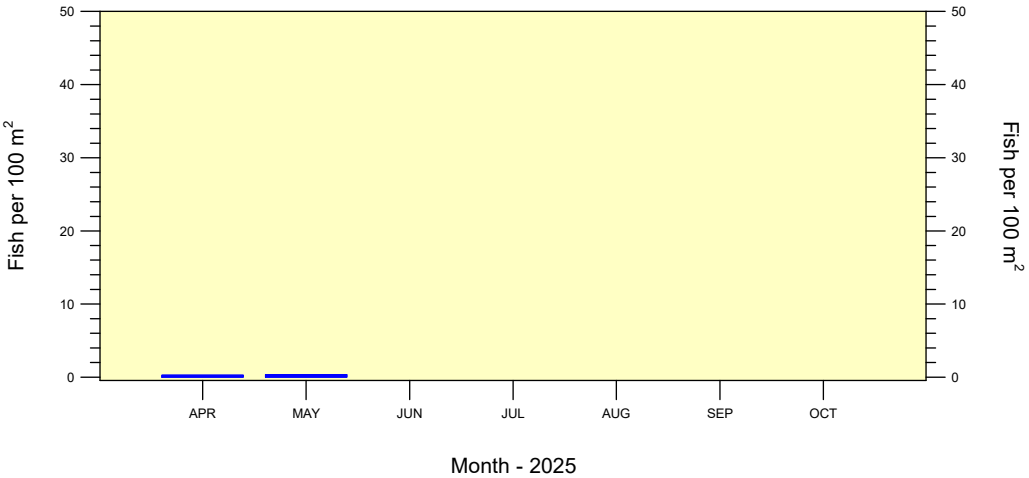
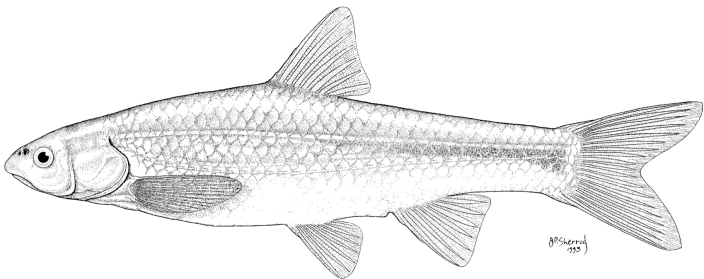


**RIO GRANDE SILVERY MINNOW POPULATION MONITORING DURING MAY 2025**

**A U.S. BUREAU OF RECLAMATION FUNDED  
RESEARCH PROGRAM**



18 June 2025

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**Contract 140R4025C0013:**

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U.S. Bureau of Reclamation  
Albuquerque Area Office  
555 Broadway NE, Suite 100  
Albuquerque, NM 87102

Submitted to:

U.S. Bureau of Reclamation  
Albuquerque Area Office  
555 Broadway NE, Suite 100  
Albuquerque, NM 87102

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18 June 2025

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## SUMMARY OF MAY 2025 POPULATION MONITORING

The May 2025 population monitoring efforts were conducted at the 20 standard sites. Five sites were in the Angostura Reach, six sites were in the Isleta Reach, and nine sites were in the San Acacia Reach. For the 2025 monthly trends, data were based on all sites (i.e., standard, additional, and replacement sites) to maintain consistency across all monthly reports. A list of all collection localities is appended (Appendix A). Adult and juvenile fish were obtained by rapidly drawing a 3.0 m x 1.8 m small-mesh (ca. 5 mm) seine through discrete mesohabitats. Larval fish were collected with a 1.2 m x 1.2 m fine-mesh (ca. 1 mm) seine. All fishes were identified to species and enumerated. We used length-age relationships to assign ages (i.e., age-0, age-1, and age-2+) to all Rio Grande Silvery Minnow collected. Age-0 individuals are only present, however, after seasonal spawning events that typically first occur during spring runoff. Figures illustrating fish densities (i.e., fish per 100 m<sup>2</sup>) were prepared for the ten focal species to facilitate comparisons across reaches.

### **Standard Sites (n = 20)**

During May, sampling covered 8,148.5 m<sup>2</sup> (surface area) of water and yielded 814 fish. There were no dry sampling sites. Cumulative fish density during May was 9.99 individuals per 100 m<sup>2</sup> sampled. The three most common species were Red Shiner (n = 368), White Sucker (n = 248), and Flathead Chub (n = 73). The sampling sites yielded a total of 15 fish species.

Rio Grande Silvery Minnow was present in 11 of the 137 seine hauls that yielded fish and at 6 of the 20 sampling sites. Densities of unmarked and marked individuals were 0.32 (n = 26) and 0.05 (n = 4) individuals per 100 m<sup>2</sup> sampled, respectively. Densities of age-0, age-1, and age-2+ individuals were 0.00 (n = 0), 0.13 (n = 11), and 0.23 (n = 19) individuals per 100 m<sup>2</sup> sampled, respectively. Based on all May surveys since 1993, its overall density averaged 5.29 (range = 0.05–86.28) individuals per 100 m<sup>2</sup> sampled. During May 2025, its overall density was 0.37 (n = 30) individuals per 100 m<sup>2</sup> sampled.

### **Angostura Reach**

From 16 April to 15 May, provisional U.S. Geological Survey (USGS) mean daily discharge in the Angostura Reach (Albuquerque: USGS Gage-08330000) averaged 495 ft<sup>3</sup>/s and ranged from 352 to 1,010 ft<sup>3</sup>/s. Water temperatures ranged from 13.7 to 22.3 °C during the Angostura Reach sampling efforts (ca. 0830–1500 h). Secchi disk measurements of water clarity ranged from 22 to 44 cm.

Sampling for fishes in the Angostura Reach during May yielded 303 individuals with a cumulative fish density of 12.2 individuals per 100 m<sup>2</sup> sampled. The overall sampling effort in the Angostura Reach covered 2,475.4 m<sup>2</sup> (surface area) of water. Densities of all fish species combined ranged from 1.1 to 51.3 individuals per 100 m<sup>2</sup> at the different sampling sites. In May, there were 8 fish species collected in the Angostura Reach. White Sucker was the most abundant taxon (n = 244), followed by Flathead Chub (n = 16), and Longnose Dace (n = 15). We collected Rio Grande Silvery Minnow (n = 0) in 0 of the 38 seine hauls that yielded fish, and its overall density was 0.00 (range = 0.00–0.00) individuals per 100 m<sup>2</sup>.

### **Isleta Reach**

Provisional mean daily discharge in the Isleta Reach (Bosque Farms: USGS Gage-08331160), from 16 April to 15 May, averaged 213 ft<sup>3</sup>/s and ranged from 91 to 611 ft<sup>3</sup>/s. During the Isleta Reach sampling efforts (ca. 0900–1530 h), water temperatures ranged from 14.3 to 22.4 °C. Secchi disk measurements ranged from 10 to 30 cm during sampling.

Isleta Reach population monitoring efforts produced 217 individuals in May with a cumulative fish density of 7.7 individuals per 100 m<sup>2</sup> sampled. The total sampling effort in the Isleta Reach during May covered 2,826.1 m<sup>2</sup> (surface area) of water. Fish densities (all species combined) at the sampling sites ranged from 0.6 to 15.7 individuals per 100 m<sup>2</sup> sampled. There were 9 fish species collected in the Isleta Reach during May. Red Shiner was the most abundant taxon (n = 165), followed by Common Carp (n = 14), and Flathead Chub (n = 11). We collected Rio Grande Silvery Minnow (n = 2) in 1 of the 43 seine hauls that yielded fish, and its overall density was 0.07 (range = 0.00–0.40) individuals per 100 m<sup>2</sup>.

### **San Acacia Reach**

From 16 April to 15 May, provisional mean daily discharge at San Acacia (USGS Gage-08354900) was generally higher (average = 111; range = 49–457 ft<sup>3</sup>/s) than at San Marcial (USGS Gage-08358400) during the same period (average = 0; range = 0–0 ft<sup>3</sup>/s). Water temperatures in May for the San Acacia Reach ranged from 10.6 to 24.3 °C (ca. 0930–1600 h). Secchi disk measurements ranged from 16 to 64 cm during sampling.

Population monitoring efforts in the San Acacia Reach during May yielded 294 individuals with a cumulative fish density of 10.3 individuals per 100 m<sup>2</sup> sampled. Sampling in the San Acacia Reach covered an area of 2,847.1 m<sup>2</sup> of water. Fish densities (all species combined) ranged from 2.0 to 157.9 individuals per 100 m<sup>2</sup> at sites sampled in the San Acacia Reach. In May, there were 10 fish species collected in the San Acacia Reach. Red Shiner was the most abundant taxon (n = 189), followed by Flathead Chub (n = 46), and Rio Grande Silvery Minnow (n = 28). We collected Rio Grande Silvery Minnow (n = 28) in 10 of the 56 seine hauls that yielded fish, and its overall density was 0.98 (range = 0.00–30.16) individuals per 100 m<sup>2</sup>.

