

Excerpt from DRAFT Consultation on the Issuance of Twenty Four ESA Section 10(a)(1)(A) Scientific Research Permits in Oregon, Washington, Idaho, and California affecting Salmon, Steelhead, Eulachon, Sturgeon and Rockfish in the West Coast Region

NMFS Consultation Number: WCRO-2021-XXXXXX
 ARN 151422WCR2021PR000XX

Table 1. Estimated annual abundance of ESA listed fish.

Species	Life Stage	Origin	Abundance
Puget Sound Chinook salmon	Adult	Natural	21,486
		Listed Hatchery, Clipped and Intact	18,060
	Juvenile	Natural	3,163,652
Listed Hatchery Intact Adipose		7,470,630	
Listed Hatchery Adipose Clip		47,372,500	
Puget Sound Steelhead	Adult	Listed Hatchery and Natural Origin	19,456
		Natural	2,210,140
	Juvenile	Listed Hatchery Intact Adipose	112,500
Listed Hatchery Adipose Clip		110,000	
Puget Sound/Georgia Basin DPS Rockfish, Bocaccio	Adult	Natural	4,606
Puget Sound/Georgia Basin DPS Rockfish, Yelloweye	Adult	Natural	66,998
Hood Canal summer-run chum salmon	Adult	Natural	25,146
		Listed Hatchery Intact Adipose	1,452
	Juvenile	Natural	3,889,955

Listed Hatchery
Intact Adipose 150,000

Table 2. Total expected take of the ESA listed species for scientific research and monitoring already approved for 2021 plus the permits covered in this Biological Opinion.

Species	Life Stage	Origin	Requested Take	Lethal Take	Percent of ESU/DPS taken	Percent of ESU/DPS killed
Puget Sound Chinook salmon	Adult	Natural	859	34	3.998	0.158
		Listed Hatchery Intact Adipose	937	10	11.561	0.388
		Listed Hatchery Adipose Clip	1,151	60		
	Juvenile	Natural	388,621	8,676	12.284	0.274
		Listed Hatchery Intact Adipose	86,433	2,966	1.157	0.040
		Listed Hatchery Adipose Clip	207,705	11,012	0.438	0.023
		Natural	1,814	39	9.611	0.236
	Adult	Listed Hatchery Intact Adipose	22	0		
Listed Hatchery Adipose Clip		34	7			
Juvenile	Natural	45,796	1,124	2.072	0.051	

		Listed Hatchery Intact Adipose	2,309	38	2.052	0.034
		Listed Hatchery Adipose Clip	5,265	111	4.786	0.101
Puget Sound/Georgia Basin DPS Rockfish, Bocaccio	Adult	Natural	38	21		
	Subadult	Natural	2	1	2.518	1.086
	Juvenile	Natural	76	28		
Puget Sound/Georgia Basin DPS Rockfish, Yelloweye	Adult	Natural	40	22		
	Subadult	Natural	2	1	0.140	0.076
	Juvenile	Natural	52	28		
	Adult	Natural	2,007	31	7.981	0.123
		Natural	726,913	2,551	18.687	0.066
Hood Canal summer-run chum salmon	Juvenile	Listed Hatchery Intact Adipose	250	21	0.167	0.014
		Listed Hatchery Adipose Clip	85	18	-	-