	175
224	Warm Springs Ranch (Independence Valley) - marsh	80	0	0	20	2	3	1	1	1	1	1	1	1	1.5	1	1	1	2	1	1	2	1	0	1	29	176
131	*Pyramid Lake delta*	100	0	0	0	3	3	3	1	3	0	2	2	0	0	0	0	0	1	0	1	3	0	0	1	28	177
154	Ruby Lake NWR wet meadow	71	0	0	29	3	0	2	0	3	0	0	1	1	3	1	1	1	2	1	1	3	1	1	1	28	178
176	Spring Mountain - aspen woodland	65	15	0	20	3	3	3	2	1	0	0	2	1	0	1	1	0	0	0	2	3	0	0	1	28	179
169	Sherman Creek	35	0	10	55	2.3	3	1	1	1	1	1	1	0.3	0	1	1.3	1	3	0	1.7	3	0	0	1	28	180
175	Soldier Meadows - springs/brooks above reservoir, wet meadows	81	0	5	14	2	3	3	2	0	0	0	3	2	1	1	1	1	1.6	0	1	1	0	0	1	28	181
230	White Plains, Humboldt Slough - playa lake marsh, wet meadow, shrub phreatophytes	100	0	0	0	2	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	27	182
72	Lahontan Reservoir - marsh	75	25	0	0	3	2.3	1	1	1	1	1	1	1	2	1	1	0	2	0	1	2	0	0	1	27	183
151	Ruby Lake aquatic	50	0	50	0	3	3	3	0	0	0	0	3	1	1	0	0	1	1	0	2	2.5	0	0	1	27	184
9	Black Rock Desert playa / ephemeral pool; springs/brooks	95	0	0	5	1	1	3	1	1	1	1	3	1	1	1	1	1	1	1	2.4	1	1	1	1	26	185
203	Truckee Meadows vicinity - Swan Lake marsh Lemmon Valley	100	0	0	0	3	2	3	0	0	0	2	2	0	1	0	3	0	0	0	1	3	0	1	1	26	186
222	Wall Canyon upper - headwater to Bordwell Creek confluence stream riparian	85	5	0	10	2	3	1	3	3	1	1	1	1	0	1	0	0	2	0	1	1	0	0	1	26	187
234	Winnemucca Lake - playa/ephemeral pool, marsh	10	0	0	90	1	1	1	1	1	1	1	1	3	1	1	3	2	1	1	1	1	1	1	1	26	188
12	*Calcutta, Middle, Cow lakes - playa/ephemeral pool*	100	0	0	0	3	2	1	2	0	0	1	1	1	2	0	1	1	1	1	1	1	1	0	1	25	189
137	Quinn River - terminus, northern portion Black Rock playa lake	100	0	0	0	1	1	1	1	1	1	1	1	1	3	1	1	2	1	1	1	2	1	1	1	25	190
177	Spring Mountain - montane fen-bog	80	0	0	20	3	3	1	3	1	0	0	1	1	0	2	1	0	0	0	1	2	0	0	1	25	191