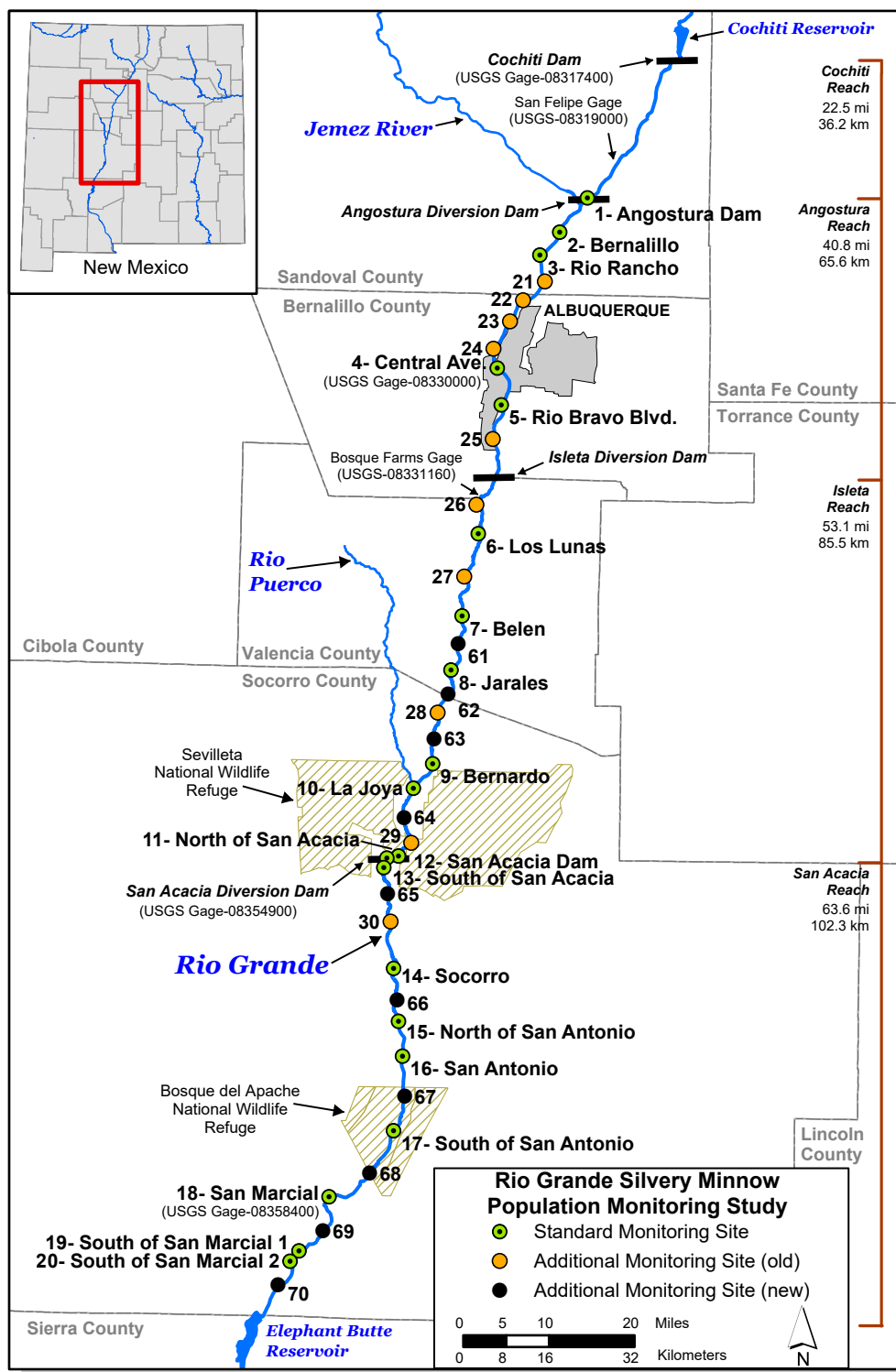


Figure 1. Map of the study area, standard sites, and additional sites (old and new) for the Rio Grande Silvery Minnow population monitoring study. Sampling site descriptions are provided in Appendix A.

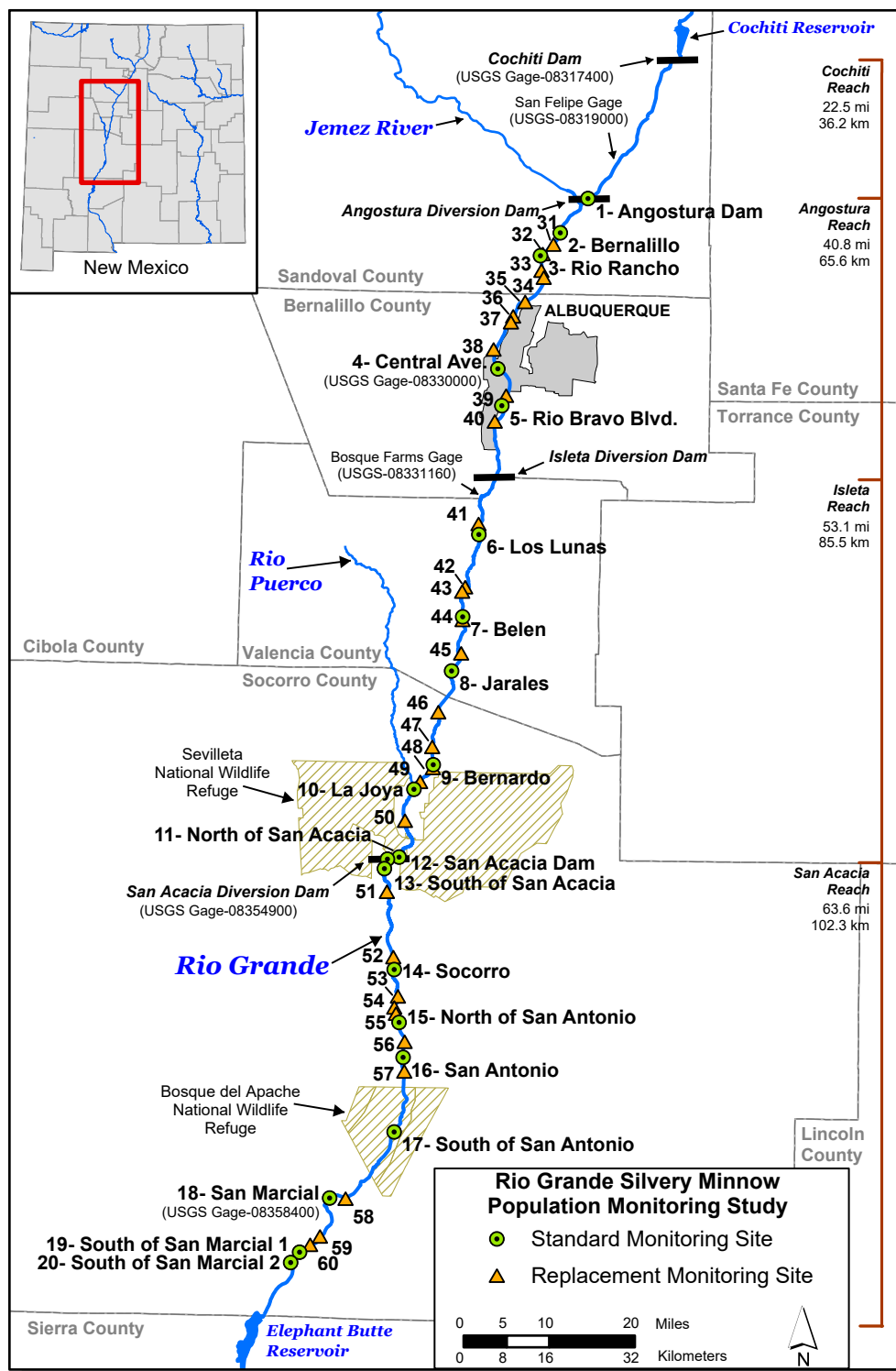


Figure 2. Map of the study area, standard sites, and replacement sites for the Rio Grande Silvery Minnow population monitoring study. Sampling site descriptions are provided in Appendix A.

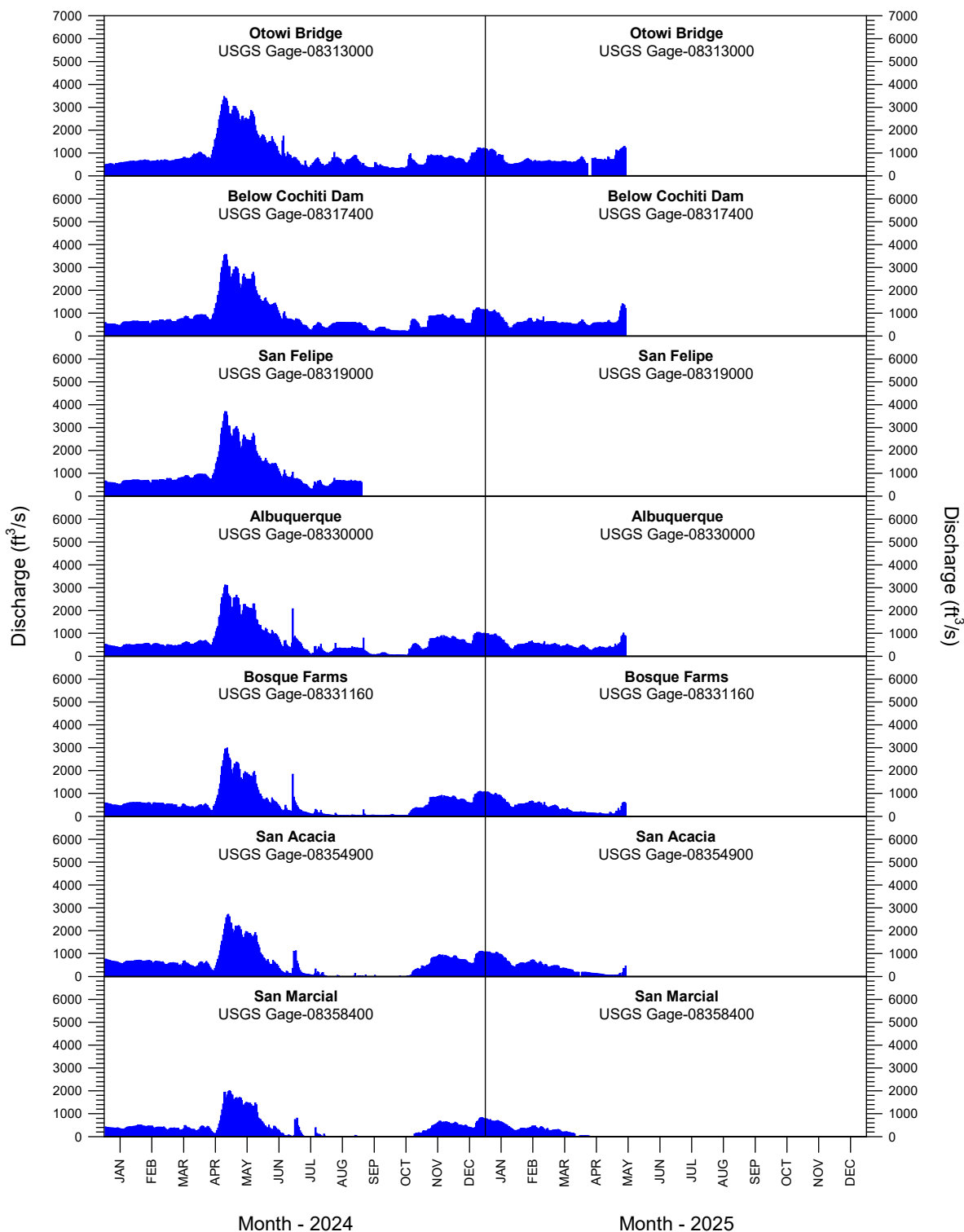


Figure 3. Rio Grande mean-daily discharge, by USGS gaging station, from 1 January 2024 to 15 May 2025. All discharge data are provisional and subject to change.

