# Cyngus columbianus



Photo by Fred Peterson

# **Habitat Use Profile**

Main Habitats	Marsh
Used in Nevada	Open Water
Key Habitat Use Parameters	In winter: Permanent but shallow lakes, ponds, rivers, wetlands [p1] Presence of sago pondweed important [C. Mort. pers. comm] May forage in agricultural uplands [p1] Presumed high fidelity throughout lifespan to traditional wintering sites [p1] During migration: Similar to winter, but also prefer larger (>1.3 km²) bodies of predominantly open water [p1]
Minimum Patch Size	Not quantified, except preference for larger (>1.3 km²) water bodies during migration [p1]

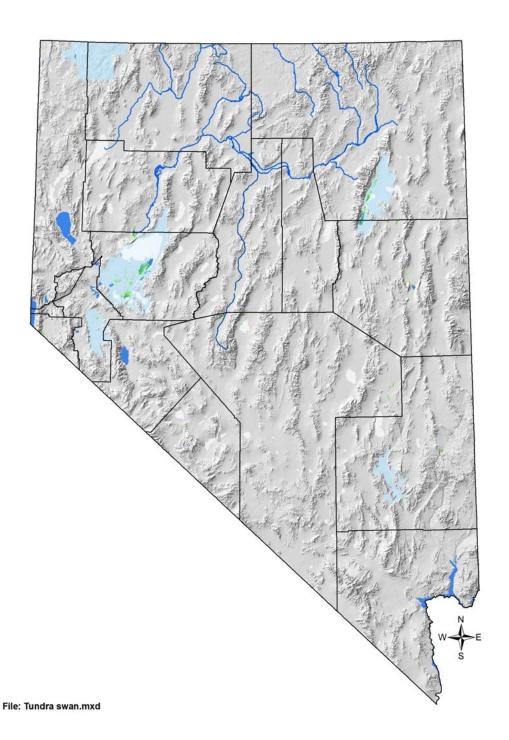
### **Conservation Profile**

Priority Status	Conservation Target
Reasons for Priority	Possible threats
Status	High stewardship for wintering
Other Rankings	Audubon Watchlist:
	Natural Heritage: [TBD]
	Pacific Flyway Council: High / Medium
	USFWS: Migratory Bird
	BLM: None
	NDOW: None
Trends	Historical: Significant declines through
	early 1990's followed by
	significant recovery [p1]
	Recent: Probably stable or growing
	moderately range-wide [p1]
	Nevada: 1,000 – 10,000, winter only
	Global: ~ 150,000 as of 1989; ~ 60,000
Population Size and	that winter in western N.
Stewardship %	America [p1]
Stewardship 16	Stewardship %: Up to 20% of swans
	wintering in western N.
	America [p1]
Population	TBD
Objective	
	Source: USFWS midwinter Tundra Swan
Monitoring	survey, refuge and WMA
Coverage	monitoring, [other, TBD]
	Coverage and Adequacy: Good [TBD]
Key Conservation Areas	Lahontan Valley
	Ruby Valley
	[Other TBD]

# **Natural History Profile**

Seasonal Presence	Winter
in Nevada	Migration
Known Breeding	None
Dates in Nevada	
Nesting Habits	N/A
Food Requirements	All parts of submerged and emergent aquatic vegetation [p1] Feeds up to a depth equivalent to neck length (~ 1 m) [p1] May feed in agricultural fields Supplement plant food with occasional invertebrates [p1]

# **Tundra Swan** *Cyngus columbianus*



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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**

The Tundra Swan breeds in the Arctic, and occurs in Nevada only through the winter and during migration. The species is divided into a "Western population" and "Eastern population" based on the location of wintering grounds, and Nevada hosts up to 20% of the Western population's wintering birds. Current management appears sufficient to maintain these populations, but they depend on water-dependent habitats that are under threat from a variety of sources.

#### ABUNDANCE AND OCCUPANCY BY HABITAT

TBD

#### NEVADA-SPECIFIC STUDIES AND ANALYSES

• TBD [add NDOW monitoring data]

#### MAIN THREATS AND CHALLENGES

- Few present threats exist, and Nevada wintering populations appear to be relatively stable under current management guidelines
- Climate change and future demands on water likely to be threats
- Nevada's smaller wintering sites may not be sufficiently protected

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#### CONSERVATION STRATEGIES

#### **Proscribed Strategies**

• Pacific Flyway Council and NDOW monitor populations

#### **Habitat Strategies**

- General Marshes and Open Water conservation strategies
- Manage wintering and migration stopover sites to encourage healthy growth of sago pond-weed

#### Research, Planning, and Monitoring

• Continue to monitor wintering populations, determine thresholds for conservation action, if habitat resources decline

#### OTHER PRIORITY SPECIES WITH SIMILAR CONSERVATION STRATEGIES

- Northern Pintail
- Lesser Scaup

#### **FURTHER READING**

• TBD

#### Temporary codes for standard references

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

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[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