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195	Susie Creek	25	0	5	70	2	2	1	1	1	1	1	1	1	0.7	0	1	1	3	0	1	3	0	0	1	25	192
1	*Alkali Lake WMA*	90	0	0	10	1	1	1	1	1	1	1	1	3	2	1	2	1	1	1	1	1	1	0	1	24	193
2	*Alkali Lake/Forty-Mile Lake - playa / ephemeral pool*	100	0	0	0	3	2	1	2	0	0	1	1	1	2	0	1	1	1	1	1	1	0	0	1	24	194
23	Carson River/Carson Valley - ponds / reservoirs near foothills	100	0	0	0	2	1	1.3	2	1	1.3	1	2	1	2	1	1	1	1	0	1	1	0	0	1	24	195
98	Mohave Reservoir riparian woodland	0	50	0	50	2	1	3	1	1	1	2	3	0	0	0	0	0	0	0	3	3	0	0	1	23	196
21	Carson River/Carson Valley - lowland tributaries to West, East Forks	20	0	0	80	1	1	1	1	1	1	2	1	1	2	1	1	1	2	0	1	2	0	0	1	22	197
28	*Central Lake - playa / ephemeral pool*	100	0	0	0	2	2	1	2	0	0	1	1	1	2	0	1	1	1	1	1	1	0	0	1	22	198
111	New Year Lake - playa / ephemeral pool	100	0	0	0	2	1	1	1	1	1	1	1	1	1	0	1	1	2	1	1	1	1	0	1	22	199
107	Mosquito Lake - playa/ephemeral pool	100	0	0	0	2	1	1	1	1	1	1	1	1	1	0	1	0	2	1	1	1	1	0	1	21	200
132	Pyramid Lake open water	100	0	0	0	3	3	3	0	0	0	0	3	1	1	0	0	0	0	0	1	0	0	0	1	21	201
8	Black Canyon - springs/brooks	80	0	0	20	2	2	2	1	0	0	0	2	1	1	0	0	0	0	0	2	3	0	0	1	20	202
155	Ruby Valley sulphur hot springs, geothermal springs	75	0	0	25	1	2	2	0	0	0	0	1	0	2	1	2	0	1.5	0	2	1	1	0	1	20	203

* The name of this site was changed from the original NPWI report

Appendix 4: Remotely sensed trends scores for the Nevada Priority Wetland sites (-- is not statistically significant at 0.05 level)

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
1	Alkali Lake WMA					-0.0006	--		
2	Alkali Lake					-0.0093	--		
3	Argenta Marsh			--	--				
4	Ash Meadows riparian	--	0.0023						
5	Ash Meadows springs			--	--				
6	Ash Meadows meadows	-0.0006	0.0010	-0.0008	-0.0015				
7	Big Smoky Valley			--	--				
8	Black Canyon	-0.0009	-0.0008						
9	Black Rock Desert			0.0005	--	--	--		
10	Bruneau River			--	--				
11	Buffalo Valley			--	--	--	--		
12	Calcutta Lakes			0.0010	--	-0.0133	--		
13	Carico Lake playa			0.0005	--				
14	Carico Lake tributaries			0.0005	--				
15	Carson Lake marshes			--	--				
16	Carson Lake meadows			--	--				
17	Carson River tributaries aspen			--	--				
18	Carson River meadows			0.0067	--				
19	Carson River ponds							--	0.0138
20	Carson River tributaries			--	--				
21	Carson River Valley tributaries			--	--				
22	Carson River Valley marshes			--	--				
23	Carson River Valley ponds							--	--
24	Carson River Valley open water							0.0070	--
25	Carson River Valley riparian			--	--				
26	Carson River Valley meadows			--	--				

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
27	Carson Sink			0.0026	--	--	--		
28	Central Lake					-0.0024	--		
29	Chimney Reservoir							--	--
30	Clover Valley			--	--				
31	Colorado River	--	--						
32	Continental Lake - Baltazor			-0.0010	--				
33	Continental Lake springs			--	--				
34	Coyote Springs			0.0031	--				
35	Diamond Lake			--	0.0026				
36	Dixie Valley			0.0008	0.0026				
37	Dolly Varden Spring	--	--						
38	Duck Flat Lake			--	--	--	--		
39	Fernley Sink			--	--	-0.0032	--		
40	Fish Creek Springs			-0.0010	0.0036				
41	Fish Lake Valley			-0.0007	--				
42	Fly Ranch			0.0025	--				
43	Franklin Lake - Duvall			--	--			--	--
44	Franklin Lake watershed			--	--				
45	Goose Creek			--	--				
46	Goshute Lake					0.0000	--		
47	Grapevine Canyons	-0.0012	--						
48	Grass Valley					--	--		
49	Gridley Lake playa					-0.0023	--		
50	Gridley Lake springs			--	--				
51	Hamlin Valley Big Springs			--	--				
52	Harmon Reservoir			--	--				
53	Hoover Dam Refugia								

