ANNUAL FISH PASSAGE REPORT

COLUMBIA RIVER PROJECTS

BONNEVILLE **JOHN DAY**
THE DALLES **McNARY**

SNAKE RIVER PROJECTS

ICE HARBOR
LOWER MONUMENTAL
LITTLE GOOSE
LOWER GRANITE

OREGON AND WASHINGTON

1975

396

NORTH PACIFIC DIVISION
Corps of Engineers
Prepared by
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Portland and Walla Walla

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ANNUAL FISH PASSAGE REPORT
COLUMBIA AND SNAKE RIVER PROJECTS
CALENDAR YEAR 1975

BONNEVILLE DAM

Salmon Passage

1 A total of 627,945 salmonids and 264,246 shad were counted at Bonneville Dam in 1975 The most salmon recorded in one day were 25,871 on 7 September, 23,326 of these were chinook, 1,976 were coho, and 567 were steelhead

2 A brief summary of salmonid counts is shown below Comparative figures for other main stem projects are shown in Table 1

Species	1975 Count	38-Year Average
Spring Run Chinook	104,104	94,647
Summer Run Chinook	44,351	62,395
Fall Run Chinook	277,111	200,418
Chinook (Jacks)	75,246	46,804
Sockeye	58,212	93,666
Chum	11	1,002
Pink	309	32
Steelhead	85,540	142,005
Coho (Total)	58,307	26,357
Coho (Jacks)	25,535	25,842*

* 10-Year Average

Bonneville Dam

Miscellaneous Species

3 Miscellaneous species other than shad were disregarded in the 1975 fish counts The maximum daily total of shad at Bonneville was 22,974 on 9 July

Sturgeon

4 4 sturgeon were observed passing upstream through the Bradford Island counting station and 2 were observed passing downstream 2 passed upstream through the Washington Ladder counting station

Bonneville 1975 Fish Counting Schedule

1 January - 14 March	No counting Gates open at all times.
15 March - 31 March	Two counters on duty 0800 to 1600 Standard Time Gates open and 1.2 factor applied to actual counts to compensate for rest periods
1 April - 31 October	Two counters on duty for two 8-hour shifts from 0500 to 2100. Gates open at all times during counting season A 1 2 factor was applied to counts to compensate for hourly 10 minute breaks
1 November - 15 November	Two counters on duty 0800 to 1600 Gates open at all times, and 1 2 factor applied to actual counts
16 November - 31 December	No counting. Gates open at all times

Fishway 1975 In-Service Periods

Bradford Island Ladder	1 January through 31 December "A" Branch 1 January through 5 January 26 March through 31 December "B" Branch 7 January through 31 December
Washington Ladder	1 January through 3 November

Bonneville Dam

Fishway Activities

5 The powerhouse collection channel at generator bays 6-10 was unwatered from the first of the year through 25 March to replace wooden diffuser gratings with steel ones A section of the channel at bays 1-5 was unwatered for the same purpose on 15 November through 31 December

6 The Washington Shore ladder was unwatered on 3 November to allow a seepage wall for the Bonneville second powerhouse construction to be installed, and for annual maintenance

7 The Bradford Island "A" Branch ladder was unwatered from 6 January through 25 March to install a large fish trap in the ladder The following modifications were made on 11 April to submerge the entrance of the traps' steeppass ladder The height of weir 44 was raised 10 5/8", weir 43 was raised 5 5/8", and weir 42 was raised 1 5/8"

8 The National Marine Fisheries Service was in charge of the "A" Branch trap evaluation This was done on an alternating trap in or out basis with the condition changing once daily at 1300, for a total of 24 days in the spring run, 12 days in the summer run and 20 days in the fall run The study involved two daily 8-hour periods of counting fish over weir 42 Summer run trapped fish were tagged by the Oregon Department of Fish and Wildlife as part of peaking studies The fall run fish were tagged as part of the trap evaluation

Bonneville Dam

Fishway Activities (Continued)

9 The Fisheries-Engineering Research Laboratory at the Bonneville Dam North Shore was watered up form 31 March through 3 November The facility was used by the Oregon Department of Fish and Wildlife and the National Marine Fisheries Service to trap and tag a total of 14,574 chinook and 4,106 steelhead in 7,036 5 hours of trapping time

10 The powerhouse fish collection system study moved to Bonneville Dam from The Dalles Dam after its second field season there Installation of electronic fish detection equipment began on 11 December and continued into 1976 This equipment is used to detect and count fish as they enter the various entrances of the collection system

THE DALLES DAM

Fish Passage

11. The Dalles Dam fish counters recorded 332,132 salmonids and 438,162 shad in 1975 The maximum number of salmon in any one day was 8,679 on 7 September, of these 7,633 were chinook, 528 steelhead, and 517 coho.

12 Miscellaneous species except squawfish and the 438,162 shad were disregarded in the fish counts of 1975 The greatest number of shad in one day occurred on 8 July when 27,816 were tabulated

13 Squawfish were counted this year at the request of the National Marine Fisheries Service to support a predator study 22,630 squawfish were counted

The Dalles Dam 1975 Fish Counting Schedule

1 January - 31 March	No counting Gates open
1 April - 31 October	Two counters on duty 16 hours daily Gates remained open at all times A 1 2 factor was applied because fish were counted for 50 minutes then a rest break for 10 minutes every hour
1 November - 31 December	No counting Gates open

Fishway 1975 In-Service Periods

North Ladder	1 January - 8 April 9 April - 31 December
East Ladder	16 January - 31 December

The Dalles Dam

Fishway Activities

14 The North Fishway was not unwatered during the winter period and this caused an outage on 8 April at 1054 until 1100 on 9 April to clean out debris around picketed leads at the counting station.

15 The East Fish Ladder was unwatered from 1 January 1975 until 16 January 1975 A baffle was installed in the corner of the fish ladder just below the counting station picketed leads because the water flow had an upwelling in this corner which appeared to confuse fish and caused them to jump and strike the wall This appears to have eliminated this problem and a more permanent installation will be made during the annual inspection in 1977

16 The powerhouse fish collection system study continued at The Dalles Dam for a second field season Electronic fish detection tunnels were mounted over the twenty-five submerged collection system orifices Frames supporting six tunnels each were installed just below the junction pool in channels, one of which terminates at the south spillway entrance, another comes from the west entrance and collection system orifices, and the third ends at the east entrance This entire system was operated from 24 March through 26 September

17 The powerhouse fish collection system was maintained with 2 fish turbine generators operating from 1 March through 30 November Except Unit F-2 developed a water leak into the thrust searing oil reservoir These outages were for a total of 38 8 hours On October 10 both units F-1 and F-2 were shut down for less than 2 hours each

Fishway Activities (Continued)

to clean the field circuit collector rings The electrical foreman was concerned that there might be a flash over and take a unit out of service for a long period of time

18 Upon recommendation of the District Biologist based upon data from the powerhouse collection system studies, eight of the twenty-five orifices will be closed Diffusion valves have been reregulated Additional entrances at the south and east ends were opened. One entrance at the west end was closed and the cul-de-sac entrance was closed This should provide a better distribution of water available for fish attraction

JOHN DAY DAM

Fish Passage

19 Fish counted at John Day Dam in 1975 included 248,809 salmonids and 196,199 shad. The greatest tabulation of salmonids for one day was 5,895 on 6 July, and was comprised of 869 chinook, 68 steelhead and 4,958 sockeye The maximum daily count of shad was 21,048 on 10 July.

20 As requested by the National Marine Fisheries Service squawfish were counted 44,246 were counted over John Day Dam

John Day Dam Fish Counting Schedule

1 January - 31 March	No counting Gates open
1 April - 31 October	Two counters on duty, counting 16 hours daily Gates were open at all times A 1 2 factor was applied because fish were counted for 50 minutes then a rest break for 10 minutes every hour
1 November - 31 December	No counting Gates open

Fishway 1975 In-Service Periods

North Ladder	1 January - 31 December *
South Ladder	1 January - 2 December
	*A 4 8 hour outage for maintenance occurred on 16 July

Fishway Activities

21 Neither the north or south fishway were unwatered during the winter months of 1974-75 (December-January-February) On 16 July, for 4.8 hours, the north fishway was unwatered to install a bulkhead in the upper ladder diffuser (No 9) to repair the diffuser-gate stem

Fishway Activities

22 The south fishladder was unwatered on 2 December for an extended period to work on the powerhouse pump-turbines and repair screens in the diffuser section of the SE-1 entrance About 1000 aluminum bolts, used to hold down the diffuser grates, were replaced with stainless steel bolts

23 All pumps and turbine pumps were available during the entire counting season except north fishway pump No 1 which went out-of-service on 2 October to replace the reduction gears

McNARY DAM

Fish Passage

A total of 202,931 salmonids were counted over McNary Dam in 1975 The greatest number of salmonids for any day was 4,405 on 14 September, of this number 3,593 were chinook, 574 were coho, and 238 were steelhead

A total of 107,583 shad were counted in 1975 The greatest number of shad counted in one day was 4,566 on 16 July Squawfish were also counted in 1975 at the request of National Marine Fisheries Service

McNary Fish Counting Schedule

1 January - 7 January	Gates open on Oregon Ladder, Washington Ladder unwatered for completion of counting house construction No counting
7 January - 27 January	Both Washington and Oregon Ladders placed in operation, gates open No counting
27 January - 3 February	Gates open on Washington Ladder, Oregon Ladder unwatered to remove obstructions to fish passage and to modify counting board No counting
3 February - 31 March	Both Washington and Oregon Ladders in operation, gates open No counting
1 April - 31 October	Both ladders in operation Counting on two 8-hour shifts, full count 0400 to 2000 hours Standard Time Counting by closed circuit color television
1 November - 31 December	Both Washington and Oregon Ladders in operation, gates open No counting

Fishway In-Service Periods

Washington Ladder	7 January - 31 December
Oregon Ladder	1 January - 27 January 3 February - 31 December

Fishway Activities

Two 8-hour counting shifts were conducted each day throughout the normal fish counting season One fish counter using closed circuit color television was capable of counting fish passage at both ladders except during periods of high fish passage At such times, two counters were employed, each counting one fish ladder, to ensure accurate counts

The Washington Ladder was out of service from 1 January through 7 January for completion of a new submerged window counting station. The Oregon Ladder was out of service from 27 January through 3 February for removal of obstructions and for modification of the counting board

ICE HARBOR

Fish Passage

A total of 49,706 salmonids were counted over Ice Harbor Dam in 1975 The greatest number of salmonids in any one day was 1,324 on 19 May, of this number 1,306 were chinook and 18 were steelhead A total of 3,483 shad were counted Squawfish were counted in 1975 at the request of National Marine Fisheries Service

Ice Harbor Fish Counting Schedule

1 January - 4 March	Gates open on the south ladder, north ladder unwatered for construction of new fish counting station No counting
4 March - 12 March	Both ladders in service, gates open No counting
13 March	Both ladders in service, gates open No counting
14 March - 1 April	Both ladders in service, gates open No counting
1 April - 14 April	Both ladders in service, gates open Two 8-hour shifts of counting on south ladder only, full count 0400 - 2000 hours Standard Time No counting on north ladder, contractor completing counting station
15 April - 31 October	Two 8-hour shifts of counting on both ladders, 0400 - 2000 hours Standard Time Gates open at all times
1 November - 2 November	Gates open on both ladders No counting
3 November - 31 December	Gates open on north ladder, south ladder out of service for construction of new fish counting station No counting.

Fishway 1975 In-Service Periods /

North Ladder	5 March - 31 December
South Ladder	1 January - 12 March
South Ladder	14 March - 3 November

Fishway Activities

Two 8-hour counting shifts were counted each day from 1 April to 14 April on the south shore ladder and on both ladders from 15 April to 31 October The north ladder was unwatered from 1 January to 4 March for modification of the counting station, and construction activities continued until 15 April with the ladder in service.

The south shore ladder was unwatered on 13 March for cleaning and from 3 November through 31 December for construction of a new fish counting station

LOWER MONUMENTAL

Fish Passage

A total of 51,094 salmonids and 161 shad were counted over Lower Monumental Dam in 1975 The greatest number of salmonids in any one day was 1,261 on 20 May, of this number there were 1,252 chinook and 9 steelhead Squawfish were also counted in 1975 at the request of the National Marine Fisheries Service

Lower Monumental Fish Counting Schedule

1 January - 31 March	Both ladders in service, gates open No counting
1 April - 31 October	Both ladders in service, two 8-hour counting shifts per day 0400 - 2000 hours Standard Time, both ladders counted by one counter with closed circuit color television
1 November - 16 November	Both ladders in service, gates open No counting.
17 November - 31 December	South ladder out of service for repair, north ladder in service, gates open No counting

Fishway 1975 In-Service Periods

North Ladder	1 January - 31 December
South Ladder	1 January - 16 November

Fishway Activities

Two 8-hour counting shifts were conducted each day throughout the normal fish counting season One counter was used to count passage at both ladders by use of closed circuit color television

The south ladder was out of service from 16 November through 31 December for repair of fish ladder support struts

LITTLE GOOSE

Fish Passage

A total of 43,055 salmonids were counted over Little Goose Dam in 1975 The greatest number of salmonids on any one day was 1,316 on 20 May, of this number 1,310 were chinook and 6 were steelhead No shad were counted Squawfish were counted at the request of National Marine Fisheries Service

Little Goose Fish Counting Schedule

1 January - 31 March	Ladder in operation, gates open Single-shift count 0800 - 1600 Standard Time from 2 January through 30 March
1 April - 31 October	Ladder in operation, gates open Two 8-hour shifts full count 0400 - 2000 hours Standard Time daily
1 November - 31 December	Ladder in operation, gates open From 5 November through 13 November, only the south shore entrance was in service From 13 November through 31 December, the south shore entrance and floating orifice entrances in Units 1 through 4 were in service The collection conduit and entrances north of the powerhouse were out of service

Fishway 1975 In-Service Periods

The fish ladder was in service for the entire year, but portions of the fish collection system were out of service from 5 November through 31 December for construction activities on Units 4, 5, and 6

Fishway Activities

Two 8-hour counting shifts were conducted each day during the normal fish counting season One 8-hour counting shift was conducted each day from 2 January through 30 March Counts were not conducted on 1 January because of the holiday nor on 31 March because of the fish counter training school held that day.

LOWER GRANITE

Fish Passage

A total of 46,901 salmonids and 1 shad were counted over Lower Granite Dam in 1975 The greatest number of salmonids in any one day was 1,914 on 27 May, of this number there were 1,894 chinook and 20 steelhead Squawfish were counted at the request of National Marine Fisheries Service

Lower Granite Fish Counting Schedule

1 January - 17 February	Fish ladder out of service
19 February - 31 December	Fish ladder in service, gates open Counts conducted 8-hours per day 19 February to 30 March, 16-hours per day 1 April through 31 October, and 8-hours per day 1 November through 31 December. Additional counts, 16 hours per day, were conducted at a temporary counting station from 11 July through 31 October Eight hour counts were conducted from 0800 - 1600 Standard Time, and 16 hour counts were conducted from 0400 - 2000 Standard Time

Fishway 1975 In-Service Periods

The fish ladder was in service from 17 February through 31 December, but portions of the ladder were out of service on 12 and 13 June and from 1 July through 10 July for installation of a temporary fish counting station at the north end of the powerhouse

Fishway Activities

Two 8-hour counting shifts were conducted each day during the normal fish counting season One 8-hour counting shift was conducted each day from 19 February through 30 March and 1 November through 31 December Counts were not conducted on 25 November and 25 December because of holidays nor on 31 March because of the fish counter training school held that day

TABLE 1
FISH ESCAPEMENT AT MAIN STEM DAMS
COLUMBIA & SNAKE RIVERS 1971 TO 1975

SPECIES	BONNEVILLE	THE DALLES	JOHN DAY	McNARY	ICE HARBOR	LOWER MONUMENTAL	LITTLE GOOSE	PRIEST RAPIDS	ROCKY REACH	LOWER GRANITE
1971										
CHINOOK*	405 702	250 528	193 881	171 448	70 248	68 885	61 402	36 163	15 263	
Spring*	125 517	73 655	56 625	42 601	32 638	30 887	28 432	6 122	1 586	
Summer*	77 911	51 847	50 010	59 129	26 606	27 795	26 830	17 696	9 217	
Fall*	202 274	125 026	87 226	69 718	11 004	10 203	6 140	12 345	4 460	
Jacks	76 962	75 329	61 380	37 453	8 556	13 320	13 543	7 202	6 628	
STEELHEAD	193 966	151 348	115 977	109 630	67 029	70 114	70 013	11 103	5 330	
SOCKEYE	87 477	76 103	72 232	52 867	532	808	891	73 851	49 852	
COHO*	75 989	29 061	40 830	39 358	2 969	2 171	2 701	7 763	224	
Adults	53 817	17 887	23 245	9 919	1 628	1 413	1 738	6 902	224	
Jacks	22 172	11 174	17 585	29 439	1 341	758	963	841	-	
SHAD	169 567	187 5[illegible]9	104 034	41 845	134	2	0	1 458	0	
1972										
CHINOOK*	394 456	268 628	225 631	168 821	82 632	72 220	64 211	32 639	15 323	
Spring*	186 140	103 107	71 569	69 023	50 350	44 322	41 400	8 775	4 683	
Summer*	70 830	48 660	44 562	50 491	22 846	22 706	20 468	16 760	5 836	
Fall*	137 486	116 861	109 520	49 307	9 436	5 192	2 343	7 104	4 801	
Jacks	58 419	81 668	82 646	22 080	6 539	6 004	5 295	6 185	3 130	
STEELHEAD	185 886	135 303	121 628	93 820	63 593	66 857	63 638	6 437	3 131	
SOCKEYE	56 323	44 671	51 793	26 422	363	415	408	44 957	34 414	
COHO*	65 852	16 562	17 533	45 635	2 522	733	799	5 293	4 833	
Adults	34 216	6 290	7 312	7 570	1 402	494	520	2 937	4 833	
Jacks	31 716	10 272	10 221	38 065	1 120	239	279	2 356	-	
SHAD	214 725	273 357	142 805	54 176	1 268	73	0	2 370	0	
1973										
CHINOOK*	398 [illegible]35	280 945	249 492	184 112	81 821	80 557	70 605	34 418	18 510	
Spring*	142 148	111 088	96 710	79 047	60 639	62 717	55 429	10 062	4 001	
Summer*	43 360	36 774	34 206	31 812	12 829	12 403	11 987	14 273	8 129	
Fall*	211 127	131 083	118 576	73 253	8 353	5 437	3 189	10 083	6 380	
Jacks	79 759	72 038	73 687	35 560	4 689	5 461	4 459	8 369	8 115	
STEELHEAD	157 853	100 082	101 440	86 620	38 311	39 530	38 820	7 006	3 526	
SOCKEYE	58 939	52 303	64 744	42 731	233	206	192	54 480	48 769	
COHO*	54 609	11 152	13 359	17 682	2 443	1 333	1 157	1 576	636	
Adults	25 849	5 896	9 132	7 733	1 760	842	773	1 346	636	
Jacks	28 760	5 256	4 227	9 949	1 183	471	384	210	0	
SHAD	519 207	781 020	419 876	318 377	11 412	4 036	27	12 594	0	
1974										
CHINOOK*	366 759	217 181	167 888	127 858	32 444	31 728	26 787	32 449	14 239	
Spring*	134 515	56 397	46 191	40 037	19 361	18 442	17 243	11 127	4 171	
Summer*	45 896	30 273	25 865	25 812	10 269	10 266	8 252	13 703	7 287	
Fall*	186 328	130 511	95 832	62 009	2 814	3 020	1 292	7 619	2 781	
Jacks	78 349	79 840	61 669	34 465	2 279	3 445	2 829	3 647	3 409	
STEELHEAD	137 034	70 875	43 756	26 932	12 528	15 139	14 784	3 090	1 037	
SOCKEYE	43 830	28 827	33 121	26 505	204	114	124	35 434	19 848	
COHO*	60 955	14 655	14 651	13 746	1 334	812	532	1 781	10 756	
Adults	31 605	5 801	6 238	5 076	575	519	289	1 163	10 756	
Jacks	29 350	9 054	8 413	8 670	759	293	243	618	0	
SHAD	98 945	315 392	141 066	58 043	603	214	1	8 028	0	
1975										
CHINOOK*	425 556	217 283	159 079	133 150	31 686	33 013	26 960	43 740	22 157	28 460
Spring*	104 194	57 483	37 716	32 716	21 401	21 396	18 426	8 170	3 302	17 639
Summer*	44 351	39 062	32 179	31 713	7 727	8 562	6 939	22 205	14 289	8 576
Fall*	277 111	125 738	89 184	68 719	2 558	3 053	1 605	13 365	6 566	2 245
Jacks	75 266	74 418	62 403	49 797	2 402	3 513	2 388	12 840	9 862	3 680
STEELHEAD	85 540	57 675	32 651	22 663	16 218	17 363	15 225	2 462	1 061	17 311
SOCKEYE	8 212	43 198	50 774	43 143	243	146	173	55 209	24 425	209
COHO*	58 307	13 976	6 305	3 975	1 559	572	697	2 193	5 784	921
Adults	32 772	5 442	3 150	1 986	709	321	402	379	5 784	449
Jacks	25 535	8 534	3 155	2 156	850	251	295	1 814	0	472
SHAD	264 246	438 162	196 199	107 583	3 483	161	0	7 025	0	1
Assumed Dates for Chinook Runs										
Spring	15 Mar** - 31 May	1 Apr 3 June	1 Apr - 5 June	1 Apr - 8 June	1 Apr** 11 June	1 Apr** 13 June	1 Jan** 15 June	1 May** 13 June	1 May** 19 June	1 Apr - 17 June
Summer	1 June - 31 July	4 June - 3 Aug	6 June - 5 Aug	9 June - 8 Aug	12 June - 11 Aug	14 June - 13 Aug	16 June - 15 Aug	14 June - 13 Aug	20 June 19 Aug	18 June - 17 Aug
Fall	1 Aug - 15 Nov**	4 Aug - 31 Oct**	6 Aug - 31 Oct	9 Aug - 31 Oct**	12 Aug - 31 Oct	14 Aug - 31 Oct	16 Aug - 31 Dec	16 Aug - 26 Oct**	20 Aug - 3 Dec**	18 Aug - 31 Dec

* Includes Jack counts Fish classified as jacks are those under 22 inches in length

