

PS Summer Chum- Programs and Associated Natural Pops.

Production Area	Natural Population	SaSI Stock ID	Recent Spawner Abundance (2005-2009) (Natural-origin or Aggregate)	Long Term Spawner Abundance (2000-2009) (Natural-origin or Aggregate)	Associated Program	Program Type	Cost/ Adult (2009)	PSHAAC Info Needs	PSHAAC Population Designation	PSHAAC WSMZ Candidate? (Yes/No)
Mid Puget Sound	Blackjack Creek Summer Chum Allozyme analysis has shown Blackjack Creek summer chum salmon to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2243	Average 3,186 Range (5,331 to 1,493) (Natural-origin) Years of with data =5	Average 3,208 Range (5,331 to 489) (Natural-origin) Years of with data =10						
South Puget Sound	Chambers Summer Chum No genetic analysis was done on Chambers Creek summer chum.	2181	Extinct	Extinct						
	Hammersley Inlet Summer Chum Allozyme analysis has shown Hammersley Inlet summer chum to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2215	Average 30,131 Range (48,576 to 14,206) (Natural-origin) Years of with data =4	Average 37,540 Range (103,141 to 14,206) (Natural-origin) Years of with data =9						
	Case Inlet Summer Chum Allozyme analysis has shown Case Inlet summer chum salmon to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2227	Average 6,692 Range (10,386 to 3,912) (Aggregate) Years of with data =4	Average 10,815 Range (16,434 to 3,912) (Aggregate) Years of with data =9						
	Big Beef Creek Summer Chum No genetic sampling was conducted prior to the loss of the native stock. Genetic samples were collected during 2000 and 2001.	2301	Average 736 Range (1,124 to 154) (Hatchery) Years of with data =5	Average 815 Range (1,916 to 20) (Hatchery) Years of with data =10	Big Quilicene Summer Chum (USFWS)	Integrated Conservation	unk			
	Anderson Creek Summer Chum No genetic sampling was conducted prior to the loss of the native stock.	2305	Extinct	Extinct						
	Dewatto Summer Chum No genetic sampling was conducted prior to the loss of the native stock.	2313	Average 38 Range (69 to 21) (Natural-origin) Years of with data =5	Average 27 Range (69 to 9) (Natural-origin) Years of with data =10	Union Summer Chum (WDFW)	Integrated Conservation	unk	New Program		
	Tahuya Summer Chum No genetic sampling was conducted prior to the loss of the native stock.	2341	Average 491 Range (749 to 4) (Hatchery) Years of with data =5	Average 247 Range (749 to 0) (Hatchery) Years of with data =10	Union Summer Chum (WDFW)	Integrated Conservation	unk			
	Union Summer Chum Allozyme analysis has shown that Union summer chum are genetically distinct from all other Washington chum stocks examined except Duckabush summer chum (Phelps et al. 1995). Separate stock status is based on the geographic distance between the stocks and the likely degree of reproductive isolation.	2352	Average 1,706 Range (2,836 to 611) (Aggregate) Years of with data =5	Average 2,953 Range (11,916 to 611) (Aggregate) Years of with data =10	Union Summer Chum (WDFW) - Discontinued	Integrated Conservation	unk			
	Skokomish Summer Chum No genetic sampling was conducted prior to the loss of the native stock.	2374	Average 19 Range (36 to 5) (Natural-origin) Years of with data =5	Average 13 Range (36 to 0) (Natural-origin) Years of with data =9						

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Hood Canal	Finch Creek Summer Chum No genetic sampling was conducted prior to the loss of the native stock.	2407	Extinct	Extinct						
	Lilliwaup Summer Chum Allozyme analysis has shown that Lilliwaup summer chum are genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2418	Average 828 Range (2,418 to 255) (Aggregate) Years of with data =5	Average 648 Range (2,418 to 22) (Aggregate) Years of with data =10	Lilliwaup Summer Chum (WDFW & LLTK)	Integrated Conservation	unk			
	Hamma Hamma Summer Chum Allozyme analysis has shown that Hamma Hamma summer chum are genetically distinct from all other Washington chum stocks except Duckabush summer chum and Union summer chum (Phelps et al. 1995). Separate stock status is based on the geographic distances among these populations and the likely degree of reproductive isolation.	2429	Average 1,653 Range (3,065 to 663) (Aggregate) Years of with data =5	Average 1,560 Range (3,065 to 229) (Aggregate) Years of with data = 10	Hamma Hamma Summer Chum (WDFW & LLTK) - Discontinued	Integrated Conservation	unk			