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
54	Hot Creek Spring			--	0.0037				
55	Hot Spring Hill seeps			--	--				
56	Hot Spring Hill marsh			--	--				
57	Humboldt River - Elburz to Palisade			--	--				
58	Humboldt River - Rose Creek to Rye Patch			0.0020	--				
59	Humboldt River - Wells to Elburz			--	--				
60	Humboldt River South Fork above reservoir			--	--				
61	Humboldt River South Fork below reservoir			--	--				
62	Humboldt Sink	--	--	--	--				
63	Huntington Creek			--	--				
64	Jackson Mtn Wildnerness Area springs			0.0011	--				
65	Jackson Mountains springs			0.0011	--				
66	Jackson Mtn Wildnerness Area riparian			0.0011	--				
67	Jackson Mountains riparian			0.0009	--				
68	Jackson Mountains meadow			0.0007	--				
69	Jarbidge River			--	--				
70	Lahontan Reservoir aquatic							--	--
71	Lahontan - Carson River			--	--				
72	Lahontan Reservoir marsh			--	--				
73	Lake Mead NRA springs			--	--				
74	Lake Tahoe			--	--				
75	Lake Valley Springs			--	--				
76	Lamoille Valley			--	--				
77	Las Vegas Valley			0.0043	0.0036				
78	Las Vegas Wash			0.0053	--				
79	Little Humboldt below Chimney			--	--				
80	Little Humboldt - Martin Basin			0.0011	--				

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
81	Little Humboldt North Fork			0.0015	--				
82	Little Humboldt - Snowstorm			0.0017	--				
83	Little Humboldt South Fork - Chimney			--	--				
84	Maggie Creek			--	--				
85	Marys River			0.0014	0.0055				
86	Mason Valley - Walker River			--	--				
87	Mason Valley WMA marsh			0.0044	--				
88	Mason Valley WMA ponds							--	--
89	Mason Valley WMA riparian			--	--				
90	Massacre Lakes					-0.0164	--		
91	Massie Sloughs			--	--				
92	Meadow Valley Wash lower north			0.0019	0.0035				
93	Meadow Valley Wash lower south			--	--				
94	Meadow Valley Wash upper - Condor			0.0018	0.0052				
95	Meadow Valley Wash main			--	--				
96	Meadow Valley Wash upper springs			--	--				
97	Mohave Reservoir aquatic							-0.0134	-0.0021
98	Mohave Reservoir riparian	--	--						
99	Monitor Range aspen			--	--				
100	Monitor Range springs			--	--				
101	Monitor Range riparian			0.0007	--				
102	Monitor Range meadow			--	--				
103	Monitor Valley			--	--				
104	Montana springs			0.0011	--				
105	Montana riparian			0.0010	--				
106	Montana meadow			--	--				
107	Mosquito Lake					--	--		

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
108	Muddy River lower	0.0071	--						
109	Muddy River upper springs			--	--				
110	Muddy River upper riparian	--	--						
111	New Year Lake					--	--		
112	Newark Lake					-0.0002	--		
113	North Fork Humboldt headwaters			--	--				
114	North Fork Humboldt below Beaver			--	0.0041				
115	Oasis Valley springs			0.0014	0.0036				
116	Oasis Valley riparian	--	0.0039						
117	ONeil Basin			0.0017	--				
118	Overton WMA	0.0022	--	--	-0.0158				
119	Owyhee Desert					--	--		
120	Owyhee East Fork			--	--				
121	Owyhee River below Wildhorse			0.0016	--				
122	Owyhee South Fork - Independence			--	--				
123	Owyhee South Fork to stateline			--	--				
124	Pahranagat River water							-0.0039	0.0146
125	Pahranagat River marsh			0.0027	--				
126	Pahranagat River springs			--	--				
127	Pahranagat River riparian	--	--						
128	Pahrump Valley	--	0.0019						
129	Pine Creek			--	--				
130	Prather Springs			--	--				
131	Pyramid Lake delta							-0.0061	--
132	Pyramid Lake							--	--
133	Quinn River - Devil			--	--				
134	Quinn River lower tributaries			0.0012	0.0024				

