

Sept. 6, 1950

WJK50-09-06-01

Rio San Francisco, 2 miles above Fries
Hot Springs.

Arrived 620. A 57 W 60 .2 cloudy.

Redds all clean - 66 in lower patch.

645 - snow almost completely cloudy.

700 A 60 W 60(+) .9 cloudy.

Sts on redds but not in abundance.

Light poor for photography & visibility.

Redds.

depth to ridge	to pit	width.
		22
4	9	25
2	9	22
3	8	
<hr/>		
4	7	14
4	8	15

Vial 1 taken from old redds - lower patch.

E lev. at site: 4550

September 8, 1950 #1

N.M., Catron Co., Rio San Francisco 3 miles
above Frico Hot Spring (T12SR20W S14)

Sept. 6, 1950

WJK.

Rhinichthys oculus

(juv), 45 mm SL,

Color description of ♀ that was almost ripe.
A little extra pressure exerted eggs.
speckled with blackish.

Dorsal half dark above; side above lower
fin origins, lighter above; belly & lower side of head
white; a dark stripe from snout to base of
caudal, not especially pronounced on head ~~area~~ except
on the upper portion of the opercle which is nearly black;
a second dark stripe extends from shoulder
girdle to posterior end of A. origins. A small dark
spot at the base of the C and another ^{just} above base of P.
Distinct reddish (vermillion) markings on upper
lip and ~~above~~ ^{upper} rictus, behind the bases of the P+V, along
the base of the A; faint indications of red at upper
angle of opercle and near anterior end of dorsal bone.
D + C above, the rays darker; the C. faintly suffused with
reddish. P ^{pale line} with darker rays and with red suffusion
on dorsal surface
~~about to rays~~ ^{whitish} near anterior ~~op.~~ angle
V and A light; the latter slightly darker and with a
very faint suffusion of red. Iris dusky above
light ~~brandy~~ below

September 8, 1950 #2.

Rio San Francisco 3 mi. above Funes Hot Springs
Sept 6 50 (cont.)

Rhinichthys ocellus (cont.)

♂ 47 m SL. Similar to ♀ described above but generally less intense except for suffusions on fins, all fins having a distinctly pinkish cast; except for an additional spot of red at the posterior-neutral angle of the pre-opercle; and except for a more intense caudal spot.

Tiaroga cobitis

~~Breeding colors from a tutumulate ♂ 50 m SL.~~

General color description

Body Back and sides olive, ^{to brown} marbled with blackish; lower surface of head and belly whitish; the middle of the upper lip, band along snout, across ^{the} upper portion of the cheek and of the operculum ^{darker} often blackish. Iris dusky golden. The dorsal olive with the rays conspicuously outlined except near their tips. The base of the dorsal is buffy at the ends, blackish in the middle. Caudal similar to D; olive with the rays outlined ^{except} near tips; large buff-colored

Sept. 8, 1950 #3

Traronga from 2 mi above Furies Hot Springs Sept 6, 50. (cont)

spots on either side near the base with a dark spot in between; ^{bordering these spots} ~~distinct~~ is a blackish 3-shaped band; another ^{is distinct} faint band occurs toward the tip. Anal pale; central rays faintly margined. Ventrals similar to A, but slightly darker (sic). Pectorals olive with the rays distinctly outlined; a dark blotch above their bases.

♀ ^{#1} - ad? - 45 m S.L. Faint pink markings on anterior portion of P, V, A and lower margin of C

♂ ^{#2} ad, 49 m S.L., tuberculate, breeding colors.

Red occurs: about lips

~~Lips red~~ except for median portions; in legit spots at either end of D and one and between the first two (counted) rays from joint below the middle to near the tip; on the caudal in the legit spots near the base, along the upper and lower margins, and in large marginal blotches just beyond the middle of the lobes; over most of of the A + V fins except for the distal margins; in a large blotch just beyond the middle of the anterior margin of the pectoral; in the axil; on the iethmus in front of the P. ^{is thin +} Pinkish The lower surface of the head, belly, and ^{is thin +} anal; the last being the palest.

Sept. 8, 1950 #4

Frisco R. 2 mi. above Frito Hato Spr. (cont)

Azoria

Description of breeding adults. Sexes similar.

General appearance silvery & olive above, whitish beneath. The dorsal half of the body is olive, lower half whitish; along the sides is a moderately distinct lateral band which ends in a spot at the base of the C^{*}. A dark mid-dorsal stripe is present and is enlarged to form a spot at either end of the dorsal fin; between these two spots, the dorsal base is buffy. The upper surface of the head is ~~silvery white~~ olive; the upper lip is dusky; and the remainder of the head is silvery white. The upper portion of the iris is dusky; the lower silvery. The fins are plain; the A & V almost colorless.