** 1975 only Beginning and termination of counting for previous years may vary slightly

TABLE 1

TABLE 2

YEARLY TOTALS OF SALMONID FISH COUNTED OVER BONNEVILLE DAM

1938 - 1975

Year	Chinook	Steelhead	Sockeye	Coho	Chum	Pink	Total Salmonid
1938	271,799	107,003	75,040	15,185	2,117		471,144
1939	286,189	122,032	73,382	14,383	1,168		497,154
1940	391,587	185,174	148,807	11,917	1,729		739,214
1941	461,443	118,089	65,741	17,911	5,269	4	668,457
1942	401,942	151,800	55,464	12,402	1,865	11	623,484
1943	313,123	92,133	39,845	2,547	788		448,436
1944	240,764	100,518	15,072	4,207	954	1	361,516
1945	297,478	120,133	9,501	790	728	1	428,631
1946	446,052	142,807	74,376	3,898	1,178	2	668,313
1947	480,377	135,444	171,139	11,174	199	3	798,336
1948	419,555	139,062	131,541	4,081	3,636	2	697,877
1949	277,697	119,285	51,444	1,004	2,028	6	451,464
1950	357,375	114,087	77,993	10,151	1,069	8	560,683
1951	331,788	140,689	169,428	5,201	1,044	7	648,157
1952	420,879	260,990	184,645	7,768	1,505	9	875,796
1953	332,479	223,914	235,215	13,018	1,728	10	806,364
1954	320,947	176,260	130,107	4,062	1,569	4	632,949
1955	359,853	198,411	237,748	3,725	318	9	800,064
1956	300,917	131,116	156,418	6,127	693	4	595,275
1957	403,286	139,183	82,915	4,675	569	12	630,640
1958	426,419	131,437	122,389	3,673	455	6	684,379
1959	345,028	129,026	86,560	2,695	906	22	564,237
1960	256,049	113,676	59,713	3,268	1,026		433,732
1961	281,980	139,719	17,111	3,456	896	12	443,174
1962	286,625	164,025	28,179	14,788	1,013	27	494,657
1963	278,560	129,418	60,319	12,658	739	34	481,728
1964	344,422	117,252	99,856	53,602	632	45	615,809
1965	317,957	166,453	55,125	76,032	496	64	616,127
1966	340,111	143,661	156,661	71,891	872	58	713,254
1967	366,237	121,872	144,158	96,488	352	50	729,157

TABLE 2

TABLE 2 (CONTD)

YEARLY TOTALS OF SALMONID FISH COUNTED OVER BONNEVILLE DAM

Year	Chinook	Steelhead	Sockeye	Coho	Chum	Pink	Total Salmonid
1968	341,154	106,974	108,207	63,488	79	21	619,923
1969	507,543	140,782	59,636	49,378	143	86	757,568
1970	384,780	113,510	70,762	80,116	209	150	649,527
1971	405,702	193,966	87,447	75,989	29	176	763,309
1972	394,456	185,886	56,323	65,932	1	51	702,649
1973	398,635	157,823	58,979	54,609	43	12	670,101
1974	366,759	137,054	43,837	60,955	23	2	608,630
1975	425,566	85,540	58,212	58,307	11	309	627,945
Total	13,583,513	5,396,204	3,559,295	1,001,551	38,079	1,218	23,579,860
38-Year Average	357,461	142,005	93,666	26,357	1,002	32	620,523

TABLE 2 (CONTD)

TABLE 3

MONTHLY TOTALS OF SALMONIDS AND SHAD COUNTED OVER BONNEVILLE DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK	-	-	162	48,295	55,647	16,989	27,362	37,907	234,145	4,847	212	-	425,566
STEELHEAD	-	-	1,080	4,284	4,324	6,058	30,823	28,623	9,106	904	338	-	85,540
SOCKEYE	-	-	-	-	2	17,961	40,050	192	7	-	-	-	58,212
COHO	-	-	-	-	-	-	56	5,373	39,167	11,892	1,819	-	58,307
CHUM	-	-	-	-	-	-	-	-	9	1	1	-	11
PINK	-	-	-	-	-	-	-	-	272	35	2	-	309
TOTAL SALMONID		-	1,242	52,579	59,973	41,008	98,291	72,095	282,706	17,679	2,372	-	627,945
SHAD	-	-	-	-	11	43,712	219,133	1,349	38	3	-	-	264,246

TABLE 4
WATER TEMPERATURE AND STREAM FLOW DATA
BONNEVILLE - 1975

DATE	JANUARY			FEBRUARY		
	WATER TEMP	STREAM FLOW	TURBIDITY	WATER TEMP	STREAM FLOW	TURBIDITY
1	43	100,200	6.5	39	154,700	2 8
2	43	163,800	6 5	39	162,400	3 0
3	43	159,100	6 5	39	201,100	3 1
4	43	138,300	6 3	39	186,200	3 1
5	43	136,600	6 3	39	191,900	1 3
6	43	162,300	6 ·3	39	186,300	1 6
7	43	178,800	2 9	39	179,900	1 6
8	43	169,600	3 4	38	163,600	1 8
9	42	207,200	4 8	38	139,500	2 5
10	42	190,000	4.8	38	169,800	2 6
11	42	140,800	4 8	38	207,500	2.1
12	41	130,100	4 7	39	170,500	2 2
13	40	182,200	4 7	39	179,500	2 5
14	41	197,700	4 6	40	250,000	2.7
15	41	205,800	4 7	40	218,000	1 7
16	41	200,700	4 6	39	145,300	2.0
17	41	155,800	4 6	39	208,600	3 0
18	41	137,100	5 1	38	179,000	3 4
19	42	196,900	5.1	38	206,300	3 8
20	42	161,400	5 1	38	201,200	3 5
21	42	182,700	5 1	39	214,300	3.6
22	41	200,400	5 1	40	212,700	4.0
23	41	186,700	5 1	39	166,600	4 0
24	41	158,600	5 1	40	207,800	3 6
25	41	185,800	4 8	40	199,300	3.6
26	41	215,200	4 9	40	206,000	3 4
27	41	199,800	5 1	40	195,700	3 4
28	41	171,700	5 1	40	196,600	3.2
29	40	195,100	5 1			
30	39	189,300	2 7			
31	39	207,800	3 2			

TABLE 5

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT

MARCH 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1											185,000	44,200	3.2	39.0
2											202,400	61,000	3.2	40.0
3											203,800	61,300	3.5	40.0
4											242,600	59,000	2.0	41.0
5											244,200	59,100	2.1	40.0
6											253,600	108,200	2.3	41.0
7											234,900	51,300	2.3	41.0
8											243,100	57,600	2.3	41.0
9											166,000	24,500	2.4	41.0
10											248,500	104,500	2.6	41.0
11											228,400	64,400	2.7	42.0
12											227,700	63,800	2.7	42.0
13											234,500	69,600	2.8	42.0
14											235,500	90,500	2.8	42.0
15	2	0	0	0	0	35	0	0	37	0	254,500	109,100	2.8	42.0
16	3	0	0	0	0	38	0	0	41	0	194,500	51,100	2.8	42.0
17	1	0	0	0	0	17	0	0	18	0	215,900	71,600	2.8	42.0
18	0	0	0	0	0	72	0	0	72	0	241,300	96,600	2.8	42.0
19	1	0	0	0	0	44	0	0	45	0	226,700	82,500	2.6	42.0
20	2	0	0	0	0	42	0	0	44	0	248,400	102,900	2.6	42.0
21	1	0	0	0	0	42	0	0	43	0	233,600	88,600	2.4	42.0
22	1	0	0	0	0	41	0	0	42	0	191,800	48,900	2.6	42.0
23	1	0	0	0	0	89	0	0	90	0	241,000	96,100	2.5	43.0
24	26	0	0	0	0	182	0	0	208	0	240,300	94,900	3.0	43.0
25	2	0	0	0	0	117	0	0	119	0	226,400	81,100	3.4	43.0
26	10	0	0	0	0	80	0	0	90	0	242,200	96,100	3.4	44.0
27	4	0	0	0	0	51	0	0	55	0	257,100	110,700	3.0	45.0
28	19	0	0	0	0	26	0	0	45	0	254,000	107,800	2.5	43.0
29	8	0	0	0	0	40	0	0	48	0	207,700	62,900	3.0	43.0
30	25	0	0	0	0	40	0	0	65	0	157,500	15,800	3.0	44.0
31	56	0	0	0	0	124	0	0	180	0	225,700	80,400	3.0	44.0
TOTALS	162	0	0	0	0	1,080	0	0	1,242	0				

TABLE 6

0611- 1

MONTHLY FISH PASSAGE SUMMARY REPORT — BONNEVILLE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SEECHI)	WATER TEMP (DEG F)
1	134	0	0	0	0	195	0	0	329	0	260,000	114,200	3.0	44.0
2	152	0	0	0	0	65	0	0	217	0	251,000	105,500	3.0	43.0
3	169	0	0	0	0	58	0	0	227	0	198,600	55,300	3.0	44.0
4	223	0	0	0	0	72	0	0	295	0	196,200	54,100	3.0	43.0
5	169	0	0	0	0	41	0	0	210	0	167,000	25,600	3.0	43.0
6	484	0	0	0	0	115	0	0	599	0	160,200	20,800	3.0	44.0
7	242	0	0	0	0	130	0	0	372	0	218,600	77,400	3.2	44.0
8	348	0	0	0	0	157	0	0	505	0	201,700	58,700	3.0	44.0
9	340	0	0	0	0	170	0	0	510	0	221,900	78,500	3.0	45.0
10	458	0	0	0	0	118	0	0	576	0	224,100	82,000	3.0	45.0
11	644	0	0	0	0	166	0	0	810	0	205,200	63,200	3.0	46.0
12	2,269	0	0	0	0	246	0	0	2,515	0	166,600	25,000	3.0	46.0
13	2,827	0	0	0	0	334	0	0	3,161	0	144,000	5,400	3.4	46.0
14	1,641	0	0	0	0	240	0	0	1,881	0	216,800	74,400	3.4	46.0
15	969	0	0	0	0	111	0	0	1,080	0	248,700	106,300	3.2	46.0
16	666	0	0	0	0	58	0	0	724	0	236,100	93,800	3.0	46.0
17	1,237	0	0	0	0	87	0	0	1,324	0	206,600	64,800	3.0	47.0
18	2,191	0	0	0	0	166	0	0	2,357	0	168,200	29,400	3.0	47.0
19	2,293	0	0	0	0	163	0	0	2,456	0	187,800	47,400	3.0	48.0
20	2,767	0	0	0	0	217	0	0	2,984	0	195,700	53,100	2.8	48.0
21	2,182	0	0	0	0	144	0	0	2,326	0	219,800	75,400	2.5	49.0
22	1,893	0	0	0	0	150	0	0	2,043	0	203,100	60,100	2.5	49.0
23	2,786	0	0	0	0	162	0	0	2,948	0	235,000	90,900	2.5	49.0
24	4,252	0	0	0	0	206	0	0	4,458	0	248,800	106,200	2.5	49.0
25	2,311	0	0	0	0	129	0	0	2,440	0	268,600	123,500	2.1	49.0
26	1,846	0	0	0	0	103	0	0	1,949	0	240,100	109,100	2.2	49.0
27	2,503	0	0	0	0	97	0	0	2,600	0	255,100	111,600	2.2	49.0
28	3,200	0	0	0	0	103	0	0	3,303	0	272,600	129,700	2.2	49.0
29	3,623	0	0	0	0	139	0	0	3,762	0	260,000	115,300	2.0	49.0
30	3,476	0	0	0	0	142	0	0	3,618	0	226,900	82,000	2.1	50.0
TOTALS	48,295	0	0	0	0	4,284	0	0	52,579	0				

TABLE 6

TABLE 7

0703- 1

MONTHLY FISH PASSAGE SUMMARY REPORT

BONNEVILLE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	3,789	0	0	0	0	197	0	0	3,986	0	223,900	81,400	2.0	51.0
2	3,341	0	0	0	0	86	0	0	3,427	0	241,700	97,400	2.2	51.0
3	3,524	0	0	0	0	148	0	0	3,672	0	266,000	125,900	2.0	51.0
4	1,509	0	0	0	0	78	0	0	1,587	0	275,600	144,600	2.1	51.0
5	2,074	0	0	0	0	142	0	0	2,216	0	282,900	152,100	1.9	51.0
6	3,160	0	0	0	0	174	0	0	3,334	0	266,500	137,100	1.9	51.0
7	4,154	0	0	0	0	187	0	0	4,341	0	260,600	129,500	1.9	52.0
8	4,604	0	0	0	0	193	0	0	4,797	0	259,000	128,600	1.9	53.0
9	4,558	0	0	0	0	172	0	0	4,730	0	247,000	117,200	2.0	53.0
10	4,034	0	0	0	0	185	0	0	4,219	0	243,000	121,100	2.0	53.0
11	1,844	0	0	0	0	100	0	0	1,944	0	238,600	116,500	2.1	53.0
12	2,310	0	0	0	0	150	0	0	2,460	0	281,800	150,200	2.2	53.0
13	3,129	0	0	0	0	170	0	0	3,299	0	317,900	185,900	1.9	53.0
14	2,299	0	0	0	0	129	0	0	2,428	0	321,700	188,800	1.9	54.0
15	1,252	0	0	0	1	66	0	0	1,319	0	351,500	223,600	1.8	54.0
16	881	0	0	0	1	92	0	0	974	0	372,500	245,100	1.9	55.0
17	740	0	0	0	0	77	0	0	817	0	408,200	277,300	1.7	55.0
18	453	0	0	0	0	62	0	0	515	0	395,000	263,900	1.7	56.0
19	444	0	0	0	0	61	0	0	505	0	367,200	237,100	1.7	56.0
20	602	0	0	0	0	100	0	0	702	0	348,700	218,100	1.8	55.0
21	549	0	0	0	0	104	0	0	653	0	345,900	215,200	1.7	55.0
22	913	0	0	0	0	186	0	0	1,099	0	351,300	218,700	1.7	55.0
23	771	0	0	0	0	135	0	0	906	0	335,400	198,800	1.6	56.0
24	619	0	0	0	0	128	0	0	747	0	314,900	168,700	1.7	56.0
25	610	0	0	0	0	186	0	0	796	0	332,000	192,100	1.7	56.0
26	579	0	0	0	0	145	0	0	724	1	333,600	201,300	1.7	57.0
27	534	0	0	0	0	162	0	0	696	0	328,700	198,200	1.7	57.0
28	575	0	0	0	0	159	0	0	734	2	326,300	194,800	1.8	57.0
29	567	0	0	0	0	180	0	0	747	0	326,200	196,200	1.8	57.0
30	544	0	0	0	0	171	0	0	715	1	326,500	195,900	1.8	57.0
31	685	0	0	0	0	199	0	0	884	7	326,800	195,200	1.8	57.0
TOTALS	55,647	0	0	0	2	4,324	0	0	59,973	11				

TABLE 8 0717-1

MONTHLY FISH PASSAGE SUMMARY REPORT BONNEVILLE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	511	0	0	0	188	0	0	699	8	340,500	209,300	1.9	58.0
2	0	420	0	0	0	175	0	0	595	11	358,500	227,300	1.9	58.0
3	0	501	0	0	0	149	0	0	650	15	364,100	232,500	2.1	58.0
4	0	340	0	0	0	119	0	0	459	4	369,200	237,600	2.0	59.0
5	0	550	0	0	0	151	0	0	701	45	353,600	222,500	2.0	60.0
6	0	637	0	0	6	154	0	0	797	174	358,200	226,100	2.0	60.0
7	0	419	0	0	3	126	0	0	548	103	366,600	233,600	1.9	59.0
8	0	313	0	0	11	108	0	0	432	66	367,200	234,700	1.9	59.0
9	0	412	0	0	5	142	0	0	559	171	359,700	226,400	1.7	60.0
10	0	579	0	0	51	165	0	0	795	1,392	349,700	217,100	1.7	60.0
11	0	584	0	0	64	208	0	0	856	3,227	348,100	217,300	1.7	61.0
12	0	543	0	0	82	202	0	0	827	3,161	338,600	206,100	1.7	61.0
13	0	694	0	0	69	216	0	0	979	3,151	325,400	189,800	2.2	61.0
14	0	495	0	0	82	177	0	0	754	964	318,200	170,900	2.4	61.0
15	0	553	0	0	148	140	0	0	841	1,530	302,800	155,500	2.4	61.0
16	0	717	0	0	108	107	0	0	932	1,245	303,900	161,100	2.0	60.0
17	0	477	0	0	143	113	0	0	733	691	301,300	158,300	2.0	60.0
18	0	597	0	0	248	160	0	0	1,005	1,470	313,300	172,900	2.1	60.0
19	0	800	0	0	394	216	0	0	1,410	5,131	309,600	168,400	2.1	60.0
20	0	838	0	0	654	253	0	0	1,745	7,889	324,600	182,400	2.1	60.0
21	0	660	0	0	657	251	0	0	1,568	4,103	316,600	168,200	2.2	60.0
22	0	577	0	0	881	247	0	0	1,705	931	296,700	148,600	2.2	60.0
23	0	447	0	0	1,013	167	0	0	1,627	915	298,500	157,000	1.9	60.0
24	0	514	0	0	955	230	0	0	1,699	1,885	308,400	166,600	1.9	60.0
25	0	453	0	0	983	204	0	0	1,640	1,189	320,600	175,300	2.0	59.0
26	0	662	0	0	1,758	313	0	0	2,733	1,558	328,500	181,000	2.0	59.0
27	0	641	0	0	1,776	272	0	0	2,689	808	315,600	174,900	2.1	59.0
28	0	510	0	0	1,885	314	0	0	2,709	417	311,700	163,200	2.1	59.0
29	0	771	0	0	2,764	415	0	0	3,950	293	296,200	147,900	2.1	60.0
30	0	774	0	0	3,221	376	0	0	4,371	1,165	279,200	131,500	2.1	60.0
TOTALS	0	16,989	0	0	17,961	6,058	0	0	41,008	43,712				

TABLE 9

MONTHLY FISH PASSAGE SUMMARY REPORT — BONNEVILLE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	924	0	0	3,708	563	0	0	5,195	1,807	245,600	59,100	2.0	60.0
2	0	1,274	0	0	4,353	686	0	0	6,313	2,102	216,400	71,100	2.0	60.0
3	0	804	0	0	3,711	627	0	0	5,142	2,206	238,400	56,700	2.0	60.0
4	0	717	0	0	3,873	621	0	0	5,211	17,453	267,100	120,400	2.0	60.0
5	0	1,130	0	0	3,826	664	0	0	5,620	18,320	238,300	92,800	2.0	61.0
6	0	824	0	0	3,051	542	0	0	4,417	14,377	244,100	98,400	2.3	62.0
7	0	786	0	0	2,557	472	0	0	3,815	15,228	296,300	147,600	2.2	63.0
8	0	1,080	0	0	3,071	652	0	0	4,803	16,048	308,100	159,500	2.2	64.0
9	0	1,090	0	0	2,334	751	0	0	4,175	22,974	295,800	147,100	2.2	65.0
10	0	1,329	0	0	1,893	1,023	0	0	4,245	19,903	275,100	129,000	2.5	65.0
11	0	1,204	0	0	1,447	936	0	0	3,587	11,950	258,100	110,600	2.2	65.0
12	0	1,031	0	0	1,068	798	0	0	2,897	6,435	238,300	91,800	2.2	65.0
13	0	979	0	0	990	793	0	0	2,762	1,945	218,000	73,000	2.2	65.0
14	0	783	0	0	795	818	0	0	2,396	4,559	223,300	77,400	2.3	65.0
15	0	568	0	0	553	709	0	0	1,830	8,015	230,600	84,500	2.3	66.0
16	0	939	0	5	537	1,025	0	0	2,506	15,037	201,000	56,700	2.4	66.0
17	0	641	0	0	447	1,027	0	0	2,115	3,448	218,200	74,600	2.4	66.0
18	0	985	0	5	339	1,062	0	0	2,391	9,605	210,900	67,600	2.4	66.0
19	0	733	0	7	247	1,005	0	0	1,992	9,426	193,500	50,000	2.4	67.0
20	0	936	0	0	213	1,046	0	0	2,195	3,691	165,900	24,800	2.4	67.0
21	0	730	0	2	181	876	0	0	1,789	2,069	193,400	50,500	2.4	68.0
22	0	1,054	0	15	191	1,177	0	0	2,437	1,324	202,900	59,100	2.4	68.0
23	0	677	0	1	149	1,115	0	0	1,942	3,615	153,400	13,000	2.9	68.0
24	0	1,080	0	1	129	1,587	0	0	2,797	2,426	165,500	25,700	2.9	69.0
25	0	920	0	0	116	1,307	0	0	2,343	1,213	185,700	43,500	2.9	69.0
26	0	808	0	0	81	1,704	0	0	2,593	2,188	145,700	5,400	2.9	69.0
27	0	983	0	0	69	1,804	0	0	2,856	479	109,100	2,400	2.8	70.0
28	0	659	0	2	38	1,437	0	0	2,136	502	124,300	3,000	3.5	70.0
29	0	692	0	7	37	1,470	0	0	2,206	449	139,300	2,400	3.3	70.0
30	0	515	0	7	29	1,312	0	0	1,863	231	134,200	10,400	3.0	69.0
31	0	487	0	4	17	1,214	0	0	1,722	108	151,900	19,400	3.7	69.0
TOTALS	0	27,362	0	56	40,050	30,823	0	0	98,291	219,133				

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

BONNEVILLE PROJECT

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	525	18	24	1,265	0	0	1,832	50	147,700	12,700	3.6	69.0
2	0	0	404	37	20	1,047	0	0	1,508	71	167,100	31,300	3.2	69.0
3	0	0	678	124	25	1,726	0	0	2,553	229	152,600	15,900	3.3	69.0
4	0	0	626	67	20	1,562	0	0	2,275	220	139,300	2,400	3.6	70.0
5	0	0	628	51	27	1,717	0	0	2,423	149	135,600	4,200	3.6	70.0
6	0	0	576	33	16	1,389	0	0	2,014	94	156,200	18,300	3.8	70.0
7	0	0	529	31	5	995	0	0	1,560	35	167,800	28,300	3.7	69.0
8	0	0	692	54	9	1,675	0	0	2,430	70	138,500	3,200	3.6	69.0
9	0	0	567	65	2	1,378	0	0	2,012	44	123,000	2,500	3.6	69.0
10	0	0	729	73	6	1,326	0	0	2,130	53	100,400	2,500	3.7	69.0
11	0	0	431	41	9	1,032	0	0	1,513	44	150,200	22,000	3.7	69.0
12	0	0	726	57	10	1,194	0	0	1,987	32	139,100	3,800	3.9	69.0
13	0	0	825	66	9	1,042	0	0	1,942	14	137,700	3,500	3.8	70.0
14	0	0	615	26	1	643	0	0	1,285	26	163,700	27,500	3.8	70.0
15	0	0	693	67	1	749	0	0	1,470	20	145,500	8,900	3.8	70.0
16	0	0	1,017	56	0	803	0	0	1,876	19	110,900	3,100	3.8	70.0
17	0	0	661	56	0	532	0	0	1,249	18	100,500	2,500	3.9	69.0
18	0	0	647	67	0	609	0	0	1,323	14	121,300	2,400	4.5	69.0
19	0	0	651	56	0	497	0	0	1,204	20	134,100	2,400	4.5	68.0
20	0	0	493	74	0	358	0	0	925	15	125,700	2,400	4.5	69.0
21	0	0	1,037	225	0	496	0	0	1,758	22	121,900	2,500	5.0	68.0
22	0	0	1,734	95	1	788	0	0	2,618	2	129,000	2,500	5.0	68.0
23	0	0	2,012	254	0	762	0	0	3,028	12	97,000	2,500	5.0	68.0
24	0	0	1,816	235	0	751	0	0	2,802	6	99,800	2,500	5.6	68.0
25	0	0	2,000	199	2	681	0	0	2,882	13	114,500	2,500	5.5	68.0
26	0	0	2,287	288	1	534	0	0	3,110	3	118,700	2,400	5.7	68.0
27	0	0	3,048	352	3	655	0	0	4,098	11	168,500	31,200	5.7	67.0
28	0	0	2,481	412	1	630	0	0	3,524	12	203,900	61,700	5.7	67.0
29	0	0	2,421	474	0	544	0	0	3,439	7	171,700	30,000	5.6	67.0
30	0	0	2,533	695	0	623	0	0	3,851	2	140,900	5,100	5.7	67.0
31	0	0	3,869	985	0	620	0	0	5,474	12	137,000	4,900	5.5	67.0
TOTALS	0	0	37,907	5,373	192	28,623	0	0	72,095	1,349				

