

1992 HATCHERY ESCAPEMENT

Washington Department of Fisheries

**Salmon Culture Division
May 1993**

***Prepared by Janet Mason
Assessment and Development Section***

ESCAPEMENT TOTALS BY SPECIES

Species	Total Escapement			Upstream		Escapement Less Upstream	
	Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
Spring Chinook	16,040	8,783	11,942,200	1,363	227	14,677	8,556
Summer Chinook	2,205	228	3,677,100	0	0	2,205	228
Fall Chinook	65,795	8,777	119,613,650	3,262	860	62,533	7,917
Coho	256,738	58,235	114,729,250	52,697	6,111	204,041	52,124
Chum	177,911	0	61,278,100	26,518	0	151,393	0
Sockeye	6,595	1	2,995,900	5,121	1	1,474	0
TOTAL ESCAPEMENT	525,284	76,024	314,236,200	88,961	7,199	436,323	68,825

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SPRING CHINOOK

Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream		
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks	
PUGET SOUND REGION									
Nooksack	Nooksack	1,016	258	1,079,800	0	0	1,016	258	
Skagit	Clark Creek	249	721	379,500	0	0	249	721	
Hood Canal	Hood Canal	147	11	146,500	0	0	147	11	
Hupp Springs	Minter	464	131	414,000	0	0	464	131	
	SSNP	971	0	1,107,500	0	0	971	0	
SUBTOTAL		2,847	1,121	3,127,300	0	0	2,847	1,121	
COASTAL REGION									
Soleduck	Soleduck	1,540	66	798,000	0	0	1,540	66	
COLUMBIA RIVER REGION									
Cowlitz	Cowlitz	1	7,922	6,222	2,949,000	500	0	7,422	6,222
Kalama Falls	Kalama River	2	1,509	324	701,300	298	176	1,211	148
Lewis River	Lewis River	3	466	50	0	73	22	393	28
Speelyai	Lewis River	3	0	0	812,000	0	0	0	0
	Kalama River	2	0	0	1,178,000	0	0	0	0
Klickitat	Klickitat		654	819	1,115,000	0	0	654	819
Lyon's Ferry	Tucannon		510	37	157,500	410	29	100	8
	Ringold	4	0	0	931,000	0	0	0	0
Ringold	Ringold	4	385	144	0	0	0	385	144
Chiwawa	Chiwawa		113	0	90,100	38	0	75	0
Methow	Chewuch		33	0	47,000	13	0	20	0
	Twisp		61	0	36,000	31	0	30	0
SUBTOTAL		11,653	7,596	8,016,900	1,363	227	10,290	7,369	
TOTAL ESCAPEMENT		16,040	8,783	11,942,200	1,363	227	14,677	8,556	

- 1 Total escapement includes 619 A & 109 J recycled downstream that did not return to hatchery.
- 2 Total Kalama Falls escapement includes 641 A & 3 J shipped to Speelyai to be spawned. Eggtake is listed under Speelyai.
- 3 Total Lewis River escapement includes 393 A & 28 J shipped to Speelyai to be spawned. Eggtake is listed under Speelyai.
- 4 Total Ringold escapement includes 385 A & 49 J shipped to Lyon's Ferry to be spawned. Eggtake is listed under Lyon's Ferry.

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SUMMER CHINOOK

Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
PUGET SOUND REGION								
Skagit	Clark Creek	797	102	580,000	0	0	797	102
Skykomish	Skykomish	405	48	736,000	0	0	405	48
SUBTOTAL		1,202	150	1,316,000	0	0	1,202	150
COLUMBIA RIVER REGION								
Dryden Dam	Wenatchee River	337	4	723,100	0	0	337	4
Wells Dam	Wells	666	74	1,638,000	0	0	666	74
SUBTOTAL		1,003	78	2,361,100	0	0	1,003	78
TOTAL ESCAPEMENT		2,205	228	3,677,100	0	0	2,205	228

FALL CHINOOK

Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
PUGET SOUND REGION								
Nooksack	Nooksack	742	229	1,459,000	0	0	742	229
Glenwood Springs	Glenwood Spring	1,078	316	1,100,000	0	0	1,078	316
Whatcom Creek	Whatcom ¹	320	94	320,000	120	50	200	44
Samish	Samish	7,410	1,123	13,340,400	0	0	7,410	1,123
Skagit	Clark Creek	1,415	143	2,360,000	0	0	1,415	143
Baker River Trap	Baker River	475	0	0	475	0	0	0
Skykomish	Skykomish	538	274	572,000	0	0	538	274
Sunset Falls	Sunset Falls	429	68	0	429	68	0	0
Issaquah	Issaquah	796	289	854,400	0	0	796	289
Green River	Soos Creek	4,428	274	10,531,000	0	0	4,428	274
Minter Creek	Minter Creek	2,004	173	3,715,000	20	0	1,984	173
Coulter Creek	Coulter Creek ²	1,260	13	0	1,260	13	0	0
Garrison Springs	Chambers Creek	387	278	1,009,000	0	0	387	278
Puyallup	Voights Creek	1,740	60	3,213,000	14	0	1,726	60
McAllister	McAllister	656	516	1,451,900	0	0	656	516
Deschutes Falls Park	Deschutes River	6,404	1,170	12,622,900	428	659	5,976	511
	Percival Creek	65	13	0	56	11	9	2
George Adams	George Adams	294	75	443,000	0	0	294	75
Hood Canal	Hood Canal	931	642	1,608,500	0	0	931	642
Elwha Channel	Elwha	399	4	825,000	0	0	399	4
	SUBTOTAL	31,771	5,754	55,425,100	2,802	801	28,969	4,953

¹ Formerly Bellingham Maritime Heritage Technical College.