Table 1. Scientific names, common names, and species codes of fishes collected in the Middle Rio Grande since 1993.

| Scientific Name                            | Common Name                            | Species Code |
|--------------------------------------------|----------------------------------------|--------------|
| <b>Order Clupeiformes</b>                  |                                        |              |
| <b>Family Dorosomatidae</b>                |                                        |              |
|                                            | <b>thread herrings</b>                 |              |
| <i>Dorosoma cepedianum</i> .....           | Gizzard Shad                           | (DORCEP)     |
| <i>Dorosoma petenense</i> .....            | Threadfin Shad                         | (DORPET)     |
| <b>Order Cypriniformes</b>                 |                                        |              |
| <b>Family Catostomidae</b>                 |                                        |              |
|                                            | <b>suckers</b>                         |              |
| <i>Carpionodes carpio</i> .....            | River Carpsucker <sup>1</sup>          | (CARCAR)     |
| <i>Catostomus commersonii</i> .....        | White Sucker <sup>1</sup>              | (CATCOM)     |
| <i>Ictiobus bubalus</i> .....              | Smallmouth Buffalo                     | (ICTBUB)     |
| <b>Family Cyprinidae</b>                   |                                        |              |
|                                            | <b>carps</b>                           |              |
| <i>Carassius auratus</i> .....             | Goldfish                               | (CARAUR)     |
| <i>Cyprinus carpio</i> .....               | Common Carp <sup>1</sup>               | (CYPCAR)     |
| <b>Family Leuciscidae</b>                  |                                        |              |
|                                            | <b>minnows</b>                         |              |
| <i>Campostoma anomalum</i> .....           | Central Stoneroller                    | (CAMANO)     |
| <i>Cyprinella lutrensis</i> .....          | Red Shiner <sup>1</sup>                | (CYPLUT)     |
| <i>Gila pandora</i> .....                  | Rio Grande Chub                        | (GILPAN)     |
| <i>Hybognathus amarus</i> .....            | Rio Grande Silvery Minnow <sup>1</sup> | (HYBAMA)     |
| <i>Notemigonus crysoleucas</i> .....       | Golden Shiner                          | (NOTCRY)     |
| <i>Pimephales promelas</i> .....           | Fathead Minnow <sup>1</sup>            | (PIMPRO)     |
| <i>Pimephales vigilax</i> .....            | Bullhead Minnow                        | (PIMVIG)     |
| <i>Platygobio gracilis</i> .....           | Flathead Chub <sup>1</sup>             | (PLAGRA)     |
| <i>Rhinichthys cataractae</i> .....        | Longnose Dace <sup>1</sup>             | (RHICAT)     |
| <b>Order Siluriformes</b>                  |                                        |              |
| <b>Family Ictaluridae</b>                  |                                        |              |
|                                            | <b>North American catfishes</b>        |              |
| <i>Ameiurus melas</i> .....                | Black Bullhead                         | (AMEMEL)     |
| <i>Ameiurus natalis</i> .....              | Yellow Bullhead                        | (AMENAT)     |
| <i>Ictalurus furcatus</i> .....            | Blue Catfish                           | (ICTFUR)     |
| <i>Ictalurus punctatus</i> .....           | Channel Catfish <sup>1</sup>           | (ICTPUN)     |
| <i>Pylodictis olivaris</i> .....           | Flathead Catfish                       | (PYLOLI)     |
| <b>Family Loricariidae</b>                 |                                        |              |
|                                            | <b>suckermouth armored catfishes</b>   |              |
| <i>Pterygoplichthys disjunctivus</i> ..... | Vermiculated Sailfin Catfish           | (PTEDIS)     |

Table 1. Scientific names, common names, and species codes of fishes collected in the Middle Rio Grande since 1993 (continued).

| Scientific Name                     | Common Name                       | Species Code |
|-------------------------------------|-----------------------------------|--------------|
| <b>Order Esociformes</b>            |                                   |              |
| <b>Family Esocidae</b>              | <b>piques and mudminnows</b>      |              |
| <i>Esox lucius</i> .....            | Northern Pike                     | (ESOLUC)     |
| <b>Order Salmoniformes</b>          |                                   |              |
| <b>Family Salmonidae</b>            | <b>trouts and salmons</b>         |              |
| <i>Oncorhynchus mykiss</i> .....    | Rainbow Trout                     | (ONCMYK)     |
| <i>Salmo trutta</i> .....           | Brown Trout                       | (SALTRU)     |
| <b>Order Cyprinodontiformes</b>     |                                   |              |
| <b>Family Poeciliidae</b>           | <b>livebearers</b>                |              |
| <i>Gambusia affinis</i> .....       | Western Mosquitofish <sup>1</sup> | (GAMAFF)     |
| <b>Order Centrarchiformes</b>       |                                   |              |
| <b>Family Centrarchidae</b>         | <b>sunfishes</b>                  |              |
| <i>Lepomis cyanellus</i> .....      | Green Sunfish                     | (LEPCYA)     |
| <i>Lepomis macrochirus</i> .....    | Bluegill                          | (LEPMAC)     |
| <i>Lepomis megalotis</i> .....      | Longear Sunfish                   | (LEPMEG)     |
| <i>Micropterus dolomieu</i> .....   | Smallmouth Bass                   | (MICDOL)     |
| <i>Micropterus salmoides</i> .....  | Florida Bass                      | (MICSAL)     |
| <i>Pomoxis annularis</i> .....      | White Crappie                     | (POMANN)     |
| <i>Pomoxis nigromaculatus</i> ..... | Black Crappie                     | (POMNIG)     |
| <b>Order Perciformes</b>            |                                   |              |
| <b>Family Moronidae</b>             | <b>temperate basses</b>           |              |
| <i>Morone chrysops</i> .....        | White Bass                        | (MORCHR)     |
| <i>Morone saxatilis</i> .....       | Striped Bass                      | (MORSAX)     |
| <b>Family Percidae</b>              | <b>perches and darters</b>        |              |
| <i>Perca flavescens</i> .....       | Yellow Perch                      | (PERFLA)     |
| <i>Percina macrolepida</i> .....    | Bigscale Logperch                 | (PERMAC)     |
| <i>Sander vitreus</i> .....         | Walleye                           | (SANVIT)     |
| <b>Family Sciaenidae</b>            | <b>drums and croakers</b>         |              |
| <i>Aplodinotus grunniens</i> .....  | Freshwater Drum                   | (APLGRU)     |

<sup>1</sup> = Focal taxa were typically the 10 most abundant species collected during October.

Table 2. Rio Grande Silvery Minnow abundance, by reach, site, and mesohabitat, during May 2025. Marked and unmarked individuals were included. Blank cells indicate site-specific mesohabitats that were unavailable for sampling.

| Reach                    | Site | Locality               | BW       | PO        | RU       | SHPO     | SHRU     | Total     |
|--------------------------|------|------------------------|----------|-----------|----------|----------|----------|-----------|
| Angostura                | 1    | Angostura Dam          | 0        | 0         | 0        | 0        | 0        | 0         |
| Angostura                | 2    | Bernalillo             |          | 0         | 0        | 0        | 0        | 0         |
| Angostura                | 3    | Rio Rancho             |          |           | 0        | 0        | 0        | 0         |
| Angostura                | 4    | Central Ave.           | 0        |           | 0        | 0        | 0        | 0         |
| Angostura                | 5    | Rio Bravo Blvd.        | 0        | 0         | 0        | 0        | 0        | 0         |
| <i>Angostura Totals</i>  |      |                        | 0        | 0         | 0        | 0        | 0        | 0         |
| Isleta                   | 6    | Los Lunas              | 0        |           | 0        | 0        | 0        | 0         |
| Isleta                   | 7    | Belen                  | 0        |           | 0        | 0        | 0        | 0         |
| Isleta                   | 8    | Jarales                | 0        | 0         | 0        | 0        | 0        | 0         |
| Isleta                   | 9    | Bernardo               | 0        |           | 0        | 0        | 2        | 2         |
| Isleta                   | 10   | La Joya                | 0        | 0         | 0        | 0        | 0        | 0         |
| Isleta                   | 11   | North of San Acacia    |          |           | 0        | 0        |          | 0         |
| <i>Isleta Totals</i>     |      |                        | 0        | 0         | 0        | 0        | 2        | 2         |
| San Acacia               | 12   | San Acacia Dam         |          | 0         | 0        | 0        | 0        | 0         |
| San Acacia               | 13   | South of San Acacia    | 1        | 1         | 0        | 2        | 2        | 6         |
| San Acacia               | 14   | Socorro                | 0        | 0         | 0        | 0        | 1        | 1         |
| San Acacia               | 15   | North of San Antonio   |          | 1         | 0        | 0        | 0        | 1         |
| San Acacia               | 16   | San Antonio            |          | 0         |          |          |          | 0         |
| San Acacia               | 17   | South of San Antonio   |          | 16        |          |          |          | 16        |
| San Acacia               | 18   | San Marcial            |          | 4         |          |          |          | 4         |
| San Acacia               | 19   | South of San Marcial 1 | 0        |           | 0        | 0        | 0        | 0         |
| San Acacia               | 20   | South of San Marcial 2 |          |           | 0        | 0        | 0        | 0         |
| <i>San Acacia Totals</i> |      |                        | 1        | 22        | 0        | 2        | 3        | 28        |
| <b>Monthly Totals</b>    |      |                        | <b>1</b> | <b>22</b> | <b>0</b> | <b>2</b> | <b>5</b> | <b>30</b> |

