

August 21, 1949 #1

Left Reserve and went south along the
Fries which was raised about 5 miles above Alma;
cut through the Mule mountains to Arizona stopping
to collect in Tennessee and Mule creeks at the
town of Mule creek; reentered N. M. at Urdem
and camped.

Shawers off and on all day afternoon.
Mineral creek below Alma - dry.

✓
#1

Aug. 21, 1949
Drainage Gila

WJK49-08-21-01

Locality N. M., CATRON CO.

Rio San Francisco 5 mi above Alma T10S R20W S8

Elev. 4840

Date Aug. 21, 1949

Collector WJK, K. R. Coburn

Size 20-30 ft wide, 2-6 in deep, some few pools to 18 "

Temp. Air 88

Water 80

Time 1200

Weather pt. cl.

Water CW

Current m-str

Bottom sd, r

Vegetation none

Shore canyon, walnuts & ~~willow~~

Watershed PJ YP

Capture Method 6 & 12 ft S.

Time 900-1200

Dist. from shore s-s

Depth -18 "

Orig. Pres. 10% F

Remarks:

Photo.

Bottom of shifting coarse sand over most of area. A few scattered rubble riffles and a little silt in the pool formed by a low brush diversion dam.

Catostomus

Abd. in P.

Pantosteus

F. C. 2 ads in deeper (18") P; yg in rf.

Rhinichthys

Rare in rf.

Agosia

Abd. widespread in all habitats.

Some few F. ripe.

Nests? A series of conical pits honeycombing an area about 5 x 8 ft. each pit was 4-6 in wide, mostly 5-6 in. and about 1/4 in (3 cm) deep from rim to lowest point. Water 8 in deep to rims. Pits were quite close, a rounded ridge separating them. Many of the pits had their apices in gravel, the ridges being in fine sand & coarse sand.

An egg (?) found in one, preserved.

Agosia in number, acted as if they were feeding on eggs.

Agosia feeds as a gleaner.

Rana

Cnemidophorus (tesselatus?)

Seen

#2

Aug. 21, 1949
Drainage Gila

WJK49-08-21-03

Locality N. M., CATRON CO.

Mule Cr. at Town of Mule Cr.

Elev. 5050 Date Aug. 21, 1949 Collector WJK, & K. R. Coburn

Size 2 ft x 1 in to 4 ft x 1/2 in, some F under brush to 8 in.

Condition N Fluctuation mod.

Temp. Air 86 Water 74 Time 1600 Weather cloudy

Water CW Current m-mstr Bottom mostly shifting sand, some gr.

Vegetation mod, Nasturtium, Mimulus, algae

Shore willow, grass Watershed grass

Capture Method 6 ft S, fry net Time 1520-1600

Dist. from shore s-s Depth -8 in Orig. Pres. 10% F

Remarks:

Small headwater stream.

Agosia

C. widespread

fry taken from quiet backwaters. One, being pursued by me, was captured by a Belatostomatid.

Drainage Gila

WJK49-08-21-02

Locality N. M., CATRON CO.

Tennessee Cr. near town of Mule Cr.

Elev. 5050 Date Aug. 21, 1949 Collector WJK, K. R. Coburn

Size 1-2 ft wide, -1/2 in deep in most of area, -to 3 " in pools;

spring had about 7 ft across and 1 ft deep

Condition N Fluctuation great

Temp. Air 88 Water 64 Time 1515 Weather pt. cl.

Water CW Current m Bottom shifting sand in stream, silt & muck in spring

Vegetation abd., algae, Mimulus

Shore grassland

Watershed grassland

Capture Method 6 ft S.

Time 1445-1515

Dist. from shore s-s

Depth -1 ft Orig. Pres. 10% F

Remarks:

According to Mr. Stockton, owner, this spring went dry last year. Fish apparently moved in from Mule Cr.

Agosia

C. in spring; FC in stream.

✓
November 2, 1949 #2

-N.M., Catron Co., Tennessee Creek near town
of Mule Creek.

Aug 21, 1949

U. V. K., K. R. Colburn

✓ Rhinichthys oculus garrowi (V & E)
1 ♀ 29-m sk.

✓ Agoria c. chrysozoster G.
59 half grown 21-42 m sk.

✓
O Toher 27, 1949 #2.

N.M., Catron Co., Mule Creek at Mule Creek.

Aug 21, 1949

W. V. Koster, K. R. Cobern.

Agoniat e. chrysozoster ♂

99 - ads.

24 yg (fry - yg) approx 7-17 m T.L.

58 juv + ads. 26-51 m SL.

1 juv-perulian - snout + lower portion of H

modified as to make mouth terminal.

58

October 31, 1949

N.M., Catron Co., Rio San Francisco 5 mi N. of
Alma, T10S, R20W, S8

Aug. 21, 1949

A. S. K., K. R. Coburn.

Agoria c. chryogaster G

17-63 mm SL.

218 yg-ads. Mostly ads in breeding condition.

These specimens may be a clue as to why the species is called "chryogaster". In preservation, ^(de) they show yellowish or golden on the belly. None of the specimens, taken anywhere ~~at~~ were yellow or golden in life.

Catostomus virignis B&G

166 yg. 27-47 mm SL.

Pantosteus ^{clarki} ~~phleiss~~ (B&G)

21 yg - small ad.

• 19 yg 24-40 mm SL.

2 ads 85-90 mm SL.

Rhinichthys orcula garrowi (J&E)

1 39 mm SL.

Tiaroga cobitis

1 25 mm SL.

Rana pipiens

2 imagos 32-37 mm ds-U

Bufo

1 imago 24 mm ds-U