MONTHLY FISH PASSAGE SUMMARY REPORT — BONNEVILLE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	3,914	900	0	540	0	0	5,354	9	122,000	2,500	6.0	67.0
2	0	0	9,818	1,524	0	804	0	0	12,146	3	138,100	2,400	6.0	66.0
3	0	0	11,944	1,904	1	742	0	0	14,591	0	133,200	2,500	6.0	66.0
4	0	0	15,985	1,849	0	655	0	0	18,489	9	134,700	2,500	6.0	66.0
5	0	0	16,208	1,659	0	535	0	2	18,404	2	120,300	2,500	6.0	66.0
6	0	0	20,059	1,650	1	420	1	0	22,131	0	102,100	2,500	6.0	66.0
7	0	0	23,326	1,976	0	567	0	2	25,871	4	102,700	2,500	6.0	67.0
8	0	0	18,442	2,164	0	557	0	1	21,164	0	112,700	2,500	6.0	67.0
9	0	0	15,916	3,516	1	564	0	2	19,999	0	125,900	2,500	6.0	67.0
10	0	0	13,201	2,966	0	354	0	8	16,529	1	136,800	2,500	6.0	67.0
11	0	0	14,266	3,114	0	495	0	1	17,876	1	116,100	2,500	6.0	67.0
12	0	0	13,449	2,574	0	409	0	2	16,434	1	96,600	2,500	5.0	67.0
13	0	0	13,764	2,360	0	406	0	7	16,537	2	96,000	2,600	5.0	67.0
14	0	0	13,746	2,350	0	382	1	20	16,499	1	94,400	2,600	5.2	68.0
15	0	0	11,277	2,009	0	356	4	19	13,665	1	114,800	2,500	5.2	68.0
16	0	0	7,350	1,730	1	297	2	28	9,408	0	112,000	2,500	5.0	68.0
17	0	0	2,322	1,058	1	103	0	38	3,522	1	104,500	2,500	6.3	67.0
18	0	0	1,221	751	0	68	0	25	2,065	0	109,100	2,500	6.2	67.0
19	0	0	864	464	0	74	0	12	1,414	1	114,100	2,500	6.2	67.0
20	0	0	823	740	0	92	0	10	1,665	0	101,900	2,600	5.9	67.0
21	0	0	665	318	2	56	0	8	1,049	0	96,400	2,600	5.9	66.0
22	0	0	620	218	0	46	0	16	900	0	125,200	2,600	5.9	66.0
23	0	0	817	295	0	87	0	16	1,215	0	131,600	2,500	5.9	66.0
24	0	0	744	290	0	87	0	2	1,123	0	130,900	2,500	6.1	66.0
25	0	0	740	198	0	76	1	8	1,023	0	132,800	2,500	6.1	66.0
26	0	0	566	155	0	92	0	16	829	0	116,300	2,500	6.1	66.0
27	0	0	529	121	0	70	0	11	731	0	104,800	2,500	4.3	66.0
28	0	0	675	139	0	60	0	4	878	2	98,100	2,500	4.3	65.0
29	0	0	640	80	0	61	0	6	587	0	125,200	2,500	4.8	65.0
30	0	0	454	95	0	51	0	8	608	0	135,700	2,400	4.8	65.0
TOTALS	0	0	234,145	39,167	7	9,106	9	272	282,706	38				

TABLE 12

1119-1

MONTHLY FISH PASSAGE SUMMARY REPORT — BONNEVILLE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	440	77	0	74	0	3	594	0	104,000	2,400	4.8	65.0
2	0	0	433	104	0	33	0	2	572	0	91,000	2,500	5.0	65.0
3	0	0	334	73	0	44	0	6	457	0	99,300	2,600	5.0	65.0
4	0	0	364	111	0	37	0	2	514	0	125,700	2,600	4.9	65.0
5	0	0	244	104	0	54	0	1	403	0	98,400	2,500	4.8	65.0
6	0	0	211	92	0	46	0	1	350	0	115,100	2,500	4.8	64.0
7	0	0	165	117	0	35	0	2	319	0	119,600	2,500	4.8	62.0
8	0	0	182	75	0	33	0	5	295	0	120,600	2,500	4.7	63.0
9	0	0	296	190	0	30	0	2	518	0	111,800	2,500	4.7	63.0
10	0	0	216	206	0	30	0	7	459	0	133,600	2,500	4.7	62.0
11	0	0	169	267	0	27	0	0	463	0	94,100	2,500	5.9	62.0
12	0	0	201	201	0	21	0	0	423	0	90,900	2,500	5.9	63.0
13	0	0	176	239	0	27	0	0	442	0	94,000	2,500	5.9	62.0
14	0	0	266	478	0	26	0	1	771	0	116,700	2,500	5.9	62.0
15	0	0	183	666	0	19	0	0	868	0	123,500	2,500	5.8	62.0
16	0	0	144	604	0	20	0	2	770	0	133,300	2,700	5.8	62.0
17	0	0	104	433	0	20	1	0	558	0	131,700	2,500	5.8	62.0
18	0	0	157	809	0	24	0	0	990	0	90,700	2,500	5.8	62.0
19	0	0	88	760	0	27	0	0	875	1	91,000	2,500	5.8	62.0
20	0	0	83	941	0	21	0	0	1,045	0	119,600	2,500	5.8	60.0
21	0	0	96	566	0	12	0	0	674	0	135,600	2,500	5.8	60.0
22	0	0	54	630	0	24	0	0	708	0	134,600	2,500	5.8	59.0
23	0	0	35	863	0	22	0	0	920	0	150,500	19,300	5.8	59.0
24	0	0	31	316	0	22	0	0	369	0	179,100	42,200	5.8	58.0
25	0	0	28	410	0	15	0	0	453	0	142,400	8,400	5.8	58.0
26	0	0	35	689	0	22	0	0	746	0	146,900	14,600	5.8	58.0
27	0	0	15	375	0	24	0	0	414	0	147,600	13,500	5.8	58.0
28	0	0	27	370	0	29	0	0	426	1	149,600	17,600	5.8	57.0
29	0	0	22	276	0	35	0	1	334	0	156,500	23,100	4.7	57.0
30	0	0	36	387	0	31	0	0	454	0	144,400	8,500	4.7	57.0
31	0	0	12	463	0	20	0	0	495	1	136,800	2,500	4.7	57.0
TOTALS	0	0	4,847	11,892	0	904	1	35	17,679	3				

TABLE 13

MONTHLY FISH PASSAGE SUMMARY REPORT — BONNEVILLE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — NOVEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	11	116	0	6	0	0	133	0	133,800	2,500	4.8	57.0
2	0	0	8	117	0	6	0	0	131	0	132,800	2,500	4.8	57.0
3	0	0	28	257	0	24	0	0	309	0	134,200	1,800	5.0	56.0
4	0	0	17	175	0	31	0	0	223	0	132,200	1,300	5.4	56.0
5	0	0	29	115	0	37	0	0	181	0	151,100	21,200	5.4	56.0
6	0	0	6	55	0	25	0	0	86	0	168,300	34,000	5.4	56.0
7	0	0	8	68	0	23	0	0	99	0	167,400	33,200	4.8	55.0
8	0	0	9	67	0	22	0	0	98	0	154,200	20,500	5.1	55.0
9	0	0	23	148	0	19	0	1	191	0	138,200	9,000	5.0	55.0
10	0	0	14	121	0	11	0	0	146	0	172,700	36,400	5.0	53.0
11	0	0	5	63	0	8	0	0	76	0	167,200	30,400	5.0	53.0
12	0	0	15	85	0	7	0	1	108	0	165,600	30,100	5.0	53.0
13	0	0	11	79	0	13	0	0	103	0	146,100	10,500	5.0	52.0
14	0	0	15	162	0	48	0	0	225	0	134,700	1,200	5.0	52.0
15	0	0	13	191	0	58	1	0	263	0	131,800	1,200	4.8	52.0
16	0	0	0	0	0	0	0	0	0	0	135,900	4,600	4.8	52.0
17	0	0	0	0	0	0	0	0	0	0	191,200	58,900	4.8	51.0
18											194,700	62,400	5.0	51.0
19											214,000	72,700	5.5	50.0
20											189,800	57,900	5.5	49.0
21											181,500	50,800	5.5	49.0
22											149,700	14,300	5.5	49.0
23											134,400	1,200	5.5	48.0
24											172,900	40,200	5.5	49.0
25											158,800	28,300	5.5	47.0
26											145,000	17,900	4.8	49.0
27											166,800	34,600	4.8	49.0
28											167,400	35,200	4.8	49.0
29											180,500	43,700	5.0	48.0
30											175,600	35,400	5.0	48.0
TOTALS	0	0	212	1,819	0	338	1	2	2,372	0				

TABLE 14

WATER TEMPERATURE AND STREAM FLOW DATA

BONNEVILLE - 1975

DECEMBER			
DATE	WATER TEMP	STREAM FLOW	TURBIDITY
1	47	177,600	21
2	48	237,000	50
3	48	244,000	50
4	47	281,600	32
5	47	227,100	18
6	47	245,200	22
7	47	213,600	22
8	47	264,500	20
9	47	272,500	20
10	47	265,100	20
11	46	219,500	20
12	46	238,800	32
13	46	227,200	30
14	46	220,300	30
15	45	200,300	30
16	44	193,600	17
17	44	214,800	17
18	43	220,800	18
19	43	219,000	18
20	43	179,100	12
21	42	189,700	21
22	42	185,600	26
23	42	218,900	21
24	42	150,000	24
25	41	171,800	19
26	42	160,900	19
27	42	214,500	19
28	42	206,900	19
29	42	189,500	22
30	42	221,500	25
31	42	234,000	25

TABLE 15

PEAK DAYS OF FISH MIGRATION

BONNEVILLE DAM - 1938-197

Year	Spring Chinook Date	Spring Chinook Number of Fish	Summer Chinook Date	Summer Chinook Number of Fish	Fall Chinook Date	Fall Chinook Number of Fish	Steelhead Date	Steelhead Number of Fish	Sockeye Date	Sockeye Number of Fish	Coho Date	Coho Number of Fish	Chum Date	Chum Number of Fish	Shad Date	Shad Number of Fish
1938*	May 10	2,978	Aug 11	1,102	Sep 9	16,736	Sep 2	4,356	Jul 13	8,407	Aug 31	1,941	Oct 28	190	Jul 20	285
1939	Apr 23	5,220	Jul 27	1,173	Sep 8	13,531	Jul 30	3,857	Jun 29	3,654	Sep 5	1,233	Oct 28	131	Jun 29	306
1940	Apr 19	3,303	Aug 15	719	Sep 1	33,900	Sep 8	6,783	Jun 30	7,371	Sep 7	1,274	Nov 3	140	Jun 25	2,030
1941	Apr 27	4,215	Jul 6	480	Sep 6	33,263	Sep 10	4,357	Jul 2	3,599	Sep 6	2,311	Nov 14	376	Jul 3	2,483
1942	May 7	2,579	Jun 7	949	Sep 8	44,507	Sep 10	9,410	Jul 3	3,248	Sep 3	1,261	Nov 9	164	Jun 21	1,115
1943	Apr 30	4,168	Jun 30	473	Sep 4	20,623	Sep 9	3,918	Jul 7	2,070	Sep 4	372	Nov 10	54	Jul 19	485
1944	Apr 26	2,182	Aug 14	758	Sep 3	16,800	Sep 5	3,654	Jul 9	811	Sep 5	540	Nov 4	61	Jul 10	2,343
1945	May 3	3,836	Jul 15	1,050	Sep 11	19,913	Sep 9	3,906	Jul 10	618	Sep 7	65	Nov 1	49	Jul 10	6,634
1946	May 7	4,135	Jun 14	2,424	Sep 10	34,619	Aug 6	4,333	Jul 12	5,079	Sep 10	618	Nov 18	96	Jul 11	1,285
1947	Apr 18	14,735	Aug 15	3,002	Sep 4	32,680	Sep 4	6,511	Jun 26	11,101	Sep 7	1,559	Oct 31	17	Jul 2	3,665
1948	Apr 16	3,927	Jun 25	5,298	Sep 4	25,708	Sep 4	4,131	Jul 4	11,840	Sep 5	601	Nov 21	156	Jul 17	1,199
1949	May 12	4,422	Jul 5	1,862	Sep 7	19,618	Aug 1	4,211	Jul 5	4,129	Sep 7	115	Nov 24	121	Jul 15	2,393
1950	May 10	5,055	Jul 10	2,841	Sep 8	27,677	Aug 13	4,073	Jul 8	6,254	Sep 2	1,274	Nov 29	61	Jul 24	804
1951	May 9	10,673	Jun 5	3,610	Sep 10	10,196	Jul 18	4,272	Jun 28	12,288	Sep 7	559	Nov 18	115	Jul 3	603
1952	May 27	7,594	Jun 19	4,116	Sep 4	17,322	Jul 28	8,920	Jun 24	19,571	Aug 30	737	Nov 16	92	Jul 15	441
1953	Apr 22	12,950	Jun 26	3,897	Sep 3	9,083	Jul 27	6,884	Jul 5	20,351	Aug 29	1,012	Nov 7	116	Jul 9	1,786
1954	May 5	7,735	Jun 28	3,124	Sep 5	8,312	Jul 28	5,631	Jun 28	10,537	Sep 4	607	Nov 14	120	Jul 30	320
1955	May 2	13,763	Jun 23	4,912	Sep 5	8,645	Jul 27	9,337	Jul 7	27,112	Sep 5	374	Nov 9	28	Jul 26	533
1956	May 7	5,291	Jun 23	6,419	Sep 6	8,924	Jul 26	4,069	Jul 5	12,958	Sep 6	645	Nov 4	43	Jul 13	1,236
1957	Apr 30	13,222	Jun 18	11,030	Sep 5	8,834	Jul 25	5,093	Jun 24	5,288	Sep 11	287	Nov 12	46	Jul 11	1,336
1958	May 9	4,833	Jun 17	4,634	Sep 15	22,380	Jul 25	5,053	Jul 6	7,174	Sep 2	345	Nov 6	43	Jul 10	1,051
1959	Apr 24	2,827	Jun 23	5,242	Sep 6	14,656	Jul 22	7,472	Jul 9	7,369	Sep 6	249	Nov 20	95	Jul 17	899
1960	Apr 29	6,231	Jun 14	7,151	Sep 5	7,848	Jul 25	4,816	Jun 23	3,695	Sep 4	285	Nov 11	67	Jun 30	9,584
1961	Apr 27	7,620	Jun 19	3,322	Sep 6	8,210	Jul 31	4,611	Jul 2	1,037	Sep 12	411	Nov 23	42	Jul 4	36,835
1962	Apr 23	4,767	Jun 16	4,930	Sep 1	7,750	Sep 2	6,134	Jul 1	1,925	Sep 12	1,435	Nov 23	89	Jul 14	32,518
1963	Apr 24	4,028	Jun 18	2,749	Sep 6	12,955	Jul 31	6,051	Jun 30	4,100	Sep 6	549	Nov 8	44	Jul 6	23,473
1964	Apr 29	5 256	Jun 25	3,713	Sep 8	16,086	Jul 29	5,079	Jul 1	9,631	Sep 13	3,899	Nov 10	38	Jul 12	22,359
1965	May 10	4,959	Jun 23	3,588	Sep 8	12,599	Jul 27	6,405	Jun 30	3,408	Sep 10	5,408	Nov 15	35	Jul 16	40,018
1966	Apr 16	6,077	Jun 21	2,882	Sep 17	8,121	Jul 16	3,523	Jul 1	3,768	Sep 20	8,121	Nov 15	57	Jul 10	27,744
1967	Apr 21	5,325	Jul 2	4,188	Sep 15	13,838	Sep 8	2,807	Jul 5	10,235	Sep 15	5,988	Nov 12	33	Jul 6	14,760

* Fish counting initiated on 7 May 1938

TABLE 15 (CONTD)

PEAK DAYS OF FISH MIGRATION

BONNEVILLE DAM - 1938-197

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho		Chum		Shad	
Year	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish
1968	Apr 22	5,245	Jun 10	2,716	Sep 7	10,607	Jul 31	2,760	Jun 25	7,359	Sep 1	4,611	Nov 17	7	Jul 4	15,961
1969	May 7	8,182	Jun 19	4,598	Sep 9	16,995	Jul 23	3,771	Jul 3	4,466	Sep 15	3,225	Nov 3	9	Jun 20	36,293
1970	May 1	5,047	Jun 24	1,938	Sep 11	19,363	Aug 5	2,986	Jul 5	3,498	Sep 11	8,576	Oct 23	11	Jun 26	25,537
1971	Apr 27	7,155	Jul 1	2,247	Sep 9	14,097	Jul 27	5,438	Jul 7	5,926	Sep 6	6,798	Sep 6	6	Jul 16	11,977
1972	Apr 26	19,241	Jun 23	3,743	Sep 9	10,752	Sep 11	5,359	Jul 6	4,000	Sep 13	3,774	Oct 1	1	Jul 5	19,490
1973	Apr 23	8,735	Jun 12	1,203	Sep 8	15,858	Sep 4	3,469	Jun 30	4,186	Sep 7	2,723	Sep 2	31	Jun 12	46,892
1974	May 6	7,318	Jun 30	2,061	Sep 15	12,216	Aug 2	2,951	Jul 3	3,721	Sep 16	2,480	Nov 15	5	Jul 8	9,737
1975	May 8	4,604	Jul 10	1,329	Sep 7	23,326	Jul 27	1,804	Jul 2	4,353	Sep 9	3,516	None		Jul 9	22,974
Total		249,433		121,473		658,548		188,195		266,137		80,778				429,384
38-Year Average		6,564		3,197		17,330		4,953		7,004		2,126				11,300

TABLE 16

MONTHLY COUNT OF CHINOOK SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Jan 1- May 31	SUMMER Jun 1- Jul 31	FALL Aug 1- Dec 31
1938					22,371	8 221	6,556	34,765	197,294	2,302	263	27	271,799	22,371	14 777	234 651
1939	6	12	121	51,410	25,159	5,602	17,828	32,909	150,851	2,197	78	16	286,189	76,708	23,430	186,051
1940			504	37,253	28,621	7,027	14,938	58 643	240,515	3 765	287	34	391,587	66,378	21,965	303,244
1941	4		1,360	51,486	19,445	7,013	9,395	12,590	351,967	7,179	866	138	461,443	72,295	16,408	372,740
1942	1	15	34	9,506	30,915	11,816	12,821	27,581	303,939	4,485	639	190	401,942	40,471	24,637	336,834
1943	11	6	43	12,172	53,268	5,440	8,044	28,985	201,414	3,354	365	21	313,123	65,500	13,484	234,139
1944	1	2	65	15,671	15,127	4,363	8,241	55,468	139,254	2 388	164	20	240,764	30,866	12,604	197 294
1945	6	4	81	17 148	26,276	11,293	16,317	32,254	189,675	4,281	137	6	297,478	43,515	27,610	226,353
1946	1	2	25	14,196	53,313	30,253	20,967	45,422	277,152	4,523	173	25	446,052	67,537	51,220	327 295
1947		2	141	83,520	49,899	25,502	13 358	43,062	260,385	3,945	526	37	480,377	133,562	38,860	307,955
1948	10		251	21 205	20,262	44,137	23,100	35,934	270,238	3,928	467	23	419,555	41,728	67,237	310,590
1949			5	5,765	44,304	24,232	22,500	41 500	137,599	1,571	215	6	277 697	50,074	46,732	180,891
1950			21	6,630	50,638	16,667	32,937	40,462	205 521	4,356	143		357,375	57,289	49 604	250,482
1951			32	28,801	86,055	54,889	24,394	33,785	97,131	6,489	212		331,788	114,888	79,283	137,617
1952			255	8,130	107 807	62,491	21,800	82,290	135,053	2,576	477		420,879	116,192	84,291	220,396
1953			1,254	126,450	42,583	27,228	30,593	27,398	75,145	1,495	333		332,479	170,287	57,821	104,371
1954		2	657	82,877	51,230	46,801	32,596	24 969	80,426	1,189	200		320,947	134,766	79,397	106 784
1955			1,391	84,436	85,769	45,502	37 437	32,833	70,558	1,803	124		359,853	171,596	82,939	105,318
1956			161	8,850	54,438	64,262	36,938	42,203	92,036	1,854	179	2	300,917	63,449	101,200	136,268
1957			328	90,984	45,128	104 243	30,790	34,829	95,457	1,352	175		403,286	136,440	135,033	101 813
1958			468	15,361	59,377	74,375	27,524	19,735	227,504	1,948	127		426,419	75,206	101,899	249,314
1959			182	26,944	34,007	39,581	49,371	24,945	168,187	1,643	168		345,028	61,133	88,952	194,943
1960			184	37,064	32,349	65,247	19,923	22,719	76,327	2,012	224		256,049	69,597	85,170	101,282
1961			476	72,526	25,693	41,302	25,159	22,675	90,688	3,108	353		281,980	98,695	66,461	116,824
1962			1,278	56,201	33,637	52,392	25,093	23,526	91,320	2,759	419		286,625	91,116	77,485	118,024
1963			2,802	43,859	28,810	36,836	27,178	28,586	104 415	5,571	503		278 560	75,471	64,014	139,075
1964			2,418	69 031	19,979	35,814	44,717	26,546	141,525	4,157	235		344,422	91,428	80,531	172,463
1965			1,238	47,083	35,945	38 482	37,515	38,727	112,664	6,074	229		317,957	84 266	75,997	157,694
1966			2,168	92,637	17,864	40,233	31,764	20,608	128,421	6,052	364		340,111	112,669	71 997	155,445
1967			1,620	71,957	11,358	41,847	53,812	25,760	154,323	5,405	155		366,237	84,935	95,659	185,643

TABLE 16 (CONTD)

