

December 21, 1945

WJK45-12-21-01

Lela, Rip and I went to Tres Pintas for trout. Weather: clear and moderately cold Dec. 20, partly cloudy to clear on Dec. 21. This is the tail end of a prolonged cold spell with sub-zero temperatures. Rio Pueblo is very solidly frozen across as is Rio la Santa up to Duran creek. The ice cover is incomplete beginning about $\frac{1}{4}$ mile above Duran canyon. Specimens #1-58 inclusive were obtained by chopping out the ice in pools beginning with the "old winter hole" about halfway between Duran and Hellans creeks and up to the uppermost of the large pools in this series. The last pool seined (corner hole 100 yds above rocky pool) has always been too deep to seine and has been a fine place for angling in past seasons. The changes in the stream course have greatly altered the stream during the course of these studies. Beavers, falling trees, log and ice jams, ^{erosion} etc. have all produced their effects in filling in old pools and creating new. Over the years the stream-improvement series have largely gone out. The general change has been for the better. The region seined today ^{as a rule} ~~is general~~ as one ~~one~~ good pool or riffle was destroyed, another equally good or better, took its place.

Dec. 21, 45 #2

is one which has undergone ⁺ considerable alteration during the past season. The most drastic changes were produced at the large pool mentioned above where the current is no longer eroding the pool but is by-passing it with the result that it is beginning to silt in. The rocky pool has been by-passed as a result of the undercutting of a spur which diverted the water and created an even better pool. ~~Less~~ Less drastic changes have taken place in the other pools. These changes raise the problem: Are stream improvement dams, etc., worth establishing in quantity in streams like La Santa?

Several other pools were seined but no trout ^{in this region} were secured except in the two "old winter hole" and corner hole. These differed from the rest chiefly in being more out of the main line of the current. The silty backwaters had ~~some~~ great numbers of midge larva cases over the bottom.

No young of the year were collected although a special effort was made to get specimens for rearing development studies. The Specimens (nos. 59-70) were taken from Duran creek about 50 yards above its mouth in these efforts.

Dec. 21, 45 #3

The fish were measured at capture, packed in old snow and remeasured and weighed Dec. 22, at 1000 to 1230. All fish were in rigor earlier in the morning. As rigor passed and the fish became limp, they were measured, weighed and preserved.

One specimen, no. 6, had two pairs of marks similar to ones earlier referred to as kingfisher marks because the first ones were observed while a kingfisher was on the stream. The figure is a tracing of the more clearly marked scar. Rare?


December 21, 1945 #4

La Junta between Duran and Arellano Crks.

Old Winter hole

10:50

No.	at capture		December 22, Rigor just passed		
	S.L.	T.L.	S.L.	T.L.	Wt.
1	129	153	126	151	31.3
2	86	102	82	99	9.0
3	87	103	85	102	9.1
4	143	170	139	166	44.8
5	126	150	122	147	29.6
6	140	168	137	164	44.2
			note 2 "kingfisher" marks.		
7	149	176	146	171	52.2
8	82	98	79	95	8.2
9	136	160	132	156	35.6
10	138	162	134	159	39.1
11	148	175	144	171	46.9
12	125	149	122	145	30.5
13	97	115	94	113	13.3

11:40 Corner hole under spruce 100 yds. above rocky hole.

14	86	103	43	101	9.1
15	84	100	81	98	7.7
16	90	107	87	105	10.7
17	115	137	113	135	22.2
18	185	215	179	211	88.0
19	126	150	124	147	28.3
20	119	143	116	140	24.3
21	98	116	95	114	13.5
22	115	135	112	133	21.0

December 21, 1945 #5

La Junta between Duran and Arellano Crks.

11:40 Corner hole cont..

23	137	162	134	160	35.2
24	113	135	112	133	20.7
25	147	173	145	171	49.5
26	111	132	109	129	19.3
27	86	102	84	100	8.8
			CP with healed injury.		
28	86	104(L.C.)	85	102(1.c.)	9.4
29	97	116	95	113	13.1
30	117	138	114	136	22.7
31	146	172	141	168	45.8
32	127	152	123	149	30.5
33	155	185	152	181	56.9
34	147	174	146	172	45.1
35	144	170	141	167	43.2
36	139	164	136	160	36.8
37	127	149	124	147	27.7
38	112	134	110	131	19.8
39	169	200	167	197	78.5
40	118	141	115	138	23.2
41	128	154	126	151	30.2
42	106	127	103	124	17.7
43	112	133	109	130	19.8
44	96	115	94	112	12.4
45	76	92	73	89	6.3
46	83	99	81	97	7.8

December 21, 1945 #26

La Junta between Duran and Arellano Crks.

11:40 Corner hole cont.

47	92	109	88	106	10.8
48	116	137	112	134	21.4
49	131	154	127	{149 152(l.c.)}	33.4
50	110	130	106	127	19.3
51	79	93	76	91	7.0
52	88	106	85	103	9.2
53	85	100	82	98	8.3
54	87	103	84	101	9.7
55	84	100	82	99	8.9
56	71	85	69	82	4.9
57	88	104	56	102	9.3
58	80	94	77	92	

mouth of Duran Creek

59	57	72	preserved in Bouins sol.		
60	72	86	69	84	5.2
61	68	80	67	79	4.0
62	74	88	72	87	6.2
63	72	86	70	84	5.4
64	75	89	73	87	6.1
65	115	137	114	135	21.9
66	161	190	159	187	65.5
67	83	99	81	97	8.3
68	142	168	140	167	43.1
69	71	84	69	83	5.0
70	96	115	96	114	13.5