

**Scientific Name:** *Gila nigra*  
**Common Name:** Headwater chub  
**BISON No.:** 000000

**Legal Status:**

- |                                       |                              |                              |
|---------------------------------------|------------------------------|------------------------------|
| ➤ Arizona, Species of Special Concern | ➤ ESA, Proposed Threatened   | ➤ New Mexico-WCA, Threatened |
| ➤ ESA, Endangered                     | ➤ ESA, Threatened            | ➤ USFS-Region 3, Sensitive   |
| ➤ ESA, Proposed Endangered            | ➤ New Mexico-WCA, Endangered | ➤ None                       |

**Distribution:**

- |   |                           |
|---|---------------------------|
| ➤ Endemic to Arizona                      | ➤ Southern Limit of Range |
| ➤ Endemic to Arizona and New Mexico       | ➤ Western Limit of Range  |
| ➤ Endemic to New Mexico                   | ➤ Eastern Limit of Range  |
| ➤ Not Restricted to Arizona or New Mexico | ➤ Very Local              |
| ➤ Northern Limit of Range                 |                           |

**Major River Drainages:**

- |                        |                             |
|------------------------|-----------------------------|
| ➤ Dry Cimmaron River   | ➤ Rio Yaqui Basin           |
| ➤ Canadian River       | ➤ Wilcox Playa              |
| ➤ Southern High Plains | ➤ Rio Magdalena Basin       |
| ➤ Pecos River          | ➤ Rio Sonoita Basin         |
| ➤ Estancia Basin       | ➤ Little Colorado River     |
| ➤ Tularosa Basin       | ➤ Mainstream Colorado River |
| ➤ Salt Basin           | ➤ Virgin River Basin        |
| ➤ Rio Grande           | ➤ Hualapai Lake             |
| ➤ Rio Mimbres          | ➤ Bill Williams Basin       |
| ➤ Zuni River           |                             |
| ➤ Gila River           |                             |

**Status/Trends/Threats (narrative):**

No Info.

**Distribution (narrative):**

No Info.

**Key Distribution/Abundance/Management Areas:**

Panel key distribution/abundance/management areas:

**Breeding (narrative):**

No Info.

**Habitat (narrative):**

No Info.

**Seasonal Activity (narrative):**

No Info.

**Breeding Season:**

- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

**Panel breeding season comments:**

**Aquatic Habitats:**

**Large Scale:**

- Rivers
- Streams
- Springs
- Spring runs
- Lakes
- Ponds
- Sinkholes
- Cienegas
- Unknown
- Variable

**Small Scale:**

- Runs
- Riffles
- Pools
- Open Water
- Shorelines

**Panel comments on aquatic habitats:**

### Important Habitat Features (Water characteristics):

#### Current

- Fast (> 75 cm/sec)
- Intermediate (10-75 cm/sec)
- Slow (< 10 cm/sec)
- None
- Unknown
- Variable

#### Gradient

- High gradient (>1%)
- Intermediate Gradient (0.25-1%)
- Low Gradient (<0.25%)
- None
- Unknown
- Variable

#### Water Depth

- Very Deep (> 1 m)
- Deep (0.25-1 m)
- Intermediate (0.1-0.25 m)
- Shallow (< 0.1 m)
- Unknown
- Variable

**Panel comments on water characteristics:**

### Important Habitat Features (Water Chemistry)

#### Temperature (general)

- Cold Water (4-15°C)
- Cool Water (10-21°C)
- Warm Water (15-27°C)
- Unknown
- Variable

#### Turbidity

- High
- Intermediate
- Low
- Unknown
- Variable

#### Conductivity

- Very High (> 2000  $\mu\text{S}/\text{cm}$ )
- High (750-2000  $\mu\text{S}/\text{cm}$ )
- Intermediate (250-750  $\mu\text{S}/\text{cm}$ )
- Low (< 250  $\mu\text{S}/\text{cm}$ )
- Unknown
- Variable

**Panel comments on water chemistry:**

### Important Habitat Features (Structural elements):

#### Substrate

- Bedrock
- Silt/Clay
- Detritus
- Sand
- Gravel
- Cobble
- Boulders
- Unknown
- Variable

#### Cover

- Rocks, boulders
- Undercut banks
- Woody debris
- Aquatic vegetation
- Rootwads
- Not important
- Overhanging vegetation
- Unknown
- Variable

**Panel comments on structural elements:**

**Diet (narrative):**

No Info.

**Diet category (list):**

- Planktivore
- Herbivore
- Insectivore
- Piscivore (Fish)
- Omnivore
- Detritivore

**Grazing Effects (narrative):**

No Info.

**Panel limiting habitat component relative to grazing and comments:**

**Panel assessment:** Is this species a priority for selecting a grazing strategy?

Throughout the species' distribution in New Mexico and Arizona

YES NO UNKNOWN

In key management area(s)

YES NO UNKNOWN

**Principle Mechanisms Through Which Grazing Impacts This Species (list):**

*\*\*May be Revised\*\**

- |  |                                     |                                     |
|--|-------------------------------------|-------------------------------------|
| ➤ Alteration of bank structures          | ➤ Altered bank vegetation structure | ➤ Increased turbidity               |
| ➤ Alteration of substrate                | ➤ Change in food availability       | ➤ Other biotic factors              |
| ➤ Alteration of water regimes            | ➤ Change in water temperature       | ➤ Parasites or pathogens            |
| ➤ Altered stream channel characteristics | ➤ Change in water quality           | ➤ Population genetic structure loss |
| ➤ Altered aquatic vegetation composition | ➤ Habitat fragmentation             | ➤ Range improvements                |
|  |                                     | ➤ Trampling, scratching             |
|  |                                     | ➤ Unknown                           |

**Panel causal mechanisms comments:**

## **Authors**

- **Draft:** Magaña, H.A.
- **GP 2001:**
- **GP 2002:**
- **Revision:**

## **Bibliography:**