MONTHLY COUNT OF CHINOOK SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Jan 1-May 31	SUMMER Jun 1-Jul 31	FALL Aug 1-Dec 31
1968			1,342	69,420	28,425	46,793	36,126	27,779	126,994	4,010	265		341,154	99,187	82,919	159,048
1969			1,910	65,371	106,281	59,177	42,976	38,456	187,502	5,511	359		507,543	173,562	102 153	231 828
1970			2,020	78,605	30,351	35,091	29,811	44,559	159,710	4,364	269		384 780	110,976	64,902	208,902
1971			683	60,849	63,985	37,757	40,154	26,749	166,346	8,820	359		405,702	125,517	77,911	202,274
1972			426	154,443	31,271	36,758	34,072	23,577	109,820	3,939	150		394,456	186,140	70,830	137,486
1973			1,585	128,495	12,068	24,164	21,196	31,513	170,895	8,457	262		398,635	142,148	45,360	211,127
1974			434	57,516	76,585	13,424	32,472	15,554	156,543	13,923	308		366,759	134,535	45,896	186,328
1975			162	48,295	55,647	16,989	27,362	37,907	234 145	4 847	212		425,566	104,104	44,351	277,111
Total	40	45	28 125	1,952,147	1,616,240	1,343,244	1,027,775	1,267,803	6,178,933	157 632	10,984	545	13,583,513	3,596,597	2,371,019	7,615,897
38-Year Average			740	51,372	42,533	35,349	27,047	33,363	162,604	4 148	289		357,461	94 647	62,395	200,418

Fish counting initiation and termination dates vary slightly from the normal for a few years due to annual winter maintenance

TABLE 17

MONTHLY COUNT OF SOCKEYE SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1938					1,025	17,811	53,865	2,097	235	6	2		75,041
1939				48	189	29,386	43,124	616	19				73,382
1940					206	59,639	85,885	3,063	13	1			148,807
1941				299	1,052	23,536	39,193	1,615	46				65,741
1942					13	12,624	41,301	1,477	49				55,464
1943					9	4,525	33,613	1,697	1				39,845
1944			1		16	3,099	11,171	659	126				15,072
1945			10	51	521	1,507	6,903	498	10	1			9,501
1946				9	67	7,815	64,715	1,747	21	2			74,376
1947					5	59,378	108,175	3,564	15	1		1	171,139
1948						12,023	117,652	1,849	13	4			131,541
1949					151	9,013	41,619	655	6				51,444
1950						341	75,784	1,826	42				77,993
1951					25	81,045	87,104	1,214	40				169,428
1952			7	1	3	136,939	47,188	467	30	2	8		184,645
1953			57	27	663	45,711	186,933	1,774	50				235,215
1954			1		13	52,359	76,505	1,212	17				130,107
1955					79	21,923	214,860	866	11	9			237,748
1956					10	29,649	125,185	1,564	7	3			156,418
1957					21	38,616	43,938	323	14	3			82,915
1958					25	38,736	82,719	878	23	8			122,389
1959				2	153	10,155	75,325	906	14	5			86,560
1960					4	41,758	17,615	321	15				59,713
1961				3	22	7,960	9,059	56	9	2			17,111
1962				1	21	9,713	18,310	82	47	5			28,179
1963					492	25,010	34,275	216	304	17	5		60,319
1964				3	570	32,079	66,857	213	110	10	14		99,856
1965					457	21,860	31,776	744	285	3			55,125
1966				10	338	57,509	97,845	800	155	4			156,661
1967				18	38	36,091	107,558	344	106	3			144,158

TABLE 17 (CONTD)

MONTHLY COUNT OF SOCKEYE SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1968				54	372	74,226	33,245	199	101	9	1		108,207
1969				5	165	24,238	34,970	120	124	13	1		59,636
1970				5	269	22,977	46,062	1,147	290	12			70,762
1971					70	14,789	72,203	313	69	2	1		87,447
1972					614	16,505	37,939	1,254	9	2			56,323
1973					17	29,314	29,308	337	3				58,979
1974					14	8,073	35,407	340	3				43,837
1975					2	17,961	40,050	192	7				58,212
Total			76	536	7,711	1,135,893	2,375,236	37,245	2,439	127	32	1	3,559,296
38-Year Average					203	29,892	62,506	980	64				93,666

TABLE 17 (CONTD)

TABLE 18

MONTHLY COUNT OF COHO SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total (Incl Jacks)	Jacks
1938								3,070	10,995	972	141	7	15,185	
1939	3							1,811	12,226	310	15	18	14,383	
1940	3							1,451	10,212	213	33	5	11,917	
1941	2							1,317	16,061	369	160	2	17,911	
1942								1,193	11,062	147			12,402	
1943								762	1,676	89	20		2,547	
1944								1,052	3,021	103	29	2	4,207	
1945							2	239	533	15		1	790	
1946		10	4				22	228	3,609	1		24	3,898	
1947	12	2	1					217	10,928	10	3	1	11,174	
1948	1						11	158	3,893	10	3	5	4,081	
1949							17	270	703	5	8	1	1,004	
1950								1,570	8,545	36			10,151	
1951								197	4,773	225	6		5,201	
1952							10	2,581	5,131	22	24		7,768	
1953							1	7,094	5,890	22	11		13,018	
1954								668	3,319	74	1		4,062	
1955								443	3,188	94			3,725	
1956							7	1,158	4,879	83			6,127	
1957								1,564	3,046	63	2		4,675	
1958								341	3,220	99	13		3,673	
1959								122	2,551	22			2,695	
1960								538	2,502	224	4		3,268	
1961								277	2,867	306	6		3,456	
1962							1	1,116	13,091	543	37		14,788	
1963							4	1,071	8,664	2,724	195		12,658	
1964							23	3 776	46 535	3,069	199		53,602	
1965						2	21	5,911	61,335	8,566	197		76,032	
1966						46	874	4,921	59,457	6,361	232		71,891	34,919*
1967						33	715	3,814	87,254	4,560	112		96,488	47,893

* In 1966 Jacks were classified as those Coho's under 12 inches in length
Beginning with 1967 Jacks were classified as under 22 inches

TABLE 18 (CONTD)

MONTHLY COUNT OF COHO SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total (Incl Jacks)	Jacks
1968						48	124	10,450	50,900	1,868	98		63,488	20,435
1969						38	443	4,671	41,176	2,998	52		49,378	25,216
1970						2	128	6,604	70,631	2,631	120		80,116	25,248
1971							57	7,292	58,235	9,753	652		75,989	22,172
1972							66	9,481	52,456	3,792	137		65,932	31,716
1973							636	12,656	33,736	6,715	866		54,609	25,849
1974							539	8,805	40,761	8,631	2,219		60,955	29,350
1975							56	5,373	39,167	11,892	1,819		58,307	25,535
Total	21	12	5			169	3,757	114,262	798,228	77,617	7,414	66	1,001,551	288,423
38-Year Average							99	3,007	21,006	2,043	195		26,357	28,842

**10-Year Average

TABLE 18 (CONTD)

TABLE 19

MONTHLY COUNT OF CHUM SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1938										1,245	799	73	2,117
1939	2								6	700	411	49	1,168
1940										860	835	34	1,729
1941										1,116	4,130	23	5,269
1942										700	1,149	16	1,865
1943										125	623	40	788
1944	1									191	666	96	954
1945	2								2	119	585	20	728
1946									1	306	808	63	1,178
1947								1		59	110	29	199
1948										192	2,966	478	3,636
1949										215	1,719	94	2,028
1950	1									298	770		1,069
1951										60	984		1,044
1952									2	163	1,340		1,505
1953										373	1,355		1,728
1954									6	193	1,370		1,569
1955										66	252		318
1956									2	135	547	9	693
1957									3	38	528		569
1958										147	308		455
1959									8	130	768		906
1960										291	735		1,026
1961										222	674		896
1962										188	825		1,013
1963									25	302	412		739
1964							3	1	15	176	437		632
1965									10	55	431		496
1966							1	4	28	114	725		872
1967									11	58	283		352

TABLE 19 (CONTD)

MONTHLY COUNT OF CHUM SALMON

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1968									11	10	58		79
1969									6	75	62		143
1970								6	64	75	64		209
1971									9	8	12		29
1972										1			1
1973									31	7	5		43
1974							2		1	3	17		23
1975									9	1	1		11
Total	6						6	12	250	9,017	27,764	1,024	38,079
38-Year Average									7	237	731		1,002

TABLE 19 (CONTD)

TABLE 20

TABLE 20

MONTHLY COUNT OF STEELHEAD TROUT

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Jan 1- May 31	SUMMER Jun 1- Aug 25	FALL Aug 26- Dec 31
1938					6,622	2 382	19,455	29,231	46,618	2 264	339	92	107 003	6 622	42,684	57,697
1939	23	19	570	8,110	1,587	1,490	36,681	38 062	33,891	1,264	216	119	122,032	10,309	69,787	41 936
1940	5	96	1,688	4 125	998	4,489	61,188	46,071	64,377	1,786	292	59	185 174	6,912	99,812	78 450
1941	37	76	1,641	6 392	1,518	996	21 940	29,600	50,542	3 980	1 063	304	118,089	9,664	48 445	59,980
1942	4	37	256	3,642	4,159	1,588	19 905	41,973	77,076	2,412	566	182	151,800	8,098	57 121	86 581
1943	14	18	654	3,374	4,698	1,564	7,755	29 894	41 051	2,444	573	94	92 133	8,758	32,461	50,914
1944	50	157	1,019	6 142	2,224	1,169	21,868	24,508	35,907	6 129	1 119	226	100,518	9 592	41,993	48,933
1945	1,003	1 078	3,008	4,685	1,557	1 109	24 537	40 593	40,194	1,925	302	142	120 133	11,331	61,354	47 448
1946	64	551	3,040	9,839	5,482	3,265	20,600	58,466	38,399	2 070	262	769	142,807	18,976	74,446	49,385
1947	197	321	1,968	6,889	2 025	1 595	28 134	40 819	50,025	2,905	443	123	135 444	11,400	63,635	60 409
1948	154	119	1,631	4,473	1,170	1,895	33,191	53,621	40 609	1 742	381	76	139 062	7 547	79,906	51,609
1949	1		1,689	3 293	1 712	1,264	34 314	54 281	20,786	1,161	686	98	119,285	6,695	84 067	28,523
1950	13	8	1,156	4,537	1,667	691	25,142	53,904	24,226	1 932	811		114,087	7 381	72,810	33,896
1951			375	2,338	1,568	5,187	74,980	39 712	15,357	947	225		140 689	4,281	116,819	19 589
1952			278	1 248	1,751	8 202	118,110	79 735	48,293	2,735	638		260,990	3,277	186 735	70,978
1953			1,310	5,308	1,456	5 313	106,712	64 006	36,107	2,797	905		223,914	8,074	165 061	50,779
1954		6	679	5,511	1 571	6 115	59,443	65,234	34,941	2,209	551		176,260	7,767	118,318	50,175
1955			1,006	2 100	1,149	2 418	79,124	84,746	24,239	3 361	268		198,411	4 255	157,359	36 797
1956			1,409	2 718	1,562	3,122	48,306	47,148	23,343	2 846	635	7	131,116	5,709	93,983	31,424
1957			926	2,081	760	8,434	66 738	34,915	24,029	1 069	231		139,183	3 767	101,412	34,004
1958			495	651	1,457	5,645	53 734	22 827	44,478	1,859	291		131,437	2 603	76,930	51 904
1959			219	746	1 236	2,562	60,549	38,417	23 579	1 540	178		129,026	2 201	95,997	30 828
1960			412	904	1 090	4 314	44,026	33,571	28,058	1 090	211		113,676	2,406	74,735	36,535
1961			374	1,161	692	2,246	44,379	41 237	47,409	1 561	660		139,719	2,227	77,042	60 450
1962			381	1,957	1,491	3 737	49 789	40,177	64,084	1 798	611		164,025	3,829	83,161	77 035
1963			503	1,035	1,385	4,192	51,951	31,441	35,446	2 920	545		129,418	2 923	80 935	45,560
1964			490	1,609	769	1 940	50,640	26,892	32,406	1 954	552		117,252	2,868	73,267	41,117
1965			211	1,516	1,419	4,265	89,405	29,506	37 529	1,971	631		166 453	3,146	117 414	45,893
1966			658	2,682	2,389	13 051	57,975	25,779	37,733	2,657	737		143,661	5,729	91 816	46,116
1967			416	1 182	899	3,062	40,881	36 787	35,472	2,701	472		121,872	2,497	76,297	43,078

TABLE 20 (CONTD)

MONTHLY COUNT OF STEELHEAD TROUT

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Jan 1-May 31	SUMMER Jun 1-Aug 25	FALL Aug 26-Dec 31
1968			340	861	1,315	3,664	29,773	41,006	27,865	1,645	505		106,974	2,516	65,907	38,551
1969			911	2,164	2,897	6 889	63,222	36,077	26 565	1,484	573		140 782	5,972	98,079	36,731
1970			244	1,267	1,331	4,208	30,866	46 307	27,073	1,909	305		113,510	2,842	75 264	35,404
1971			463	1,377	1,810	4 469	84 877	58,249	38,619	3 739	363		193 966	3,650	137,404	52,912
1972			492	2,562	2 137	3,444	59,933	48 223	65,523	3,432	140		185,886	5,191	102,036	78,659
1973			830	2,534	1,367	5 360	53,820	46,399	43 275	3,918	320		157 823	4,731	95,280	57,812
1974			1 292	4 127	5,547	6,349	57 212	44 266	14,654	3,080	527		137,054	10,966	73 436	52 652
1975			1,080	4,284	4,324	6,058	30,823	28,623	9,106	904	338		85,540	9,688	61,898	13,954
Total	1,565	2,486	34,114	119,424	78 811	147 743	1 861,978	1,632,303	1,408,884	88,140	18,465	2,291	5,396,204	236,400	3,325,106	1 834,698
38-Year Average			898	3,143	2,074	3,888	48,999	42,955	37,076	2,319	486		142,005	6,221	87,503	48,282

TABLE 21

MONTHLY COUNT OF SHAD AND PERCENT COUNTED OVER FISH LADDERS

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Percent by Fish Ladders Brad Is	Wash Shore
1938						39	3,184	1,502	527	21			5,273	58 1	41 9
1939					14	1,539	3,065	157	28				4,803	27 9	72 1
1940					48	12,931	9,178	72	1				22,230	42 3	57 7
1941					5	2,417	16,010	197	12	16			18,657	57 9	42 1
1942					2	38	11,341	1,473	5				12,859	70 3	29 7
1943						18	2,545	265	20				2,848	87 0	13 0
1944						287	16,568	248					17,103	62 8	37 2
1945						2,801	90,773	948	4				94,526	77 2	22 8
1946						3,895	16,073	415					20,383	44 3	55 7
1947					8	5,645	20,280	105	3				26,041	69 4	30 6
1948						8	6,458	1,953	2	1			8,422	69 1	30 9
1949						2,647	19,609	322	1				22,579	54 9	45 1
1950							7,265	548	3				7,816	92 7	7 3
1951						1,269	6,792	277	15				8,353	63 2	36 8
1952						487	2,595	45	4				3,131	54 8	45 2
1953						53	14,856	1,502	19				16,430	60 5	39 5
1954						34	3,848	1,136	11				5,029	57 5	42 5
1955						21	4,411	1,358	18				5,808	64 6	35 4
1956					1	67	6,838	1,168	11				8,085	27 9	72 1
1957						1,695	11,039	422	1	2			13,159	64 2	35 8
1958						3,885	6,257	59					10,201	49 1	50 9
1959					3	32	6,315	369	1				6,720	54 9	45 1
1960						35,259	57,443	594	72				93,368	53 2	46 8
1961						18,952	245,471	1,236	33	5			265,697	67 1	32 9
1962						42,689	387,554	4,657	82	4	2		435,988	55 1	44 9
1963					70	77,961	307,466	4,044	217	14			389,772	65 7	34 3
1964					19	3,203	236,321	13,008	121	2			252,674	63 6	36 4
1965					1	33,815	570,432	12,844	194	35	2		617,323	57 7	42 3
1966					94	181,187	367,643	7,988	545	51	5		557,513	58 9	41 1
1967			1	1		6,673	212,681	2,944	152	8			222,460	65 3	34 7

TABLE 21 (CONTD)

MONTHLY COUNT OF SHAD AND PERCENT COUNTED OVER FISH LADDERS

BONNEVILLE DAM - 1938-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Percent by Fish Ladders Brad Is	Wash Shore
1968					800	107,881	183,878	1,387	121	10	1		294,078	59 0	41 0
1969			2	5	158	233,018	81,159	2,846	163	7			317,358	58 0	42 0
1970				2	250	228,519	99,659	566	262	18			329,276	71 8	28 2
1971					30	34,345	154,215	951	55	1			189,597		
1972					38	16,689	192,608	5,301	88	1			214,725	52 6	47 4
1973					116,057	377,830	24,701	577	38	4			519,207	82 9	17 1
1974					7	6,122	91,302	1,496	17	1			98,945	5 1	94 9
1975					11	43,712	219,133	1,349	38	3			264,246	42 8	57 2
Total			3	8	117,616	1,488,663	3,716,966	76,329	2,884	204	10		5,402,683		
38-Year Average					3,095	39,175	97,815	2,009	76	5			142,176		

TABLE 21 CONTD

TABLE 22

NUMBER AND PERCENT OF CHINOOK JACK SALMON*

BONNEVILLE DAM - 1938-1975

Year	Total Jack Salmon	Percent of Total	Total Chinook including Jack Salmon
1938	36,530	13.44	271,799
1939	63,793	22.29	286,189
1940	86,170	22.00	391,587
1941	46,884	10.16	461,443
1942	52,352	13.02	401,942
1943	19,286	6.16	313,123
1944	33,755	14.02	240,764
1945	37,036	12.45	297,478
1946	45,412	10.18	446,052
1947	25,582	5.32	480,377
1948	57,309	13.66	419,555
1949	14,573	5.25	277,697
1950	38,808	10.86	357,375
1951	24,060	7.25	331,788
1952	33,172	7.88	420,879
1953	32,215	9.69	332,479
1954	50,707	15.80	320,947
1955	35,071	9.75	359,853
1956	41,274	13.72	300,917
1957	25,553	6.33	403,286
1958	15,909	3.73	426,419
1959	31,594	9.16	345,028
1960	18,204	7.11	256,049
1961	29,736	10.55	281,980
1962	23,037	8.04	286,625
1963	48,114	17.27	278,560
1964	28,116	8.16	344,422
1965	64,597	20.33	317,957
1966	45,468	13.37	340,111
1967	73,581	20.09	366,237

* Chinook tallied as Jacks through 1963 included only those approximately 16 to 18 inches in length Subsequent Jack tallies included all chinooks under 22 inches in length

TABLE 22 (CONTD)

NUMBER AND PERCENT OF CHINOOK JACK SALMON

BONNEVILLE DAM - 1938-1975

Year	Total Jack Salmon	Percent of Total	Total Chinook including Jack Salmon
1968	64,823	19 00	341,154
1969	96,295	18 97	507,543
1970	70,748	18 38	384,780
1971	76,962	18 95	405,702
1972	58,419	14 81	394,456
1973	79,799	20 02	398,635
1974	78,349	21 36	366,759
1975	75,246	17 68	425,566
Total	1,778,539		13,583,513
38-Year Average	46,804	13.09	357,461

TABLE 23

YEARLY PERCENTAGE OF SALMONIDS COUNTED OVER EACH FISH LADDER

BONNEVILLE DAM - 1938-1975

Year	Chinook		Sockeye		Coho		Chum		Steelhead		Percentage of Total Salmonids		
	B I	Wash	B I	Wash	B I	Wash	B I	Wash	B.I	Wash	B I	Wash	Fish Locks
1938	34 25	64 68	55 80	44 20	56 55	43 45	66 27	33 73	35 77	62 75	38 89	60 16	
	1 07[1]								1 48[1]				95
1939	55 21	40 15	40 90	59 10	35 06	64 94	23 75	76 25	44 72	53 62	50 72	46 17	
	4 64[1]								1 66[1]				3 11
1940	59 00	41 00	47 80	52 20	61 80	38 20	38 20	61 80	47 50	52 50	52 23	47 77	
1941	51 20	39 86	29 89	51 30	40 80	43 79	5 00	90 00	27 47	54 22	44 28	44 02	
	8 94[1]		18 81[1]		15 37[1]		5 00[1]		18 31[1]				11 70[2]
1942	54 00	45 98	45 84	54 16	48 44	51 56	21 16	78 84	43 00	56 80	50 38	49 56	
	02[1]								20[1]				06
1943	48 96	41 04	47 44	52 56	53 45	46 55	29 17	70 83	46 14	53 86	48 29	51 71	
1944	62 02	37.98	51 76	48 24	58 59	41 41	14 95	85 05	52 14	47 86	58 60	41 40	
1945	69 69	30 31	51 20	48 80	70 56	29 44	27 70	72 30	67 55	32 45	68 65	31 35	
1946	65 00	35 00	42 00	58 00	60 00	40 00	43 00	57 00	57 00	43 00	60 51	39 49	
1947	65 20	34 80	35 00	65 00	88 40	11 60	74 40	25 60	54 30	45 70	57 23	42 77	
1948	66 50	33 50	47 20	52 80	82 50	17 50	74 40	25 60	59 60	40 40	61 57	38 43	
1949	78 50	21 50	61 50	38 50	82 50	17 50	67 50	32 50	65 10	34 90	73 04	26 96	
1950	69 40	30 60	49 60	50 40	66 10	33 90	40 50	59 50	49 30	50 70	62 46	37 54	
1951	58 80	41 20	39 50	60 50	57 00	43 00	33 10	66 90	28 03	71.91	47 01	52 96	
										06[1]			03
1952	62 54	37 45	44 00	56 00	74 50	25 20	14 80	79 10	59 30	40 20	57 68	42 15	
	01[1]				30[1]		6 10[1]		.50[1]				17
1953	65 66	34 28	60 92	39 06	62 10	37 90	61 40	38 60	59 94	40 05	62 62	37 34	
	06[1]		02[1]						01[1]				01
1954	44 23	55 77	56 32	43 68	60 29	39 71	60 87	39 13	40 29	59 71	45 75	54 24	01
1955	53 28	45 71	53 02	46 95	68 03	31 97	75 16	24 84	49 99	50 00	52 47	47 51	
		01[1]		03[1]						01[1]			
1956	62 08	37 91	50 93	49 03	81 28	18 72	59 74	40 26	57 01	42 97	58 23	41 74	
		01[1]		04[1]						02[1]			02[4]
1957	67 30	32 70	57 55	42 45	81 22	18 78	82 78	17 22	64 51	35 49	65 52	34 48[3]	

1 Via fish locks
2 Powerhouse branch fishway had been removed to permit construction of the four north units of the powerhouse
3 1 chinook and 1 chum salmon lifted in fish locks in November 1957
4 12 humpback salmon counted in 1957 - included in percent of total count
5 6 silvers lifted in powerhouse fish locks in 1965