	Duckabush Summer Chum Allozyme analysis has shown that Duckabush summer chum are genetically distinct from all other Washington chum stocks examined except Hamma Hamma summer chum (Phelps et al. 1995). Separate stock status is based on the geographic distance between the two stocks and the likely degree of reproductive isolation.	2447	Average 2,115 Range (3,135 to 821) (Natural-origin) Years of with data =5	Average 2,302 Range (8,637 to 464) (Natural-origin) Years of with data =10						
	Dosewallips Summer Chum Allozyme analysis has shown that Dosewallips summer chum are genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2473	2,352 (n=5) Range (3,930 to 1,127) (Natural-origin) Years of with data =5	3,425 (n=10) Range (11,549 to 990) (Natural-origin) Years of with data =10						
	Big/Little Quilcene Summer Chum Big/Little Quilcene summer chum are genetically distinct from all other Washington chum stocks examined except Hamma Hamma summer chum (Phelps et al. 1995). Separate stock status is based on the geographic distance between the stocks and the likely degree of reproductive isolation.	2489	Average 5,285 Range (11,876 to 1,492) (Aggregate) Years of with data =5	Average 9,407 Range (38,153 to 1,492) (Aggregate) Years of with data =10	Big Quilcene Summer Chum (USFWS) - Discontinued	Integrated Conservation	unk			
Chimacum Creek Summer Chum No genetic sampling was conducted prior to the loss of the native stock.	2517	Average 1,220 Range (2,026 to 727) (Hatchery) Years of with data =5	Average 961 Range (2,026 to 52) (Hatchery) Years of with data =10	Salmon Creek Summer Chum - Discountinued	Integrated Conservation	unk				

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SJF Tributaries	Snow/ Salmon Creek Summer Chum Allozyme analysis has shown that Snow/Salmon creeks summer chum are genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2521	Average 3,477 Range (6,974 to 1,466) (Aggregate) Years of with data =5	Average 3,947 Range (6,974 to 876) (Aggregate) Years of with data =10	Salmon Creek Summer Chum - Discontinued	Integrated Conservation	unk			
	Jimmcomelately Creek Summer Chum Allozyme analysis has shown that JimmyComelately Creek summer chum are genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2525	Average 1,275 Range (2,628 to 654) (Aggregate) Years of with data =5	Average 884 Range (2,628 to 42) (Aggregate) Years of with data =10	Jimmycomelately Creek Summer Chum - Discontinued	Integrated Conservation	unk			
	Dungeness Summer Chum No genetic analysis has been done on Dungeness summer chum.	2528	Average 2 Range (3 to 0) (Natural-origin) Years of with data =5	Average 16 Range (123 to 0) (Natural-origin) Years of with data =9						

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Nooksack/ Samish	Nooksack Fall Chum Allozyme analysis has shown North Fork chum to be genetically distinct from all other Washington and Canadian chum stocks examined (Phelps et al. 1995).	2022	Average 20,415 Range (34,496 to 11,771) (Natural-origin) Years of with data =5	Average 31,182 Range (95,898 to 3,760) (Natural-origin) Years of with data =10	NF Nooksack Chum (WDFW)	Integrated Harvest	unk		Primary	No
	Samish/ Independents Fall Chum Allozyme analysis has shown Samish/Independent fall chum to be genetically distinct from all other Washington and Canadian chum stocks examined (Phelps et al. 1995).	2044	Average 591 Range (1,222 to 52) (Aggregate) Years of with data =3	Average 2618 Range (7,903 to 52) (Aggregate) Years of with data =8	Whatcom Creek Chum (WDFW Co-op)	Segregated Harvest	unk		Contributing	No
Skagit	Skagit Fall Chum Allozyme analysis has shown Mainstem Skagit fall chum to be genetically distinct from all other Washington chum and Canadian chum stocks examined (Phelps et al. 1995).	2055	Average 44,931 Range (104,483 to 19,450) (Natural-origin) Years of with data =4	Average 72,426 Range (209,478 to 17,629) (Natural-origin) Years of with data =9	Red Creek Chum (Skagit Tribe)	Integrated Harvest	unk			
