

Jump Creek Fish Presence and Habitat
May 4-5, 2021

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Fish Passage Task Force (FPTF) members requested access for Oregon Department of Fish and Wildlife fish staff to sample portions of Jump Creek located on Silvies Valley Ranch (SVR) property during spring runoff. This request was made to aid FPTF members in determining if a fish passage exemption submitted by SVR should be granted. Dr. Scott Campbell, owner of SVR, granted access for Malheur Fish District staff on May 4-5, 2021. Rand Campbell, Dr. Campbell's son, also accompanied ODFW staff during the visit.

Approximately 12.3 km of Jump Creek was sampled or observed by District staff and categorized as flowing, overland flow, dry or reservoir (Table 1). Two fyke nets were set in two reservoirs and 5.2 km (42%) of the flowing water were sampled (Figure 1). Two District staff accompanied by Dr. Scott Campbell and Rand Campbell sampled for fish presence in Jump Creek. Two crews divided and sampled 24 locations on SVR property beginning near the confluence with Silvies River proceeding to the SVR-U.S. Forest Service (USFS) boundary (Figures 1-4). District staff observed flowing water throughout most of Jump Creek on the sampled dates and 23 of 24 sample sites wetted for the entire reach (Figure 1, Table 2). Dr. Scott Campbell remarked to District staff that two weeks prior to sampling it was all snow and little or no flowing water.

Each crew used a Smith-Root LR-24 electrofishing backpack at 200 volts, 40 hertz, and 3 ms pulse width (12%). Captured fish were identified to species and released back into the stream outside the electrical field. Crews captured 10 *Perca flavescens* (Yellow Perch) at one site and one to 26 *Rhinichthys osculus* (Speckled Dace) at nine sites (Figure 5). Two reservoirs occurred within Jump Creek; identified as Reservoirs 1 (aka Elk Reservoir) and 2. One trap net was set in each reservoir overnight and captured only *P. flavescens* (Table 3.)

No redband trout were captured in Jump Creek or the reservoirs located on Jump Creek on SVR property during sampling (Table 2). An additional location was sampled by only District staff from the SVR-USFS boundary to a culvert located on USFS road 3765-868 (Figure 1) and included some of the stream sampled during the fall of 2019 (ODFW 2020). It was wetted the entire length of the survey and no fish were captured. Sampling was not continued above the culvert because there was overland flow of water and no defined channel. District staff concluded that fish were not likely to occur in the overland flow area if none were captured in the better flowing water habitat on USFS property.

Malheur District Fish staff conclude that redband trout don't currently inhabit Jump Creek. This conclusion is based on sampling during the fall of 2019 (ODFW 2020) on USFS property and spring 2021 on SVR and USFS property. No redband trout were captured during either sampling event. No other native migratory fish were captured during either survey. An appendix follows and contains pictures of sample sites on May 4 and 5 2021.

Reference

Oregon Dept. of Fish and Wildlife. Jump and Flat Creek Assessment: 11/5/2019 through 11/15/2019.
Oregon Dept. of Fish and Wildlife, 2020

Table 1. Status, kilometers (km) of that status, and km sampled or observed on Jump Creek on May 4-5, 2021. Six reservoirs/ponds were observed with four were sampled visually and by electrofishing and are not included in the 'reservoir' status. Two reservoirs were sampled using trap nets (*) and are include in the 'reservoir' status.

Status	km	km Sampled
Flowing	7.4	3.1
Dry	1.7	0.3
Overland Flow	2.8	0.0
Reservoir	0.4	*

Table 2. Site ID, percent of the site with flowing water (% wetted), and ownership where the site was located. Redband trout (RBT), Yellow Perch (YP) and Speckled Dace (SPD).

Site ID	% Wetted	Owner	RBT	YP	SPD
A	100	Silvies Valley Ranch	0	10	26
B	100	Silvies Valley Ranch	0	0	1
C	100	Silvies Valley Ranch	0	0	3
D	100	Silvies Valley Ranch	0	0	12
E	100	Silvies Valley Ranch	0	0	5
F	100	Silvies Valley Ranch	0	0	0
G	100	Silvies Valley Ranch	0	0	0
H	100	Silvies Valley Ranch	0	0	0
I	100	Silvies Valley Ranch	0	0	0
J	100	Silvies Valley Ranch	0	0	9
221	100	Silvies Valley Ranch	0	0	7
225	100	Silvies Valley Ranch	0	0	2
227	100	Silvies Valley Ranch	0	0	1
231	100	Silvies Valley Ranch	0	0	0
233	100	Silvies Valley Ranch	0	0	0
235	5	Silvies Valley Ranch	0	0	0
238	100	Silvies Valley Ranch	0	0	0
239	100	Silvies Valley Ranch	0	0	0
241	100	Silvies Valley Ranch	0	0	0
244	100	Silvies Valley Ranch	0	0	0
246	100	Silvies Valley Ranch	0	0	0
248	100	Silvies Valley Ranch	0	0	0
250	100	Silvies Valley Ranch	0	0	0
252	100	Silvies Valley Ranch	0	0	0
USFS/SVR - 3765-868	100	U. S. Forest Service	0	0	0

Table 3. Trap net set location, soak time, total fish and species captured.

