Tuesday June 27, 1944 #1

Weather: Clear, warm in afternoon. Nearly front last night. Windy off and on, especially in morning.
Rio La Venta - May rain there. 57-41°F. 4°41N, 92°54E. 9:40 Reloj Palenque reads 91°F 61°C.
9:45 - Some trout are on the rocks but relatively few.

As the day progressed more became interested in spawning. The stream was clear of all effects of the rains and the trout were feeding freely at the surface. They gobbled onto that it seemed to. Trout are "flying" now.

Sensed for a while but received little pools were too deep and current too swift for me to manipulate successfully. Caught 5 trout.

9:45 AM - 156 m Th. 37°. 802.8 from steep hill behind.
9:50 164 39.5 do.
9:55 171 40.0 same pools as before but under cany.

10:30 AM Set up camera & myself at reed.

10:55 AM They have made several attempts to enter reed. Rep frightened them three times. They are now back and appear to be acting normally. The intake region is in dense shade and will help several hours. I am very close to the reed but can't visit it because of trees behind me. Two males reeve interested.
Tuesday June 30, 1944 # 2.

11:00 AM q. on reed, o. on right (pool) side of q. slightly back.
11:01 q. queried, chased intruder, queried, o. dug.
11:02 o. take something from reed area, chased intruder, o. dug, o. queried (in order)
11:03 q. went to go left and queried, chased intruder.
11:04 o. dug, left side; o. chased intruder; queried.
11:05 q. dug, left side; o. queried.
11:06 o. chased intruder; setto.
11:07 q. dug, left side; setto.
11:08 o. queried on q. o. left, vertical side always aimed toward q. 4# x - setto

11:09 o. queried on q. o. left, touched q. near vent

and mark anterior q. to mid-abdominal region.
11:10 q. dug, right side; o. chased intruder; q. dug, right side.
11:11 q. dug, left side; felt bottom with abdomen.
11:12 q. dug, left side; o. absent. I can not see well in the pool beyond the reed but I believe him to be arguing with a larger q. that has been coming around lately.
11:13 q. dug, left side.
11:15 q. fish returned, q. retreated one way.
3 pm next.

All mixed up - more fish.

11:17 No fish on reed for some time.
A male, attempting to enter reed. He retraced his entire head and of water twice. During the day other fish were returned to to a similar action. Aspects did not seem to be the cause. On a number of occasions in the afternoon, both q. or took occasional gulps of air which they passed over their gills.
Left reed.
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11:14 - back again; left to chase intruder.

11:20 atto. A trout in the pool just took a surface fly very handily.

11:21 original of back; of queried and chased intruder.

11:22 q dug, left side tilted bottom; original of back, left with another q.

11:23 another q is entering a redd 18 inches back and to the side of original redd.

11:25 original pair just returned; q drove q out, attempted to bite.

11:26 one q hit another near redd.

11:30 no one on redd since 11:26. General chasing about in pool, name bitter going on. Visibility in pool improving.

11:41 original pair have been on redd for 2-3 minutes. q queried frequently; q dug dug several times.

11:45 q dug, right side; q queried right side; dits.

11:46 q dug, left side; q tilted put & approached; q tilted put; dug, left side.

11:47 a large fish came close the other off, then left.

11:48 original pair back.

11:49 q tilted put; q queried as it did so; q dug, right side.

11:50 q left to shake 2 other males that appear to be raging each other up.

11:51 q queried left side; q dug, right side.

11:52 q queried, right side; q dug right side; chased intruder.
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11:53 2 quenned, right side; 2 dug, left side.
11:54 2 dug, left side.
11:55 2 dug right side; 2 quenned right, then left, then right.
11:56 2 dug, right side, dotts.
11:57 2 quenned, left side.
11:58 2 quenned, right side, then left side.
12:00 general dip and quenned not recorded as I cross check possibility of taking pictures now.
12:01 2 dug, left side, 2 quenned, left side.
12:02 2 dug, right side.
12:03 2 quenned, left side.
12:04 2 quenned, left side; dotts; quenned intruder.
12:05 2 dug, left, left.
12:06 2 quenned while 2 rested.
12:07 2 dug, left.

Much activity on main riffle now, some with their backs protruding out of the water.

12:08 2 quenned, left side, crawl back.
12:10 2 dug, left side.
12:11 2 dug, right side.
12:12 2 quenned, left side, dotts; dotts.
12:13 2 dug, right side.
12:14 2 quenned intruder; quenned, left side; 2 dug, right side.
12:15 2 quenned, left side, dotts; 2 dug, right side.
12:16 2 quenned intruder in a longer distance than usual.

all of not sure what.
12:17 2 quenned, a surface feeding fish; 2 dug, left side.
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12:19 a.m. quieted, left side; chased intruder
12:20 left intruder, then hit Q. No one on rest
lots of chasing going on.
12:25 — original pair back; 4 days, night side

3:16 Have been watching and photographing. One 30c &
occasionally when the air was abnormally calm, he chased the # away after long attempting to hit it. It
seemed to require the reprise of the "rapids" and he left the rest
shortly after the in each case.
The 6 returned from last chase. 51 60
on head and took a large ant floating at the surface
without hesitation.
3:25 Both sexes fed while on head. Observed both do it, the
stayed in ants and took morsels of feeding.

5:10 47° 12C W14°50C.
The preceding descriptions apply pretty well to
the activities of the day from 12:25 to about 5:00, when
they sparrowed.
The 6 did lot's of quivering. During the afternoon he
occasionally opened his mouth wide while doing so.
especially when she was tending the pit. He closed
lots of intruders, 7- including just feeding at the
surface three pit from rest. When he was chased
by a large or be sometimes (usually) drove off his own
Q. After intruder stayed more than a moment he
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(As the original 2) would attempt to cut one of the reds on the main rifle, but was promptly pursued. At no time were there real fights, although one or the other hit another. It was never mutual. Rather it was as rigid ceremony as in the human race. Entire mating pairs would swim about together for a while.

The 9 dug at fairly frequent intervals. As the spawning time approached, she treated the jip with increasing frequency. Occasionally, she would dig away.

The spawning act was simple. The 9 went through one of his grunts with his mouth open. The 9 opened her mouth. The 9 spat a cloud of milt surrounding them appeared in the deepest part of the red. The 9 left to chase another. The 9 dug no more, much more vigorously around the three upper sides of the red and quickly covered the egg. The ground was nearly level in about 15 minutes. (Time not noted - was changing film and camera jammed.)

After the act, other 9's came up and grunted about the 9, especially little fellows about 6 inches long. Probably a precarious 2 yr. old. For a few minutes the original 9

The pair tolerated the males but he soon took to chasing them again.

The pair were probably 3 yr. olds, about 5-6 inches long. The 9 did not show the typical coloration to retain and the juvenile pair mates. Many of the fish were in their condition to make sex recognition difficult.