

Columbia River Fisheries Project

MAJOR DAMS ON COLUMBIA RIVER
AND TRIBUTARIES

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For The Pacific Northwest Regional Commission

July 1976

The descriptive data in this list of dams is based on readily available sources. Exhaustive research has not been justified. The data are not complete and they have not been checked for accuracy.

<u>NAME</u>	<u>DATE</u>	<u>RIVER</u>	<u>MILES ABOVE MOUTH</u>	<u>MAIN STEM MILES BLOCKED</u>	<u>HEIGHT FEET</u>	<u>GROSS HEAD FEET</u>	<u>STORAGE ACRE FEET</u>	<u>POOL LENGTH MILES</u>	<u>REMARKS</u>
Agency Valley (Beulah Dam)	1935	No. Fork Malheur				77	60,000	3	spg, sum, fall ch; & S.H.
Arrowrock	1915	Boise	76	12	253	111	286,000	17	spg, sum ch; S.H.
Barber Dam	?	Boise	54	34	21				spg, sum ch, S.H. blocked
Big Cliff	1954	North Santiam	48	15		97	Pondage		
Black Canyon	1924	Payette	41	31		277	425,060		spg, sum ch; S.H.; B.B.
Bliss	1950	Snake	560		120	70	1,000		Above Swan Falls Dam
Bonneville	1938	Columbia	145		197	59	Pondage	45	
Brownlee	1958	Snake	285		395	272	1,470,000	57	No passage spg, sum, fall ch., S.H.
Bully Creek	1963	Bully (Malheur)			100		30,600	2(?)	Runs nearly extinct prior to dam due to irrigation and Snake dams.
Bull Run	1912	Bull Run Sandy	17			326	Pondage		
Bull Run Municipal Water			6		40				No passage - little anadromous fish use above dam sites.

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Bumping	1910	Bumping			45				Flow problems Spg ch & SH
Cazadero	1904	Clackamas	27	53	60				Lack of fishways for 35 years prevented use of preferred upstream areas. Cazadero was laddered in 1938. When North Fork Dam was built in 1958 improved fish passage facilities were installed at these two dams and at River Mill. Present facilities and use of upriver areas believed to be responsible for increasing runs.
Chief Joseph	1955	Columbia	546		205	175	Pondage) 518,000)	561	Block:
C. J. Strike	1952	Snake	492		132	88	250,000	32	Above Swan Falls
Cle Elum	1933 (1905)	Cle Elum Yakima	8	25	135				Crib Dam constructed 1905 Blocked Spg ch, SH, BB
Conconully	1916	Salmon Okanogan	16	9					Total Barrier Ch blocked; few SH blocked.
Condit	1913	Big White) Salmon)		38	125		1,081) Pondage)	2	No fishways - early fishways inadequate. Spg & fall ch, coho, SH all blocked.

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Cottage Grove	1942	Coast Fork Willamette	29	10	95				Spg ch blocked; 75 mile tributary blocked above dam
Cottrell	Years Ago	Washougal	6	12	?				Removed by Game & Fish in 40's (?)
Cougar	1964	South Fork McKenzie	4½	26		434	154,000 (Pondage)	7	SP ch 138 miles of tributaries
Crane Creek	?	Crane Weiser			High				?
Dee Dam	1925	Hood	14						Fall ch; SH. Now partially removed. Velocity barrier sometimes. Above Powerdale.
Detroit	1953	North Santiam	50			358	323,000		
Dexter	1955	Mid. Fork Willamette	17	65	57	57	Pondage		872 mi. Trib. blocked Re-regulates Lookout Point 60 mi blocked to spg ch. Coho, fall ch introduced and use 18 mi. below dam as do SH.
Dorena	1949	Row Willamette	195	9	115				Spg ch used lower 19 miles

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Dryden	1908	Wenatchee	17			55	Pondage		Poor fishways and passage. Coho exterminated Minor runs of spg ch, SH, BB, and summer ch
Dworshak	1971	North Fork Clearwater	2						627 stream miles lost spg ch and SH blocked
Easton	1929	Yakima	186	12	60				Poor ladders and passage Spg ch, coho, SH & BB, all affected
Ellensburg Water Co.		Yakima	144	54	4				Impassible at low water
Fern Ridge		Long Tom	26	40 - 50	30 ±				Low summer flows and drop structures
Foster	1966	South Fork Santiam	38			113	Pondage		SH & spg ch use 64 miles. Introduced coho use 64 mi. Fishways on dam. Recycling problem on SH
Finley	1847	Calapooya	44	26	10				Blocked SH, spg ch till 1949
Grand Coulee	1941	Columbia	597			343	5,232,000)? or 9,402,000)?	151	Spg, sum, fall ch, coho, BB and SH blocked