Table 3. Rio Grande Silvery Minnow abundance, by reach, site, and month, during 2025. Marked individuals are shown in parentheses, as a subset of the site-specific total. Blank cells indicate months when a site was not visited or will not be visited.

| Reach                    | Site | Locality               | Apr       | May       | Jun      | Jul      | Aug      | Sep      | Oct      | Total     |
|--------------------------|------|------------------------|-----------|-----------|----------|----------|----------|----------|----------|-----------|
| Angostura                | 1    | Angostura Dam          | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| Angostura                | 2    | Bernalillo             | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| Angostura                | 3    | Rio Rancho             | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| Angostura                | 21   | Site 21                | 1(0)      |           |          |          |          |          | 0        | 1         |
| Angostura                | 22   | Site 22                | 0         |           |          |          |          |          | 0        | 0         |
| Angostura                | 23   | Site 23                | 0         |           |          |          |          |          | 0        | 0         |
| Angostura                | 24   | Site 24                | 0         |           |          |          |          |          | 0        | 0         |
| Angostura                | 4    | Central Ave.           | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| Angostura                | 5    | Rio Bravo Blvd.        | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| Angostura                | 25   | Site 25                | 1(1)      |           |          |          |          |          | 0        | 1         |
| <i>Angostura Totals</i>  |      |                        | 2         | 0         | 0        | 0        | 0        | 0        | 0        | 2         |
| Isleta                   | 26   | Site 26                | 1(1)      |           |          |          |          |          | 0        | 1         |
| Isleta                   | 6    | Los Lunas              | 1(1)      | 0         | 0        | 0        | 0        | 0        | 0        | 1         |
| Isleta                   | 27   | Site 27                | 0         |           |          |          |          |          | 0        | 0         |
| Isleta                   | 7    | Belen                  | 2(0)      | 0         | 0        | 0        | 0        | 0        | 0        | 2         |
| Isleta                   | 61   | Site 61                | 1(0)      |           |          |          |          |          | 0        | 1         |
| Isleta                   | 8    | Jarales                | 1(0)      | 0         | 0        | 0        | 0        | 0        | 0        | 1         |
| Isleta                   | 62   | Site 62                | 0         |           |          |          |          |          | 0        | 0         |
| Isleta                   | 28   | Site 28                | 1(1)      |           |          |          |          |          | 0        | 1         |
| Isleta                   | 63   | Site 63                | 0         |           |          |          |          |          | 0        | 0         |
| Isleta                   | 9    | Bernardo               | 0         | 2(2)      | 0        | 0        | 0        | 0        | 0        | 2         |
| Isleta                   | 10   | La Joya                | 1(0)      | 0         | 0        | 0        | 0        | 0        | 0        | 1         |
| Isleta                   | 64   | Site 64                | 0         |           |          |          |          |          | 0        | 0         |
| Isleta                   | 29   | Site 29                | 0         |           |          |          |          |          | 0        | 0         |
| Isleta                   | 11   | North of San Acacia    | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| <i>Isleta Totals</i>     |      |                        | 8         | 2         | 0        | 0        | 0        | 0        | 0        | 10        |
| San Acacia               | 12   | San Acacia Dam         | 3(0)      | 0         | 0        | 0        | 0        | 0        | 0        | 3         |
| San Acacia               | 13   | South of San Acacia    | 6(0)      | 6(2)      | 0        | 0        | 0        | 0        | 0        | 12        |
| San Acacia               | 65   | Site 65                | 5(3)      |           |          |          |          |          | 0        | 5         |
| San Acacia               | 30   | Site 30                | 1(0)      |           |          |          |          |          | 0        | 1         |
| San Acacia               | 14   | Socorro                | 6(3)      | 1(0)      | 0        | 0        | 0        | 0        | 0        | 7         |
| San Acacia               | 66   | Site 66                | 3(0)      |           |          |          |          |          | 0        | 3         |
| San Acacia               | 15   | North of San Antonio   | 3(0)      | 1(0)      | 0        | 0        | 0        | 0        | 0        | 4         |
| San Acacia               | 16   | San Antonio            | 3(0)      | 0         | 0        | 0        | 0        | 0        | 0        | 3         |
| San Acacia               | 67   | Site 67                | 0         |           |          |          |          |          | 0        | 0         |
| San Acacia               | 17   | South of San Antonio   | 1(0)      | 16(0)     | 0        | 0        | 0        | 0        | 0        | 17        |
| San Acacia               | 68   | Site 68                | 0         |           |          |          |          |          | 0        | 0         |
| San Acacia               | 18   | San Marcial            | 0         | 4(0)      | 0        | 0        | 0        | 0        | 0        | 4         |
| San Acacia               | 69   | Site 69                | 0         |           |          |          |          |          | 0        | 0         |
| San Acacia               | 19   | South of San Marcial 1 | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| San Acacia               | 20   | South of San Marcial 2 | 0         | 0         | 0        | 0        | 0        | 0        | 0        | 0         |
| San Acacia               | 70   | Site 70                | 2(0)      |           |          |          |          |          | 0        | 2         |
| <i>San Acacia Totals</i> |      |                        | 33        | 28        | 0        | 0        | 0        | 0        | 0        | 61        |
| <b>Monthly Totals</b>    |      |                        | <b>43</b> | <b>30</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>73</b> |

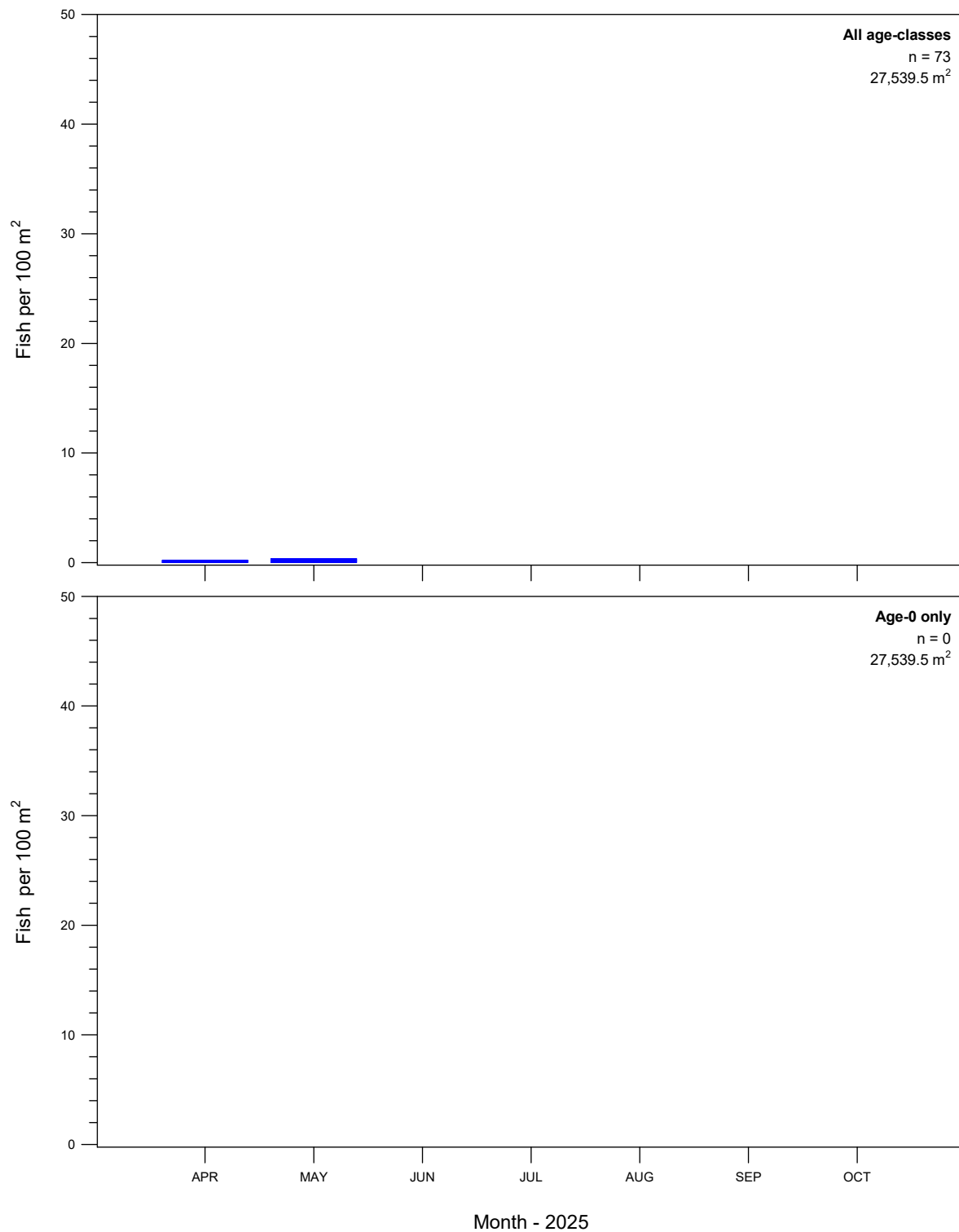


Figure 4. Rio Grande Silvery Minnow densities based on all sites, by age-class and month, during 2025. Marked and unmarked individuals were included.