TABLE 23 (CONTD)

YEARLY PERCENTAGE OF SALMONIDS COUNTED OVER EACH FISH LADDER

BONNEVILLE DAM - 1938-1975

Year	Chinook		Sockeye		Coho		Chum		Steelhead		Percentage of Total Salmonids	
	B I	Wash	B I	Wash	B.I	Wash	B.I.	Wash	B.I	Wash	B.I	Wash
1958	71 86	28.14	59 38	40 62	78 87	21 13	54.95	45 05	69 28	30 72	69 16	30.84
1959	63.44	36 56	39 10	60.90	72 50	27 50	89.96	10 04	44 05	55 95	55.36	44 64
1960	63 68	36.32	47 37	53 63	86.57	12 43	60 43	39 57	57.93	42 07	59.96	40.04
1961	66 72	33.28	50 38	49 62	78.12	21 88	75.22	24 78	55.90	44 10	62.78	37 22
1962	62 92	37 08	50 42	49 58	80 32	19.68	44.92	55 08	45 13	54 87	56 79	43 21
1963	71 30	28.70	45 82	54.18	86 15	13 85	55 07	44 93	49 55	50 45	62.63	37.37
1964	75.56	24 44	56.26	43 74	94.33	5.67	89.24	10 76	48 80	51 20	65.31	34 69
1965	62.61	37 39	47 41	52 59	87.97	12 02	63 10	36 90	46.97	53.03	60 15	39 84
					01[5]							
1966	74 28	25.72	37 03	62 97	87 39	12 61	73 45	26 55	46 69	53 31	61 86	38 14
1967	65.21	34 79	37 36	62 64	89.24	10.76	27.16	27 84	45.70	54.30	59.63	40 37
1968	65.76	34 24	46.00	54 00	65.95	34 05	67.09	32 91	40 42	59 58	57.95	42 05
1969	64.80	35 19	60 00	40.00	73 68	26.31	67.13	32 86	53 65	46 34	62 92	37.07
1970	77 28	22 71	58 63	41 36	76 47	23 52	79 90	20 09	65 05	34 94	73 01	26 98
1971	71 49	28 51	64 19	35 80	74 84	25 16	65 51	34 48	66 54	33 45	69 72	30 28
1972	70 13	29 87	65 12	34 88	78 13	21 87			65 12	34 88	67 97	32 03
1973	81 72	18 28	34 25	65 75	73 18	26 82	97 67	2 33	70 12	29 88	74 44	24 56
1974	62 75	37 25	54.34	45 66	79 39	20 61	82.61	17 39	67 08	32 92	69 33	30 67
1975	76 88	23 12	47 49	52 51	78 96	21 04	27 27	72 73	65 56	34 44	72 79	27 21

TABLE 23 (CONTD)

TABLE 24

YEARLY TOTALS OF SALMONID COUNTED OVER THE DALLES DAM

1957 - 1975

Year	Chinook	Steelhead	Sockeye	Coho	Chum	Pink	Total Salmonid
1957	312,678	129,361	90,201	6,793	75	4	539,112
1958	301,960	121,420	111,039	2,395	31	5	536,850
1959	207,461	156,090	86,259	2,709	25	9	452,553
1960	196,962	111,189	59,441	3,000	35	5	370,632
1961	201,335	134,572	16,689	2,139	-	4	354,739
1962	187,132	163,301	27,127	3,696	-	5	381,261
1963	180,969	118,957	56,931	3,716	23	3	360,599
1964	183,842	110,033	79,042	5,978	-	5	378,900
1965	195,049	141,052	44,279	17,468	1	3	397,852
1966	240,671	146,172	147,886	32,279	-	1	567,009
1967	280,112	121,614	120,589	32,015	1	4	554,335
1968	262,975	147,481	116,897	42,687	-	1	570,041
1969	314,258	112,529	37,226	17,054	-	1	481,068
1970	261,457	99,187	77,678	23,219	-	4	461,545
1971	250,528	151,348	76,103	29,061	-	3	507,043
1972	268,628	135,303	44,671	16,562	-	-	465,164
1973	280,945	100,082	52,303	11,152	-	1	444,483
1974	217,181	70,875	28,827	14,655	-	-	331,538
1975	217,283	57,675	43,198	13,976	-	-	332,132
Total	4,561,426	2,328,241	1,316,386	280,554	191	58	8,486,856
19-Year Average	228,639	122,539	69,283	14,766	10	3	446,677

TABLE 25

MONTHLY TOTALS OF SALMONID AND SHAD COUNTED OVER THE DALLES DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK	-	-	-	18,526	32,869	12,155	26,447	28,973	90,193	8,120	-	-	217,283
STEELHEAD	-	-	-	1,018	1,334	1,973	18,046	20,531	11,519	3,254	-	-	57,675
SOCKEYE	-	-	-	-	-	7,679	35,291	225	2	1	-	-	43,198
COHO	-	-	-	-	-	-	-	465	10,356	3,155	-	-	13,976
PINK	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL SALMONID		-	-	19,544	34,203	21,807	79,784	50,194	112,070	14,530	-	-	332,132
SHAD	-	-	-	-	19	73,852	358,735	5,442	104	10	-	-	438,162

TABLE 26
WATER TEMPERATURE AND STREAM FLOW DATA
THE DALLES - 1975

DATE	JANUARY			FEBRUARY			MARCH		
	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	44	91 700	5 0	39	144,800	2 5	39	172,300	3 1
2	43	168,800	5 2	39	148 200	2 0	39	181,600	2 7
3	43	162,300	5 0	39	178 800	1 8	39	197,100	2 5
4	43	121,200	5 0	39	191,800	1 0	40	222,200	2 3
5	43	114,200	5 5	39	194 500	0 8	40	242,100	2 8
6	42	159,100	6 0	38	171,700	0 8	40	245,900	2 5
7	42	164,200	7 0	38	181,000	0 8	40	232,600	2 0
8	42	157,700	6 5	37	163 900	0 5	40	222,700	2 0
9	42	195,700	5 0	37	112,400	0 5	40	168,900	2 0
10	41	178,100	5 0	37	188,500	0 5	40	242,800	2 3
11	41	140,300	5 5	37	191,200	2 0	41	219,200	2 5
12	41	116,100	6 0	37	143,700	2 2	41	238,200	2 4
13	41	168,600	6 0	37	172,400	2 4	41	226,300	2 4
14	41	175,400	4 6	37	234 300	2 0	41	242,000	2 3
15	41	180,100	4 5	37	206,800	3 5	41	244,900	2 3
16	40	170,600	4 5	37	137 200	3 3	41	186,600	2 3
17	40	139,200	4 6	37	187,000	3 0	41	221,700	2 0
18	40	116,600	4 5	37	183,100	3 0	41	224,800	2 0
19	40	174,400	4 5	37	205,200	3 2	41	217,000	2 0
20	40	151,100	4 2	37	176,500	2 3	41	230,800	2 4
21	40	171 000	4 0	38	209,700	2 0	42	220,400	2 1
22	40	195,700	3 9	38	200,700	3 2	42	180,800	2 8
23	40	159,200	3 9	38	167,600	2 8	42	233,800	2 8
24	40	153,200	3 9	38	200,100	2 5	42	232,000	2 6
25	40	158,400	3 0	39	200,800	2 8	42	221,000	3 0
26	40	182,700	2 9	39	210,400	3 3	42	240,700	2 6
27	40	176,800	2 0	39	187,100	3 0	42	256,300	2 9
28	40	161,700	2 0	39	189,100	3 1	42	243,300	2 7
29	40	189,300	2 3				42	196,500	3 0
30	40	178,600	2 2				42	154,000	3 0
31	40	207,500	2 2				42	241,300	3 0

TABLE 27

0611-11

MONTHLY FISH PASSAGE SUMMARY REPORT — THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SEECHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	10	0	0	10	0	264,900	0	3.0	42.0
2	5	0	0	0	0	16	0	0	21	0	239,900	0	2.3	42.0
3	13	0	0	0	0	13	0	0	26	0	196,500	0	3.0	42.0
4	14	0	0	0	0	9	0	0	23	0	186,300	0	2.3	43.0
5	13	0	0	0	0	9	0	0	22	0	159,200	0	2.7	43.0
6	42	0	0	0	0	22	0	0	64	0	161,600	0	2.5	43.0
7	59	0	0	0	0	25	0	0	84	0	214,800	0	2.5	43.0
8	77	0	0	0	0	30	0	0	107	0	195,900	0	2.8	44.0
9	141	0	0	0	0	24	0	0	165	0	234,800	0	3.0	44.0
10	109	0	0	0	0	29	0	0	138	0	214,100	0	3.0	44.0
11	159	0	0	0	0	20	0	0	179	0	195,500	0	3.0	44.0
12	203	0	0	0	0	33	0	0	236	0	151,600	0	3.0	44.0
13	345	0	0	0	0	27	0	0	372	0	155,900	0	3.1	45.0
14	706	0	0	0	0	69	0	0	775	0	223,300	0	2.9	45.0
15	670	0	0	0	0	32	0	0	702	0	244,600	0	2.5	45.0
16	774	0	0	0	0	36	0	0	810	0	229,300	0	2.4	46.0
17	963	0	0	0	0	30	0	0	993	0	207,100	0	2.8	46.0
18	789	0	0	0	0	37	0	0	826	0	161,300	0	2.7	46.0
19	605	0	0	0	0	30	0	0	635	0	178,700	0	2.8	46.0
20	753	0	0	0	0	26	0	0	779	0	192,000	0	2.8	46.0
21	1,070	0	0	0	0	54	0	0	1,124	0	202,900	0	2.5	47.0
22	936	0	0	0	0	43	0	0	979	0	213,600	0	2.6	48.0
23	1,398	0	0	0	0	124	0	0	1,522	0	228,600	0	2.3	48.0
24	1,181	0	0	0	0	55	0	0	1,236	0	251,800	0	2.2	48.0
25	971	0	0	0	0	27	0	0	998	0	262,000	0	2.0	48.0
26	1,513	0	0	0	0	41	0	0	1,554	0	229,500	0	1.8	49.0
27	1,540	0	0	0	0	30	0	0	1,570	0	251,700	0	1.8	50.0
28	920	0	0	0	0	32	0	0	952	0	266,600	0	1.6	50.0
29	1,063	0	0	0	0	45	0	0	1,108	0	232,200	0	1.8	50.0
30	1,494	0	0	0	0	40	0	0	1,534	0	227,900	0	1.8	50.0
TOTALS	18,526	0	0	0	0	1,018	0	0	19,544	0				

MONTHLY FISH PASSAGE SUMMARY REPORT — THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	1,773	0	0	0	0	120	0	0	1,893	0	209,800	0	2.0	50.0
2	1,577	0	0	0	0	44	0	0	1,621	0	241,500	2,000	1.8	50.0
3	1,590	0	0	0	0	75	0	0	1,665	0	262,300	0	1.8	50.0
4	1,888	0	0	0	0	20	0	0	1,908	0	257,100	17,200	1.7	50.0
5	1,860	0	0	0	0	30	0	0	1,890	0	281,000	36,700	1.5	50.0
6	1,678	0	0	0	0	20	0	0	1,698	0	257,800	0	1.7	50.0
7	1,223	0	0	0	0	27	0	0	1,250	0	253,900	0	1.7	51.0
8	1,181	0	0	0	0	35	0	0	1,216	0	246,900	0	1.7	51.0
9	1,120	0	0	0	0	51	0	0	1,171	0	234,200	0	1.8	51.0
10	1,547	0	0	0	0	71	0	0	1,618	0	242,700	0	1.8	51.0
11	2,331	0	0	0	0	69	0	0	2,400	0	222,200	0	2.0	52.0
12	1,973	0	0	0	0	57	0	0	2,030	0	281,100	0	2.0	52.0
13	1,768	0	0	0	0	74	0	0	1,842	0	305,100	82,600	1.8	53.0
14	1,362	0	0	0	0	43	0	0	1,405	0	319,400	70,200	1.8	53.0
15	1,173	0	0	0	0	45	0	0	1,218	0	352,900	121,800	1.5	54.0
16	1,018	0	0	0	0	39	0	0	1,057	0	375,200	136,300	1.4	54.0
17	1,109	0	0	0	0	39	0	0	1,148	0	411,000	181,100	1.5	55.0
18	866	0	0	0	0	43	0	0	909	0	389,600	198,500	1.5	56.0
19	675	0	0	0	0	28	0	0	703	0	364,100	111,400	1.5	56.0
20	622	0	0	0	0	35	0	0	657	0	349,800	103,500	1.3	55.0
21	498	0	0	0	0	37	0	0	535	0	346,500	91,400	1.3	55.0
22	354	0	0	0	0	23	0	0	377	0	349,700	85,000	1.5	55.0
23	405	0	0	0	0	27	0	0	432	0	322,900	63,600	1.4	55.0
24	502	0	0	0	0	20	0	0	522	0	320,100	112,900	1.4	55.0
25	479	0	0	0	0	22	0	0	501	0	336,200	194,700	1.2	55.0
26	456	0	0	0	0	19	0	0	475	0	334,500	163,900	1.4	55.0
27	377	0	0	0	0	38	0	0	415	0	329,900	100,900	1.6	55.0
28	333	0	0	0	0	63	0	0	396	0	324,900	85,300	1.4	55.0
29	359	0	0	0	0	37	0	0	396	4	321,800	81,100	1.6	55.0
30	364	0	0	0	0	38	0	0	402	2	324,400	84,400	1.8	55.0
31	408	0	0	0	0	45	0	0	453	13	322,100	147,200	1.9	56.0
TOTALS	32,869	0	0	0	0	1,334	0	0	34,203	19				

TABLE 29 0717-11

MONTHLY FISH PASSAGE SUMMARY REPORT THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	366	0	0	0	0	45	0	0	411	87	332,900	187,500	1.9	56.0
2	334	0	0	0	0	57	0	0	391	108	353,500	133,400	1.8	57.0
3	388	0	0	0	0	57	0	0	445	138	365,600	117,400	1.8	58.0
4	0	379	0	0	0	50	0	0	429	287	364,700	119,400	1.9	58.0
5	0	275	0	0	0	37	0	0	312	274	346,300	100,700	1.9	59.0
6	0	301	0	0	0	51	0	0	352	197	357,400	102,000	2.0	59.0
7	0	326	0	0	0	43	0	0	369	206	363,900	152,100	2.0	59.0
8	0	357	0	0	1	63	0	0	421	444	362,400	206,800	1.8	59.0
9	0	188	0	0	2	42	0	0	232	548	354,300	121,200	1.8	60.0
10	0	270	0	0	1	57	0	0	328	1,211	347,500	103,000	1.8	59.0
11	0	293	0	0	1	72	0	0	366	1,851	345,000	98,700	2.0	60.0
12	0	426	0	0	4	67	0	0	497	2,650	330,400	91,200	2.1	60.0
13	0	392	0	0	33	72	0	0	497	3,150	317,600	99,200	2.0	60.0
14	0	393	0	0	21	80	0	0	494	1,945	310,800	122,500	2.0	60.0
15	0	597	0	0	79	100	0	0	776	4,401	292,500	168,200	2.0	60.0
16	0	272	0	0	48	51	0	0	371	3,230	291,300	61,000	2.0	60.0
17	0	306	0	0	70	67	0	0	443	3,301	293,400	81,600	2.0	59.0
18	0	381	0	0	101	51	0	0	533	4,314	302,200	58,600	2.0	59.0
19	0	364	0	0	121	38	0	0	523	3,949	306,900	82,000	2.0	59.0
20	0	401	0	0	135	77	0	0	613	2,607	317,400	115,100	2.0	59.0
21	0	491	0	0	263	67	0	0	821	1,804	304,800	150,600	2.0	59.0
22	0	660	0	0	273	83	0	0	1,016	4,510	288,600	146,900	2.0	59.0
23	0	485	0	0	311	72	0	0	868	5,517	287,500	69,300	2.0	59.0
24	0	618	0	0	499	65	0	0	1,182	8,129	298,400	99,500	2.0	59.0
25	0	602	0	0	655	75	0	0	1,332	6,427	315,000	84,100	2.5	59.0
26	0	550	0	0	606	84	0	0	1,240	3,039	317,500	82,800	2.3	59.0
27	0	344	0	0	697	68	0	0	1,109	3,727	310,600	77,200	2.1	59.0
28	0	442	0	0	1,068	88	0	0	1,598	1,453	304,100	145,300	2.1	59.0
29	0	495	0	0	1,154	100	0	0	1,749	1,860	278,200	139,300	1.7	59.0
30	0	459	0	0	1,536	94	0	0	2,089	2,488	269,400	90,500	1.7	59.0
TOTALS	1,088	11,067	0	0	7,679	1,973	0	0	21,807	73,852				

TABLE 30

MONTHLY FISH PASSAGE SUMMARY REPORT THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	444	0	0	1,773	130	0	0	2,347	5,213	227,800	19,500	1.7	59.0
2	0	745	0	0	2,715	181	0	0	3,641	4,035	204,300	0	1.9	59.0
3	0	866	0	0	1,992	325	0	0	3,183	6,904	240,200	15,200	1.8	59.0
4	0	1,196	0	0	3,091	217	0	0	4,504	8,169	241,600	72,600	2.0	59.0
5	0	1,120	0	0	3,392	298	0	0	4,810	15,604	222,600	61,900	2.3	60.0
6	0	1,011	0	0	4,111	226	0	0	5,348	22,557	227,800	78,100	2.3	61.0
7	0	698	0	0	2,364	227	0	0	3,289	23,691	289,900	60,100	2.4	62.0
8	0	889	0	0	2,555	299	0	0	3,743	27,816	298,800	56,900	2.5	63 0
9	0	925	0	0	2,756	272	0	0	3,953	23,946	294,800	50,200	3.0	64.0
10	0	754	0	0	2,344	321	0	0	3,419	24,025	266,600	26,100	2.8	64.0
11	0	941	0	0	1,411	351	0	0	2,703	24,231	239,000	18,800	2.7	64.0
12	0	840	0	0	1,136	452	0	0	2,428	9,813	230,600	46,500	2.5	64.0
13	0	1,002	0	0	813	439	0	0	2,254	15,318	202,300	19,300	2.6	64.0
14	0	642	0	0	588	467	0	0	1,697	17,066	225,900	0	2.5	65.0
15	0	844	0	0	629	491	0	0	1,964	9,896	223,600	0	2.2	66.0
16	0	1,356	0	0	722	728	0	0	2,806	8,085	195,300	2,100	2.3	66.0
17	0	770	0	0	377	540	0	0	1,687	20,599	209,900	0	2.2	66.0
18	0	893	0	0	421	535	0	0	1,849	19,938	202,500	0	2.2	66.0
19	0	767	0	0	290	507	0	0	1,564	10,595	185,500	0	2.2	67.0
20	0	1,125	0	0	286	826	0	0	2,237	14,224	155,300	0	2.5	67.0
21	0	650	0	0	248	729	0	0	1,627	9,017	199,100	0	2.5	67.0
22	0	843	0	0	279	897	0	0	2,019	6,391	194,200	0	2.3	67.0
23	0	892	0	0	130	647	0	0	1,669	5,900	144,500	0	2.3	67.0
24	0	788	0	0	169	838	0	0	1,795	4,753	166,700	0	2 4	67.0
25	0	703	0	0	162	863	0	0	1,728	4,587	176,900	0	2.3	68.0
26	0	1,174	0	0	177	1,134	0	0	2,485	5,130	126,600	100	2.8	68.0
27	0	909	0	0	164	982	0	0	2,055	4,682	102,400	0	2.6	68.0
28	0	788	0	0	82	1,363	0	0	2,233	3,063	135,200	0	2.7	69.0
29	0	705	0	0	46	938	0	0	1,689	1,266	120,400	0	2.6	69.0
30	0	561	0	0	37	1,093	0	0	1,691	983	136,600	0	2.6	68.0
31	0	606	0	0	31	730	0	0	1,367	1,238	141,400	0	3.0	67.0
TOTALS	0	26,447	0	0	35,291	18,046	0	0	79,784	358,735				

TABLE 31

1001-11

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

THE DALLES PROJECT

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	554	0	0	18	1,008	0	0	1,580	1,235	153,800	0	3.1	68.0
2	0	439	0	0	37	1,185	0	0	1,661	955	167,000	200	3.1	68.0
3	0	555	0	0	16	870	0	0	1,441	710	122,600	0	3.1	68.0
4	0	0	430	0	7	921	0	0	1,358	572	140,700	0	3.2	68.0
5	0	0	764	0	5	815	0	0	1,584	236	129,500	0	3.3	70.0
6	0	0	581	0	26	963	0	0	1,570	165	155,300	0	3.0	68.0
7	0	0	581	0	22	778	0	0	1,381	232	156,800	0	3.1	68.0
8	0	0	596	0	36	1,045	0	0	1,677	195	147,500	0	3.0	68.0
9	0	0	700	0	3	807	0	0	1,510	206	112,500	0	3.1	68.0
10	0	0	692	7	12	649	0	0	1,360	161	84,200	0	3.1	68.0
11	0	0	339	0	2	611	0	0	952	72	158,600	0	3.0	69.0
12	0	0	576	12	0	715	0	0	1,303	88	128,900	0	3.0	69.0
13	0	0	382	2	0	593	0	0	977	103	145,300	0	3.0	69.0
14	0	0	497	5	3	431	0	0	936	81	153,000	0	3.2	69.0
15	0	0	684	0	6	658	0	0	1,348	45	143,800	0	3.1	69.0
16	0	0	543	0	7	611	0	0	1,161	70	91,000	0	3.3	69.0
17	0	0	488	0	6	416	0	0	910	61	91,800	0	3.2	69.0
18	0	0	830	5	8	409	0	0	1,252	28	119,000	0	3.7	69.0
19	0	0	847	6	3	384	0	0	1,240	24	127,100	0	4.3	69.0
20	0	0	948	10	1	441	0	0	1,400	27	127,200	0	4.0	69.0
21	0	0	732	6	2	395	0	0	1,135	18	120,300	0	4.0	69.0
22	0	0	450	2	1	304	0	0	757	28	123,400	0	3.7	69.0
23	0	0	830	7	0	312	0	0	1,149	6	91,500	0	3.6	68.0
24	0	0	1,877	21	0	658	0	0	2,556	19	87,000	0	4.0	68.0
25	0	0	1,741	11	0	832	0	0	2,584	8	103,000	0	4.2	67.0
26	0	0	1,815	30	1	831	0	0	2,677	14	110,400	0	4.2	68.0
27	0	0	1,168	30	2	801	0	0	2,001	23	178,000	0	4.0	68.0
28	0	0	1,969	31	0	742	0	0	2,742	19	203,700	0	3.9	67.0
29	0	0	1,894	61	1	638	0	0	2,594	8	161,300	0	3.7	67.0
30	0	0	1,970	85	0	315	0	0	2,370	22	146,200	0	3.7	67.0
31	0	0	2,501	134	0	393	0	0	3,028	11	124,600	0	3.9	67.0
TOTALS	0	1,548	27,425	465	225	20,531	0	0	50,194	5,442				