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(Grangeville) Wash. Water Power Company Dam	1908	So. Fork Clearwater	20	42	60	Pondage			Spg, sum ch; SH. Dam removed in 1963. A wooden fish ladder had been in place from 1935 - 1949, but was destroyed in 1949. No passage from 1949 - 1963.
Green Peter	1966	Middle Santiam	6		305	333,000			Above Foster - see Foster
Hells Canyon	1967	Snake	247		208	Pondage			Fish runs were progressively pushed further downstream by construction of Brownlee, Oxbow, Hells Canyon in 1958, 1961, 1967, respectively. Chinook and SH blocked.
Horn Rapids (Richland)		Yakima	18		5-6'				Inefficient ladders and insufficient flows. Chinook, SH, coho, & BB in early days.
Horseshoe Bend		Payette							See "Black Canyon Dam"
Ice Harbor	1961	Snake	10		186	417,000	32		Fishways
John Day	1967	Columbia	216		104	Pondage			Fishways
Kachess	1912 (1905)	Kachess	1½	10	63				Crib dam built in 1905. BB and SH blocked.

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Keecheelus	1917 (1906)	Yakima	198	Lake	70				Crib dam built in 1906. BB and SH blocked.
Leaburg	1929	McKenzie	35	47	90				Fishways - Downstream passage and flow problems. Sp ch & SH
Lewiston	1927	Clearwater	4	75 + south and middle forks	35		pondage		SH run reduced. Spg ch run destroyed. Fishways improved 1940 & 1964. Dam removed in 1972.
Little Falls	1909 -10	Spokane	32		60-70	71	Pondage		No fishways. Total block. ch, coho, SH destroyed.
Little Goose	1968	Snake	70		98		Pondage		Fishways
Long Lake See "Little Falls"	1915	Spokane	36		37		253,000	22	Four miles above Little Falls dam. By 1918 ch, coho and SH runs had practically disap- peared.
Lookout Point (See Dexter)	1954	Mid. Fork Willamette	21		233		336,500		See information on Dexter Dam
Lower Granite	1969	Snake	107		97		Pondage		Fishways
Lower Monumental	1967	Snake	42		100		Pondage		Fishways

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Lower Salmon	1910	Snake	573		88	59	Pondage		Upper limit of migration for fall ch; probably for other species too.
Lumber Mill Dam	Years Ago	Wenatchee	At Leavenworth						Removed in 1933 or 1934. Poor passage. ch, coho, BB & SH affected.
Marmot		Sandy	27	18	30				Dam & diversion problems. Spg ch, coho, SH affected. Fall ch range increased.
Mayfield	1963	Cowlitz	50	80	235	185	127,000		Spg & fall ch, coho, SH blocked. No downstream passage.
Mckay	1926 (Trib. Umatilla)	Mckay	6	50	100+			2	SH blocked
McNary	1953	Columbia	292		183	86	1,345,000		Fishways
McKenzie Dam McKenzie Dam		(Smith Blue)							See page 55
Merwin	1931	North Lewis	20	55	313	162	650,000	12	No fishways - elevator collection inadequate. No downstream facilities. Spg & fall ch, coho, and SH blocked.

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Nine Mile Falls (See Little Falls)	1909	Spokane	46		60				Built same year as Little Falls Dam which is 19 miles downstream. These dams destroyed the ch, coho and SH runs
North Fork	1958	Clackamas	31			135	Pondage		River Mill and Cazadero Dams, constructed in early 1900's, had an adverse effect on runs. Lack of fishway at Cazadero for 35 years prevented use of preferred areas. Cazadero was laddered in 1938. When North Fork Dam was built in 1958, improved fish passage facilities were installed at all three dams.
Ochoco	1930's				110				
Oliver, B.C. Dam (Vaseaux ?) See Vaseaux Correct name is McIntyre Dam	?	Okanogan	8 miles above Oliver, B.C.						Block to BB. This is probably "Vaseaux"
Owyhee	1932	Owyhee	26	200±	330			23	Spg & sum ch & SH runs depleted by flows, diversions, etc., probably before Owyhee Dam was built.
Oxbow	1961	Snake	273		205	122	52,500	12	Ineffective passage decimated runs of fall, spg & sum ch & SH. See Hell's Canyon