Table 4. Ichthyofaunal summary based on all sites, by species, during May 2025. Marked and unmarked Rio Grande Silvery Minnow were included. Dashes (-) indicate species that were absent during sampling.

| Family               | Common Name                  | Residence Status <sup>1</sup> | Total Number of Individuals | Percent (%) of Total | Frequency of Occurrence <sup>2</sup> | % Frequency of Occurrence <sup>2</sup> |
|----------------------|------------------------------|-------------------------------|-----------------------------|----------------------|--------------------------------------|----------------------------------------|
| Dorosomatidae        | Gizzard Shad                 | N                             | 1                           | 0.12                 | 1                                    | 5.00                                   |
| Dorosomatidae        | Threadfin Shad               | I                             | -                           | -                    | -                                    | -                                      |
| Catostomidae         | River Carpsucker             | N                             | 3                           | 0.37                 | 2                                    | 10.00                                  |
| Catostomidae         | White Sucker                 | I                             | 248                         | 30.47                | 7                                    | 35.00                                  |
| Catostomidae         | Smallmouth Buffalo           | N                             | 2                           | 0.25                 | 1                                    | 5.00                                   |
| Cyprinidae           | Goldfish                     | I                             | -                           | -                    | -                                    | -                                      |
| Cyprinidae           | Common Carp                  | I                             | 20                          | 2.46                 | 6                                    | 30.00                                  |
| Leuciscidae          | Central Stoneroller          | I                             | -                           | -                    | -                                    | -                                      |
| Leuciscidae          | Red Shiner                   | N                             | 368                         | 45.21                | 18                                   | 90.00                                  |
| Leuciscidae          | Rio Grande Chub              | N                             | -                           | -                    | -                                    | -                                      |
| Leuciscidae          | Rio Grande Silvery Minnow    | N                             | 30                          | 3.69                 | 6                                    | 30.00                                  |
| Leuciscidae          | Golden Shiner                | I                             | -                           | -                    | -                                    | -                                      |
| Leuciscidae          | Fathead Minnow               | N                             | -                           | -                    | -                                    | -                                      |
| Leuciscidae          | Bullhead Minnow              | I                             | 7                           | 0.86                 | 2                                    | 10.00                                  |
| Leuciscidae          | Flathead Chub                | N                             | 73                          | 8.97                 | 8                                    | 40.00                                  |
| Leuciscidae          | Longnose Dace                | N                             | 15                          | 1.84                 | 3                                    | 15.00                                  |
| Ictaluridae          | Black Bullhead               | I                             | -                           | -                    | -                                    | -                                      |
| Ictaluridae          | Yellow Bullhead              | I                             | 1                           | 0.12                 | 1                                    | 5.00                                   |
| Ictaluridae          | Blue Catfish                 | N                             | -                           | -                    | -                                    | -                                      |
| Ictaluridae          | Channel Catfish              | I                             | 25                          | 3.07                 | 9                                    | 45.00                                  |
| Ictaluridae          | Flathead Catfish             | N                             | -                           | -                    | -                                    | -                                      |
| Loricariidae         | Vermiculated Sailfin Catfish | I                             | -                           | -                    | -                                    | -                                      |
| Esocidae             | Northern Pike                | I                             | -                           | -                    | -                                    | -                                      |
| Salmonidae           | Rainbow Trout                | I                             | 1                           | 0.12                 | 1                                    | 5.00                                   |
| Salmonidae           | Brown Trout                  | I                             | -                           | -                    | -                                    | -                                      |
| Poeciliidae          | Western Mosquitofish         | I                             | 19                          | 2.33                 | 9                                    | 45.00                                  |
| Centrarchidae        | Green Sunfish                | I                             | -                           | -                    | -                                    | -                                      |
| Centrarchidae        | Bluegill                     | N                             | -                           | -                    | -                                    | -                                      |
| Centrarchidae        | Longear Sunfish              | I                             | -                           | -                    | -                                    | -                                      |
| Centrarchidae        | Smallmouth Bass              | I                             | -                           | -                    | -                                    | -                                      |
| Centrarchidae        | Florida Bass                 | I                             | -                           | -                    | -                                    | -                                      |
| Centrarchidae        | White Crappie                | I                             | 1                           | 0.12                 | 1                                    | 5.00                                   |
| Centrarchidae        | Black Crappie                | I                             | -                           | -                    | -                                    | -                                      |
| Moronidae            | White Bass                   | I                             | -                           | -                    | -                                    | -                                      |
| Moronidae            | Striped Bass                 | I                             | -                           | -                    | -                                    | -                                      |
| Percidae             | Yellow Perch                 | I                             | -                           | -                    | -                                    | -                                      |
| Percidae             | Bigscale Logperch            | I                             | -                           | -                    | -                                    | -                                      |
| Percidae             | Walleye                      | I                             | -                           | -                    | -                                    | -                                      |
| Sciaenidae           | Freshwater Drum              | N                             | -                           | -                    | -                                    | -                                      |
| <b>Monthly Total</b> |                              |                               | <b>814</b>                  | <b>100.00</b>        |                                      |                                        |

<sup>1</sup> = Native (N) or introduced (I) species

<sup>2</sup> = Based on all sites

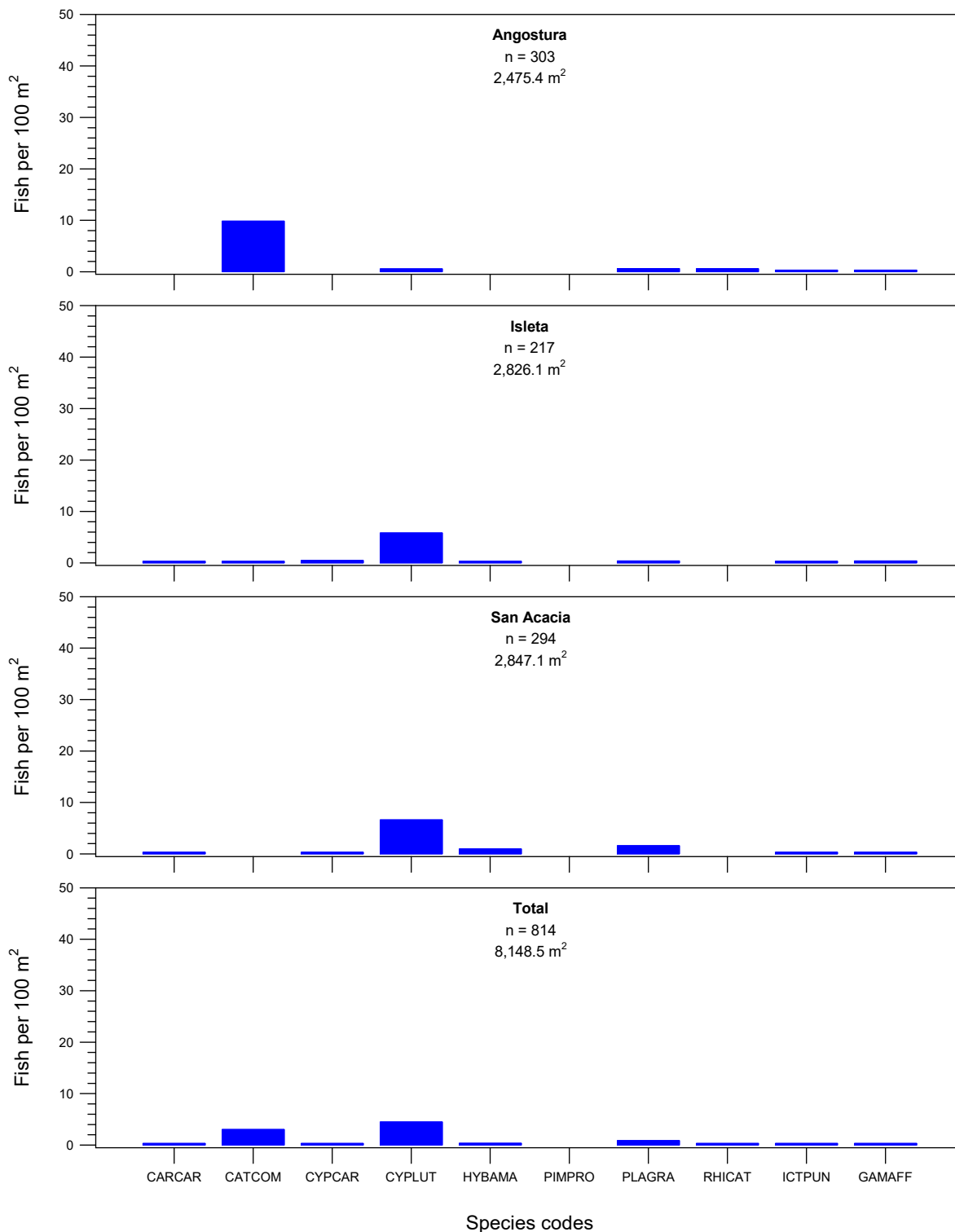


Figure 5. Fish densities based on all sites, by reach and focal taxa, during May 2025. Marked and unmarked Rio Grande Silvery Minnow were included.

Table 5. Ichthyofaunal summary based on all sites, by species and month, during 2025. Marked and unmarked Rio Grande Silvery Minnow were included.

| Family                | Common Name                  | Apr          | May        | Jun      | Jul      | Aug      | Sep      | Oct      | Total        |
|-----------------------|------------------------------|--------------|------------|----------|----------|----------|----------|----------|--------------|
| Dorosomatidae         | Gizzard Shad                 | 0            | 1          | 0        | 0        | 0        | 0        | 0        | 1            |
| Dorosomatidae         | Threadfin Shad               | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Catostomidae          | River Carpsucker             | 4            | 3          | 0        | 0        | 0        | 0        | 0        | 7            |
| Catostomidae          | White Sucker                 | 2            | 248        | 0        | 0        | 0        | 0        | 0        | 250          |
| Catostomidae          | Smallmouth Buffalo           | 0            | 2          | 0        | 0        | 0        | 0        | 0        | 2            |
| Cyprinidae            | Goldfish                     | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Cyprinidae            | Common Carp                  | 8            | 20         | 0        | 0        | 0        | 0        | 0        | 28           |
| Leuciscidae           | Central Stoneroller          | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Leuciscidae           | Red Shiner                   | 1,201        | 368        | 0        | 0        | 0        | 0        | 0        | 1,569        |
| Leuciscidae           | Rio Grande Chub              | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Leuciscidae           | Rio Grande Silvery Minnow    | 43           | 30         | 0        | 0        | 0        | 0        | 0        | 73           |
| Leuciscidae           | Golden Shiner                | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Leuciscidae           | Fathead Minnow               | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Leuciscidae           | Bullhead Minnow              | 31           | 7          | 0        | 0        | 0        | 0        | 0        | 38           |
| Leuciscidae           | Flathead Chub                | 69           | 73         | 0        | 0        | 0        | 0        | 0        | 142          |
| Leuciscidae           | Longnose Dace                | 2            | 15         | 0        | 0        | 0        | 0        | 0        | 17           |
| Ictaluridae           | Black Bullhead               | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Ictaluridae           | Yellow Bullhead              | 1            | 1          | 0        | 0        | 0        | 0        | 0        | 2            |
| Ictaluridae           | Blue Catfish                 | 1            | 0          | 0        | 0        | 0        | 0        | 0        | 1            |
| Ictaluridae           | Channel Catfish              | 50           | 25         | 0        | 0        | 0        | 0        | 0        | 75           |
| Ictaluridae           | Flathead Catfish             | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Loricariidae          | Vermiculated Sailfin Catfish | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Esocidae              | Northern Pike                | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Salmonidae            | Rainbow Trout                | 0            | 1          | 0        | 0        | 0        | 0        | 0        | 1            |
| Salmonidae            | Brown Trout                  | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Poeciliidae           | Western Mosquitofish         | 28           | 19         | 0        | 0        | 0        | 0        | 0        | 47           |
| Centrarchidae         | Green Sunfish                | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Centrarchidae         | Bluegill                     | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Centrarchidae         | Longear Sunfish              | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Centrarchidae         | Smallmouth Bass              | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Centrarchidae         | Florida Bass                 | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Centrarchidae         | White Crappie                | 1            | 1          | 0        | 0        | 0        | 0        | 0        | 2            |
| Centrarchidae         | Black Crappie                | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Moronidae             | White Bass                   | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Moronidae             | Striped Bass                 | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Percidae              | Yellow Perch                 | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Percidae              | Bigscale Logperch            | 1            | 0          | 0        | 0        | 0        | 0        | 0        | 1            |
| Percidae              | Walleye                      | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| Sciaenidae            | Freshwater Drum              | 0            | 0          | 0        | 0        | 0        | 0        | 0        | 0            |
| <b>Monthly Totals</b> |                              | <b>1,442</b> | <b>814</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>2,256</b> |

