

Memorandum

TO: Scott Carlon, NOAA National Marine Fisheries Service
FROM: Tom Kahler, Douglas PUD
SUBJECT: Fish Salvage During Winter Maintenance Outage of Wells Dam West Fishway
DATE: February 10, 2020

We dewatered the Wells Dam west fishway for annual maintenance on February 4 and 6, 2020. At approximately 8:15 AM on the 4th, we closed the ladder exits and reduced supplemental flow to 50 percent. At 10:15 AM, we reduced supplemental flow to 20 percent. From 10:45 to around 11:30 PM, we salvaged fish remaining in the ladder, after which we turned off supplemental flow. Because of crane scheduling, we were unable to drain the collection gallery on the 5th, but we completed dewatering of the west fishway by draining the collection gallery, implementing fish-salvage operations from around 1:30 PM to 2:15 PM on the 6th. On both days, we released salvaged fish to the Columbia River at the Carpenter Island boat launch approximately one mile downstream of Wells Dam. The following table lists fish salvaged by location and date.

Numbers of fishes salvaged from the west-fishway ladder and collection gallery at Wells Dam on February 4 and 6, 2020

Species	2/4/2020	2/6/2020	Total
	Ladder	Collection Gallery	
Wild steelhead juvenile	0	4	4
Hatchery steelhead residual	1*	10*	11
Hatchery steelhead adult	0	1	1
Hatchery coho residual	4	9	13
Summer Chinook juvenile	0	1^	1
Mountain whitefish	10	1^	11
Non-native northern crayfish	1*	7*	8
Carp	0	1	1
Three-spine stickleback	2	64	66
Sculpin spp.	0	17	17
Lamprey larva	0	1	1
Lamprey juvenile	0	3	3
Total	18	119	137

*Captured live; euthanized by WDFW

^Mortality during capture

c: Wells HCP Coordinating Committee,
Ritchie Graves, NOAA NMFS