Table 3. Moisture content, methyl mercury and element concentrations in Rio Grande silvery minnow carcasses collected from six sites (Table 1; Figure 2) along the Middle Rio Grande, New Mexico, during 2006-2008, and all site data combined.

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Contaminant (Unit Basis)	**1. Bernalillo**	**2. Alameda**	**3. Los Padillas**	**4. Los Lunas**	**5. La Joya**	**6. San Antonio**	**All site data combined**
Aluminum (µg/g dry)	519 ± 380.7 (5; 140-1150)	406 ± 302.2 (6; 141-970)	234 ± 268.9 (6; 81-767)	315 ± 212.5 (6; 61-626)	176 ± 110.2 (5; 36.4-328)	123 ± 99.1 (5; 30.8-289)	298 ± 266.9 (33; 30.8-1150)
Aluminum (µg/g wet)	140 ± 103.2 (5; 34.7-308)	109 ± 84.6 (6; 33.6-267)	64.6 ± 77.5 (6; 22-219)	90.6 ± 69.6 (6; 17-210)	50.8 ± 34.6 (5; 9.9-102)	35.5 ± 30.4 (5; 8.8-87.3)	82.3 ± 75.0 (33; 8.8-308)
Arsenic (µg/g dry)	3.7^{A} ± 0.6 (5; 3.0-4.5)	3.5^{A} ± 0.3 (6; 3.1-3.9)	3.0^{AB} ± 0.5 (6; 2.6-3.8)	3.0^{AB} ± 0.3 (6; 2.7-3.4)	3.0^{AB} ± 0.2 (5; 2.8-3.2)	2.8^{AB} ± 0.3 (5; 2.6-3.3)	3.2^{BC} ± 0.5 (33; 2.6-4.5)
Arsenic (µg/g wet)	1.0 ± 0.2 (5; 0.8-1.2)	0.9 ± 0.1 (6; 0.8-1.1)	0.8 ± 0.1 (6; 0.7-1.0)	0.8 ± 0.1 (6; 0.7-1.0)	0.8 ± 0.1 (5; 0.8-1.0)	0.8 ± 0.1 (5; 0.7-0.9)	0.9 ± 0.1 (33; 0.7-1.2)
Barium (µg/g dry)	79.3^{A} ± 8.9 (5; 69.5-88.4)	71.4^{AB} ± 4.6 (6; 67.6-79.3)	58.7^{BC} ± 8.3 (6; 47.5-68.0)	58.0^{BC} ± 6.5 (6; 47.8-65.3)	36.6^{C} ± 12.3 (5; 22.1-54.4)	34.8^{C} ± 13.9 (5; 22.1-57.6)	57.0 ± 18.2 (33; 22.1-88.4)
Barium (µg/g wet)	21.0 ± 1.8 (5; 18.8-23.6)	18.7 ± 1.2 (6; 17.3-20.4)	15.6 ± 1.7 (6; 12.9-17.0)	16.3 ± 3.0 (6; 13.3-21.9)	10.5 ± 4.2 (5; 6.1-17.0)	9.9 ± 4.4 (5; 6.5-17.4)	15.5 ± 4.8 (33; 6.1-23.6)
Copper (µg/g dry)	9.2 ± 12.6 (5; 3.3-31.7)	13.0 ± 17.6 (6; 3.2-46.7)	5.9 ± 6.9 (6; 2.6-20.0)	5.1 ± 4.8 (6; 2.7-14.9)	2.8 ± 0.3 (5; 2.3-3.2)	3.5 ± 1.9 (5; 2.3-6.9)	6.7 ± 9.6 (33; 2.3-46.7)
Copper (µg/g wet)	2.5 ± 3.4 (5; 0.9-8.5)	3.4 ± 4.5 (6; 0.8-11.8)	1.6 ± 2.0 (6; 0.7-5.8)	1.4 ± 1.3 (6; 0.7-4.0)	0.8 ± 0.8 (5; 0.7-0.9)	1.0 ± 0.6 (5; 0.7-2.0)	1.8 ± 2.5 (33; 0.7-11.8)
Iron (µg/g dry)	589 ± 393.3 (5; 149-1180)	476 ± 325.6 (6; 181-1060)	279 ± 280.7 (6; 125-838)	375 ± 229.4 (6; 106-634)	236 ± 117.7 (5; 66.1-344)	164 ± 92.6 (5; 68.7-309)	355 ± 282.1 (33; 66.1-1180)
Iron (µg/g wet)	159 ± 107.9 (5; 37.0-316)	128 ± 92.0 (6; 45.8-292)	76.6 ± 81.1 (6; 33.5-239)	107 ± 71.2 (6; 29.5-212)	67.5 ± 35.7 (5; 18.0-107)	46.9 ± 28.3 (5; 19.7-93.3)	98.0 ± 79.4 (33; 18.0-316)
Lead (µg/g dry)	0.6 ± 0.4 (5; 0.2-1.1)	0.6 ± 0.4 (6; 0.3-1.5)	0.4 ± 0.2 (6; 0.2-0.8)	0.5 ± 0.3 (6; 0.2-0.9)	0.4 ± 0.1 (5; 0.2-0.6)	0.2 ± 0.03 (5; 0.03-0.1)	0.4 ± 0.3 (33; 0.2-1.5)