² From PRHM stream survey.

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FALL CHINOOK Cont . . .

Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
COASTAL REGION								
Soleduck	Soleduck	14	0	15,000	0	0	14	0
Shale Creek	Queets-Clearwat	131	0	245,000	0	0	131	0
Humtulpis	Humtulpis	190	33	450,500	0	0	190	33
Simpson	Satsop ¹	257	18	0	28	6	229	12
	Chehalis	258	1	505,500	0	0	258	1
Satsop Springs	Satsop Spring ¹	216	1	774,900	24	0	192	1
Willapa	Willapa	8,241	257	12,737,900	210	0	8,031	257
Nemah	Nemah	1,014	53	1,059,000	0	0	1,014	53
Naselle	Naselle	2,867	448	3,368,000	0	4	2,867	444
SUBTOTAL		13,188	811	19,155,800	262	10	12,926	801
COLUMBIA RIVER REGION								
Grays River	Grays River	222	10	501,000	32	2	190	8
Sea Resources	Sea Resources	299	23	806,500	0	0	299	23
Elokomin	Elokomin	947	25	1,375,500	8	0	939	25
	Rogue River ²	38	7	0	0	0	38	7
Cowlitz	Cowlitz ³	2,356	302	4,955,000	0	0	2,356	302
Toutle	Toutle	105	32	184,000	6	2	99	30
Kalama Falls	Kalama River	3,140	42	9,092,900	95	27	3,045	15
Lower Kalama	Kalama River	1,182	52	3,267,750	18	5	1,164	47
Lewis River	Lewis River	41	13	0	39	13	2	0
Washougal	Washougal	4,840	276	11,475,000	0	0	4,840	276
Lyon's Ferry	Lyon's Ferry	1,311	213	2,233,500	0	0	1,311	213
Priest Rapids	Priest Rapids	6,097	1,161	10,580,000	0	0	6,097	1,161
Wells Dam	Wells	258	56	561,600	0	0	258	56
SUBTOTAL		20,836	2,212	45,032,750	198	49	20,638	2,163
TOTAL ESCAPEMENT		65,795	8,777	119,613,650	3,262	860	62,533	7,917

1 Includes 248 A & 16 J shipped to Satsop Springs to be spawned. Eggtake is included in the Satsop Springs entry.

2 Includes 1 M, 16 F that were shipped to Big creek Hatchery in Oregon.

3 Includes 248 J recycled downstream that did not return.

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Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
PUGET SOUND REGION								
Nooksack	Nooksack	6,406	9,832	6,223,600	0	0	6,406	9,832
Whatcom Creek	Whatcom ¹	341	93	35,000	200	90	141	3
Samish	Samish	7,247	660	34,500	7,211	660	36	0
Skagit	Clark Creek	5,360	756	3,102,600	0	0	5,360	756
	Baker River	1,064	8	228,800	0	0	1,064	8
Baker River Trap	Baker River	7,401	0	0	7,401	0	0	0
Skykomish	Skykomish	20,467	336	18,837,000	104	0	20,363	336
Sunset Falls	Sunset Falls	18,265	935	0	18,265	935	0	0
Issaquah	Issaquah	1,598	12,625	1,443,550	221	0	1,377	12,625
Green River	Soos Creek	13,671	50	8,100,000	3,340	8	10,331	42
	Wild	100	0	47,000	20	0	80	0
Minter Creek	Minter Creek	22,170	4,305	12,329,000	2,000	0	20,170	4,305
Garrison Springs	Chambers Creek	1,939	727	34,000	1,775	716	164	11
Puyallup	Voights Creek	52,465	7,837	13,771,500	698	130	51,767	7,707
George Adams	George Adams	2,664	778	1,256,800	0	0	2,664	778
	Baker	68	38	0	0	0	68	38
Hood Canal	Baker	782	61	194,000	0	0	782	61
Dungeness	Dungeness	1,590	40	1,265,000	0	0	1,590	40
Elwha Channel	Elwha	250	2	300,000	49	0	201	2
SUBTOTAL		163,848	39,083	67,202,350	41,284	2,539	122,564	36,544

¹ Formerly Bellingham Maritime Heritage Technical College.

