

August 31, 1950 #1

WJK50-08-31-01

Examined the Gila about ^{10 miles below} Cliff - 1/2 mile ^{area collected} ~~last year~~ ^{∴ 1/2 mi.} above area collected
Agoria has spawned. Redds have eyed eggs
and fry for the most part. Fry coming off redds.
Most redds found in a creek-lined side channel.

Side channel.

8 along center of bar that runs through
center of a shallow P. ; C 1 ft/sec. D2 - 4 cm,
B sd + pea gr. + about half & half.

3 redds of fry & eggs collected here. (#1
is misdated Aug 30)

At the head of the bar just mentioned
are other redds, some at the head proper and some
are in either side channel. B pea gr., C 1 1/3 ft/sec.,
Eggs present, not sorted.

9 redds in an area 2 ft x 3 ft. in the tail
of a pool at the head of a riffle ; B pea gr., D2 - 5 cm,
C 1 ft/sec., Surface supplied by C over surface,
most unusual, ~~po~~ Position of P & Rf. may
have been altered by recent high water - after redds
made - appears that way

August 31, 1950 #2

In an area ten feet above the preceding one
18 redds. in an area $4\frac{1}{2} \times 20$ in., D 1-3 cm, Bed - Pop., C $\frac{1}{2}$ ft/sec.

Rita River - main channel. along slope
42 redds in an area 32×40 miles at tail
of P; just above upfl. D 0-4 cm, C almost $0 - \frac{2}{3}$ ft/sec;
B eq., some $\frac{1}{2}$ 3 cm. & sd., Coarsen bottom seen thus
far. Redds are the smallest 7-12 cm — effect of texture of
bottom? Vial 4 Small fry over redd & adjacent
stone.

59 redds in an ^{2nd 6 ft} shaped area. D 1-4 cm,
C $\frac{1}{3}$ ft/sec B eq., coarsely sand and some silt. Area
on upper side of bar dividing part of riffle, channel slow.
Fry over redds.

About 10 feet below 11 are in an area of
coarse sand, but have otherwise similar conditions. Larger,
12-20 cm across instead of small.

A 81 W 71 T 930.

Fy examined area about 5 miles below
cliff at camp. Nothing found.

✓
August 31, 1950 # 4

32 nests stretched along slope ^{in all} 12 ft x
2 ft. D - 3 cm, some with fresh eggs.

25 nests along slope 8 ft x 2 ft. C very
slight. Bad. D - 2 cm, ♀ eggs with
embryos, eyes barely visible

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Oct. 17, 1950 #2.

Agave eggs count.

10 mi. below Cliff. Aug. 31, 50 Vial #3

5.1 - 2.5 = 2.6	6.2 - 4.2 = 2.0	1.1
4.3 - 1.8 = 2.5	5.6 - 3.4 = 2.2	1.2
5.8 - 3.5 = 2.3	6.8 - 5.1 = 1.7	0.9
7.3 - 5.4 = 1.9	4.6 - 2.7 = 1.9	1.1
5.0 - 2.9 = 2.1	8.7 - 6.8 = 1.9	1.1
— — — —		
2.9 - 0.5 = 2.4	4.4 - 2.3 = 2.1	1.1
extremes 7.0 - 2.1 = 1.9	8.5 - 6.7 = 1.8	1.1

10 mi below Cliff Aug. 31, 50 Vial #4

2.6 - 0.7 = 1.9	6.9 - 5.4 = 1.5	1.0
6.6 - 3.9 = 2.7	7.2 - 5.2 = 2.0	1.2
8.2 - 6.4 = 1.8	3.4 - 1.5 = 1.9	1.0
4.5 - 2.1 = 2.3	8.8 - 7.1 = 1.7	
5.3 - 3.0 = 2.3	0.1 - 7.8 = 2.3	1.1
— — — —	9.3 - 7.1 = 2.2	1.0
extremes 5.9 - 3.9 = 2.0	9.8 - 7.5 = 1.5	
largest included in sample above		

Oct. 16, 1950

Igoria eggs (cont.)

10 mi below Cliff. Aug. 31, 50 UZ.

$$6.6 - 4.3 = 2.3$$

$$9.6 - 7.5 = 2.1$$

$$7.8 - 5.8 = 2.0$$

$$5.6 - 3.2 = 2.4$$

$$3.5 - 1.3 = 2.2$$

$$0.3 - 8.3 = 2.0$$

$$5.4 - 3.3 = 2.1$$

$$7.7 - 6.0 = 1.6$$

$$7.8 - 5.8 = 2.0$$

$$6.2 - 4.4 = 1.8$$

1.1

1.0

1.0

1.1

1.0

preceding were randomly chosen. Following
two were taken as representing extremes.

$$3.5 - 1.0 = 2.5$$

$$8.9 - 7.1 = 1.8$$

$$4.1 - 3.6 = 2.5$$

$$7.5 - 5.8 = 1.7$$

1.1

0.9