	Sauk Fall Chum No genetic analysis has been done on Sauk fall chum.	2077	Average 5,471 Range (8,729 to 2,212) (Natural-origin) Years of with data =2	Average 11,471 Range (36,390 to 818) (Natural-origin) Years of with data =7						
Stillaguamish/ Snohomish	North Fork Stillaguamish Fall Chum Allozyme analysis has shown North Fork Stillaguamish fall chum to be genetically distinct from all Washington chum stocks outside of the Stillaguamish basin. However, stock separations within the system are unclear (Phelps et al. 1995).	2088	Average 64,387 Range (180,772 to 9,682) (Natural-origin) Years of with data =5	Average 80,785 Range (180,772 to 9,682) (Natural-origin) Years of with data =10	Harvey Creek Chum (Stillaguamish Tribe)	Integrated Harvest	unk			
	South Fork Stillaguamish Fall Chum Allozyme analysis has shown South Fork Stillaguamish fall chum to be genetically distinct from all Washington chum stocks outside of the Stillaguamish basin. However, stock separations within the system are unclear (Phelps et al. 1995).	2099	Average 18,769 Range (66,224 to 4,621) (Natural-origin) Years of with data =5	Average 32,030 Range (72,022 to 4,621) (Natural-origin) Years of with data =10	Harvey Creek Chum (Stillaguamish Tribe)	Integrated Harvest	unk			
	Skykomish River Fall Chum Allozyme analysis has shown Skykomish fall chum to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2110	Average 49,545 Range (179,644 to 8,345) (Natural-origin) Years of with data =5	Average 42,868 Range (179,644 to 8,345) (Natural-origin) Years of with data =10						
	Wallace River Fall Chum Genetic analysis has shown Wallace fall chum to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2132	Average 5,420 Range (12,963 to 489) (Natural-origin) Years of with data =5	Average 33,147 Range (123,969 to 489) (Natural-origin) Years of with data =8						
	Snoqualmie River Fall Chum Genetic analysis has shown Snoqualmie fall chum to be genetically distinct from all other Washington chum and Canadian chum stocks sampled (Phelps et al. 1995).	2121	No data	No data						
	Duwamish/Green Fall Chum No genetic analysis has been done on Duwamish/Green fall chum.	2143	No data	No data	Keta Creek Chum (Muckleshoot Tribe)	Segregated Harvest	unk			

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Mid Puget Sound	Puyallup/Carbon Fall Chum <small>Allozyme analysis has shown Puyallup/Carbon fall chum to be genetically distinct from all other Washington chum and Canadian chum stocks examined (Phelps et al. 1995).</small>	2187	Average 1,197 Range (2,259 to 289) (Natural-origin) Years of with data =5	Average 3,706 Range (10,720 to 289) (Natural-origin) Years of with data =10	Diru Creek Chum (Puyallup Tribe)	Segregated Harvest	unk			
	Gig Harbor/ Ollala Fall Creek Chum <small>Allozyme analysis has shown Gig Harbor/Ollala Creek fall chum salmon to have a mixed genetic background (Phelps et al. 1995). North (Donkey) Creek chum are derived from Elson Creek Hatchery Stock (via Minter Creek).</small>	2239	Average 6,334 Range (1,076 to 9,897) (Aggregate) Years of with data =5	Average 7,950 Range (15,290 to 1,076) (Aggregate) Years of with data =10	Minter Creek Chum (WDFW)	Segregated Harvest	\$0.60			
	Sinclair Inlet Fall Chum <small>Allozyme analysis has shown Sinclair Inlet fall chum collected from Gorst Creek to be genetically similar to Chico Creek chum stock (Phelps et al. 1995).</small>	2247	Average 2,595 Range (5,508 to 1,124) (Natural-origin) Years of with data =5	Average 3,222 Range (5,508 to 477) (Natural-origin) Years of with data =10						
	Dyes Inlet/ Liberty Bay Fall Chum <small>Allozyme analysis has shown Dyes Inlet/Liberty Bay fall chum collected from Chico Creek to be genetically similar to Gorst Creek chum (Sinclair Inlet) (Phelps et al. 1995).</small>	2251	Average 48,906 Range (105,865 to 22,782) (Aggregate) Years of with data =5	Average 48,991 Range (105,865 to 7,138) (Aggregate) Years of with data =10	Cowlings Creek Chum (Suquamish Tribe) Chico Creek stock	Segregated Harvest	unk			
	Chambers Creek Winter Chum <small>Allozyme analysis has shown Chamber Creek winter chum to be genetically different from all other Washington chum stocks examined. They are most similar to the Nisqually winter chum stock (Phelps et al. 1995).</small>	2185	Average 1,219 Range (2,874 to 0) (Natural-origin) Years of with data =5	Average 1,430 Range (2,874 to 0) (Natural-origin) Years of with data =10						
