

August 22, 1949 #1

WJK49-08-22-01

Worked the Gila about seven miles SE of Virden.

Drainage Gila

Locality N. M., CATRON CO.

Gila R. 7 mi. SE of Virden T19S R20W S21.

Elev. 3800 Date Aug. 22, 1949 Collector WJK, K.R. Coburn

Size 10ft x 5 in to 50 ft wide and 2-8 in deep. Some P to 3 1/2 feet along bank 4.2 cfs. Condition low Fluctuation very great

Temp. Air 90 Water 84 Time 1430 Weather cloudy

Water WST Current m-mstr Bottom sd, gr, some r & st.

Vegetation very sparse; fil. algae in rf.

Shore cottonwoods, mesquite Watershed creosote bush

Capture Method 6 & 12 Ft. Seine, fry net Time 830-1630

Dist. from shore s-s

Depth -4 ft Orig. Pres. 10%

Remarks:

Flow: riffle 10 ft wide; depth 3; 5; 3, flow at -25 ft in 16 sec. = 4.2 cfs.

Pools large and shallow; only a few are deep, 2-4 feet, enough to shelter larger fish.

Riffles are mostly short and with gravel or small rubble bottom. Suitable only for cats & suckers.

Catostomus

Abd. in P. large ones only in deep P., smaller ones in both deep and shallow P.

Pantosteus

fc-r. ad. from deep P.

Agosia

Abd. ubiquitous ripe. Presumed to be nesting.

Ictalurus

Ameurirus melas

A. natalis

Pilodictus

} ALL from deep pools. The last all from a quiet hole with no perceptible current, 3 $\frac{1}{2}$ feet deep.

Thamnophis

in stream.

Cnemidophorus

amongst mesquite along river bottom

Holbrookia

on rocky hillsides; creosote bush.

Bufo

August 22, 1949 #2.

While exploring the stream preparatory to rearing, I found several groups of redds similar to that found yesterday in the Friars above Alma. Presumed to be *Agonops*

Many eggs were recovered and preserved. They seemed to be buried fairly deeply since I tried without success to see them on the surface (conditions were poor - slight cloudiness of water and wind) and tried to suck them with the syringe. Best results were obtained by scooping up the sand and gravel about $\frac{1}{2}$ - $\frac{3}{4}$ inch deep from the redd and then using gold panning technique.

No small fry could be found. Most likely because of the poor visibility.

Redds were located ^{in pools} most frequently at the upstream border of a sandy bar. Fresh redds were observed ^{above} both submerged and emerged bars. One large group of redds was along the shore, parallel to the flow of the stream rather than at right angles to the flow. A few small group were observed in the middle of shallow pools at the front of small bars.

Depth to top of ridges: mostly 5-8 cm., ~~sometimes~~ many in shallower water, ~~so~~ several exposed. These were photographed to show shape.

The current was not perceptible over the redds, most water movement was wind caused rather than general stream flow.

✓ August 22, 1949 # 3.

The bottom was composed of sand and fine gravel. The gravel was deeper and was exposed through the digging. Some nests, ~~at~~ somewhat less than half reached gravel; the remainder were in sand alone.

Each redd was a conical depression 10-20 cm across, mostly 10-16 cm; 3-6°, mostly 4-5 cm deep.

The reds were rarely single. They were usually in groups of several to many, close together about 4 to a square foot. Areas so occupied measured as large as 15 x 4 and 25 x 2-3 feet.

Picked up some Bufo at dusk.

January 24, 1950 #2.

Sorted:

N.M., Catron Co., Gila R. 7 mi. SE of Virden
T19S R20W S21

Aug. 22, 1949

A. J. Koater, K.R. Cohen.

Pantosteus clarkii (Gün)

24 gg-ad.

22 gg- 26-40 m sl.

1 juv. 59 m sl.

1 ad 137 m sl.

Catostomus insignis (Gün)

196 gg-ads.

171 gg-juv. 25-70 m sl

25 ads. 120-175 m sl.

Ameiurus natalis (Le Sueur)

1 juv. 64 m sl.

Ameiurus nebulosus (Le Sueur)

1 gg 41 m sl.

A2; interradial membranes not conspicuously darkened.

Ameiurus melas (Raf)

3 gg-ads.

1 gg 35 m sl.

2 ads 160-190 m sl.

January 27, 1950 #3

Cela R 7 mi. SE of Virden

Ictidomys lacustris punctatus (Raf)

23 gg-ad.

15 gg 30-40 m S.L.

8 145-175 m S.L.

Pelodectes olivaceus Raf.

14 gg-ad.

2 gg 48-54 m S.L.

12 195-200 m S.L.

Agonia c. chrysogaster G.

672 ♀ larvae to ad + 250 ± eggs.
662 gg-ad 18-66 m S.L.

Some tuberculate

approx 250 eggs, mostly with polaral.

10 ± polaral. (~~to 44~~)

1 meal of eggs, stripped & water-hardened, discarded
as worthless - was not preserved in time.

Bufo w. woodhousii G.

3 imagoes 29-47 m S.L.

Thamnophis eques cyrtopsis (Kennicott)
ad.

Thamnophis marcianus migratorius (Bacon)
1 ad.

Holbrookia texana Troxel

5 ~~sts~~, 44-64 m S.L-V.

Cnemidophorus t. tesselatus (Say)

5, 44-46 m S.L-V.