Location	Soak Time (h)	Total	Species
Reservoir 1	25.5	153	YP
Reservoir 2	20.0	1	YP

Jump Creek Fish Sampling May 4-5, 2021



Figure 1. Jump Creek with habitat status, start, end and dam locations.

Jump Creek Fish Sampling May 4-5, 2021



Figure 2. Lower Jump Creek sampling area.

Jump Creek Fish Sampling May 4-5, 2021



Figure 3. Middle Jump Creek sampling area.

Jump Creek Fish Sampling May 4-5, 2021

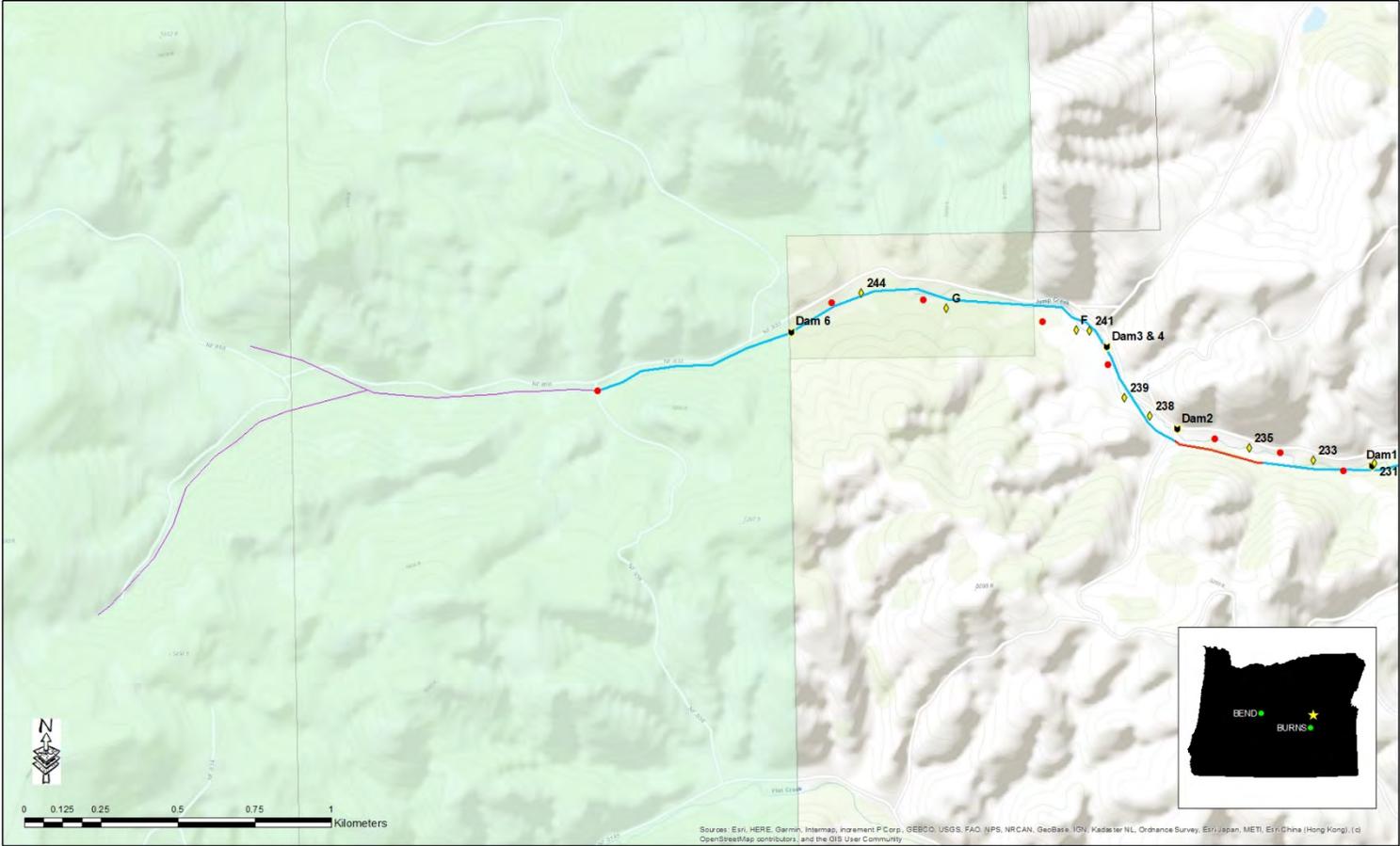


Figure 4. Upper Jump Creek sampling area.

