Lewis's Woodpecker Melanerpes lewis

Photo by Martin Meyers

Habitat Use Profile

Main Habitats	Montane Riparian				
Used in Nevada	Aspen				
Key Habitat Use Parameters	Cottonwood or aspen usually required in Nevada; but may use ponderosa or Jeffrey pine [p1] Snags with minimum DBH of 31 cm required for nesting (1 / 0.4 ha); ant hills heavily used for foraging [p1] 30% canopy closure recommended [p1] 50% cover of shrub understory recommended [p1]				
Minimum Patch Size	Territory size 1 – 6.1 ha, foraging area larger, often shared with other pairs [p1]				

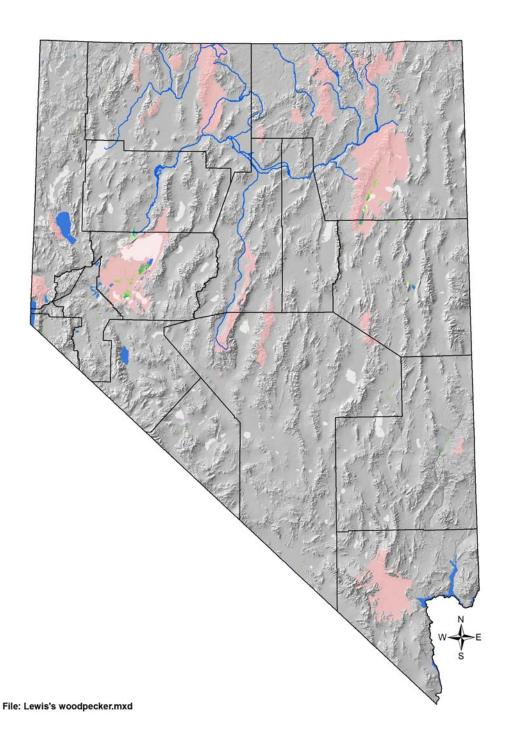
Conservation Profile

Priority Status	Conservation Target			
Reasons for Priority	Probable declines			
Status	Threats			
Status	Moderate stewardship responsibility			
Other Rankings	Continental PIF: Watch List			
	Audubon Watchlist: Red			
	Natural Heritage: S3			
	USFWS: Bird of Conservation Concern			
	(Great Basin and Sierra			
	Nevada), Migratory Bird			
	BLM: Sensitive Species			
	NDOW: Conservation Priority			
Trends	Historical: Substantial declines, and			
	probable range			
	contractions[p1]			
	Recent: Likely declines, though data not			
	definitive [p1, i1]			
	Nevada (NBC): 13,000			
Population Size	Nevada (PIF): 10,000			
Estimates	Global: 130,000 [p5]			
	Percent of Global: 8 – 10%			
Population	TBD			
Objective				
Monitoring	Source: Nevada Bird Count			
Coverage	Coverage and Adequacy: Very Good			
Key Conservation	Ruby Mountains, Jarbidge Mountains,			
Areas	Carson Range			

Natural History Profile

Seasonal Presence in Nevada	Spring – summer in northern Nevada Wintering may occur in Clark County [p1 p3, s]			
Known Breeding	Mid-May – early September [s4]			
Dates in Nevada				
Nesting Habits	Re-uses or excavates nest cavities in large decayed snags; may nest in burned areas [p1, EO] Nest tree: 15-26 m; usually taller than other trees; DBH 40-113 cm [p1], or > 18 cm [EO] Site fidelity low; high annual variation in numbers and site occupancy [p1]			
Food Requirements	Ants, flying insects, nuts, and fruits [p1]			

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Temporary Map Key

Pink: Breeding range

Hot pink / magenta: For some birds, breeding data was limited, and was supplemented by extrapolation to include likely breeding range. In these cases, hot pink represents known breeding range, and lighter pink the extrapolated breeding range.

Blue: Winter range

Yellow: Important migration stopover areas

Purple: Year-round range

Green: In some maps, wetlands mapped by SWReGAP are shown in green for interpretational purposes

Dot symbols: In cases where breeding records were isolated or very restricted in extent, they are represented by a pink dot symbol rather than a shaded area.

Arrows: Major migration routes. These are shown only for birds for which there are migration-associated conservation issues.