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Pelton	1957	Deschutes	101	35	204	155			Spg ch, BB & SH affected. 40 mi main stem plus tribs formerly used blocked by dam.
Priest Rapids	1959	Columbia	397		180	84	200,000	18	Fishways
Prineville	1960-61 ?	Crooked							Runs of ch & SH depleted by flows & diversions, probably prior to Prineville Dam.
Prosser		Yakima	45		8				Laddered in 1930 by Fish. Dept. Presently has inefficient ladder & insufficient flows. Spg, sum, fall ch, coho & SH affected and reduced.
Pomona	Years Ago	Yakima	106						Dam out of use early in the century; reports are that this dam, along with Sunnyside, were important factors in the early decrease of salmonid runs in the Yakima.
Power Dam (Same as Grangeville or Wash. Water Power Co. Dam)	?	So. Fork Clearwater	20	42					SH and spg, sum ch. Dam removed in 1963. Wooden ladder from 1935-1949. No passage from 1949-1963.
Power Dam	?	Similkameen			65				A few SH & ch involved.

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Powerdale	1923	Hood	4		30				Flow fluctuations have adverse effect.
Rim Rock	1925	Tieton (Yakima)	22		220				Runs of spg ch & SH greatly reduced - diversion and low dams responsible even if Rim Rock had not been built.
River Mill	1910	Clackamas	24		110	82	Pondage		See "Remarks" on page b, under Cazadero Dam
Riverside - See Warm Springs									
Rocky Reach	1961	Columbia	474		123	93	390,000	42	Fishways
Rock Island	1933	Columbia	453		100	51	4,500	21	Fishways
Roza	1940	Yakima	115	83	67	↑40' after Wapapum built			Inefficient ladders and insufficient flows. Ch, coho, BB and SH all affected and reduced.
Scoggins Creek	1974-75	Scoggins (Trib. Tualatin)	5	20	70				Fish trap built. SH & coho blocked
Sunnyside	1907	Yakima	88	110	8				Inefficient ladders and insufficient flows. Sp ch, BB & SH affected and runs reduced.

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Sunbeam	1913	Salmon							Blocked BB; later removed.
Swan Falls	1910	Snake	456		30	24	Pondage	8	Spg & sum ch & SH and fall ch. Poor fishway - improved in 1940. Runs exterminated.
Suttle Lake	Before 1930	Metolius		Lake	Low				1.2 m. power dam and stationary upright screen blocked BB runs prior to 1930.
The Dalles	1957	Columbia	192		260	86	330,000		Fishways
Thompson Diversion		Calapooia	24						Flow problems
Thief Valley	1932	Powder	52		70				Spg, sum ch & SH blocked. Not much spawning area above dam. Flows poor.
Tumwater (See Dryden)	1905-09	Wenatchee	30		23				Spg, sum ch had passage problems. Coho exterminated. BB reduced, later improved. SH passage okay. Poor fishways and passage in early days and still today.
Unity	1937	Burnt	78	65	76		25,000		Irrigation greatly reduced runs of ch & SH prior to Unity. Unity a total block.

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Vaseaux	1921	Okanogan	95(?)		6				Reportedly once had a fishway which was always dry or inoperative. Blocked BB to Okanogan & Skaha Lakes.
Wallowa	1929	Wallowa	55	Lake					Wallowa Lake supported fair size runs of BB before 1900. Already depleted run finished off in 1929 when 12 m. dam was constructed at Lake outlet. Spg & sum ch, coho & SH also affected.
Manapum	1963	Columbia	415		170	80	600,000	38	Fishways
Wapato	1917	Yakima	91	107	9				First laddered in 1930. Inefficient ladders & insufficient flows. Spg ch & SH & coho affected.
Wapato Drop #2	1942	Yakima							
Wapato Drop #3	1932	Yakima							
Warm Springs (Riverside)	1919	Malheur				79	192,400	8	Large runs of ch & SH in the early days. Numerous dams and diversions obstructed fish passage. This dam is a total barrier.
Wash. Water Power Co. Dam		Clearwater							See Grangeville Dam

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Wash. Water Power Co. Dam	1915	Methow	Mouth						Total block, but dam removed by 1930. At this time ch exterminated, coho nearly disappeared & SH run very small. Some improvement in spg & Sum ch and SH since 1930's.
Wells	1968	Columbia	516			71	Pondage		Fishways
Wenas	?	Wenas	12	18	60				Total block. Ch & SH runs affected by flows also. Runs exterminated.
Willow Creek #3	1912-13	Willow (MaTheur)	41	20	100				