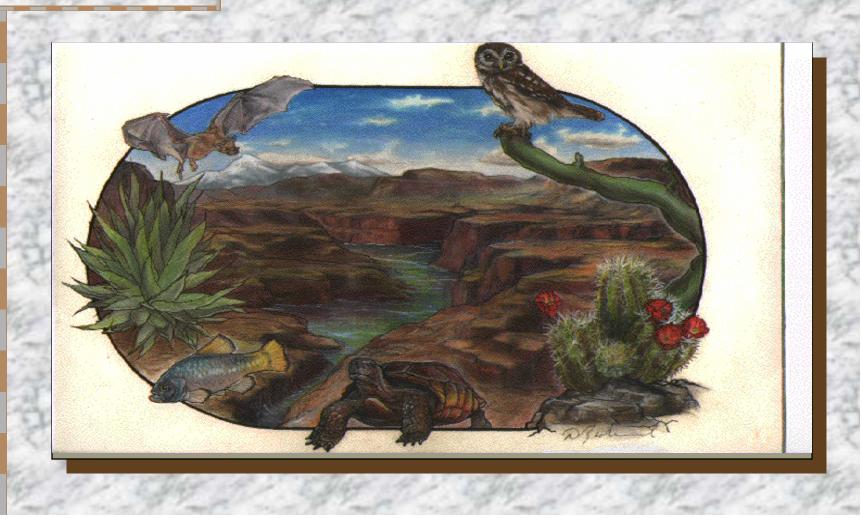


Arizona's HERITAGE DATA MANAGEMENT SYSTEM (HDMS)



Overview

- n The HDMS is a state-wide central repository of site specific data on special status species.
- n The HDMS is a dynamic database with data being added and corrected daily.
- n Clearinghouse for rare species information; data come from many sources including federal, state, and tribal agencies, museums and herbaria, academia, literature, Heritage Grant reports and sightings from knowledgeable individuals.

Overview continued ...

n The HDMS also has information about the taxonomy, ecology, biology and status of all vertebrates and many rare plants and invertebrates in Arizona.

n The HDMS produces biological abstracts for special status species.

n The HDMS is part of a global network of more than 80 Natural Heritage Programs and Conservation Data Centres.

Features & Benefits

n One stop shopping for special status species information: status, distribution, ecology, etc. Data standards and methods shared by all Natural Heritage Programs allowing for multijurisdictional projects/products. Range-wide planning efforts. n Online Environmental Review Tool – ties to CWCS.

Online Environmental Review

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Uses

n Land and resource management (e.g. HCP, EIS, BA, BE, prescribed burns)

n Project evaluations (e.g. compliance)

n Conservation (e.g. ecoregional planning, petitions for listing, recovery plans)

n Research (e.g. status survey)

n Environmental education

Users

n Federal, state, local and tribal agencies Naturalists and Conservation Groups n Educators and Researchers n Consultants and Developers n Policy makers n Students n General Public

Biological Abstract

ARIZONA GAME AND FISH DEPARTMENT HERITAGE DATA MANAGEMENT SYSTEM

APCN005021 Data Sensitivity: No

Element Code:

CLASSIFICATION. NOMENCLATURE, DESCRIPTION, RANGE

NAME:	Proziliopsie ozcidentalia covidentalie
COMMON NAME:	Gila Topminnow
SYNONYMS:	Heterandria occidentalia. Girardinus occidentalia, Girardinus sonoriensis. Poecilia occidentalia. Mollianisia occidentalia. Arizonichtiva pastimophilus

FAMILY: Preciliidae

AUTHOR, PLACE OF PUBLICATION: Baird, S.F. and C. Girard, 1853. Descriptions of new species. of fishes collected by Mr. John II. Clark, on the U.S. and Mexican Boundary Servey, under Ls. Col. Jas. D. Graham. Procedures of the Academy of Natural Sciences, Philadelphia, 6:387-390.

TYPE LOCALITY: Same Crott Bitter, near Tutaon, Arizona.

TYPE SPECIMEN:

Animal Abstract

TAXONOMIC UNIQUENESS: Two species in the genus in North America, only species in genus in Arizona, two subspecies in geoms in Acisons, P. occidentalis occidentalis and P. occidentalis genericensis

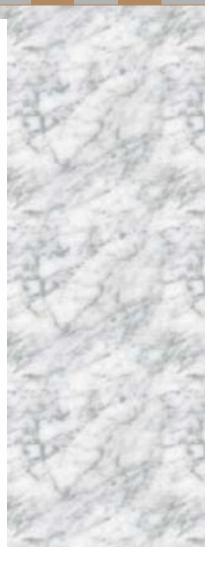
DESCRIPTION: Dorsal profile slightly curved, body somewhat elongated. Caudal fin rounded to almost square. Genepodium of msie elongated, reaching past snow when in copulatory position. Males small, mmly more than 25.0 mm (0.98 in.) standard longth; females larger, sometimes 50.0 mm (1.97 in.) or more, usually 50 to 45 mm (1,18 to 1,77 in.), standard length (Minckley 1973).

Body tan to olivaceous, deriver above, and offen white on helly. Scales on domum darkly outlined, extending as black speckles to upper belly and pre-pectoral area; lateral band dark and continuous along sides. Fins with mys outlaned with meissiophoces, but lacking dark spots. Beeeding males blackened, with some golden in midlineof predorsum, and orange at base of gonopodium and sometimes at base of dorsal fin. Females in breeding condition with darkened peritroct (Minckley 1973).