## **APPENDIX A (Sampling Sites)**

### **Middle Rio Grande Fish Sampling Sites**

Table A1. Sampling reaches and standard sites for population monitoring of Rio Grande Silvery Minnow in the Middle Rio Grande.

| Reach and Site         | Locality                                                                                                                                                                                                |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Angostura Reach</b> |                                                                                                                                                                                                         |
| 1                      | New Mexico, Sandoval County, Rio Grande, just downstream of Angostura Diversion Dam, Algodones.<br>River Mile: 209.9; UTM Easting: 363665; UTM Northing: 3916331; Zone: 13; Datum: NAD83                |
| 2                      | New Mexico, Sandoval County, Rio Grande, at US HWY 550 bridge crossing, Bernalillo.<br>River Mile: 203.9; UTM Easting: 358457; UTM Northing: 3909887; Zone: 13; Datum: NAD83                            |
| 3                      | New Mexico, Sandoval County, Rio Grande, ca. 4.0 mi downstream of US HWY 550 bridge crossing, Rio Rancho.<br>River Mile: 199.9; UTM Easting: 354728; UTM Northing: 3905587; Zone: 13; Datum: NAD83      |
| 4                      | New Mexico, Bernalillo County, Rio Grande, at Central Ave. bridge crossing (US HWY 66), Albuquerque.<br>River Mile: 183.4; UTM Easting: 346719; UTM Northing: 3884331; Zone: 13; Datum: NAD83           |
| 5                      | New Mexico, Bernalillo County, Rio Grande, at Rio Bravo Blvd. bridge crossing (NM State HWY 500), Albuquerque.<br>River Mile: 178.4; UTM Easting: 347468; UTM Northing: 3877400; Zone: 13; Datum: NAD83 |
| <b>Isleta Reach</b>    |                                                                                                                                                                                                         |
| 6                      | New Mexico, Valencia County, Rio Grande, just upstream of NM State HWY 6 bridge crossing, Los Lunas.<br>River Mile: 161.7; UTM Easting: 343149; UTM Northing: 3853187; Zone: 13; Datum: NAD83           |
| 7                      | New Mexico, Valencia County, Rio Grande, ca. 1.0 mi upstream of NM State HWY 309 bridge crossing, Belen.<br>River Mile: 150.8; UTM Easting: 340105; UTM Northing: 3837722; Zone: 13; Datum: NAD83       |
| 8                      | New Mexico, Valencia County, Rio Grande, ca. 2.2 mi upstream of NM State HWY 346 bridge crossing, Jarales.<br>River Mile: 143.2; UTM Easting: 338020; UTM Northing: 3827545; Zone: 13; Datum: NAD83     |
| 9                      | New Mexico, Socorro County, Rio Grande, at US HWY 60 bridge crossing, Bernardo.<br>River Mile: 130.6; UTM Easting: 334578; UTM Northing: 3809921; Zone: 13; Datum: NAD83                                |
| 10                     | New Mexico, Socorro County, Rio Grande, ca. 3.7 mi downstream of US HWY 60 bridge crossing, Bernardo.<br>River Mile: 126.8; UTM Easting: 330946; UTM Northing: 3805307; Zone: 13; Datum: NAD83          |
| 11                     | New Mexico, Socorro County, Rio Grande, ca. 1.2 mi upstream of San Acacia Diversion Dam, San Acacia.<br>River Mile: 117.3; UTM Easting: 328152; UTM Northing: 3792564; Zone: 13; Datum: NAD83           |

Table A1. Sampling reaches and standard sites for population monitoring of Rio Grande Silvery Minnow in the Middle Rio Grande (continued).

| Reach and Site          | Locality                                                                                                                                                                                                             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>San Acacia Reach</b> |                                                                                                                                                                                                                      |
| 12                      | New Mexico, Socorro County, Rio Grande, just downstream of San Acacia Diversion Dam, San Acacia.<br>River Mile: 115.6; UTM Easting: 325960; UTM Northing: 3792182; Zone: 13; Datum: NAD83                            |
| 13                      | New Mexico, Socorro County, Rio Grande, ca. 1.5 mi downstream of San Acacia Diversion Dam, San Acacia.<br>River Mile: 114.1; UTM Easting: 325390; UTM Northing: 3790397; Zone: 13; Datum: NAD83                      |
| 14                      | New Mexico, Socorro County, Rio Grande, ca. 0.5 mi upstream of Socorro Low Flow Conveyance Channel bridge crossing, Socorro.<br>River Mile: 99.6; UTM Easting: 327231; UTM Northing: 3771432; Zone: 13; Datum: NAD83 |
| 15                      | New Mexico, Socorro County, Rio Grande, ca. 4.5 mi upstream of US HWY 380 bridge crossing, San Antonio.<br>River Mile: 92.0; UTM Easting: 328151; UTM Northing: 3761487; Zone: 13; Datum: NAD83                      |
| 16                      | New Mexico, Socorro County, Rio Grande, at US HWY 380 bridge crossing, San Antonio.<br>River Mile: 87.8; UTM Easting: 328907; UTM Northing: 3754926; Zone: 13; Datum: NAD83                                          |
| 17                      | New Mexico, Socorro County, Rio Grande, east of Bosque del Apache NWR headquarters, San Antonio.<br>River Mile: 79.0; UTM Easting: 327219; UTM Northing: 3740906; Zone: 13; Datum: NAD83                             |
| 18                      | New Mexico, Socorro County, Rio Grande, at San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 68.3; UTM Easting: 315091; UTM Northing: 3728487; Zone: 13; Datum: NAD83                                |
| 19                      | New Mexico, Socorro County, Rio Grande, ca. 8.0 mi downstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 60.1; UTM Easting: 309441; UTM Northing: 3718309; Zone: 13; Datum: NAD83          |
| 20                      | New Mexico, Socorro County, Rio Grande, ca. 10.0 mi downstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 58.5; UTM Easting: 307767; UTM Northing: 3716360; Zone: 13; Datum: NAD83         |

Table A2. Sampling reaches and additional sites (old) for population monitoring of Rio Grande Silvery Minnow in the Middle Rio Grande.

| Reach and Site          | Locality                                                                                                                                                                                                                               |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Angostura Reach</b>  |                                                                                                                                                                                                                                        |
| 21                      | New Mexico, Sandoval County, Rio Grande, ca. 4.4 miles upstream of Alameda Blvd. (NM State Hwy. 528) bridge crossing, Corrales.<br>River Mile: 196.6; UTM Easting: 355531; UTM Northing: 3900626; Zone: 13; Datum: NAD83               |
| 22                      | New Mexico, Sandoval County, Rio Grande, ca. 1.1 miles upstream of Alameda Blvd. (NM State Hwy. 528) bridge crossing, Corrales.<br>River Mile: 193.1; UTM Easting: 351562; UTM Northing: 3897190; Zone: 13; Datum: NAD83               |
| 23                      | New Mexico, Bernalillo County, Rio Grande, ca. 1.0 miles downstream of Paseo del Norte Blvd. (NM State Hwy. 423) bridge crossing Albuquerque.<br>River Mile: 190.0; UTM Easting: 349214; UTM Northing: 3893063; Zone: 13; Datum: NAD83 |
| 24                      | New Mexico, Bernalillo County, Rio Grande, ca. 1.1 miles upstream of I-40 bridge crossing, Albuquerque.<br>River Mile: 186.1; UTM Easting: 346011; UTM Northing: 3887973; Zone: 13; Datum: NAD83                                       |
| 25                      | New Mexico, Bernalillo County, Rio Grande, ca. 1.5 miles upstream of I-25 bridge crossing, Isleta.<br>River Mile: 174.0; UTM Easting: 345900; UTM Northing: 3870990; Zone: 13; Datum: NAD83                                            |
| <b>Isleta Reach</b>     |                                                                                                                                                                                                                                        |
| 26                      | New Mexico, Valencia County, Rio Grande, ca. 4.1 miles upstream of NM State Hwy. 6 bridge crossing, Los Lunas.<br>River Mile: 165.2; UTM Easting: 342799; UTM Northing: 3858637; Zone: 13; Datum: NAD83                                |
| 27                      | New Mexico, Valencia County, Rio Grande, ca. 6.2 miles upstream of NM State Hwy. 309 bridge crossing, Belen.<br>River Mile: 156.0; UTM Easting: 340647; UTM Northing: 3845146; Zone: 13; Datum: NAD83                                  |
| 28                      | New Mexico, Socorro County, Rio Grande, ca. 6.3 miles upstream of US Hwy. 60 bridge crossing, Bernardo.<br>River Mile: 137.1; UTM Easting: 335554; UTM Northing: 3819543; Zone: 13; Datum: NAD83                                       |
| 29                      | New Mexico, Socorro County, Rio Grande, ca. 1.5 miles upstream of confluence with the Rio Salado, San Acacia.<br>River Mile: 120.1; UTM Easting: 330498; UTM Northing: 3795053; Zone: 13; Datum: NAD83                                 |
| <b>San Acacia Reach</b> |                                                                                                                                                                                                                                        |
| 30                      | New Mexico, Socorro County, Rio Grande, ca. 2.6 miles upstream of Pueblitos Rd. bridge crossing, Escondida.<br>River Mile: 107.1; UTM Easting: 326303; UTM Northing: 3781123; Zone: 13; Datum: NAD83                                   |