TABLE 31

TABLE 32

MONTHLY FISH PASSAGE SUMMARY REPORT — THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	2,337	174	0	374	0	0	2,885	12	106,800	0	4.0	67.0
2	0	0	2,072	196	0	555	0	0	2,823	4	136,500	0	4.0	67.0
3	0	0	2,139	120	0	536	0	0	2,795	4	140,000	0	4.0	66.0
4	0	0	3,115	209	1	501	0	0	3,826	2	127,800	0	4.2	67.0
5	0	0	5,428	198	0	495	0	0	6,121	5	122,300	0	4.2	67.0
6	0	0	3,927	433	0	535	0	0	4,895	0	87,600	0	4.2	67.0
7	0	0	7,633	517	1	528	0	0	8,679	1	98,000	0	4.4	67.0
8	0	0	4,840	593	0	766	0	0	6,199	1	110,900	0	4.0	67.0
9	0	0	4,765	513	0	539	0	0	5,817	2	123,000	0	3.8	67.0
10	0	0	5,844	522	0	511	0	0	6,877	1	129,900	0	4.0	67.0
11	0	0	4,441	539	0	530	0	0	5,510	1	115,400	0	4.0	67.0
12	0	0	6,872	458	0	638	0	0	7,968	1	103,100	0	4.0	67.0
13	0	0	5,218	758	0	788	0	0	6,764	1	90,600	0	4.2	67.0
14	0	0	5,592	409	0	421	0	0	6,422	0	78,500	0	4.6	68.0
15	0	0	4,033	416	0	380	0	0	4,829	7	121,000	0	4.5	68.0
16	0	0	3,791	498	0	446	0	0	4,735	6	95,200	0	4.3	67.0
17	0	0	4,406	683	0	786	0	0	5,875	1	104,300	0	4.3	67.0
18	0	0	2,808	456	0	319	0	0	3,583	2	97,800	0	4.5	66.0
19	0	0	1,902	379	0	230	0	0	2,511	4	123,100	0	4.5	66.0
20	0	0	2,007	394	0	251	0	0	2,652	2	91,600	0	4.5	66.0
21	0	0	1,145	172	0	195	0	0	1,512	3	92,300	0	4.5	66.0
22	0	0	869	186	0	118	0	0	1,173	13	121,700	0	4.4	67.0
23	0	0	750	160	0	164	0	0	1,074	0	127,300	0	4.5	67.0
24	0	0	631	168	0	115	0	0	914	0	126,000	0	4.5	66.0
25	0	0	604	196	0	161	0	0	961	0	116,400	0	4.5	66.0
26	0	0	611	238	0	142	0	0	991	11	107,200	0	4.2	66.0
27	0	0	618	250	0	161	0	0	1,029	0	104,300	0	5.0	66.0
28	0	0	621	204	0	131	0	0	956	0	82,100	0	4.6	66.0
29	0	0	655	147	0	129	0	0	931	20	115,700	0	4.7	66.0
30	0	0	519	147	0	74	0	0	740	0	125,600	0	4.6	66.0
TOTALS	0	0	90,193	10,333	2	11,519	0	0	112,047	104				

TABLE 33

1119-11

MONTHLY FISH PASSAGE SUMMARY REPORT — THE DALLES PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	432	81	0	61	0	0	574	1	103,800	0	4.5	65.0
2	0	0	340	98	0	57	0	0	495	2	107,200	0	4.5	65.0
3	0	0	356	59	0	50	0	0	505	0	102,600	0	4.5	65.0
4	0	0	362	137	0	214	0	0	713	1	117,800	0	4.5	65.0
5	0	0	388	78	0	231	0	0	697	2	84,300	0	4.5	65.0
6	0	0	244	75	0	167	0	0	486	0	100,400	0	4.3	65.0
7	0	0	265	55	0	65	0	0	385	0	112,000	0	4.9	64.0
8	0	0	160	35	0	59	0	0	254	0	120,700	0	4.7	64.0
9	0	0	133	31	1	79	0	0	244	0	123,400	0	4.3	64.0
10	0	0	214	44	0	154	0	0	412	1	118,500	0	4.6	64.0
11	0	0	298	138	0	268	0	0	704	0	81,100	0	4.7	64.0
12	0	0	327	149	0	241	0	0	717	0	76,900	0	4.9	64.0
13	0	0	349	111	0	167	0	0	627	0	100,600	0	4.9	63.0
14	0	0	264	75	0	87	0	0	426	0	115,900	0	4.7	62.0
15	0	0	179	73	0	90	0	0	342	0	129,500	0	4.9	62.0
16	0	0	236	53	0	92	0	0	381	0	141,200	0	4.9	62.0
17	0	0	209	80	0	105	0	0	394	2	111,300	0	4.9	62.0
18	0	0	434	110	0	104	0	0	648	0	80,800	0	4.9	61.0
19	0	0	285	107	0	86	0	0	478	0	81,400	0	4.9	61.0
20	0	0	317	76	0	80	0	0	473	0	122,200	0	4.8	60.0
21	0	0	231	136	0	93	0	0	460	0	137,600	0	4.8	60.0
22	0	0	273	136	0	94	0	0	503	1	132,600	0	4.6	60.0
23	0	0	462	233	0	116	0	0	811	0	154,200	0	4.2	59.0
24	0	0	287	182	0	85	0	0	554	0	167,500	0	4.0	58.0
25	0	0	161	39	0	84	0	0	284	0	133,700	0	3.7	58.0
26	0	0	189	145	0	67	0	0	401	0	136,800	0	4.2	57.0
27	0	0	138	163	0	66	0	0	367	0	146,900	0	4.2	57.0
28	0	0	146	54	0	50	0	0	250	0	131,700	0	4.4	57.0
29	0	0	117	120	0	59	0	0	296	0	142,400	0	4.0	56.0
30	0	0	148	126	0	44	0	0	318	0	130,100	0	4.0	56.0
31	0	0	136	156	0	39	0	0	331	0	139,400	0	4.0	57.0
TOTALS	0	0	8,120	3,155	1	3,254	0	0	14,530	10				

TABLE 34
WATER TEMPERATURE AND STREAM FLOW
THE DALLES - 1975

	NOVEMBER			DECEMBER		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	56	133,800	5 2	47	145,800	5 5
2	56	123,900	4 8	47	196,200	4 9
3	56	113,700	4 8	47	210,200	4 4
4	55	138,200	4 8	47	247,600	4 6
5	55	151,100	4 3	47	192,200	4 2
6	55	151,400	4 5	47	219,300	4 0
7	54	162,000	4 4	47	178,500	4 0
8	54	139,800	4 0	47	251,200	4 2
9	53	133,200	4 5	46	264,000	3 8
10	53	154,500	5 0	46	240,800	3 5
11	53	149,000	4 3	46	215,300	3 5
12	53	162,000	4 0	45	227,200	3 7
13	53	135,500	4 0	45	207,000	3 0
14	53	139,700	4 0	45	229,500	1 8
15	53	109,400	4 2	45	162,500	1 1
16	53	128,500	4 3	45	186,700	1 2
17	53	180,500	4 0	44	219,200	1 4
18	52	184,600	4 1	43	212,400	1 2
19	50	203,300	3 9	43	207,200	1 6
20	50	182,500	3 8	43	168,500	1 8
21	49	162,600	4 0	42	162,400	1 5
22	49	126,900	4 0	41	197,400	1 8
23	49	129,700	4 3	41	190,800	1 8
24	48	149,400	4 3	41	144,700	1 8
25	48	150,300	4 3	41	158,300	2 0
26	48	149,800	4 3	41	139,500	2 6
27	48	152,800	4 0	41	191,400	2 6
28	47	153,200	4 4	41	176,300	2 6
29	47	166,500	4 4	41	182,200	3 0
30	47	151,300	4 5	41	212,500	2 4
31				41	222,100	2 4

TABLE 35

PEAK DAYS OF FISH MIGRATION

THE DALLES DAM - 1957-1975

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho		Chum		Shad	
Year	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish
1957	May 1	11,098	Jun 21	8,066	Sep 7	4,353	Jul 31	3,368	Jun 25	4,753	Sep 16	500	Nov 22	12	Jul 13	629
1958	May 10	5,407	Jun 19	4,134	Sep 17	9,694	Sep 15	5,409	Jul 9	6,346	Sep 4-5	174	Oct 31	4	Jun 26	336
1959	Apr 26	2,202	Jun 24	2,882	Sep 16	4,228	Jul 27	4,784	Jul 10	6,583	Sep 13	254	Nov 24	4	Jul 20	400
1960	May 4	4,414	Jun 16	4,827	Sep 7	3,336	Jul 28	3,144	Jun 25	3,661	Sep 3	258	Nov 3	4	Jul 3	4,934
1961	Apr 30	5,762	Jun 22	2,093	Sep 7	4,251	Sep 8	6,030	Jun 29	1,199	Sep 8	159	None		Jul 6	9,172
1962	Apr 28	4,104	Jun 17	3,005	Sep 3	3,463	Sep 10	5,731	Jul 8	1,511	Sep 16	227	None		Jul 15	14,039
1963	May 2	2,777	Jun 17	1,575	Sep 7	5,032	Jul 31	4,075	Jul 2	3,930	Sep 17	413	Oct 24	5	Jul 6	9,917
1964	Apr 26	3,351	Jun 29	2,390	Sep 7	4,134	Jul 28	3,235	Jul 7	6,571	Sep 14	310	None		Jul 13	13,859
1965	May 13	2,155	Jun 26	2,115	Sep 10	7,726	Jul 27	5,217	Jul 2	3,866	Sep 13	841	Oct 23	1	Jul 6	24,203
1966	Apr 18	5,607	Jul 1	2,004	Sep 18	3,275	Jul 19	3,242	Jul 1	8,436	Sep 4	1,743	None		Jul 12	15,926
1967	Apr 23	5,320	Jul 2	3,444	Sep 17	8,273	Sep 18	4,427	Jul 8	9,551	Sep 9	3,061	Sep 30	1	Jul 8	9,733
1968	Apr 24	5,129	Jun 30	2,054	Sep 10	5,299	Aug 31	4,634	Jun 28	10,962	Sep 7	2,895	None		Jul 6	14,582
1969	May 10	6,638	Jun 21	3,633	Sep 13	8,182	Sep 7	2,725	Jul 5	2,185	Sep 18	849	None		Jun 22	32,588
1970	Apr 18	4,557	Jun 27	1,618	Sep 13	9,321	Sep 11	4,087	Jul 4	3,859	Sep 13	1,746	None		Jun 27	20,903
1971	Apr 30	4,961	Jul 4	1,734	Sep 11	8,072	Sep 4	7,004	Jul 9	5,673	Sep 6	2,542	None		Jul 18	13,921
1972	Apr 25	7,510	Jul 8	1,879	Sep 11	7,910	Sep 18	5,473	Jul 7	2,554	Sep 16	1,367	None		Jul 7	18,477
1973	Apr 21	10,513	Jul 2	991	Sep 9	10,512	Sep 8	2,803	Jul 3	3,394	Sep 9	729	None		Jun 6	40,725
1974	May 9	2,917	Jul 6	1,313	Sep 11	7,276	Jul 21	1,472	Jul 5	2,385	Sep 11	745	None		Jul 7	15,189
1975	May 11	2,331	Jul 16	1,356	Sep 7	7,633	Jul 28	1 363	Jul 6	4,111	Sep 13	788	None		Jul 8	27 816
Total		96,753		51,113		122,880		78,223		91,530		19,601		31		287,349
19 Year Average		5,092		2,690		6,467		4,117		4,817		1,032				15,124

TABLE 36

TABLE 36

MONTHLY COUNT OF CHINOOK SALMON

THE DALLES DAM - 1957-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Jan 1- Jun 3	SUMMER Jun 4- Aug 3	FALL Aug 4- Dec 31	Jacks
1957			22	42,161	59,410	86,096	35,643	28,828	56,753	3,564	201		312,678	109 723	116 661	86 294	37,374
1958			114	8,268	47,862	59,955	24,381	17,211	141,262	2,788	119		301,960	61,747	80,139	160 074	19 747
1959			8	16 771	32,634	27 799	42 817	20 142	65 229	2 022	39		207,461	50,874	71,362	85,225	39,857
1960				17,073	40,091	52,577	22,549	15,225	46,453	2,720	274		196 962	58 406	75,315	63 241	30 847
1961				43,822	35,059	24,478	24,596	16,866	53,371	3,143			201,335	79,183	50 824	71 328	35,409
1962				33,069	35,629	34,488	21,515	13,461	46,135	2,835			187,132	69,139	57,007	60,986	17,835
1963				19 119	33 207	25 063	20,414	21,865	57,248	4 053			180,969	52,937	47 333	80,699	54,749
1964			340	35,551	24,447	16,801	37,697	17,452	49,811	1,743			183,842	60,691	56,360	66,791	30 900
1965			190	17 870	24 930	17 900	31 072	25,119	74,904	3,064			195,049	43,617	50,527	100,905	67,552
1966			1,068	72,267	22 837	25 530	33 712	14 978	65,380	4,899			240,671	96,628	61,062	82,981	36,482
1967				48,744	22,817	24,718	45,346	23,927	107,427	7,133			280,112	71,976	72,582	135 554	98,817
1968			100	52 144	45,057	32,827	33,272	22,361	72,209	4,800	205		262 975	98 742	67,391	96,842	64,644
1969			65	19 025	80 162	33 432	27,750	29,330	118,890	5 604			314,258	100,482	61,978	151,798	96 244
1970				53 370	29 670	22 903	23 318	34 906	93,633	3 657			261,457	83,549	48,115	129 793	85 471
1971				28 227	44,181	22,011	29,655	16,190	103,370	6 894			250,528	73,655	51,847	125 026	75,329
1972				68,955	33,508	17,354	29,756	21,828	91,666	5,561			268,628	103,107	48,660	116 861	81,668
1973				94,334	15 040	19 548	19 181	23 341	101,771	7,730			280,945	111 088	38,774	131,083	72 088
1974				13,415	41 902	7 141	22 709	13 964	103 804	14,246			217,181	56 397	30,273	130,511	79 840
1975				18,52o	32 869	12 155	26,447	28,973	90,193	8,120			217,283	52,483	39,062	125,738	74,418
Total			1,907	702,711	701,312	562,776	551,830	405,967	1,539,509	94,576	838		4,561,426	1,434,424	1,125,272	2,001,730	1,099,271
19 Year Average				36 985	36,911	29,620	29,044	21,367	81,027	4,978			240,075	75,496	59,225	105,354	57,256

TABLE 37

MONTHLY COUNT OF SOCKEYE SALMON

THE DALLES DAM - 1957-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1957					125	33,476	54,294	2,081	221	4			90,201
1958					29	28,854	80,324	1,583	248	1			111,039
1959					413	7,176	76,347	2,245	77	1			86,259
1960					2	36,907	22,228	297	7				59,441
1961					66	5,863	10,629	116	15				16,689
1962					55	8,333	18,545	180	14				27,127
1963					199	17,914	38,633	185	-				56,931
1964					23	9,984	68,205	758	72				79,042
1965					184	11,023	31,622	1,438	12				44,279
1966					65	36,539	109,167	2,106	9				147,886
1967					114	15,713	103,862	892	8				120,589
1968					5	77,878	38,542	462	10				116,897
1969					22	15,165	21,933	102	3	1			37,226
1970					1	18,309	56,903	2,387	75	3			77,678
1971						8,887	66,841	369	6				76,103
1972						9,276	34,924	466	5				44,671
1973					8	19,510	32,674	105	6				52,303
1974					4	3.935	24.790	98					28.827
1975						7,679	35,291	225	2	1			43,198
Total					1,315	372,421	925,754	16,095	790	11			1,316,386
19-Year Average					73	19,601	48,724	847	42				69,283

TABLE 37

TABLE 38

MONTHLY COUNT OF COHO SALMON

THE DALLES DAM - 1957-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total*	Jacks
1957							220	605	5,615	342	11		6,793	
1958								96	2,132	161	6		2,395	
1959								46	2,428	234	1		2,709	
1960								475	2,288	227	10		3,000	
1961							4	5	1,898	232			2,139	
1962							5	258	3,194	239			3,696	
1963							2	361	2,931	422			3,716	
1964								506	4,723	749			5,978	
1965							7	200	13,064	4,197			17,468	
1966							225	3,850	25,476	2,728			32,279	
1967							192	494	27,860	3,469			32,015	20,456
1968							372	3,319	36,568	2,346	82		42,687	13,035
1969							412	970	13,179	2,493			17,054	11,218
1970							96	2,064	19,983	1,076			23,219	11,327
1971							1	1,589	26,066	1,405			29,061	11,174
1972							3	1,090	14,564	905			16,562	10,272
1973								793	9,443	916			11,152	5,256
1974								522	10.715	3,418			14,655	9,054
1975								465	10,356	3,155			13,976	8,534
Total							1,539	17,708	232,483	28,714	110		280,554	100,326
19-Year Average							81	932	12,236	1,511			14,766	11,147

* Total including Jacks

** 8-Year average Coho "Jacks"

TABLE 39

MONTHLY COUNT OF STEELHEAD TROUT

THE DALLES DAM - 1957-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Spring & Summer Run Total	Sep	Oct	Nov	Dec	Total
1957			1,603	951	977	4,782	45,445	33,319	87,077	35,396	6,545	343		129,361
1958			122	274	1,898	4,906	20,384	11,442	39,026	75,036	6,846	512		121,420
1959			1	541	502	2,227	46,271	60,841	110,383	41,026	4,502	179		156,090
1960				289	557	2,591	28,218	32,667	64,322	42,447	4,021	399		111,189
1961				305	307	1,396	21,906	17,850	41,764	87,344	5,464			134,572
1962				528	252	1,068	36,609	31,507	69,964	87,463	5,874			163,301
1963				153	451	1,361	30,485	25,360	57,810	48,066	13,081			118,957
1964			50	369	127	493	36,773	31,742	69,554	38,197	2,282			110,033
1965			36	502	484	896	60,522	21,132	83,572	53,389	4,091			141,052
1966		25	788	933	600	3,816	52,975	26,382	85,519	53,721	6,932			146,172
1967				258	183	435	27,914	22,746	51,536	56,082	13,996			121,614
1968			23	691	344	973	20,974	58,866	81,871	57,666	7,456			147,481
1969			54	953	414	1,442	33,952	22,963	59,778	44,146	8,605			112,529
1970				337	172	733	15,905	32,752	49,899	44,823	4,465			99,187
1971				408	233	821	40,712	31,812	73,986	69,602	7,760			151,348
1972				463	159	604	35,569	30,631	67,426	63,748	4,129			135,303
1973				723	326	1,981	29,067	25,437	57,534	38,017	4,531			100,082
1974				529	1,362	1,859	24,779	21,835	50,364	15 059	5 452			70 875
1975				1,018	1,334	1,973	18,046	20,531	42,902	11,519	3,254			57,675
Total		25	2,677	10,225	10,682	34,357	626,506	559,815	1,244,287	962,747	119,286	1,921		2,328,241
19-Year Average				538	562	1,808	32,974	29,464	65,489	50,671	6,278			122,529

* Subtotal through 31 August

TABLE 40

YEARLY PERCENTAGE OF SALMONIDS COUNTED OVER EACH FISH LADDER

THE DALLES DAM - 1957-1975

Year	Chinook		Sockeye		Coho		Steelhead		Percentage of Total Salmonids*	
	East	North	East	North	East	North	East	North	East	North
1957	57 4	42.6	47.2	52 8	61.8	38.2	55.6	44.4	55.3	44 7
1958	63.4	36.6	46.5	53.5	78.1	21.9	69 8	30.2	61.4	38.6
1959	71.4	28.6	52.0	48.0	72.5	27.5	77 2	22.8	69 7	30.3
1960	77.7	22.3	57 3	42 7	79.4	20 6	84.7	15.3	76.6	23.4
1961	80.0	20.0	58.9	41.1	79 9	20.1	83.0	17.0	80.1	19.9
1962	69.8	30.2	59.7	42 3	66.3	33.7	74.5	25.5	71.0	29 0
1963	75.7	24 3	49.0	51 0	68 2	31.8	77.8	22 2	72.1	27.9
1964	75 4	24.6	52.6	47 4	81.4	18.6	80.4	19.6	72.2	27.8
1965	77.7	22.3	47 4	52 6	79 0	21.0	76.7	23.3	74.0	26.0
1966	81 8	18.2	46.0	54.0	86.6	13.4	82 8	17.2	73.0	27.0
1967	82.7	17.3	51.0	49.0	86.9	13.1	89.2	10.8	75.5	22.5
1968	81 9	18.1	54.4	45.6	84.5	15.5	85.9	14.1	77.2	22.8
1969	78 3	21.7	68.0	32.0	83.3	16.7	89.9	12.1	79.9	20.1
1970	87 9	12 1	67.7	32.3	87.2	12.7	92.0	8.0	85.4	14.6
1971	85.1	14 9	62.0	38 0	86 5	13.5	89 2	10.8	82 9	17 1
1972	88 2	11 8	58 8	41 2	89 8	10 2	89 3	10.7	85 8	14.2
1973										
1974	88.7	11 3	56 9	43.0	92.5	7.5	93.6	6.1	87 1	12.8
1975	89 8	10 2	66 6	33 4	90 4	9 6	94 5	5 5	87 6	12.3

* Not including chum or pink salmon.