	Nisqually Winter Chum <small>Allozyme analysis has shown Nisqually winter chum to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).</small>	2189	Average 45,111 Range (60164 to 36,759) (Natural-origin) Years of with data =4	Average 66,548 Range (183,932 to 4,564) (Natural-origin) Years of with data =9						
	Eld Inlet Fall Chum <small>Allozyme analysis has shown Eld Inlet Fall chum salmon to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).</small>	2195	Average 56,056 Range (75,951 to 37,313) (Natural-origin) Years of with data =4	Average 58,903 Range (87,928 to 30,166) (Natural-origin) Years of with data =9						
	Totten Inlet Fall Chum <small>Allozyme analysis has shown Totten Inlet Fall chum salmon to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995). A unique genetic mark was applied to Kennedy Creek chum during the 1975-1980 return years.</small>	2203	Average 42,308 Range (67,946 to 17,488) (Natural-origin) Years of with data =4	Average 46,481 Range (78,164 to 17,488) (Natural-origin) Years of with data =9						
	Skookum Inlet Fall Chum <small>Allozyme analysis has shown Skookum Inlet Fall chum salmon to be closely related to the Elson Creek Hatchery chum stock, which was derived from local wild populations (Phelps et al. 1995).</small>	2207	Average 4,986 Range (9,614 to 2,577) (Aggregate) Years of with data =4	Average 5,632 Range (10,162 to 2,577) (Aggregate) Years of with data =9						

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South Puget Sound	Upper Skookum Creek Fall Chum Allozyme analysis has shown Upper Skookum Creek fall chum salmon to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2211	Average 14,271 Range (18,243 to 8,702) (Natural-origin) Years of with data =4	Average 15,027 Range (28,029 to 8,088) (Natural-origin) Years of with data =9						
	Johns/ Mill Creek Fall Chum Allozyme analysis has shown Johns/Mill Creek fall chum salmon to have a genetically mixed background. Mill Creek may have a remnant native fall chum population (Phelps et al. 1995).	2219	Average 3,877 Range (5,775 to 1,978) (Aggregate) Years of with data =2	Average 10,279 Range (19,904 to 1,978) (Aggregate) Years of with data =6						
	Goldsborough/ Shelton Creek Fall Chum Allozyme analysis has shown Goldsborough/Shelton Creeks fall chum to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2223	Average 645 Range (1,112 to 411) (Natural-origin) Years of with data =3	Average 826 Range (1,873 to 65) (Natural-origin) Years of with data =8						
	Case Inlet Fall Chum Allozyme analysis has shown Case Inlet fall chum salmon to be genetically distinct from all other Washington chum stocks examined (Phelps et al. 1995).	2227	Average 6,692 Range (10,386 to 3,912) (Natural-origin) Years of with data =4	Average 10,815 Range (16,434 to 3,912) (Natural-origin) Years of with data =9						
	Carr Inlet Fall Chum Allozyme analysis has shown Carr Inlet fall chum salmon to have a mixed genetic background (Phelps et al. 1995). Minter Creek chum were derived from Elson Creek Hatchery stock, which was recently used to replace the previous Hood Canal-origin population. Lackey Creek may have a remnant native fall chum population.	2235	Average 9,216 Range (15,625 to 1,910) (Aggregate) Years of with data =5	Average 12,490 Range (19,615 to 1,910) (Aggregate) Years of with data =10	Minter Creek Chum (WDFW)	Integrated Harvest	\$0.60	Spawner Abundance, Marked?	Stabilizing	No
	Northeast Hood Canal Fall Chum Allozyme analysis of Northeast Hood Canal fall chum (Big Beef Creek) has shown them to be genetically distinct from fall chum stocks on the west side of Hood Canal but not from other eastside Hood Canal stocks (Phelps et al 1995).	2309	Average 2,162 Range (3,971 to 203) (Aggregate) Years of with data =5	Average 5,458 Range (17,615 to 203) (Aggregate) Years of with data =10						
	Dewatto Fall Chum Allozyme analysis of Dewatto fall chum has shown that the stock contributes to the genetic heterogeneity with Hood Canal but not all pairwise comparisons with other Hood Canal fall chum stocks show significant differences (Phelps et al. 1995).	2319	Average 3,646 Range (8,439 to 512) (Aggregate) Years of with data =5	Average 4,275 Range (8,439 to 512) (Aggregate) Years of with data =10						