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Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
COASTAL REGION								
Soleduck	Summer	15,376	1,176	282,000	0	0	15,376	1,176
	Fall	458	2,540	470,000	0	0	458	2,540
	Clearwater	3,028	0	0	0	0	3,028	0
	Queets	485	0	0	0	0	485	0
Shale Creek	Shale Creek	118	88	0	117	1	1	87
	Upper Clearwater	84	0	52,200	0	0	84	0
	Lower Clearwater	110	0	97,200	0	0	110	0
	Queets	208	0	143,600	0	0	208	0
Humptulips	Humptulips	3,265	2,313	2,920,000	0	0	3,265	2,313
	Late	145	0	227,500	0	0	145	0
Simpson	Simpson	3,520	315	4,676,500	627	15	2,893	300
	Late	2,284	3	934,000	1,685	0	599	3
Satsop Springs	Satsop	1,313	183	1,764,200	40	7	1,273	176
Willapa	Willapa	2,996	202	953,700	706	0	2,290	202
	Late	372	0	237,200	198	0	174	0
Nemah	Nemah	1,935	39	1,142,000	54	1	1,881	38
Naselle	Naselle	9,856	1,430	4,460,000	0	0	9,856	1,430
	Late	284	3	310,000	36	0	248	3
SUBTOTAL		45,837	8,292	18,670,100	3,463	24	42,374	8,268

1 Eggtake shipped to Simpson Hatchery

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Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
COLUMBIA RIVER REGION								
Grays River	Type S	217	9	119,000	53	4	164	5
Sea Resources	Sea Resources	5	0	0	4	0	1	0
Elokomin	Type S	160	220	127,500	0	0	160	220
	Type N	1,560	134	782,500	476	0	1,084	134
Cowlitz	Type N	14,780	3,511	9,067,000	6,077	2,995	8,703	516
Toutle	Type S	1,328	1,469	1,029,000	152	539	1,176	930
Kalama Falls	Type N	705	170	426,000	0	10	705	160
Lower Kalama	Type S	309	165	234,000	10	0	299	165
Lewis River	Type S	4,369	422	322,000	516	0	3,853	422
	Type N	17,368	4,478	11,067,000	622	0	16,746	4,478
Speelyai	Lewis River (S)	0	0	2,197,800	0	0	0	0
Washougai	Type N	6,252	282	3,485,000	40	0	6,212	282
SUBTOTAL		47,053	10,860	28,856,800	7,950	3,548	39,103	7,312
TOTAL ESCAPEMENT		256,738	58,235	114,729,250	52,697	6,111	204,041	52,124

1 Upstream numbers include 40 A & 6 J sent downstream when the trap was closed; assumed to have returned upstream.

2 Total Lewis River escapement includes 1922 A & 17 J shipped to Speelyai to be spawned. Eggtake is listed under Speelyai.

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Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
PUGET SOUND REGION								
Nooksack	Nooksack	93	0	103,600	0	0	93	0
Whatcom Creek	Whatcom	10,374	0	4,015,000	360	0	10,014	0
Samish	Samish	3,641	0	790,500	2,776	0	865	0
Baker River Trap	Baker River	87	0	0	87	0	0	0
Sunset Falls	Sunset Falls	109	0	0	109	0	0	0
Green River	Soos Creek	336	0	0	336	0	0	0
Minter Creek	Minter Creek	7,014	0	6,162,000	2,000	0	5,014	0
Coulter Creek	Early	1	4,179	0	4,179	0	0	0
	Late	1	910	0	910	0	0	0
Garrison Springs	Garrison	2,348	0	457,000	2,089	0	259	0
Deschutes Falls Park	Percival	68	0	0	0	0	68	0
George Adams	George Adams	21,231	0	10,049,000	0	0	21,231	0
McKernan	McKernan	20,150	0	10,742,000	0	0	20,150	0
Hood Canal	Hood Canal	90,785	0	27,089,000	300	0	90,485	0
SUBTOTAL		161,325	0	59,408,100	13,146	0	148,179	0
COASTAL REGION								
Nemah	Nemah	14,694	0	926,500	12,108	0	2,586	0
Naselle	Naselle	950	0	0	885	0	65	0
SUBTOTAL		15,644	0	926,500	12,993	0	2,651	0
COLUMBIA RIVER REGION								
Sea Resources	Sea Resources	942	0	943,500	6	0	936	0
TOTAL ESCAPEMENT		177,911	0	61,278,100	26,518	0	151,393	0

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SOCKEYE

Hatchery	Stock	Total Escapement			Upstream		Escapement Less Upstream	
		Adults	Jacks	Eggtake	Adults	Jacks	Adults	Jacks
PUGET SOUND REGION								
Baker River Trap	Baker River	2,443	0	0	2,443	0	0	0
Sunset Falls	Sunset Falls	12	0	0	12	0	0	0
Cedar River	Cedar River	1,123	0	2,630,000	0	0	1,123	0
Issaquah	Issaquah	1,750	0	0	1,742	0	8	0
Garrison Springs	Chambers Creek	8	1	0	8	1	0	0
SUBTOTAL		5,336	1	2,630,000	4,205	1	1,131	0
COLUMBIA RIVER REGION								
Lake Wenatchee	Lake Wenatchee	1,259	0	365,900	916	0	343	0
TOTAL ESCAPEMENT		6,595	1	2,995,900	5,121	1	1,474	0

1 Totals include females only. All males live spawned and released.