Table A3. Sampling reaches and additional sites (new) for population monitoring of Rio Grande Silvery Minnow in the Middle Rio Grande.

| Reach and Site          | Locality                                                                                                                                                                                                               |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Isleta Reach</b>     |                                                                                                                                                                                                                        |
| 61                      | New Mexico, Valencia County, Rio Grande, ca. 6.2 mi upstream of NM State HWY 346 bridge crossing, Jarales.<br>River Mile: 147.0; UTM Easting: 339379; UTM Northing: 3832429; Zone: 13; Datum: NAD83                    |
| 62                      | New Mexico, Valencia County, Rio Grande, ca. 0.7 mi downstream of NM State HWY 346 bridge crossing, Jarales.<br>River Mile: 140.0; UTM Easting: 337520; UTM Northing: 3822964; Zone: 13; Datum: NAD83                  |
| 63                      | New Mexico, Socorro County, Rio Grande, ca. 3.1 mi upstream of US HWY 60 bridge crossing, Bernardo.<br>River Mile: 133.7; UTM Easting: 334853; UTM Northing: 3814593; Zone: 13; Datum: NAD83                           |
| 64                      | New Mexico, Socorro County, Rio Grande, ca. 4.7 mi upstream of the Rio Salado confluence, San Acacia.<br>River Mile: 123.2; UTM Easting: 329215; UTM Northing: 3799784; Zone: 13; Datum: NAD83                         |
| <b>San Acacia Reach</b> |                                                                                                                                                                                                                        |
| 65                      | New Mexico, Socorro County, Rio Grande, ca. 5.4 mi downstream of San Acacia Diversion Dam, San Acacia.<br>River Mile: 110.3; UTM Easting: 326105; UTM Northing: 3785502; Zone: 13; Datum: NAD83                        |
| 66                      | New Mexico, Socorro County, Rio Grande, ca. 3.8 mi downstream of Socorro Low Flow Conveyance Channel bridge crossing, Socorro.<br>River Mile: 95.1; UTM Easting: 327905; UTM Northing: 3765463; Zone: 13; Datum: NAD83 |
| 67                      | New Mexico, Socorro County, Rio Grande, ca. 4.3 mi downstream of San Antonio bridge crossing, San Antonio.<br>River Mile: 83.3; UTM Easting: 329319; UTM Northing: 3747431; Zone: 13; Datum: NAD83                     |
| 68                      | New Mexico, Socorro County, Rio Grande, ca. 5.3 mi upstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 73.7; UTM Easting: 322751; UTM Northing: 3732864; Zone: 13; Datum: NAD83              |
| 69                      | New Mexico, Socorro County, Rio Grande, ca. 4.4 mi downstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 63.9; UTM Easting: 313940; UTM Northing: 3722027; Zone: 13; Datum: NAD83            |
| 70                      | New Mexico, Socorro County, Rio Grande, ca. 12.9 mi downstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 55.5; UTM Easting: 305502; UTM Northing: 3711951; Zone: 13; Datum: NAD83           |

Table A4. Sampling reaches and active replacement sites for population monitoring of Rio Grande Silvery Minnow in the Middle Rio Grande.

| Reach and Site          | Locality                                                                                                                                                                                                                   |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>San Acacia Reach</b> |                                                                                                                                                                                                                            |
| 51                      | New Mexico, Socorro County, Rio Grande, ca. 5.0 mi downstream of San Acacia Diversion Dam, San Acacia.<br>River Mile: 110.8; UTM Easting: 325855; UTM Northing: 3786216; Zone: 13; Datum: NAD83                            |
| 52                      | New Mexico, Socorro County, Rio Grande, ca. 2.2 mi. downstream of Pueblitos Rd. bridge crossing, Escondida.<br>River Mile: 101.7; UTM Easting: 327091; UTM Northing: 3773950; Zone: 13; Datum: NAD83                       |
| 53                      | New Mexico, Socorro County, Rio Grande, ca. 3.1 mi downstream of the Socorro Low Flow Conveyance Channel bridge crossing, Socorro.<br>River Mile: 96.0; UTM Easting: 327928; UTM Northing: 3766570; Zone: 13; Datum: NAD83 |
| 54                      | New Mexico, Socorro County, Rio Grande, ca. 4.7 mi. downstream of Socorro LFCC bridge crossing, Socorro.<br>River Mile: 94.2; UTM Easting: 327288; UTM Northing: 3764453; Zone: 13; Datum: NAD83                           |
| 56                      | New Mexico, Socorro County, Rio Grande, ca. 2.1 miles upstream of San Antonio bridge crossing, San Antonio.<br>River Mile: 89.3; UTM Easting: 329188; UTM Northing: 3758027; Zone: 13; Datum: NAD83                        |
| 58                      | New Mexico, Socorro County, Rio Grande, ca. 1.8 mi. upstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 70.1; UTM Easting: 318083; UTM Northing: 3728535; Zone: 13; Datum: NAD83                 |
| 59                      | New Mexico, Socorro County, Rio Grande, ca. 5.1 mi. downstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 63.3; UTM Easting: 313269; UTM Northing: 3721434; Zone: 13; Datum: NAD83               |
| 60                      | New Mexico, Socorro County, Rio Grande, ca. 6.4 mi. downstream of San Marcial Railroad bridge crossing, San Marcial.<br>River Mile: 61.8; UTM Easting: 311422; UTM Northing: 3719873; Zone: 13; Datum: NAD83               |

## **APPENDIX B (Site-Specific Population Monitoring Data)**

Site-specific data, collected in May 2025, as part of the  
Rio Grande Silvery Minnow Population Monitoring Program  
(Any blanks in this database output indicate null data)

**\*\* Data are provisional and should be verified by direct inspection of field data \*\***

## Rio Grande Silvery Minnow Population Monitoring May 2025

NEW MEXICO: SANDOVAL County, RIO GRANDE Drainage  
Rio Grande, just downstream of Angostura Diversion Dam, Algodones.  
Site Number: 1 River Mile: 209.9  
UTM Easting: 363665 UTM Northing: 3916331 Zone: 13  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

### RKD25-058

02 May 2025  
USGS Quad: San Felipe Pueblo  
Effort: 442.3 sq. m

| <u>Family</u> | <u>Species</u>                | <u>Total</u> |
|---------------|-------------------------------|--------------|
| 2             | <i>Catostomus commersonii</i> | 216          |
| 4             | <i>Platygobio gracilis</i>    | 4            |
| 4             | <i>Rhinichthys cataractae</i> | 2            |
| 9             | <i>Gambusia affinis</i>       | 5            |

NEW MEXICO: SANDOVAL County, RIO GRANDE Drainage  
Rio Grande, at US HWY 550 bridge crossing, Bernalillo.  
Site Number: 2 River Mile: 203.9  
UTM Easting: 358457 UTM Northing: 3909887 Zone: 13  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

### RKD25-059

02 May 2025  
USGS Quad: Bernalillo  
Effort: 435.8 sq. m

| <u>Family</u> | <u>Species</u>                | <u>Total</u> |
|---------------|-------------------------------|--------------|
| 2             | <i>Catostomus commersonii</i> | 9            |
| 4             | <i>Cyprinella lutrensis</i>   | 3            |
| 4             | <i>Platygobio gracilis</i>    | 5            |
| 4             | <i>Rhinichthys cataractae</i> | 12           |

NEW MEXICO: SANDOVAL County, RIO GRANDE Drainage  
Rio Grande, ca. 4.0 mi downstream of US HWY 550 bridge crossing, Rio Rancho.  
Site Number: 3 River Mile: 199.9  
UTM Easting: 354728 UTM Northing: 3905587 Zone: 13  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

### RKD25-060

02 May 2025  
USGS Quad: Bernalillo  
Effort: 526.1 sq. m

| <u>Family</u> | <u>Species</u>                | <u>Total</u> |
|---------------|-------------------------------|--------------|
| 2             | <i>Catostomus commersonii</i> | 17           |
| 4             | <i>Cyprinella lutrensis</i>   | 1            |
| 4             | <i>Platygobio gracilis</i>    | 1            |
| 4             | <i>Rhinichthys cataractae</i> | 1            |
| 5             | <i>Ameiurus natalis</i>       | 1            |

## Rio Grande Silvery Minnow Population Monitoring May 2025

NEW MEXICO: BERNALILLO County, RIO GRANDE Drainage  
Rio Grande, at Central Ave. bridge crossing (US HWY 66), Albuquerque.  
Site Number: 4 River Mile: 183.4  
UTM Easting: 346719 UTM Northing: 3884331 Zone: 13  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-057**

02 May 2025  
USGS Quad: Albuquerque West  
Effort: 527.7 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Cyprinella lutrensis</i> | 3            |
| 4             | <i>Platygobio gracilis</i>  | 2            |
| 8             | <i>Oncorhynchus mykiss</i>  | 1            |

NEW MEXICO: BERNALILLO County, RIO GRANDE Drainage  
Rio Grande, at Rio Bravo Blvd. bridge crossing (NM State HWY 500), Albuquerque.  
Site Number: 5 River Mile: 178.4  
UTM Easting: 347468 UTM Northing: 3877400 Zone: 13  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-056**

01 May 2025  
USGS Quad: Albuquerque West  
Effort: 543.6 sq. m

| <u>Family</u> | <u>Species</u>                | <u>Total</u> |
|---------------|-------------------------------|--------------|
| 2             | <i>Catostomus commersonii</i> | 2            |
| 4             | <i>Cyprinella lutrensis</i>   | 7            |
| 4             | <i>Platygobio gracilis</i>    | 4            |
| 5             | <i>Ictalurus punctatus</i>    | 7            |

NEW MEXICO: VALENCIA County, RIO GRANDE Drainage  
Rio Grande, just upstream of NM State HWY 6 bridge crossing, Los Lunas.  
Site Number: 6 River Mile: 161.7  
UTM Easting: 343149 UTM Northing: 3853187 Zone: 13  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-055**

01 May 2025  
USGS Quad: Los Lunas  
Effort: 488.6 sq. m

| <u>Family</u> | <u>Species</u>                | <u>Total</u> |
|---------------|-------------------------------|--------------|
| 2             | <i>Catostomus commersonii</i> | 2            |
| 4             | <i>Cyprinella lutrensis</i>   | 21           |
| 4             | <i>Platygobio gracilis</i>    | 11           |
| 5             | <i>Ictalurus punctatus</i>    | 1            |
| 9             | <i>Gambusia affinis</i>       | 3            |

## Rio Grande Silvery Minnow Population Monitoring May 2025

NEW MEXICO: VALENCIA County, RIO GRANDE Drainage

Rio Grande, ca. 1.0 mi upstream of NM State HWY 309 bridge crossing, Belen.

