Himantopus mexicanus



Photo by Larry Neel

Habitat Use Profile

Habitats Used in Nevada		
Ephemeral Wetland and Playa Open Water (shorelines)		
Key Habitat Parameters ●		
Plant Composition	Cattail, sedges, rushes	
Plant Density	Sparse or no emergent vegetation ¹	
Mosaic	Shallow marsh with sparse emergent vegetation, interspersed with dry spots, mudflats; also playa margins ⁷	
Water Depth	< 30 cm [12 in] ^{EO}	
Water Quality	Prefers relatively low salinity ⁷	
Hydrology	Stage can be variable EO	
Response to Vegetation Removal	Probably neutral ^{EO}	
Area Requirements ○		
Minimum Patch Size	Unknown	
Recommended Patch Size	> 130 ha [320 ac] ⁷	
Home Range / Territory Size	Unknown	

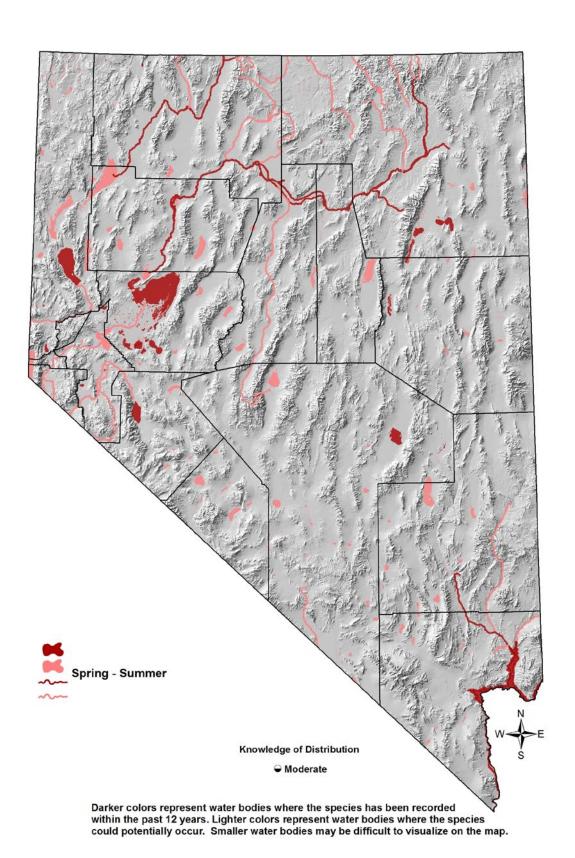
Conservation Profile

Cons	servation Profile		
	Priority Status		
Conservation Priority Species			
Species Concerns			
Habitat threats			
Other Rankings			
Continental PIF	None		
Audubon Watchlist	None		
NV Natural Heritage	S3S4B		
USFWS	Migratory Bird		
BLM	None		
USFS	None		
NDOW	Conservation Priority		
IW Shorebird Plan	Critically Important		
Trends			
Historical ●	Range contractions, but extent of		
	declines unclear ⁷		
Recent ●	Unknown, thought to be declining in Nevada ^{EO}		
Population Size Estimates			
Nevada ●	~ 3,000, with high annual variability ^{EO}		
Global ●	175,000 ^{1, 4}		
Percent of Global	~ 2 %		
Population Objective			
	Increase by 30% EO		
Monitoring Coverage			
Source	NDOW Lahontan Valley counts, NWR and WMA counts, Aquatic Bird Count		
Coverage in NV	Good in managed areas, Fair / Poor		
gororago	elsewhere, especially playas		
Key Conservation Areas			
Protection	Lahontan Valley, Humboldt system, Lake Mead		
Restoration	Degraded / dewatered marshes and playa wetlands, mitigation wetlands		

Natural History Profile

Seasonal Presence in Nevada		
Spring – Summer		
Fall and Spring (migration)		
Known Breeding Dates in Nevada		
Early April – July ²		
Nest and Nesting Habits		
Nest Placement	On ground near shore in sparse vegetation, or slightly elevated over water on mats of vegetation ^{7, EO}	
Site Fidelity	Unknown	
Other	Semi-colonial nester ⁷	
Food Habits		
Basic	Prober	
Primary Diet	Invertebrates from sediment or water ⁷	
Secondary Diet	Small fish, seeds ⁷	