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
135	Quinn River Crossing			--	--	--	--		
136	Quinn River Forks			0.0015	--				
137	Quinn River terminus			--	--				
138	Quinn River upper tributaries			0.0011	--				
139	Quinn River Valley upper			--	--				
140	Quinn River Lakes					--	--	--	--
141	Quinn River Valley lower			--	--				
142	Railroad Valley			--	--				
143	Red Rock Canyon pools					--	--		
144	Red Rock Canyon springs			0.0014	0.0020				
145	Reese River lower			--	0.0024				
146	Reese River headwaters			0.0010	--				
147	Reese River mainstem			--	--				
148	Rock Creek lower			--	--				
149	Rock Creek - Willow Creek			0.0016	--				
150	Rock Creek - Tosa Wihi Hunu'u*			--	--				
151	Ruby Lake							--	--
152	Ruby Lake NWR marsh			--	--				
153	Ruby Lake NWR springs			--	--				
154	Ruby Lake NWR meadows			--	--				
155	Ruby Valley			--	0.0029				
156	Rye Patch							--	--
157	Salmon Falls			--	--				
158	San Antonio Site			0.0043	--				
159	Schell Creek Range aspen			--	--				
160	Schell Creek Range springs			--	--				
161	Schell Creek Range riparian			--	--				

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
162	Schell Creek Range meadow			--	--				
163	Sheldon NWR aspen								
164	Sheldon NWR ponds							-0.0122	--
165	Sheldon NWR marsh			--	--				
166	Sheldon NWR playas					-0.0072	--		
167	Sheldon NWR riparian			--	--				
168	Sheldon NWR meadow			--	--				
169	Sherman Creek			0.0012	0.0028				
170	Smith Creek			0.0010	--	--	--		
171	Smoke Creek			--	--				
172	Snow Water Lake			-0.0016	--	--	--		
173	Soda Lakes							-0.0005	--
174	Soda Spring Valley			0.0016	--				
175	Soldier Meadows			--	--				
176	Spring Mountain aspen			--	--				
177	Spring Mountain fen			--	--				
178	Spring Mountain springs			0.0010	0.0018				
179	Spring Valley - Baking Powder			--	--	-0.00001	--		
180	Spring Valley - Yelland Lake			--	--	-0.0002	--		
181	Starr Valley			--	--				
182	Steptoe Valley Middle - Basset Slough			--	--				
183	Steptoe Valley Middle - Bassett Lake							-0.0065	--
184	Steptoe Valley Middle - Duck Creek			--	--				
185	Steptoe Valley Upper - Currie			-0.0014	--				
186	Steptoe Valley Upper - Indian Ranch			-0.0027	-0.0100				
187	Steptoe Valley Upper - McDermid Creek			-0.0031	-0.0069				
188	Steptoe Valley Upper - Twin Springs			-0.0022	--				

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
189	Steptoe Valley WMA - Comins Lake							-0.0111	--
190	Steptoe Valley WMA springs			0.0017	--				
191	Stillwater NWR			0.0025	--				
192	Sullivan Spring			--	--				
193	Summit Lake							-0.0059	-0.0189
194	Summit Lake tributaries			0.0021	--				
195	Susie Creek			0.0010	--				
196	Toiyabe Range aspen			--	--				
197	Toiyabe Range riparian			0.0008	--				
198	Toiyabe Range meadow			--	--				
199	Topaz Lake							--	--
200	Toquima Range aspen			--	--				
201	Toquima Range meadow			--	--				
202	Truckee Meadows - Spanish Springs			--	--				
203	Truckee Meadows - Swan Lake			--	--				
204	Truckee River lower			-0.0006	--				
205	Truckee River ponds							0.0047	--
206	Truckee River - Steamboat			--	--				
207	Truckee River tributaries riparian			--	--				
208	Truckee River tributaries aspen			--	-0.0028				
209	Truckee River tributaries meadows			--	--				
210	Truckee River upper			0.0013	--				
211	Truckee River - Tahoe tributaries							--	--
212	Twentyone Mile Marsh			-0.0013	--				
213	Virgin River - Halfway down	--	-0.0187						
214	Virgin River - Halfway up	-0.0021	--						
215	Virgin River upper	--	--						

