

June 9, 1953

WJK53-06-09-01

Jemez Creek three miles above mouth of Guadalupe creek

620 W 54, A 62 No signs of *Achinichthys non redd.*

720 W 55 *Achinichthys non redd.*

800 A 73, W 57 established myself and disturbed all

830 Pc 1, male in front of rock in typical resting position.

900 W 60; Milling about; probably a female is present. No spawning yet.

905 A female was just pursued out of range.

915 Very little activity

955 Pc 2 and 3, quarelling.

956 Pc4 Apparently they just spawned and are egg eating

1000 W 67 "nother spawning followed by ~~an~~ egg eating. Within the last few minutes, activity has moved up about me. Previously it had been below where the surface was rough.

1006 Pc5 Thought they were going to spawn, but they did not.

1006 Pc6 Probably spawned.

1008 Pc 7 Ditto( Frame exposed by opening viewfinder to form a marker)

1012 Pc8 A female, ready to spawn, passed through

1020 The males are not guarding territories to any great extent. Most, but not all are pursuing the females, often ~~for~~ for a distance of several feet.

1022 Action is below again. The spawnings within a few minutes.

1030 Mobility of most males is indicated by the shifting of action. The shift has been to where the females have spawned. Chemicals must play an important part.

1045 Pc 9 very short; males quarrelling. Skip

Pc 10 ditto

Frame marked by opening viewfinder.

1047 Probably just spawned

1050 Pc 11 Female passing through

Pc 12, spawning female came from this side and settled next to a rock; was followed by a crowd.

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1051 Spawning nearby

1100 W 70

1107 Spawning below

1112 Pc 13 Quarrelling by males; long; not a good fight

~~xxx~~ Pc 14 and 15 short. a female in the neighborhood. Marker

1200 W73 Spawning is infrequent. About 20 minutes ago, I put the periscope on the lower area, <sup>+</sup>t was accepted, but was of ~~x~~ little help. Promptly