	Southeast Hood Canal Fall Chum Allozyme analysis of Southeast Hood Canal fall chum (Big Mission Creek, Little Mission Creek and Tahuya River collections) has shown that Big Mission Creek fish are distinct from the other two subpopulations within the stock (Phelps et al 1995).	2357	Average 12,534 Range (20,188 to 5,590) (Aggregate) Years of with data =5	Average 20,216 Range (39,166 to 5,590) (Aggregate) Years of with data =10						

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Hood Canal	West Hood Canal Fall Chum <small>West Hood Canal fall chum are genetically indistinguishable from Hoodspout Hatchery fall chum (Phelps et al. 1995). Separate stock status is based on the geographic distances among these streams and other chum-bearing streams in Hood Canal and the likely degree of reproductive isolation from other Hood Canal fall chum stocks.</small>	2423	Average 8,712 Range (21,705 to 851) (Aggregate) Years of with data =5	Average 14,360 Range (30,131 to 851) (Aggregate) Years of with data =10	Hoodspout Fall Chum (WDFW) Enetai Creek Fall Chum (Skokomish Tribe)	Segregated Harvest	\$0.30			
	Lower Skokomish Fall Chum	2396	Average 127 (Aggregate) Years of with data =1	Average 127 Aggregate Years of with data =1	McKernan Fall Chum (WDFW)	Segregated Harvest	\$0.20			
	Upper Skokomish Late Fall Chum <small>Allozyme analysis has shown that North Fork Skokomish fall chum contribute to the genetic heterogeneity with Hood Canal, but not all pairwise comparisons with other Hood Canal fall chum stocks show significant differences (Phelps et al. 1995).</small>	2399	Average 7,922 Range (13,826 to 2,475) (Natural-origin) Years of with data =5	Average 8,843 Range (13,826 to 2,475) (Natural-origin) Years of with data =10	McKernan Fall Chum (WDFW)	Segregated Harvest	\$0.20			
	Hamma Hamma Late Fall Chum <small>Allozyme analysis has shown that there is considerable genetic variation within Hood Canal fall chum stocks. Pairwise comparisons of Hamma Hamma late fall chum with other Hood Canal fall chum stocks do not always show significant differences (Phelps et al. 1995).</small>	2440	Average 12,779 Range (25,394 to 1,757) (Natural-origin) Years of with data =5	Average 23,950 Range (53,554 to 1,757) (Natural-origin) Years of with data =10						
	Duckabush Late Fall Chum <small>No genetic analysis has been done on Duckabush late fall chum.</small>	2451	Average 1,908 Range (4,773 to 170) (Natural-origin) Years of with data =5	Average 4,944 Range (21,860 to 170) (Natural-origin) Years of with data =10						
	Dosewallips Late Fall Chum <small>Allozyme analysis has shown that there is considerable genetic variation within Hood Canal fall chum stocks. Pairwise comparisons of Dosewallips late fall chum with other Hood Canal fall chum stocks do not always show significant differences (Phelps 1995).</small>	2484	Average 241 Range (584 to 49) (Natural-origin) Years of with data =5	Average 650 Range (2,073 to 49) (Natural-origin) Years of with data =10	Walcott Slough Fall Chum (USFWS)	Integrated Harvest	unk			
	Quilcene Late Fall Chum <small>Allozyme analysis has shown that there is considerable genetic variation within Hood Canal fall chum stocks. Pairwise comparisons of Quilcene and Walcott National Fish Hatchery fall chum with other Hood Canal stocks do not always show significant differences (Phelps et al. 1995).</small>	2495	Average 3,030 Range (5,830 to 226) (Aggregate) Years of with data =5	Average 5,196 Range (13,834 to 226) (Aggregate) Years of with data =10	Quilcene Fall Chum (USFWS)	Integrated Harvest	unk			
SJF Tributaries	Dungeness /East Straits Tribs Fall Chum <small>No genetic analysis has been done on Dungeness/East Strait Tribs fall chum.</small>	2539	Average 335 Range (632 to 210) (Natural-origin) Years of with data =4	Average 549 Range (1062 to 210) (Natural-origin) Years of with data =9						
	Elwha Fall Chum <small>Allozyme analysis has shown that Elwha fall chum resemble Quilcene late fall chum.</small>	2550	No Data	No Data	Lower Elwha Hatchery (LEKT)	Integrated Conservation	unk			