Site Number: 7 River Mile: 150.8

UTM Easting: 340105 UTM Northing: 3837722 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-054**

01 May 2025

USGS Quad: Tome

Effort: 495.8 sq. m

| <u>Family</u> | <u>Species</u>                | <u>Total</u> |
|---------------|-------------------------------|--------------|
| 2             | <i>Carpiodes carpio</i>       | 1            |
| 2             | <i>Catostomus commersonii</i> | 1            |
| 3             | <i>Cyprinus carpio</i>        | 9            |
| 4             | <i>Cyprinella lutrensis</i>   | 12           |
| 5             | <i>Ictalurus punctatus</i>    | 2            |
| 9             | <i>Gambusia affinis</i>       | 4            |

NEW MEXICO: VALENCIA County, RIO GRANDE Drainage

Rio Grande, ca. 2.2 mi upstream of NM State HWY 346 bridge crossing, Jarales.

Site Number: 8 River Mile: 143.2

UTM Easting: 338020 UTM Northing: 3827545 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-053**

01 May 2025

USGS Quad: Veguita

Effort: 496.5 sq. m

| <u>Family</u> | <u>Species</u>                | <u>Total</u> |
|---------------|-------------------------------|--------------|
| 2             | <i>Catostomus commersonii</i> | 1            |
| 3             | <i>Cyprinus carpio</i>        | 4            |
| 4             | <i>Cyprinella lutrensis</i>   | 70           |
| 5             | <i>Ictalurus punctatus</i>    | 1            |
| 9             | <i>Gambusia affinis</i>       | 2            |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, at US HWY 60 bridge crossing, Bernardo.

Site Number: 9 River Mile: 130.6

UTM Easting: 334578 UTM Northing: 3809921 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-052**

01 May 2025

USGS Quad: Abeytas

Effort: 497.7 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Cyprinella lutrensis</i> | 6            |
| 4             | <i>Hybognathus amarus*</i>  | 2            |
| 5             | <i>Ictalurus punctatus</i>  | 3            |
| 9             | <i>Gambusia affinis</i>     | 1            |

**\*Hybognathus amarus (age-classes):**

|        |   |
|--------|---|
| age-0  |   |
| age-1  | 2 |
| age-2+ |   |

## Rio Grande Silvery Minnow Population Monitoring April 2025

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, ca. 3.7 mi downstream of US HWY 60 bridge crossing, Bernardo.

Site Number: 10 River Mile: 126.8

UTM Easting: 330946 UTM Northing: 3805307 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-051**

30 April 2025

USGS Quad: Abeytas

Effort: 484.3 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 3             | <i>Cyprinus carpio</i>      | 1            |
| 4             | <i>Cyprinella lutrensis</i> | 55           |
| 5             | <i>Ictalurus punctatus</i>  | 1            |
| 9             | <i>Gambusia affinis</i>     | 1            |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, ca. 1.2 mi upstream of San Acacia Diversion Dam, San Acacia.

Site Number: 11 River Mile: 117.3

UTM Easting: 328152 UTM Northing: 3792564 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-050**

30 April 2025

USGS Quad: La Joya

Effort: 363.3 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Cyprinella lutrensis</i> | 1            |
| 10            | <i>Pomoxis annularis</i>    | 1            |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, just downstream of San Acacia Diversion Dam, San Acacia.

Site Number: 12 River Mile: 115.6

UTM Easting: 325960 UTM Northing: 3792183 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-049**

30 April 2025

USGS Quad: San Acacia

Effort: 440.4 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 2             | <i>Carpoides carpio</i>     | 2            |
| 3             | <i>Cyprinus carpio</i>      | 3            |
| 4             | <i>Cyprinella lutrensis</i> | 17           |
| 4             | <i>Platygobio gracilis</i>  | 40           |
| 9             | <i>Gambusia affinis</i>     | 1            |

## Rio Grande Silvery Minnow Population Monitoring April 2025

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage  
Rio Grande, ca. 1.5 mi downstream of San Acacia Diversion Dam, San Acacia.  
Site Number: 13 River Mile: 114.1  
UTM Easting: 325390 UTM Northing: 3790397 Zone: 13 USGS Quad: Lemitar  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-048**

30 April 2025  
Effort: 457.0 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Cyprinella lutrensis</i> | 19           |
| 4             | <i>Hybognathus amarus</i> * | 6            |
| 4             | <i>Platygobio gracilis</i>  | 6            |
| 5             | <i>Ictalurus punctatus</i>  | 2            |
| 9             | <i>Gambusia affinis</i>     | 1            |

**\*Hybognathus amarus (age-classes):**

|        |   |
|--------|---|
| age-0  |   |
| age-1  | 3 |
| age-2+ | 3 |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage **RKD25-047**

Rio Grande, ca. 0.5 mi upstream of Socorro Low Flow Conveyance Channel bridge crossing, Socorro.  
Site Number: 14 River Mile: 99.6  
UTM Easting: 327231 UTM Northing: 3771432 Zone: 13 USGS Quad: Loma de las Canas  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D. Effort: 457.4 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 3             | <i>Cyprinus carpio</i>      | 2            |
| 4             | <i>Cyprinella lutrensis</i> | 6            |
| 4             | <i>Hybognathus amarus</i> * | 1            |

**\*Hybognathus amarus (age-classes):**

|        |   |
|--------|---|
| age-0  |   |
| age-1  |   |
| age-2+ | 1 |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage **RKD25-046**  
Rio Grande, ca. 4.5 mi upstream of US HWY 380 bridge crossing, San Antonio.

Site Number: 15 River Mile: 92.0  
UTM Easting: 328151 UTM Northing: 3761487 Zone: 13 USGS Quad: San Antonio  
Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D. Effort: 427.5 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 3             | <i>Cyprinus carpio</i>      | 1            |
| 4             | <i>Cyprinella lutrensis</i> | 56           |
| 4             | <i>Hybognathus amarus</i> * | 1            |

**\*Hybognathus amarus (age-classes):**

|        |   |
|--------|---|
| age-0  |   |
| age-1  |   |
| age-2+ | 1 |

## Rio Grande Silvery Minnow Population Monitoring April 2025

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, at US HWY 380 bridge crossing, San Antonio.

Site Number: 16 River Mile: 87.8

UTM Easting: 328907 UTM Northing: 3754926 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-045**

29 April 2025

USGS Quad: San Antonio

Effort: 1.9 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Cyprinella lutrensis</i> | 3            |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, east of Bosque del Apache NWR headquarters, San Antonio.

Site Number: 17 River Mile: 79.0

UTM Easting: 327219 UTM Northing: 3740906 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-044**

29 April 2025

USGS Quad: San Antonio SE

Effort: 53.1 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Hybognathus amarus</i> * | 16           |

**\*Hybognathus amarus (age-classes):**

|        |    |
|--------|----|
| age-0  |    |
| age-1  | 5  |
| age-2+ | 11 |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, at San Marcial Railroad bridge crossing, San Marcial.

Site Number: 18 River Mile: 68.3

UTM Easting: 315091 UTM Northing: 3728487 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-043**

29 April 2025

USGS Quad: San Marcial

Effort: 65.7 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 1             | <i>Dorosoma cepedianum</i>  | 1            |
| 2             | <i>Ictiobus bubalus</i>     | 2            |
| 4             | <i>Cyprinella lutrensis</i> | 12           |
| 4             | <i>Hybognathus amarus</i> * | 4            |
| 4             | <i>Pimephales vigilax</i>   | 4            |
| 5             | <i>Ictalurus punctatus</i>  | 1            |

**\*Hybognathus amarus (age-classes):**

|        |   |
|--------|---|
| age-0  |   |
| age-1  | 1 |
| age-2+ | 3 |

## Rio Grande Silvery Minnow Population Monitoring April 2025

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, ca. 8.0 mi downstream of San Marcial Railroad bridge crossing, San Marcial.

Site Number: 19 River Mile: 60.1

UTM Easting: 309441 UTM Northing: 3718309 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-042**

29 April 2025

USGS Quad: Paraje Well

Effort: 400.2 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Cyprinella lutrensis</i> | 7            |
| 9             | <i>Gambusia affinis</i>     | 1            |

NEW MEXICO: SOCORRO County, RIO GRANDE Drainage

Rio Grande, ca. 10.0 mi downstream of San Marcial Railroad bridge crossing, San Marcial.

Site Number: 20 River Mile: 58.5

UTM Easting: 307767 UTM Northing: 3716360 Zone: 13

Collector(s): Dudley, R.K.; Farrington, M.A.; Dingmann, S.D.

**RKD25-041**

29 April 2025

USGS Quad: Paraje Well

Effort: 544.1 sq. m

| <u>Family</u> | <u>Species</u>              | <u>Total</u> |
|---------------|-----------------------------|--------------|
| 4             | <i>Cyprinella lutrensis</i> | 69           |
| 4             | <i>Pimephales vigilax</i>   | 3            |
| 5             | <i>Ictalurus punctatus</i>  | 7            |