AIDS TO IDENTIFICATION: The two subspecies of topminnows can be distinguished by several

morphological characteristics. In P.o. occidentalis the snout is short, the mouth subsuperior and the dark lateral band of the female extends from the opercle to the base of the caudal fin. In <u>P</u> α sometieness the small is longer, the mouth superior and the lateral band of the female nurshy begins before the base of the pelvic fina (Minckely 1973, in Stefferud 1982). In addition, P.o. sonoriensis is found at the headwaters of the Yaqui River, whereas P.o. occidentalis is found below the headwaters (AGFD Native Fish Diversity Review 1995).

Pemsie topminnow may be distinguished from measuitofish (Gambusia affinnis) by lack of dark spots on candal fin and lack of dark sub-orbital teardrop-shaped mark; origin of dorsal and anal fin vertically in line, perpendicular to horizontal axis of fish, in mesquitofish origin of dorsal fin postorior to origin of anal fin. Male topminnow in breading condition may or may not become dark black, male mosquitofish never do; male topminsow gonopodium, when extended forward in copulatory position, extends very near to or past most, mele mosquitofish does not. Topminnow have weak, spatniste teath whereas incaquitofish have strong conically shaped teeth, distinguishable only with a microscope. Female topminnow are generally larger than males.



Availability

n General information is available to anyone upon request.

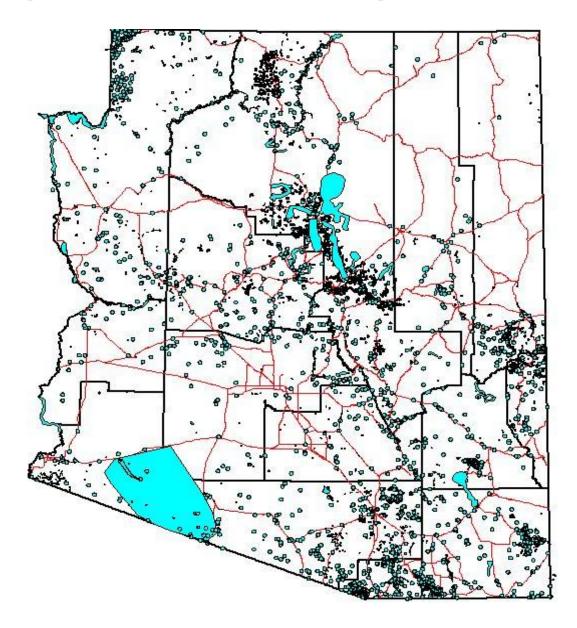
n Site specific data is available to land owner or land management agency, or to third parties with permission of owner.

n With MOU or other agreement, automatic update schedule can be established with cooperators.

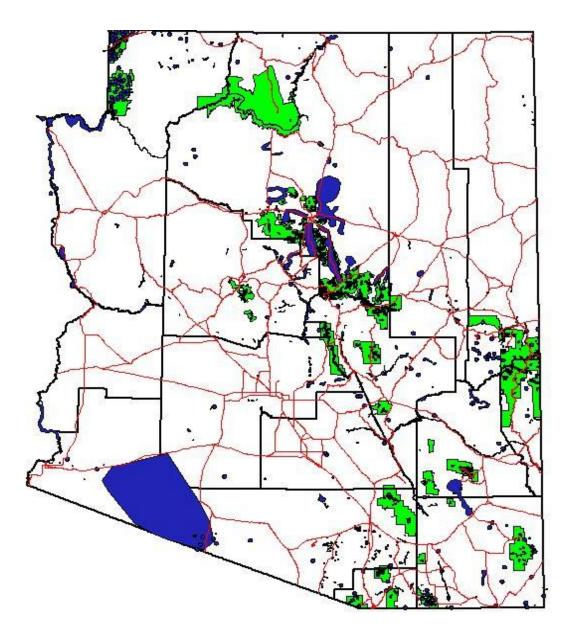
Transportation Projects

n McDOT Roadway Suitability Model
n Missing Linkages Project
n Road maintenance
n Individual project review

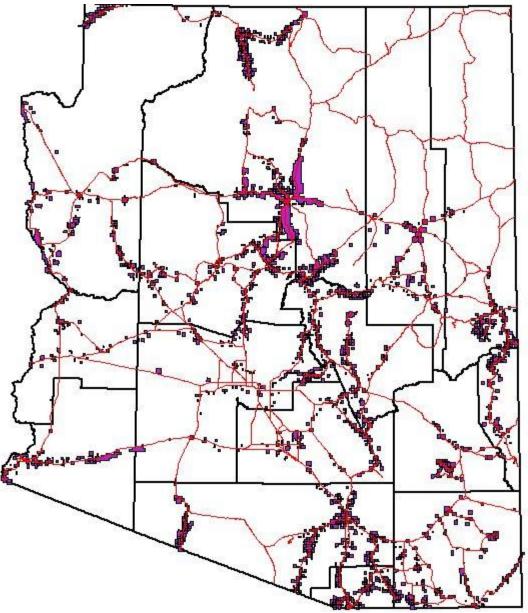
All Special Status Species



Listed Species w/Critical Habitats



Special Status Blocks near Highways



Data Limitations

n Information Currentness Information Sensitivity Need for Interpretation of Information Data Serves as a Guide - absence of data does not equate to absence of a species. Need for Surveys - not all of the state has been surveyed with the same scope and intensity.

n Not a Substitute for AGFD project review

Data Security Issues

n All subsets of the HDMS must be treated under the HDMS Security Protocol.
n FOIA, and state public record laws.
n Exact sites are released only to land owner, land management agency, or with permission of owner.

n Third party requests must be sent to HDMS.

Questions???