TABLE 41

YEARLY TOTALS OF SALMONID FISH COUNTED OVER JOHN DAY DAM

1968 - 1975

Year	Chinook	Steelhead	Sockeye	Coho	Total Salmonid
1968	233,654	121,256	87,847	38,233	480,990
1969	276,051	86,348	39,847	13,589	415,835
1970	222,506	82,440	78,133	19,543	402,622
1971	193,881	115,977	72,232	40,830	422,920
1972	225,631	141,628	51,793	17,533	436,585
1973	249,492	101,440	64,744	13,359	429,035
1974	167,888	43,756	33,121	14,651	259,416
1975	159,079	32,651	50,774	6,305	248,809
Total	1,728,182	725,496	478,491	164,043	3,096,212
8-Year Average	216,022	90,687	59,811	20,505	387,027

TABLE 42

MONTHLY TOTALS OF SALMONIDS AND SHAD COUNTED OVER JOHN DAY DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK	-	-	-	7,727	27,989	11,058	21,359	18,250	65,367	7,329	-	-	159,079
STEELHEAD	-	-	-	760	428	648	6,251	8,583	9,977	6,004	-	-	32,651
SOCKEYE	-	-	-	-	-	6,154	44,454	163	2	1	-	-	50,774
COHO	-	-	-	-	-	-	-	85	4,266	1,954	-	-	6,305
CHUM	-	-	-	-	-	-	-	-	-	-	-	-	0
PINK	-	-	-	-	-	-	-	-	42	3	-	-	45
TOTAL SALMONID		-	-	8,487	28,417	17,860	72,064	27,081	79,654	15,291	-	-	248,854
SHAD	-	-	-	-	-	2,773	191,683	1,717	26	-	-	-	196,199

TABLE 43
WATER TEMPERATURE AND STREAM FLOW DATA
JOHN DAY - 1975

	JANUARY			FEBRUARY			MARCH		
	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	42	77,900	4 5	38	137 700	1 4	38	167,400	2 1
2	42	176,700	4 1	38	143 900	0 7	38	166,600	2 3
3	42	158,300	4 0	38	170,100	0 9	38	200,800	2 3
4	41	113,100	3 6	38	176,800	0 9	38	215,300	2 4
5	41	103,400	3 7	37	191,900	0 8	39	243,200	2 5
6	41	161,600	3 7	37	169 100	1 6	39	233,000	1 8
7	41	155,800	5 0	37	175,200	1 2	39	222,300	1 8
8	41	147,600	3 8	36	177,500	1 3	39	227,900	2 5
9	41	195,000	4 8	36	95,100	2 5	39	152,800	2 3
10	40	172,300	3 8	36	201,000	2 6	40	243,200	2 3
11	40	137,700	3 8	36	177,100	2 5	40	214,500	2 2
12	40	113,100	4 5	36	133,200	2 7	40	238,800	2 3
13	40	158,200	5 0	36	170,100	2 5	40	216,600	2 6
14	39	168,700	5 5	36	220,500	3 4	40	238,200	2 0
15	39	177,700	4 5	36	199,200	3 0	40	237,000	2 1
16	39	164,400	6 0	36	133,400	2 7	40	180,400	2 0
17	39	136,100	4 5	36	182,800	2 7	40	216,600	2 3
18	39	109 300	4 0	36	175,400	2 7	41	225,100	2 3
19	39	166,600	4 5	37	195,800	2 5	41	215,500	2 3
20	39	146,200	4 0	37	168,500	2 6	41	221,100	3 0
21	39	159,800	4 0	37	215,100	1 8	41	210,600	3 2
22	39	191,800	4 5	37	198,800	3 5	41	186,700	2 6
23	39	152,300	4 0	38	156,400	2 0	41	237,300	2 5
24	39	147,800	4 4	37	187,800	2 6	41	219,800	3 2
25	39	151,600	1 2	37	198,800	2 4	41	224,400	2 6
26	39	173,800	3 8	37	203,000	2 5	41	225,800	2 4
27	39	125,300	1 5	37	193,700	3 5	41	253,800	2 5
28	39	151,500	3 2	37	177,500	2 2	41	247,400	2 2
29	39	172,800	1 4				41	180,800	2 2
30	39	173,800	2 0				41	147,500	2 4
31	39	201,000	2 0				41	235,400	2 3

TABLE 44

MONTHLY FISH PASSAGE SUMMARY REPORT — JOHN DAY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	3	0	0	0	0	72	0	0	75	0	254,700	0	2.2	40.9
2	1	0	0	0	0	42	0	0	43	0	228,500	0	1.8	41.2
3	0	0	0	0	0	13	0	0	13	0	202,800	0	2.4	41.3
4	2	0	0	0	0	42	0	0	44	0	179,700	0	2.3	41.6
5	0	0	0	0	0	16	0	0	16	0	140,000	0	2.3	42.9
6	4	0	0	0	0	-35	0	0	-31	0	171,600	0	2.2	43.5
7	4	0	0	0	0	29	0	0	33	0	204,800	0	2.5	43.2
8	1	0	0	0	0	0	0	0	1	0	191,000	0	2.5	44.0
9	9	0	0	0	0	67	0	0	76	0	223,000	0	2.8	42.5
10	24	0	0	0	0	9	0	0	33	0	218,900	0	2.3	42.5
11	21	0	0	0	0	1	0	0	22	0	190,700	0	3.2	42.9
12	46	0	0	0	0	39	0	0	85	0	150,100	0	2.6	43.3
13	50	0	0	0	0	36	0	0	86	0	145,500	0	2.4	43.5
14	57	0	0	0	0	29	0	0	86	0	227,300	0	2.6	43.7
15	61	0	0	0	0	52	0	0	113	0	241,100	0	2.5	44.0
16	127	0	0	0	0	24	0	0	151	0	217,000	0	1.8	44.7
17	121	0	0	0	0	5	0	0	126	0	206,500	0	2.2	44.9
18	325	0	0	0	0	-17	0	0	308	0	157,800	0	1.8	45.2
19	896	0	0	0	0	20	0	0	916	0	179,200	0	2.0	45.6
20	481	0	0	0	0	69	0	0	550	0	184,200	0	1.8	45.9
21	258	0	0	0	0	19	0	0	277	0	201,800	0	2.3	46.2
22	278	0	0	0	0	32	0	0	310	0	215,500	0	2.0	47.4
23	590	0	0	0	0	36	0	0	626	0	224,600	0	2.5	46.9
24	650	0	0	0	0	-2	0	0	648	0	256,700	0	2.0	48.0
25	581	0	0	0	0	20	0	0	601	0	252,000	0	2.0	47.5
26	679	0	0	0	0	26	0	0	705	0	225,200	0	2.0	47.8
27	887	0	0	0	0	31	0	0	918	0	242,200	0	0.8	47.9
28	555	0	0	0	0	36	0	0	591	0	270,300	0	1.6	47.8
29	389	0	0	0	0	46	0	0	435	0	225,800	0	1.4	47.7
30	627	0	0	0	0	3	0	0	630	0	211,400	0	1.8	47.7
TOTALS	7,727	0	0	0	0	760	0	0	8,487	0				

TABLE 45

0703- 3

MONTHLY FISH PASSAGE SUMMARY REPORT — JOHN DAY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONIC	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	966	0	0	0	0	45	0	0	1,011	0	215,800	0	1.5	48.7
2	557	0	0	0	0	0	0	0	557	0	241,600	4,300	2.0	48.6
3	1,329	0	0	0	0	44	0	0	1,373	0	256,700	9,500	2.2	48.8
4	1,158	0	0	0	0	-2	0	0	1,156	0	263,900	19,200	1.8	49.0
5	1,715	0	0	0	0	16	0	0	1,731	0	268,400	18,600	2.0	49.3
6	858	0	0	0	0	10	0	0	868	0	258,000	10,000	2.0	49.3
7	1,349	0	0	0	0	19	0	0	1,368	0	250,200	9,200	1.8	49.2
8	813	0	0	0	0	38	0	0	851	0	240,800	0	1.9	49.4
9	1,730	0	0	0	0	8	0	0	1,738	0	228,400	0	1.9	49.7
10	864	0	0	0	0	27	0	0	891	0	242,200	13,200	2.0	50.5
11	1,397	0	0	0	0	-13	0	0	1,384	0	220,100	13,100	2.0	50.7
12	1,723	0	0	0	0	-17	0	0	1,706	0	278,400	39,400	1.7	50.9
13	2,115	0	0	0	0	-5	0	0	2,110	0	317,400	62,500	2.0	51.4
14	1,572	0	0	0	0	4	0	0	1,576	0	326,300	57,700	1.2	53.3
15	1,399	0	0	0	0	15	0	0	1,414	0	358,500	103,700	2.0	53.0
16	845	0	0	0	0	20	0	0	865	0	385,500	131,400	1.4	53.6
17	793	0	0	0	0	36	0	0	829	0	410,800	159,200	1.7	54.1
18	757	0	0	0	0	24	0	0	781	0	395,000	145,300	1.6	53.9
19	797	0	0	0	0	-11	0	0	786	0	362,500	93,600	1.3	53.8
20	719	0	0	0	0	0	0	0	719	0	353,700	73,700	1.5	53.5
21	645	0	0	0	0	26	0	0	671	0	353,900	81,800	1.1	53.6
22	414	0	0	0	0	7	0	0	421	0	355,500	94,500	1.5	53.3
23	405	0	0	0	0	10	0	0	415	0	318,500	71,300	1.0	53.3
24	381	0	0	0	0	2	0	0	383	0	321,000	139,400	1.1	53.1
25	269	0	0	0	0	37	0	0	306	0	342,000	205,800	1.2	53.1
26	441	0	0	0	0	10	0	0	451	0	342,700	172,800	1.8	53.2
27	375	0	0	0	0	19	0	0	394	0	338,300	95,800	1.5	53.3
28	399	0	0	0	0	13	0	0	412	0	330,500	90,100	1.6	53.5
29	304	0	0	0	0	9	0	0	313	0	329,900	84,400	1.6	53.6
30	546	0	0	0	0	15	0	0	561	0	328,200	87,400	1.8	53.9
31	354	0	0	0	0	22	0	0	376	0	329,200	141,200	2.0	54.6
TOTALS	27,989	0	0	0	0	428	0	0	28,417	0				

TABLE 46

MONTHLY FISH PASSAGE SUMMARY REPORT — JOHN DAY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONIC	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	267	0	0	0	0	18	0	0	285	0	343,200	187,500	2.0	56.4
2	259	0	0	0	0	9	0	0	268	0	360,500	126,000	2.0	56.4
3	429	0	0	0	0	36	0	0	465	0	374,500	123,700	2.1	52.6
4	535	0	0	0	0	35	0	0	570	0	371,500	90,900	2.1	57.1
5	510	0	0	0	0	30	0	0	540	0	358,900	100,900	1.9	57.4
6	0	325	0	0	0	26	0	0	351	1	364,300	110,600	1.5	57.8
7	0	295	0	0	0	32	0	0	327	2	372,800	154,800	1.6	57.9
8	0	279	0	0	0	16	0	0	295	2	372,800	173,300	1.5	58.1
9	0	316	0	0	0	26	0	0	342	24	363,700	101,400	1.6	58.6
10	0	288	0	0	0	23	0	0	311	12	353,200	102,200	1.5	58.5
11	0	229	0	0	0	15	0	0	244	1	351,400	102,500	1.6	58.3
12	0	246	0	0	5	33	0	0	284	6	338,100	84,500	1.5	58.3
13	0	309	0	0	16	22	0	0	347	15	325,700	74,800	2.0	57.9
14	0	266	0	0	20	13	0	0	299	20	318,400	95,300	1.5	57.3
15	0	269	0	0	28	22	0	0	319	77	302,500	123,300	1.6	58.1
16	0	736	0	0	36	29	0	0	801	31	303,600	61,300	1.6	58.0
17	0	376	0	0	39	23	0	0	438	83	300,300	50,800	2.0	58.0
18	0	573	0	0	54	27	0	0	654	104	302,100	66,300	2.0	58.0
19	0	268	0	0	66	19	0	0	353	189	325,800	78,700	1.7	57.8
20	0	245	0	0	73	2	0	0	320	138	325,700	116,800	2.0	57.6
21	0	154	0	0	78	12	0	0	244	97	315,600	95,600	1.4	57.5
22	0	308	0	0	225	14	0	0	547	367	297,100	121,500	1.8	57.4
23	0	364	0	0	271	26	0	0	661	176	289,500	57,100	1.7	57.4
24	0	775	0	0	496	31	0	0	1,302	352	306,500	77,700	1.8	57.8
25	0	654	0	0	538	10	0	0	1,202	160	321,100	110,600	1.8	57.7
26	0	421	0	0	579	12	0	0	1,012	201	324,500	108,100	2.0	57.7
27	0	314	0	0	497	28	0	0	839	101	319,300	104,600	1.7	57.7
28	0	296	0	0	610	13	0	0	919	67	306,400	125,900	1.8	57.8
29	0	387	0	0	1,172	22	0	0	1,581	126	286,700	149,500	1.5	57.2
30	0	365	0	0	1,351	24	0	0	1,740	421	274,200	73,200	2.0	58.1
TOTALS	2,000	9,058	0	0	6,154	648	0	0	17,860	2,773				

MONTHLY FISH PASSAGE SUMMARY REPORT — JOHN DAY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONIC	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	517	0	0	1,896	52	0	0	2,465	936	227,100	32,000	2.1	57.4
2	0	474	0	0	2,653	42	0	0	3,169	821	198,500	11,000	2.0	57.4
3	0	663	0	0	3,121	69	0	0	3,853	1,677	256,000	69,500	2.4	57.9
4	0	648	0	0	2,971	39	0	0	3,658	3,732	245,400	84,600	2.5	59.1
5	0	801	0	0	3,239	32	0	0	4,072	7,227	229,800	38,200	2.8	63.1
6	0	869	0	0	4,958	68	0	0	5,895	7,262	247,200	67,700	1.7	61.5
7	0	732	0	0	3,538	56	0	0	4,326	5,098	304,400	94,300	3.5	63.4
8	0	643	0	0	2,731	86	0	0	3,460	10,060	303,400	79,600	3.3	63.7
9	0	772	0	0	3,420	87	0	0	4,279	15,522	291,300	59,800	3.2	63.7
10	0	957	0	0	3,152	134	0	0	4,243	21,048	266,000	39,600	3.0	62.7
11	0	698	0	0	2,371	89	0	0	3,158	19,059	257,500	51,400	3.4	63.2
12	0	671	0	0	2,262	156	0	0	3,089	14,237	235,600	53,800	2.4	63.2
13	0	957	0	0	1,715	140	0	0	2,812	9,442	197,900	19,100	2.0	63.9
14	0	485	0	0	819	153	0	0	1,457	2,502	221,900	0	1.5	64.2
15	0	661	0	0	894	136	0	0	1,691	7,631	224,600	0	1.8	64.8
16	0	880	0	0	876	193	0	0	1,949	9,743	192,300	0	1.7	64.9
17	0	771	0	0	787	173	0	0	1,731	10,445	210,000	0	2.0	65.1
18	0	603	0	0	570	204	0	0	1,377	8,368	199,800	0	1.8	65.4
19	0	504	0	0	391	192	0	0	1,087	3,045	182,400	0	1.6	65.8
20	0	749	0	0	430	241	0	0	1,420	3,463	152,300	0	1.5	65.8
21	0	418	0	0	243	220	0	0	881	1,861	197,700	0	1.5	65.9
22	0	655	0	0	264	276	0	0	1,195	6,454	192,000	0	2.0	66.1
23	0	534	0	0	150	240	0	0	924	3,294	136,300	0	1.4	66.4
24	0	793	0	0	254	263	0	0	1,310	3,178	167,100	0	1.8	67.1
25	0	687	0	0	191	291	0	0	1,169	2,233	177,100	0	2.3	67.2
26	0	842	0	0	153	327	0	0	1,322	3,985	122,100	0	2.7	67.9
27	0	911	0	0	160	422	0	0	1,493	3,898	87,100	0	2.4	69.7
28	0	684	0	0	93	459	0	0	1,236	1,396	146,500	0	2.4	67.4
29	0	781	0	0	78	583	0	0	1,442	1,567	109,600	0	2.5	68.1
30	0	617	0	0	40	451	0	0	1,108	1,286	138,000	0	2.5	67.8
31	0	382	0	0	34	377	0	0	793	1,213	143,700	0	2.0	67.8
TOTALS	0	21,359	0	0	44,454	6,251	0	0	72,064	191,683				

TABLE 48

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

JOHN DAY PROJECT

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONIC	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	258	0	0	15	211	0	0	484	436	160,200	0	3.0	68.0
2	0	251	0	0	7	255	0	0	513	210	165,900	0	2.1	68.2
3	0	503	0	0	26	396	0	0	925	169	117,700	0	3.0	68.1
4	0	434	0	0	21	386	0	0	841	116	136,500	0	2.6	68.8
5	0	316	0	0	19	282	0	0	617	75	133,300	0	2.0	67.6
6	0	0	560	0	19	325	0	0	904	129	153,700	0	2.5	67.4
7	0	0	459	0	7	414	0	0	880	88	151,700	0	2.5	67.7
8	0	0	334	0	7	303	0	0	644	67	145,500	0	2.5	67.9
9	0	0	288	0	13	294	0	0	595	80	104,100	0	2.4	68.0
10	0	0	446	0	10	334	0	0	790	45	85,100	0	2.0	67.8
11	0	0	250	0	2	240	0	0	492	44	163,200	0	2.0	67.7
12	0	0	168	0	3	163	0	0	334	25	125,400	0	3.0	67.7
13	0	0	288	0	7	198	0	0	493	28	147,400	0	4.0	68.8
14	0	0	208	0	2	205	0	0	415	24	149,300	0	3.8	69.2
15	0	0	390	0	3	241	0	0	634	32	143,000	0	3.2	69.0
16	0	0	348	0	0	267	0	0	615	36	90,100	0	3.0	68.4
17	0	0	385	0	0	231	0	0	616	22	82,900	0	3.5	68.4
18	0	0	321	0	1	158	0	0	480	22	123,700	0	2.7	68.2
19	0	0	381	0	0	184	0	0	565	8	124,000	0	3.5	68.1
20	0	0	473	0	0	199	0	0	672	18	123,000	0	2.8	67.8
21	0	0	629	0	0	176	0	0	805	1	125,500	0	2.8	67.7
22	0	0	486	2	0	215	0	0	703	1	115,300	0	2.5	67.4
23	0	0	704	0	0	215	0	0	919	7	88,800	0	2.6	67.0
24	0	0	603	1	1	197	0	0	802	6	86,300	0	3.0	66.5
25	0	0	1,223	10	0	322	0	0	1,555	0	98,200	0	2.4	66.4
26	0	0	1,140	5	0	391	0	0	1,536	5	115,100	0	3.0	66.2
27	0	0	1,354	8	0	510	0	0	1,872	7	175,500	0	2.7	67.0
28	0	0	1,041	8	0	446	0	0	1,495	8	192,800	0	2.5	66.4
29	0	0	1,194	13	0	291	0	0	1,498	2	174,600	0	2.5	66.3
30	0	0	1,338	18	0	258	0	0	1,614	0	142,700	0	3.0	66.0
31	0	0	1,477	20	0	276	0	0	1,773	6	119,500	0	3.0	65.7
TOTALS	0	1,762	16,488	85	163	8,583	0	0	27,081	1,717				

TABLE 49

1023- 3

MONTHLY FISH PASSAGE SUMMARY REPORT — JOHN DAY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONIC	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	1,438	22	0	237	0	0	1,697	5	94,800	C	4.2	65.8
2	0	0	1,507	38	0	215	0	0	1,760	6	148,000	C	3.5	65.7
3	0	0	1,740	69	0	290	0	0	2,099	4	133,200	C	4.0	66.0
4	0	0	1,826	64	0	239	0	0	2,129	0	124,100	C	3.0	66.0
5	0	0	2,306	93	0	335	0	0	2,734	1	119,500	C	4.2	66.5
6	0	0	3,807	172	0	413	0	0	4,392	2	83,600	C	3.5	67.0
7	0	0	3,315	178	0	489	0	0	3,982	1	89,100	0	4.2	65.9
8	0	0	4,172	314	0	714	0	0	5,200	0	114,800	C	3.5	65.2
9	0	0	3,989	175	0	584	0	0	4,748	0	123,400	C	3.5	66.2
10	0	0	3,506	226	0	453	0	0	4,185	0	128,200	C	4.5	66.3
11	0	0	4,214	217	0	474	0	0	4,905	0	109,800	0	3.7	66.7
12	0	0	3,906	266	1	423	0	0	4,596	1	110,200	C	3.5	66.9
13	0	0	3,302	337	0	461	0	1	4,101	0	86,300	0	3.7	67.4
14	0	0	3,950	339	0	465	0	0	4,754	0	77,000	C	7.0	67.5
15	0	0	2,406	392	0	363	0	0	3,161	0	108,600	C	3.8	67.5
16	0	0	3,112	287	0	411	0	0	3,810	0	100,700	C	3.8	65.9
17	0	0	2,967	261	0	400	0	2	3,630	0	102,300	C	3.6	65.9
18	0	0	2,197	171	0	482	0	3	2,853	0	98,400	C	2.8	65.9
19	0	0	2,798	135	0	383	0	7	3,323	0	126,400	C	4.5	66.0
20	0	0	2,152	121	0	266	0	9	2,548	4	86,800	0	4.0	66.2
21	0	0	1,197	54	0	193	0	6	1,450	0	91,300	C	3.0	66.2
22	0	0	1,113	47	0	162	0	7	1,329	0	120,500	C	3.0	66.4
23	0	0	413	47	0	116	0	2	578	0	128,100	C	3.1	66.4
24	0	0	663	45	0	147	0	0	855	2	122,700	0	3.2	65.9
25	0	0	550	48	0	179	0	0	777	0	112,100	C	2.7	65.7
26	0	0	521	40	0	255	0	0	816	0	107,500	0	3.0	65.4
27	0	0	698	29	0	257	0	2	986	0	102,500	C	3.2	65.2
28	0	0	623	26	1	208	0	1	859	0	80,100	C	3.2	65.5
29	0	0	565	37	0	224	0	1	827	0	112,200	C	3.0	65.1
30	0	0	414	16	0	139	0	1	570	0	121,600	C	3.0	65.2
TOTALS	0	0	65,367	4,266	2	9,977	0	42	79,654	26				

TABLE 50

MONTHLY FISH PASSAGE SUMMARY REPORT — JOHN DAY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	381	38	0	90	0	1	510	0	106,400	0	3.0	65.7
2	0	0	515	43	0	180	0	1	739	0	101,600	0	3.0	65.4
3	0	0	339	42	0	76	0	0	457	0	107,700	0	3.0	64.8
4	0	0	499	49	0	197	0	0	745	0	109,100	0	3.0	64.4
5	0	0	274	12	0	272	0	0	558	0	77,700	0	3.4	64.1
6	0	0	225	32	0	215	0	1	473	0	104,200	0	3.0	63.9
7	0	0	313	16	0	265	0	0	594	0	109,500	0	3.0	63.5
8	0	0	254	38	0	344	0	0	636	0	111,500	0	3.0	63.3
9	0	0	117	6	0	142	0	0	265	0	127,100	0	3.0	63.1
10	0	0	171	10	0	271	0	0	452	0	114,100	0	3.0	62.8
11	0	0	223	10	0	178	0	0	411	0	78,500	0	3.5	62.7
12	0	0	275	54	0	313	0	0	642	0	79,200	0	3.5	62.2
13	0	0	403	50	0	334	0	0	787	0	94,500	0	3.0	61.8
14	0	0	254	43	0	303	0	0	600	0	114,100	0	3.0	61.3
15	0	0	200	30	0	229	0	0	459	0	128,900	0	3.0	60.9
16	0	0	171	20	0	141	0	0	332	0	129,500	0	2.2	60.5
17	0	0	117	24	1	174	0	0	316	0	112,800	0	2.8	60.2
18	0	0	254	99	0	208	0	0	561	0	81,100	0	3.5	59.9
19	0	0	343	120	0	163	0	0	626	0	78,000	0	3.8	59.8
20	0	0	189	78	0	146	0	0	413	0	121,400	0	3.2	59.5
21	0	0	253	55	0	184	0	0	492	0	134,800	0	2.6	59.0
22	0	0	288	75	0	197	0	0	560	0	132,600	0	3.3	58.3
23	0	0	219	76	0	170	0	0	465	0	150,700	0	3.0	57.8
24	0	0	248	88	0	218	0	0	554	0	169,400	0	3.3	57.5
25	0	0	107	177	0	205	0	0	489	0	133,500	0	3.2	57.2
26	0	0	213	218	0	253	0	0	684	0	134,200	0	2.6	56.7
27	0	0	50	129	0	137	0	0	316	0	142,000	0	2.6	56.3
28	0	0	93	123	0	54	0	0	270	0	130,700	0	0.9	55.9
29	0	0	78	63	0	96	0	0	237	0	135,300	0	1.1	55.6
30	0	0	133	90	0	132	0	0	355	0	131,600	0	3.4	55.4
31	0	0	130	46	0	117	0	0	293	0	133,200	0	3.3	54.8
TOTALS	0	0	7,329	1,954	1	6,004	0	3	15,291	0				