Lead (µg/g wet)	0.2 ± 0.1 (5; 0.04-0.3)	0.2 ± 0.1 (6; 0.07-0.4)	0.1 ± 0.1 (6; 0.04-0.2)	0.1 ± 0.1 (6; 0.05-0.2)	0.1 ± 0.04 (5; 0.06-0.1)	0.1 ± 0.03 (5; 0.03-0.1)	0.1 ± 0.1 (33; 0.03-0.4)

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[Moisture content, methyl mercury and element concentration data are the mean±1 standard deviation with the number of fish composite samples and range of concentrations in parentheses. Means within a row that have no upper case letters are not significantly different. Means within a row with upper case letters and sharing the same upper case letter are not significantly (P<0.05) different. "±", plus or minus; "MRG", Middle Rio Grande; "NM", New Mexico; Site 1, MRG at Bernalillo, NM; Site 2, MRG at Alameda, NM; Site 3, MRG at Los Padillas, NM; Site 4, MRG at Los Lunas, NM; Site 5, MRG at La Joya, NM; Site 6, MRG near San Antonio, NM; "µg/g", microgram per gram; dry, dry weight basis; wet, wet weight basis; "<", less than; "%", percent]

Contaminant (Unit Basis)	**1. Bernalillo**	**2. Alameda**	**3. Los Padillas**	**4. Los Lunas**	**5. La Joya**	**6. San Antonio**	**All site data combined**
Manganese (µg/g dry)	38.4 ± 18.1 (5; 17.8-58.2)	35.5 ± 18.3 (6; 17.0-62.8)	19.9 ± 10.9 (6; 10.7-39.9)	23.9 ± 11.1 (6; 12.5-36.8)	30.6 ± 15.6 (5; 13.1-49.9)	17.8 ± 7.9 (5; 11.8-31.7)	27.6 ± 15.1 (33; 10.7-62.8)
Manganese (µg/g wet)	10.4 ± 5.2 (5; 4.4-16.1)	9.5 ± 5.4 (6; 4.3-12.9)	5.4 ± 3.2 (6; 2.9-11.4)	6.8 ± 3.6 (6; 3.4-12.3)	8.8 ± 4.9 (5; 3.6-15.6)	5.1 ± 2.5 (5; 3.5-9.6)	7.6 ± 4.4 (33; 2.9-17.9)
Magnesium (µg/g dry)	1654 ± 224.1 (5; 1410-2000)	1528 ± 100.7 (6; 1440-1700)	1462 ± 187.6 (6; 1300-1780)	1517 ± 155.9 (6; 1330-1710)	1380 ± 186.4 (5; 1150-1640)	1354 ± 128.6 (5; 1240-1530)	1484 ± 181.9 (33; 1150-2000)
Magnesium (µg/g wet)	440 ± 62.5 (5; 381-536)	401 ± 38.1 (6; 364-468)	392 ± 57.4 (6; 354-507)	426 ± 72.8 (6; 370-566)	392 ± 76.1 (5; 320-512)	385 ± 45.2 (5; 350-462)	406 ± 58.5 (33; 320-566)
Mercury (µg/g dry)	0.22 ± 0.07 (5; 0.13-0.28)	0.21 ± 0.08 (6; 0.12-0.32)	0.18 ± 0.07 (6; 0.11-0.30)	0.15 ± 0.05 (6; 0.09-0.22)	0.18 ± 0.05 (5; 0.10-0.22)	0.21 ± 0.11 (5; 0.10-0.36)	0.19 ± 0.07 (33; 0.09-0.36)
Mercury (µg/g wet)	0.06 ± 0.02 (5; 0.04-0.07)	0.06 ± 0.02 (6; 0.03-0.08)	0.05 ± 0.02 (6; 0.03-0.07)	0.04 ± 0.02 (6; 0.02-0.06)	0.05 ± 0.01 (5; 0.03-0.06)	0.06 ± 0.03 (5; 0.03-0.10)	0.05 ± 0.02 (33; 0.02-0.10)
Methyl mercury (µg/g dry)	0.18 (1)	0.21 ± 0.02 (2; 0.20-0.22)	0.20 ± 0.07 (2; 0.14-0.24)	0.17 ± 0.04 (2; 0.14-0.20)	0.16 ± 0.06 (3; 0.10-0.22)	0.31 ± 0.08 (2; 0.26-0.36)	0.20 ± 0.07 (12; 0.10-0.36)