		Vegetation				Surface Water			
		Late Spring (Mojave)		Late Summer (Great Basin)		Late Spring (ephemeral)		Late Summer (perennial)	
	Site	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021	1985-2021	2006-2021
216	Walker Lake delta							-0.0268	-0.0172
217	Walker Lake							-0.0059	-0.0076
218	Walker Lake shorezone							-0.0084	0.0000
219	Walker River Forks			--	--				
220	Wall Canyon lower			0.0015	--				
221	Wall Canyon middle			0.0011	0.0044				
222	Wall Canyon upper			0.0015	0.0037				
223	Wall Canyon reservoir			0.0009	0.0030				
224	Warm Springs Ranch marsh			--	--				
225	Warm Springs Ranch springs			--	--				
226	Washoe Valley			--	--			--	--
227	Weber Reservoir			--	--			--	--
228	Whirlwind Valley			--	--	-0.0003	--		
229	White Mountains			--	--				
230	White Plains			--	--				
231	White River lower			--	--				
232	White River upper			0.0008	0.0028				
233	White Rock			--	--				
234	Winnemucca Lake			0.0006	--	--	--		

* The name of this site was changed from the original NPWI report

Appendix 5: Example site report

Nevada Wetland Mapping Level 1 Report 2023-03-16

Site Name: 3 Argenta Marsh
Ownership: BLM; BOR; Private

County: Eureka,NV; Lander,NV
Location: -116.711784; 40.697789 Lon/Lat WGS-84
524342; 4505253 UTM Zone 11 NAD83
Area: 49509.77 acres
Perimeter: 87.57 miles
Updated: 2020-07-06

HUC10: 1604010509; 1604010508; 1604010510; 1604010605; 1604010710
S.E. Area: Lower Reese River Valley; Whirlwind Valley; Clovers Area; Boulder Flat

Environmental Conditions	Average	Range
Elevation (m):	1392.1	1372 to 1434
Slope (%):	0.3	0 to 38
Dominant aspect(s):	Mixed	
Annual precipitation (mm)	261	
Monthly precipitation (mm):	19	6 to 35
Monthly Minimum temperature (C):	0	-9 to 13
Monthly Mean temperature (C):	9	-2 to 23
Monthly Maximum temperature (C):	18	4 to 35

Number of known springs: 2

Soils: Humboldt silty clay loam, slightly saline (7.9%);
Ocala silty clay loam, slightly saline (8.3%);
Humboldt silty clay, strongly saline (8.4%);
Humboldt silty clay, slightly saline (9.7%);
Ocala silt loam, strongly saline (13.7%);
additional small components (46.6%)