* Above the lateral streak is a ^{dark} faint lighter one

September 11, 1950 #1

N.M. Catron Co., Rio San Francisco 2 miles
above Frisco Hot Springs

Sept. 6, 1950

WJ K
(cont)

Taraxia whitii G.

~~191~~¹⁹¹ juv - ads 26-53 mm SL.

Many in breeding colors, some tuberculate.

Agonia c. cheyogaster G.

229 juv or late young
gg - ad. 23-67 mm SL.

Rhinichthys oculus garrawi J & E

4 juv - ads. 43-57 mm SL.

1 ♀ in breeding color.

Ameiurus natalis

2 yg - 69-74 mm SL.

Catostomus iniquis B & G.

2 yg - juv - 37-70 mm SL.

Very many released in field.

Pantodon clarkii (B & G)

1 juv or small ad 76 mm SL.

Very many released in field.

Col of eggs not yet examined.

September 11th, 1950 #3

N.M., Catron Co., Rio San Francisco 2 miles above
✓ Frieso Hat Springs.

Sept. 6, 1950

WJK.

Agoria c. chrysogaster G.

Vial #1 665 eggs recently deposited to eyed; eyes gray, i.e.,
pigment not fully deposited.

Vial #2 37 eggs rec. dep. to embryos left off sac.

N.M. Grant Co., 1/2 mile above Mumbies.

Sept. 6, 1950

WJK.

Vial #6 Pantosteus plebeius

8 postlarvae - young. Ca 13-28m TL

Agoria c. chrysogaster

68 larvae - yg - Ca 8-16m TL.

Vial #5 Pantosteus

16 rec. hatched (check ident) - yg - Ca 15-21m TL

Agoria

101 larvae - yg. Ca 8-15m TL.

Vial #4 Pantosteus

4 - 1 larva, 1 postlarva, 2 yg Ca 10-19m TL.

Agoria

90 larvae to yg, almost entirely yg. - Ca 7-15m TL

Rio San Francisco 2 mi. above Funic Hot Springs.

Sept. 6, 50

Vial #2

$$4.0 - 1.7 = 2.3$$

$$4.1 - 1.9 = 2.2$$

$$5.2 - 3.3 = 1.9$$

$$9.0 - 7.1 = 1.9$$

$$9.4 - 7.2 = 2.2$$

$$3.6 - 1.7 = 1.9$$

largest in sample.

$$7.4 - 5.5 = 1.9$$

$$9.5 - 7.4 = 2.1$$

$$8.5 - 6.7 = 1.8$$

$$4.4 - 2.6 = 1.8$$

$$6.7 - 4.7 = 2.0$$

$$4.7 - 2.9 = 1.8$$

1.1

1.1

1.1

1.01

1.2

1.0

Oct. 23, 1950

Agonia eggs - (cont'd)

2 mi. ^{above} Frisco Nat Sprung. Sept. 6, 1950 Uvalde.

$$5.9 - 3.8 = 2.1$$

$$8.7 - 6.6 = 2.1$$

$$2.7 - 0.4 = 2.3$$

$$5.1 - 2.9 = 2.2$$

$$6.6 - 4.5 = 2.1$$

- - - -

$$\#10.8 \ 8.0 = 2.8$$

$$6.9 - 4.7 = 2.2$$

$$5.5 - 3.5 = 2.0$$

$$5.7 - 3.6 = 2.1$$

$$7.5 - 2.4 = 2.1$$

$$1.1$$

$$1.0$$

$$0.9$$

$$1.1$$

$$1.1$$

extremes

$$3.9 - 2.2 = 1.7$$

$$5.1 - 2.6 = 2.5$$

$$3.8 - 2.1 = 1.7$$

$$5.1 - 2.9 = 2.2$$

$$1.0$$

$$1.2$$

July 7, 1957 #9

N.M., Catron Co., Rio San Francisco, 2 miles
above Frisco Hot Springs

Sept. 6 1950

W.S.K.

(date is 5th or 6th - check)

Thamnophis rufipunctatus (Cope)

1 37 ~~mm~~ in

Apparently same form as T. angustirostris
in Schmidt & Davis; according to Smith & Taylor.
(USNM Bull. 157) the latter is restricted to a single
specimen.

✓
Sept 6, 1950.

WJK50-09-06-02

Minibus at Xmas place - 1/2 mile above Minibus

Vials 1, 2 & 3 from above; 4, 5 & 6

from below silt diversion dam.