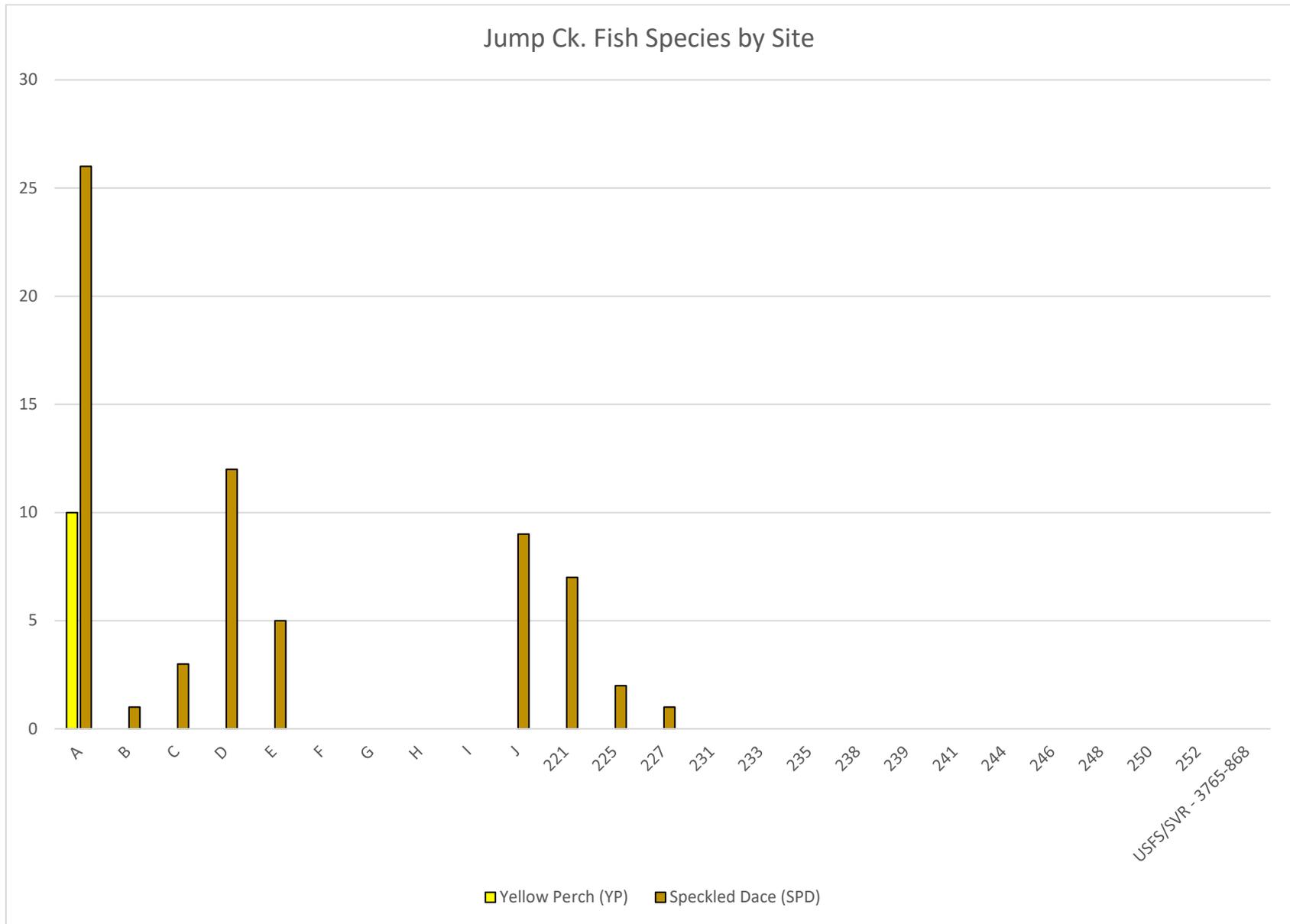


Figure 5. Fish species captured by site in Jump Creek May 4-5, 2021.

Appendix A



Site A



Speckled Dace Site A



Site B



Speckled Dace from site C (left) and Site C (right)



Speckled Dace Site D



Site D Start



Site D Start (left); Start E (right)



Start E



Alders at Site F



Pool covered by Alder



Site F aquatic vegetation



Site F Start



FS 1 (left); FS 2 (right)



FS 3 (left); FS 5 (middle); FS 6 (right)



FS 7



FS 8



FS 9



FS 10 (left), FS 12 (middle), FS 13 (right)



FS 14 (left), FS 15 (middle), FS 16 (right)



FS 17 (left), FS 18 and end of reach on USFS land (right)



FS-Private boundary (left), G start (right)



G start (2)



H start



H looking upstream



H start (left), I habitat (right)



Water flowing from ditch in site I



I start



Speckled Dace with University of Wyoming medallion, approximately the size of a quarter, for scale



J habitat (left), J habitat 2 (middle), J start (right)



Jump Creek near confluence with Silvies River, looking upstream



Jump Creek near confluence with Silvies River, looking upstream



Jump Creek near confluence with Silvies River, looking downstream. Silvies River in the background, ditch in the foreground. The water in the ditch is not from upstream on Jump Creek.



Jump Creek near confluence with Silvie River – looking upstream with sign.



Jump Creek between reservoir and confluence with the Silvies River.