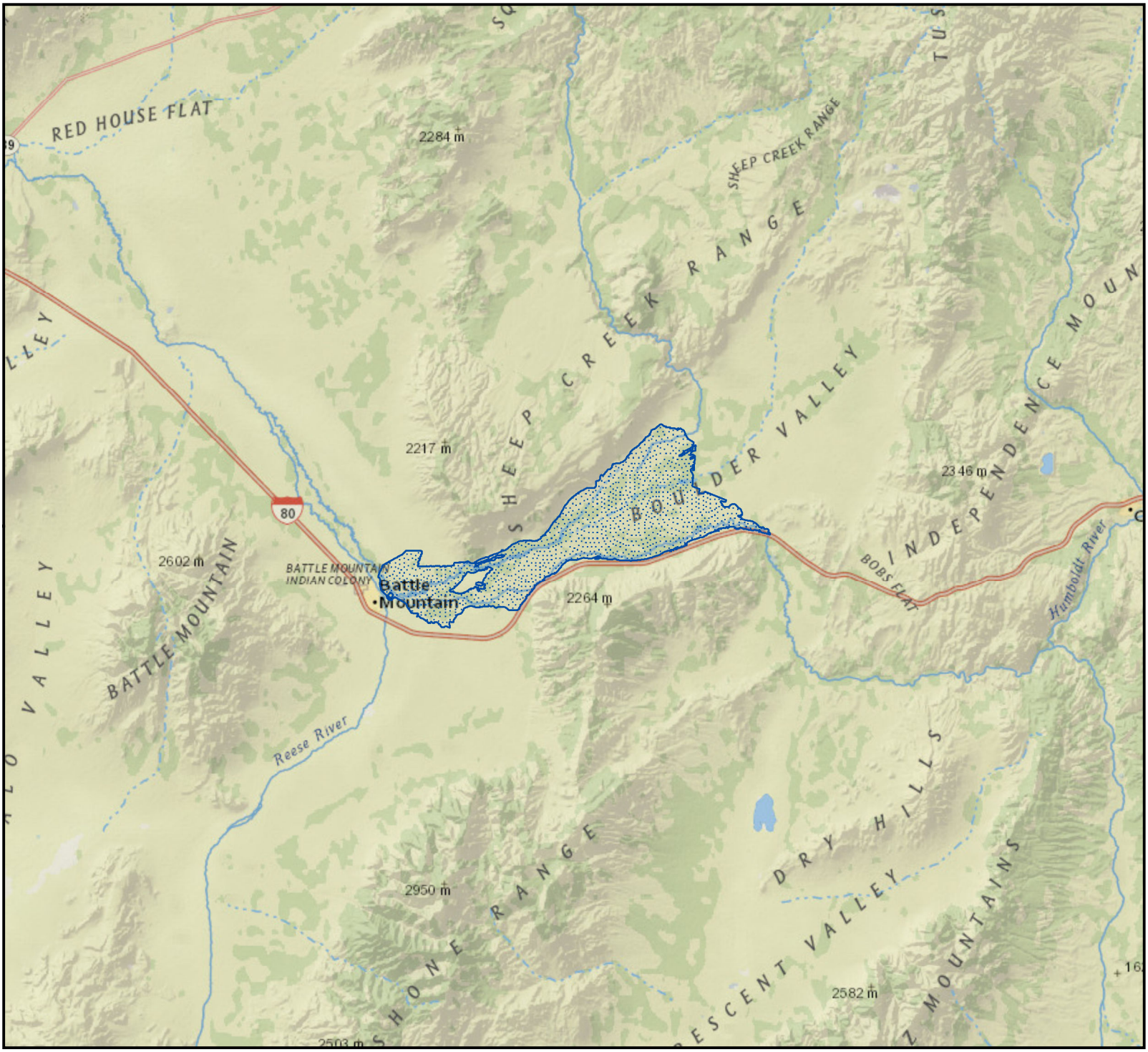
Wetland classes: Palustrine emergent (28.1%); Palustrine meadow (39.8%);
Palustrine shrub (30.8%); Riparian (1.3%)

NWI classes: PEM1/SSC; PEM1C; PSSC

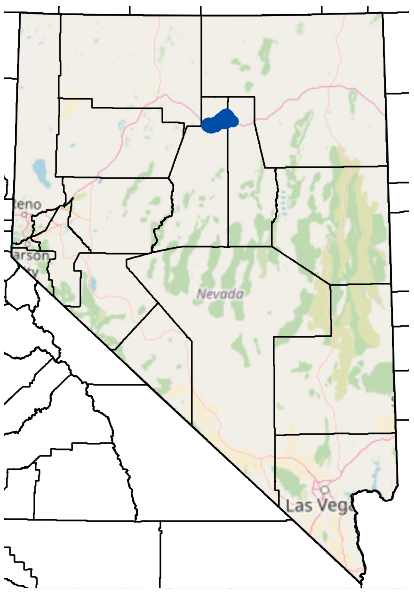
Tags: NPWImoreriparian; NPW2007 Draft 1; NPWInotspring; NPWIcombined; Inundated5ha; NPWInotpond; Palustrine; NPW_allwet; NPW_Marsh; NPWIlarge; Inundated; tmpsplit; notaspen; Riparian; NPW_NDVI; 9 others

Generated by DRI WetBar (www.dri.edu/wetland-mapnv)