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Overview

Like the more numerous and equally handsome American Avocet, the Black-necked Stilt is able to exploit ephemeral wetlands and other temporarily favorable wetland conditions. During wet years, when suitable habitat is widely available, their populations can show significant peaks. Compared to avocets, stilts are somewhat less tolerant of saline or alkaline waters, are less colonial, and also are more likely to forage within emergent vegetation. Overall, the American Avocet is slightly better documented in Nevada than the Black-necked Stilt, probably because its population is larger. Stilts breed more commonly in the Great Basin portion of the state, but southern Nevada has breeding strongholds as well in the Lake Mead area and at Ash Meadows NWR. As is the case with many other Conservation Priority shorebirds, Lahontan Valley is Nevada's most consistently important site for Black-necked Stilts. For this reason, it has been designated as a "Site of Hemispheric Importance" by the Western Hemisphere Shorebird Reserve Network (www.whsrn.org).

Black-necked Stilts are also common in Nevada during migration, particularly during the fall. They wander widely across the Great Basin in the post-breeding season, moving among wetlands as the summer progresses and some sites dry out or become otherwise unsuitable, and this ability to shift among seasonally-available ephemeral wetlands is a critical feature of the Black-necked Stilt's adaptive biology. Conservation strategies need to provide for the protection of suitable wetland habitat well beyond the breeding season. This complicates the management challenge, since the sites that are important for breeding may not be the same as the sites that are important for post-breeding wandering and migration. Because of their substantial similarities, Black-necked Stilts and American Avocets can be regarded as having the same management needs in most circumstances.

Abundance and Occupancy by Habitat

- The Nevada population estimate is based on an average count of 2,400 for Lahontan Valley and 600 in other scattered sites across the state (L. Neel, pers. comm.)
- The most recent ten-year peak population estimate is ~ 7,000 birds,³ and a peak of 8,000 birds in Lahontan Valley alone was recorded in 1987 ⁵

Nevada-Specific Studies and Analyses

No information

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Main Threats and Challenges

Habitat and Other Threats

- Loss or degradation of ephemeral and permanent wetlands due to water diversions or development
- Increased salinization of wetlands and accumulation of contaminants⁷
- Because Black-necked Stilts use ephemeral wetlands and wet playas extensively, they may be impacted by changing precipitation patterns associated with climate change

Research, Planning, and Monitoring Challenges

- Populations using ephemeral wetlands are not well monitored
- The impact of water quality is not well-studied

Conservation Strategies

Habitat Strategies

- Ephemeral Wetland and Playa (p. Hab-6-1) and Open Water (p. Hab-15-1) habitat conservation strategies benefit this species
- Promote seasonal fresh-water runoff into ephemeral wetlands and playas, as well as into sparsely-to-moderately vegetated permanent marshes, sufficient to create mudflats and maintain a shallow-water shoreline for the longest possible period
- Manage or restrict playa activities to protect the integrity of the clay soil pan and maximize water retention
- Wetlands with uneven bottoms and shallow islands are especially important for nesting EO
- Artificial mitigation wetlands can provide productive breeding habitat. Ideal configuration is > 130 ha [320 ac] wetland with a 2:1 ratio of shallow water (<15 cm [6 in]) feeding areas to elevated nesting areas¹

Research, Planning, and Monitoring Strategies

- Improve monitoring coverage of ephemeral wetlands and playas from the breeding season through the post-breeding and fall migration periods⁹
- Conduct additional study to determine tolerance to water quality variations

Public Outreach Strategies

None identified

References: ¹Brown et al. (2001); ²GBBO unpublished Atlas data; ³IWJV (in prep.); ⁴Morrison et al. (2006); ⁵Neel and Henry (1996); ⁶Robinson and Oring (1996); ⁷Robinson et al. (1999); ⁸Shuford et al. (2002); ⁹Warnock et al. (1998); ^{EO} Expert opinion