Methyl mercury (µg/g wet)	0.05 (1)	0.05 ± 0.003 (2; 0.05-0.06)	0.05 ± 0.01 (2; 0.04-0.06)	0.05 ± 0.01 (2; 0.04-0.05)	0.05 ± 0.02 (3; 0.03-0.06)	0.09 ± 0.02 (2; 0.07-0.10)	0.06 ± 0.02 (12; 0.03-0.10)
Nickel (µg/g dry)	3.5 ± 5.5 (5; 0.7-13.3)	4.0 ± 5.1 (6; 0.5-12.9)	1.6 ± 1.6 (6; 0.2-4.6)	1.4 ± 1.1 (6; 0.2-3.2)	0.5 ± 0.4 (5; 0.2-1.1)	1.1 ± 1.3 (5; 0.2-3.5)	2.0 ± 3.2 (33; 0.2-13.3)
Nickel (µg/g wet)	0.9 ± 1.5 (5; 0.2-3.6)	1.1 ± 1.4 (6; 0.1-3.6)	0.6 ± 0.5 (6; 0.1-0.8)	0.4 ± 0.3 (6; 0.1-0.9)	0.2 ± 0.1 (5; 0.1-0.3)	0.3 ± 0.4 (5; 0.1-1.0)	0.6 ± 0.9 (33; 0.1-3.6)
Selenium (µg/g dry)	1.9 ± 0.3 (5; 1.4-2.1)	2.0 ± 0.3 (6; 1.7-2.4)	1.8 ± 0.4 (6; 1.3-2.5)	1.8 ± 0.2 (6; 1.5-2.1)	2.2 ± 0.7 (5; 1.4-3.2)	1.9 ± 0.6 (5; 1.4-2.8)	1.9 ± 0.4 (33; 1.3-3.2)
Selenium (µg/g wet)	0.5 ± 0.1 (5; 0.4-0.6)	0.5 ± 0.1 (6; 0.4-0.7)	0.5 ± 0.1 (6; 0.4-0.6)	0.5 ± 0.1 (6; 0.4-0.6)	0.6 ± 0.2 (5; 0.4-0.9)	0.6 ± 0.2 (5; 0.4-0.8)	0.5 ± 0.1 (33; 0.3-0.9)

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Contaminant (Unit Basis)	**1. Bernalillo**	**2. Alameda**	**3. Los Padillas**	**4. Los Lunas**	**5. La Joya**	**6. San Antonio**	**All site data combined**
Strontium (µg/g dry)	136 ± 22.9 (5; 107-162)	137 ± 24.0 (6; 105-176)	137 ± 24.4 (6; 104-164)	126 ± 15.3 (5; 108-154)	149 ± 23.4 (5; 128-187)	153 ± 35.9 (5; 98.8-186)	139 ± 24.4 (33; 98.8-187)
Strontium (µg/g wet)	36.1 ± 5.3 (5; 28.9-43.4)	35.7 ± 3.9 (5; 29.9-41.9)	36.6 ± 6.5 (5; 28.3-46.7)	36.1 ± 5.3 (5; 28.9-43.4)	42.5 ± 9.1 (5; 36.5-58.3)	43.4 ± 10.5 (5; 28.4-51.3)	38.1 ± 7.6 (33; 28.3-58.3)
Vanadium (µg/g dry)	1.6 ± 1.0 (5; 0.6-3.2)	1.5 ± 0.6 (6; 0.9-2.5)	1.1 ± 0.9 (6; 0.2-0.9)	1.1 ± 0.6 (6; 0.2-1.7)	0.8 ± 0.4 (5; 0.2-1.2)	0.7 ± 0.3 (5; 0.2-1.1)	1.1 ± 0.7 (33; 0.2-3.2)
Vanadium (µg/g wet)	0.4 ± 0.3 (5; 0.1-0.8)	0.4 ± 0.2 (6; 0.2-0.7)	0.3 ± 0.3 (6; 0.1-0.8)	0.3 ± 0.2 (6; 0.1-0.6)	0.2 ± 0.1 (5; 0.1-0.4)	0.2 ± 0.1 (5; 0.1-0.4)	0.3 ± 0.2 (33; 0.1-0.8)
Zinc (µg/g dry)	149 ± 11.8 (5; 136-165)	143 ± 19.2 (6; 122-179)	139 ± 13.3 (6; 119-159)	136 ± 19.6 (6; 114-170)	130 ± 18.6 (5; 112-153)	134 ± 19.7 (5; 110-165)	139 ± 17.1 (33; 110-179)
Zinc (µg/g wet)	39.6 ± 2.9 (5; 36.3-42.3)	37.4 ± 3.8 (6; 33.3-42.6)	37.2 ± 2.5 (6; 34.5-41.9)	38.3 ± 9.5 (6; 31.7-57.0)	36.9 ± 7.1 (5; 30.6-45.6)	38.3 ± 7.3 (5; 29.8-49.8)	37.9 ± 5.7 (33; 29.8-57.0)
Moisture Content (%)	72.7 ± 1.6 (7; 69.9-75.0)	72.8 ± 1.7 (8; 69.8-74.6)	71.7 ± 1.5 (8; 70.0-74.9)	71.8 ± 2.7 (8; 66.8-76.4)	70.9 ± 1.5 (7; 69.5-73.7)	71.7 ± 1.8 (6; 69.5-74.5)	71.9 ± 1.9 (44; 66.8-76.4)