OVERVIEW

Although regarded as a specialist on burned pine forests in other parts of its range, in Nevada the Lewis's Woodpecker is most strongly associated with deciduous riparian woodlands dominated by aspen or cottonwood [NBC analysis, p = 0.01, i6]. Postbreeding nomadic movements, however, often extend its habitat use into Coniferous Forest. Key factors in habitat suitability are the presence large, partly-decayed snags, an open forest structure, and a well-developed shrub layer that promotes healthy populations of flying insects. Annual variation in numbers and a very patchy breeding distribution within the state make it hard to pinpoint current trends in Nevada, but the species is a conservation concern because of historic declines and Nevada's moderately high global stewardship responsibility.

ABUNDANCE AND OCCUPANCY BY HABITAT

• NBC data

Lewis's Wood	lpecker						
	Primary Habitat Type Present at Transect	No. Transects with Sightings	Nev	Nevada Bird Count Sightings per 40 ha			
				average	95% confidence interva I**	% transects occupied	
Great Basin Aspen Lowland Riparian Montane Riparian Montane Sagebrush Montane Shrub Mountain Mahogany	Aspen	5		3.1	-0.2 - 6.4	0.33 (6/18)	
	Lowland Riparian	2		1.6	-10.5 - 13.7	0.02 (1/66)	
	Montane Riparian	7		1.4	0.7 - 2.0	0.07 (6/88)	
	1		2.5	n/a	0.09 (11/11)		
	2		1.9	-6.2 - 10.0	n/a		
	Mountain Mahogany	2		1.3	n/a	0.22 (2/9)	
Mojave Aspen Montane Riparian	Aspen	n/a		n/a	n/a	0.14 (1/7)	
	n/a		n/a	n/a	0.22 (2/9)		

[Typo in Montane Sagebrush % occupied cell, 1/11, not 11/11]

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NEVADA-SPECIFIC STUDIES AND ANALYSES

• TBD

MAIN THREATS AND CHALLENGES

- Loss of aspen stands due to conifer invasion, livestock grazing pressure, and aspen decline due to pathogens and climate change
- Degradation of deciduous montane riparian habitat due to domestic and feral livestock grazing that reduces understory
- Role of fire in Nevada unclear; low intensity, patchy fire may be beneficial

CONSERVATION STRATEGIES

Habitat Strategies

- General Montane Riparian and Aspen conservation strategies, with emphasis on the following:
 - o Restore aspen stands to healthy, regenerating condition with multi-age woodland structure and healthy understory layer
 - o Manage grazing pressure in montane riparian habitats to protect integrity of understory vegetation and allow for aspen regeneration
 - o Retention of large snags in montane riparian habitats

Research, Planning, and Monitoring

- Continue monitoring to better determine current Nevada population trend
- Fire management strategy that allows for patchy, lower-intensity "regenerative" fires in aspen

OTHER PRIORITY SPECIES WITH SIMILAR CONSERVATION STRATEGIES

Calliope Hummingbird

FURTHER READING

TBD

Temporary codes for standard references

[p1] Birds of N. America account for this species

Lewis's Woodpecker

Melanerpes lewis

- [p2] NV Bird Conservation Plan ver. 1 (Neel 1999)
- [p3] NV Wildlife Action Plan
- [p4] Nevada Breeding Bird Atlas
- [p5] PIF N. American Landbird Conservation Plan (Rich et al 2004) (NOTE:
- [p6] Intermountain West Regional Shorebird Plan (Oring et al 2003)
- [p7] Pacific Flyway reports
- [p8] Shrubsteppe Landscapes in Jeopardy (Dobkin and Sauder 2004)
- [p9] Birds in a Sagebrush Sea (Paige and Ritter 1999)
- [s1] NBC-based population size estimates
- [s2, s3] NBC-based habitat relationship analysis
- [s4] Breeding Bird Atlas breeding phenology data
- [i1] BBS trends analysis (Sauer et al 2005)
- [i2] NV Upland Game Management Plan (Espinosa et al in prep.)
- [i3] Western Quail Management Plan (Zornes et al 2008)
- [i4] NDOW Shorebird and Waterbird monitoring data (Neel)
- [i5] Brad Andres IMJV Shorebird / Waterbird data set
- [i6] GBBO Technical Report 08-01 (2008)
- [EO] Expert opinion from NVPIF group members
- [IWWCP] Intermountain West Waterbird Conservation Plan
- [NAWCP] North American Waterbird Conservation Plan
- [LBCUSACP] Long-billed Curlew Status Assessment and Conservation Plan
- [USSCP] U.S. Shorebird Conservation Plan
- [WHSRN] Western Hemispheric Shorebird Regional Network