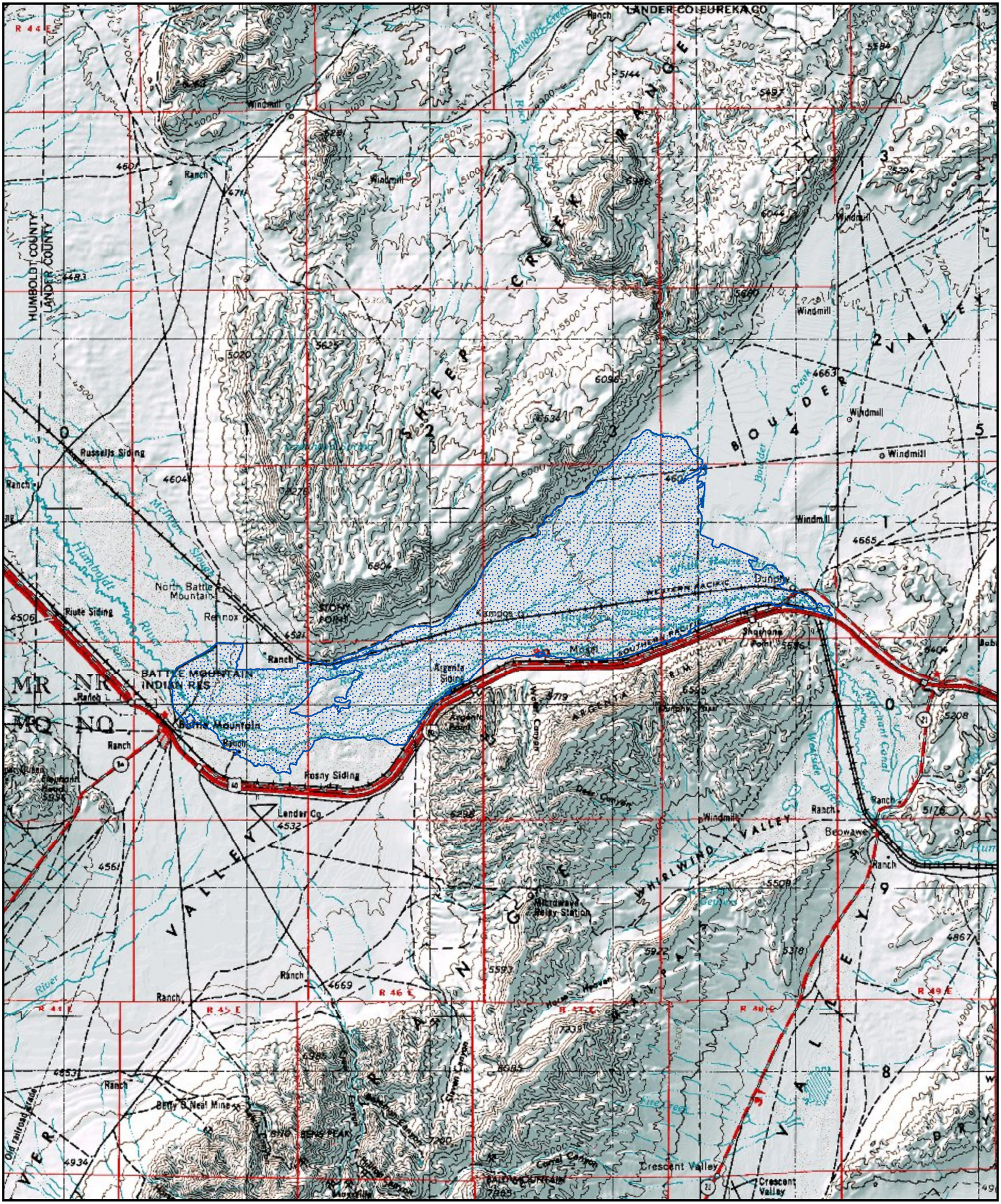
DRI Desert Research Institute



3 Argenta Marsh



N 0 35 Miles



3 Argenta Marsh

N 0 20000 meters

USGS National Map

3 Argenta Marsh

N 0 12000 meters

SSI Springs

Site Map

3 Argenta Marsh