TABLE 51
WATER TEMPERATURE AND STREAM FLOW DATA
JOHN DAY - 1975

	NOVEMBER			DECEMBER		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	55	131,200	3 3	46	150,700	3 0
2	54	120,600	3 1	46	193,000	3 0
3	54	116,100	3 2	46	207,400	3 0
4	54	135,100	3 4	46	237,400	3 0
5	54	147,400	2 3	46	194,500	4 8
6	53	144,600	3 2	46	213,500	4 8
7	53	159,600	2 7	46	178,700	4 4
8	53	138,200	3 1	45	256,500	4 1
9	53	123,400	3 0	45	266,800	3 9
10	52	166,400	3 0	45	231,500	3 8
11	52	153,700	3 5	45	216,300	3 5
12	52	151,800	3 0	45	229,000	
13	51	130,100	3 9	44	211,900	1 4
14	51	141,000	3 0	43	217,500	1 4
15	51	107,800	4 0	43	165,900	0 6
16	51	124,800	3 0	42	187,900	1 0
17	50	183,600	3 3	42	212,400	1 6
18	50	181,100	3 0	42	214,800	0 8
19	49	207,200	3 1	41	218,000	2 3
20	48	181,700	3 3	41	159,600	1 0
21	48	164,400	5 5	41	166,500	1 5
22	48	118,600	5 5	40	191,100	2 5
23	48	136,600	3 1	40	201,300	2 0
24	47	149,600	3 3	40	138,500	2 4
25	47	149,800	3 6	40	154,800	2 5
26	47	155,000	3 1	40	140,000	2 5
27	47	147,800	3 0	40	193,800	2 5
28	47	154,800	3 0	40	172,800	3 0
29	46	161,000	3 1	40	176,800	1 1
30	46	150,800	2 5	40	213,200	2 8
31				40	215,700	2 4

TABLE 52

MONTHLY COUNT OF CHINOOK SALMON OVER JOHN DAY DAM

1968 - 1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Apr 1* Jun 5	SUMMER Jun 6 Aug 5	FALL Aug 6 Oct 31*	Jacks
1968				29,973	46,272	30,702	42,212	16,726	62,709	4,851	209		233,654	77,482	75,494	80,678	67,284
1969			6	4,266	72,966	35,899	31,071	18,523	103,778	9,542			276,051	81,724	64,732	129,595	93,928
1970				35,750	35,248	20,439	21,542	24,784	80,969	3,774			222,506	72,555	43,093	106,858	74,090
1971				13,995	40,620	24,364	25,692	10,403	73,157	5,650			193,881	56,625	50,030	87,226	61,380
1972				28,535	41,882	15,833	27,484	14,208	90,181	7,508			225,631	71,569	44,542	109,520	82,646
1973				67,467	27,091	18,972	15,067	16,995	89,913	13,987			249,492	96,710	34,206	118,576	73,687
1974				5,174	38 058	8,115	18,985	8,112	77,296	12,148			167,888	46,191	25,865	95,832	61,669
1975				7,727	27,989	11,058	21,359	18,250	65,367	7,329			159,079	37,716	32,179	89,184	62,403
Total			6	192,887	330,126	165,382	203,412	128,001	643,370	64,789	209		1,728,182	540,572	370,141	817,469	577,087
8-Year Average				24,111	41,266	20,673	25,427	16,000	80,421	8,099			216,023	67,571	42,268	102,184	72,136

* 1968 and 1969 counting seasons varied slightly from these dates

TABLE 53

MONTHLY COUNT OF SOCKEYE SALMON

JOHN DAY DAM - 1968-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1968						42,175	44,942	690	32	7	1		87,847
1969						13,383	26,174	245	37	8			39,847
1970						18,029	58,176	1,909	19				78,133
1971						5,219	66,183	787	38	5			72,232
1972						6,762	43,704	1,257	68	2			51,793
1973					2	21,283	42,588	864	6	1			64,744
1974						2,024	30,687	403	6	1			33,121
1975						6,154	44,454	163	2	1			50,774
Total					2	115,029	356,908	6,318	208	25	1		478,491
8-Year Average						14,379	44,614	790	26	3			59,811

TABLE 53

TABLE 54

MONTHLY COUNT OF COHO SALMON

JOHN DAY DAM - 1968-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1968							4	1,311	32,882	3,848	188		38,233
1969							25	308	9,879	3,377			13,589
1970							14	1,026	17,272	1,231			19,543
1971								944	36,401	3,485			40,830
1972								1,253	14,965	1,315			17,533
1973								788	11,350	1,221			13,359
1974								730	11,253	2,668			14,651
1975								85	4,266	1,954			6,305
Total							43	6,445	138,268	19,099	188		164,043
8-Year Average								806	17,284	2,387			20,505

TABLE 55

MONTHLY COUNT OF STEELHEAD TROUT

JOHN DAY DAY - 1968-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1968				3,939	2,659	151	6,094	26,824	68,791	11,405	1,393		121,256
1969			314	3,986	3,691	714	12,004	13,267	40,082	12,290			86,348
1970				1,987	1,279	253	7,373	19,412	46,036	6,100			82,440
1971				1,472	592	263	17,459	19,693	63,868	12,630			115,977
1972				1,523	1,966	356	17,656	20,502	78,138	21,487			141,628
1973				8,019	3,546	785	12,134	15,608	46,566	14,782			101,440
1974				1,713	2,363	1,361	9,713	8,419	12,479	7,708			43,756
1975				760	428	648	6,251	8,583	9,977	6,004			32,651
Total			314	23,399	16,524	4,531	88,684	132,308	365,937	92,406	1,393		725,496
8-Year Average				2,925	2,006	566	11,086	16,539	45,742	11,551			90,688

TABLE 56

PEAK DAYS OF MIGRATION

JOHN DAY DAM - 1968-1975

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho	
Year	Date	Number of fish	Date	Number of fish	Date	Number of fish	Date	Number of fish	Date	Number of fish	Date	Number of fish
1968	Apr 28	11,114	Jul 19	2,694	Sep 8	4,532	Sep 8	3,735	Jun 29	7,677	Sep 4	2,256
1969	May 11	6,096	Jun 22	2,505	Sep 14	9,013	Sep 14	2,581	Jul 10	2,564	Sep 20	791
1970	May 4	5,485	Jul 11	1,897	Sep 13	6,728	Sep 12	4,159	Jul 6	4,119	Sep 11	1,319
1971	May 1	4,037	Jun 27	1,372	Sep 12	6,383	Sep 6	4,862	Jul 10	6,084	Sep 11	3,373
1972	Apr 27	6,484	Jun 29	1,805	Sep 12	6,280	Sep 19	6,149	Jul 9	3,049	Sep 19	1,381
1973	Apr 22	8,161	Jun 15	1,267	Sep 12	9,500	Sep 12	3,148	Jul 4	4,192	Sep 13	1,117
1974	May 22	2,773	Jul 15	1,039	Sep 17	6,004	Sep 27	724	Jul 6	2,534	Sep 17	1,237
1975	May 13	2,115	Jul 10	957	Sep 11	4,214	Sep 8	714	Jul 6	4,958	Sep 15	392
Total		46,265		13,536		52,654		26,072		35,177		11,866
8-Year Average		5,783		1,692		6,582		3,259		4,397		1,483

TABLE 57

YEARLY PERCENTAGE OF SALMONIDS COUNTED OVER EACH FISH LADDER

JOHN DAY DAM - 1971 - 1975

Year	Chinook		Sockeye		Coho		Steelhead		Percentage of Total Salmonids	
	South	North	South	North	South	North	South	North	South	North
1971	80.7	19.3	69 3	30 7	80 4	19.6	71 4	28 6	76.2	23 8
1972	68 0	32 0	70 8	29 2	84.0	16.0	54 8	45.2	64 7	35.3
1973										
1974	73 8	26.2	60 6	39 4	78 3	21 7	59 5	40 5	70 0	30 0
1975	80 5	19.5	57 0	43.0	86 8	13 2	72 0	28 0	74 7	25 3

TABLE 58

YEARLY TOTALS OF SALMONID FISH COUNTED OVER McNARY DAM

1956 - 1975

Year	Chinook	Steelhead	Sockeye	Coho	Total Salmonid
1954	126,555	75,059	108,181	950	310,745
1955	108,915	85,575	173,758	643	368,891
1956	114,342	42,554	102,145	683	259,724
1957	292,696	105,728	85,460	2,855	486,739
1958	226,092	87,890	102,397	1,350	417,729
1959	171,490	110,475	83,977	1,970	367,912
1960	176,767	96,895	55,372	1,580	330,614
1961	154,996	103,743	16,388	2,045	277,172
1962	152,756	163,181	29,372	3,195	348,504
1963	154,459	113,646	59,744	3,113	330,962
1964	167,934	100,742	83,931	3,317	355,924
1965	150,907	118,960	42,052	2,700	314,619
1966	223,141	145,130	173,028	8,525	549,824
1967	195,653	77,700	105,635	27,226	406,214
1968	200,488	112,522	101,007	39,518	453,535
1969	213,407	76,681	29,787	53,716	373,591
1970	168,892	69,759	59,636	36,399	334,686
1971	171,448	109,630	52,867	39,358	373,303
1972	168,821	93,820	26,422	45,635	334,698
1973	184,112	64,620	42,731	17,682	309,145
1974	127,858	26,932	26,505	13,746	195,041
1975	133,150	22,663	43,143	3,975	202,931
Total	3,784,879	2,003,905	1,603,538	310,181	7,702,503
22-Year Average	172,040	91,087	72,888	14,099	350,114

The dates for beginning and termination of counting have varied slightly

TABLE 59

MONTHLY TOTALS OF SALMONID AND SHAD COUNTED OVER McNARY DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK	-	-	-	4,694	24,752	11,590	20,497	12,485	53,125	6,007	-	-	133,150
STEELHEAD	-	-	-	612	209	254	3,623	6,708	8,329	2,928	-	-	22,663
SOCKEYE	-	-	-	-	-	1,517	41,011	615	-	-	-	-	43,143
COHO	-	-	-	-	-	-	1	268	3,675	31	-	-	3,975
CHUM	-	-	-	-	-	-	-	-	-	-	-	-	0
PINK	-	-	-	-	-	-	-	-	-	-	-	-	0
TOTAL SALMONID		-	-	5,306	24,961	13,361	65,132	20,076	65,129	8,966	-	-	202,931
SHAD	-	-	-	-	21	1,919	102,173	3,432	38	-	-	-	107,583

TABLE 60
WATER TEMPERATURE AND STREAM FLOW DATA
McNARY DAM - 1975

	JANUARY			FEBRUARY			MARCH		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	43	114,300	5 6	38	152,700	1 4	38	163,600	1 6
2	42	155,400	5 2	38	138,300	2 0	38	158,000	1 7
3	42	147,600	3 1	38	130,600	2 3	38	206,000	1 5
4	42	128,700	4 2	38	189,300	2 4	39	208,900	1 5
5	42	112,700	4 0	38	178,200	2 3	39	225,200	1 8
6	42	152,000	4 2	38	175,600	2 4	40	220,900	1 8
7	42	157,300	4 7	38	180,600	2 4	40	202,200	1 6
8	42	163,200	4 7	36	142,100	2 4	40	183,000	2 0
9	42	167,800	4 7	36	132,900	3 4	41	183,400	2 0
10	42	156,700	4 8	36	158,800	3 8	41	225,100	2 0
11	42	145,500	3 5	36	178,700	3 6	41	226,500	1 5
12	41	130,300	3 5	36	166,600	3 6	41	224,000	1 3
13	41	157,900	3 6	36	169,500	3 7	41	219,000	1 4
14	41	159,900	2 7	36	178,500	4 0	41	209,600	1 4
15	40	167,200	3 4	37	174,400	4 1	41	199,700	1 4
16	39	165,200	2 7	38	160,600	1 8	41	187,900	2 3
17	39	143,200	2 3	38	151,400	2 0	41	206,900	2 4
18	39	136 400	1 2	38	160,200	2 0	41	210,200	2 4
19	39	154,200	1 1	38	164,800	2 5	41	208,900	2 3
20	39	147,200	1 5	38	188,200	3 5	42	204,000	2 1
21	40	171,400	1 6	38	183,800	3 5	42	215,900	1 9
22	41	142,500	1 6	37	217,100	3 5	42	224,100	2 4
23	41	152,400	2 3	37	182,200	2 2	42	214,900	2 3
24	41	142,000	2 6	37	182,900	1 8	42	211,600	2 4
25	40	150,800	2 4	37	202,600	1 7	42	211,600	2 6
26	40	156,900	2 2	37	199,100	1 2	42	223,300	2 2
27	40	148,500	2 0	38	196,000	1 4			
28	40	158,400	1 9	38	167,100	1 6	42	220,500	2 1
29	40	165,900	1 2				42	182,900	1 7
30	39	163,300	1 0				42	187,200	1 7
31	38	172,100	1 0				42	205,400	1 3

MONTHLY FISH PASSAGE SUMMARY REPORT MCNARY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SEECHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	22	0	0	22	0	225,300	0	1.8	42.0
2	0	0	0	0	0	15	0	0	15	0	204,000	0	1.8	44.0
3	0	0	0	0	0	15	0	0	15	0	196,800	0	1.5	44.0
4	0	0	0	0	0	5	0	0	5	0	176,700	0	1.6	44.0
5	0	0	0	0	0	8	0	0	8	0	182,300	0	1.8	44.0
6	2	0	0	0	0	12	0	0	14	0	181,200	0	1.8	44.0
7	0	0	0	0	0	11	0	0	11	0	179,100	0	1.8	44.0
8	0	0	0	0	0	17	0	0	17	0	184,400	0	2.1	43.0
9	2	0	0	0	0	18	0	0	20	0	205,900	0	1.7	45.0
10	0	0	0	0	0	5	0	0	5	0	189,000	0	1.4	45.0
11	0	0	0	0	0	12	0	0	12	0	178,300	0	2.0	46.0
12	0	0	0	0	0	8	0	0	8	0	183,200	0	1.9	46.0
13	5	0	0	0	0	12	0	0	17	0	151,100	0	1.9	46.0
14	3	0	0	0	0	19	0	0	22	0	201,000	0	1.9	46.0
15	5	0	0	0	0	8	0	0	13	0	211,400	0	1.8	46.0
16	24	0	0	0	0	25	0	0	49	0	217,200	0	1.8	46.0
17	49	0	0	0	0	36	0	0	85	0	210,900	0	1.8	47.0
18	57	0	0	0	0	44	0	0	101	0	162,200	0	1.8	47.0
19	70	0	0	0	0	42	0	0	112	0	205,500	0	1.1	47.0
20	88	0	0	0	0	36	0	0	124	0	176,800	0	1.6	47.0
21	258	0	0	0	0	29	0	0	287	0	158,100	0	1.6	48.0
22	445	0	0	0	0	26	0	0	471	0	220,300	0	1.6	47.0
23	427	0	0	0	0	41	0	0	468	0	225,300	0	1.5	47.0
24	327	0	0	0	0	39	0	0	366	0	249,400	20,300	1.5	48.0
25	337	0	0	0	0	20	0	0	357	0	237,100	10,900	1.5	48.0
26	467	0	0	0	0	24	0	0	491	0	231,700	0	1.2	48.0
27	665	0	0	0	0	24	0	0	689	0	232,300	0	1.2	48.0
28	393	0	0	0	0	12	0	0	405	0	201,500	0	1.5	48.0
29	599	0	0	0	0	18	0	0	617	0	221,800	0	1.5	49.0
30	471	0	0	0	0	9	0	0	480	0	231,900	0	1.3	49.0
TOTALS	4,694	0	0	0	0	612	0	0	5,306	0				

TABLE 62

MONTHLY FISH PASSAGE SUMMARY REPORT — MCNARY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	582	0	0	0	0	3	0	0	585	0	215,700	0	1.6	49.0
2	321	0	0	0	0	8	0	0	329	0	229,600	25,500	1.6	49.0
3	503	0	0	0	0	14	0	0	517	0	253,900	49,100	1.2	50.0
4	936	0	0	0	0	21	0	0	957	0	262,600	56,500	1.3	50.0
5	828	0	0	0	0	18	0	0	846	0	251,900	31,300	1.3	50.0
6	1,223	0	0	0	0	16	0	0	1,239	0	241,400	24,800	1.4	50.0
7	1,116	0	0	0	0	6	0	0	1,122	0	237,600	16,800	1.4	50.0
8	1,242	0	0	0	0	9	0	0	1,251	0	217,500	5,800	1.6	50.0
9	1,041	0	0	0	0	4	0	0	1,045	0	224,200	5,800	1.6	50.0
10	670	0	0	0	0	5	0	0	675	0	231,400	17,700	1.5	50.0
11	1,083	0	0	0	0	11	0	0	1,094	0	216,800	20,100	1.4	51.0
12	1,306	0	0	0	0	14	0	0	1,320	0	282,200	46,600	1.6	52.0
13	719	0	0	0	0	8	0	0	727	0	293,900	66,400	1.4	53.0
14	1,185	0	0	0	0	5	0	0	1,190	0	321,000	114,500	1.4	53.0
15	1,629	0	0	0	0	13	0	0	1,642	0	339,400	120,500	1.2	53.0
16	1,599	0	0	0	0	3	0	0	1,602	0	351,500	115,600	1.3	54.0
17	1,102	0	0	0	0	7	0	0	1,109	0	361,300	158,100	1.1	53.0
18	984	0	0	0	0	3	0	0	987	0	363,900	151,000	1.3	54.0
19	774	0	0	0	0	4	0	0	778	0	358,400	135,700	1.3	53.0
20	803	0	0	0	0	4	0	0	807	0	356,200	133,600	1.3	53.0
21	758	0	0	0	0	6	0	0	764	0	339,800	118,200	1.4	53.0
22	828	0	0	0	0	4	0	0	832	0	297,600	65,500	1.4	53.0
23	646	0	0	0	0	8	0	0	654	0	323,300	108,600	1.4	55.0
24	389	0	0	0	0	0	0	0	389	0	349,800	144,800	1.4	55.0
25	280	0	0	0	0	0	0	0	280	0	349,600	178,600	1.4	54.0
26	281	0	0	0	0	0	0	0	281	0	328,900	125,700	1.4	54.0
27	293	0	0	0	0	0	0	0	293	0	320,600	113,300	1.8	54.0
28	341	0	0	0	0	0	0	0	341	0	314,500	100,200	1.8	54.0
29	400	0	0	0	0	3	0	0	403	8	303,800	84,100	1.8	54.0
30	479	0	0	0	0	4	0	0	483	4	309,500	90,500	2.0	54.0
31	411	0	0	0	0	8	0	0	419	9	321,600	123,400	1.7	55.0
TOTALS	24,752	0	0	0	0	209	0	0	24,961	21				

TABLE 63

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT

JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	343	0	0	0	0	4	0	0	347	0	342,900	177,300	1.9	56.0
2	488	0	0	0	0	6	0	0	494	0	359,400	153,600	1.7	56.0
3	323	0	0	0	0	5	0	0	328	0	373,800	166,400	1.5	56.0
4	353	0	0	0	0	9	0	0	362	0	372,600	162,200	1.8	56.0
5	416	0	0	0	0	9	0	0	425	0	356,200	129,900	1.5	56.0
6	440	0	0	0	0	20	0	0	460	0	360,900	134,600	1.6	17.0
7	556	0	0	0	0	13	0	0	569	0	370,000	142,200	1.8	58.0
8	353	0	0	0	0	1	0	0	354	0	371,400	158,900	1.6	58.0
9	0	334	0	0	0	10	0	0	344	0	361,300	145,900	1.6	58.0
10	0	317	0	0	0	1	0	0	318	0	347,300	109,500	1.5	58.0
11	0	254	0	0	0	1	0	0	255	4	336,300	101,800	1.3	58.0
12	0	395	0	0	0	6	0	0	401	4	329,100	93,100	1.5	58.0
13	0	355	0	0	0	12	0	0	367	14	327,500	99,900	1.4	58.0
14	0	313	0	0	0	9	0	0	322	4	325,600	93,200	1.4	58.0
15	0	359	0	0	0	1	0	0	360	1	313,700	111,200	1.5	58.0
16	0	386	0	0	0	2	0	0	388	4	323,700	103,700	1.2	58.0
17	0	264	0	0	0	6	0	0	270	5	347,200	110,400	1.0	58.0
18	0	399	0	0	0	3	0	0	402	0	311,800	76,000	1.0	58.0
19	0	575	0	0	0	10	0	0	585	80	302,600	65,800	1.2	58.0
20	0	505	0	0	4	17	0	0	526	286	318,400	86,200	1.0	58.0
21	0	598	0	0	11	27	0	0	636	238	301,300	64,300	1.1	58.0
22	0	422	0	0	8	11	0	0	441	90	280,400	70,100	1.1	58.0
23	0	346	0	0	56	12	0	0	414	269	305,100	68,200	1.2	58.0
24	0	195	0	0	63	0	0	0	258	62	301,600	60,800	1.0	58.0
25	0	195	0	0	34	3	0	0	232	7	318,800	90,700	1.0	58.0
26	0	411	0	0	56	7	0	0	474	39	323,600	100,700	1.2	57.0
27	0	414	0	0	86	5	0	0	505	55	320,400	84,300	1.1	57.0
28	0	318	0	0	108	13	0	0	439	46	306,500	92,700	1.2	57.0
29	0	328	0	0	292	7	0	0	627	78	271,200	88,300	1.1	56.0
30	0	635	0	0	799	24	0	0	1,458	633	246,500	43,100	1.4	56.0
TOTALS	3,272	8,318	0	0	1,517	254	0	0	13,361	1,919				

TABLE 64

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT

JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	859	0	0	384	15	0	0	1,258	641	235,800	47,000	1.5	58.0
2	0	634	0	0	396	11	0	0	1,041	416	249,300	61,300	2.3	58.0
3	0	386	0	0	622	12	0	0	1,020	287	270,200	82,700	2.0	61.0
4	0	387	0	0	708	14	0	0	1,109	241	225,200	127,700	2.2	61.0
5	0	524	0	0	1,336	26	0	0	1,886	266	227,700	91,800	2.1	61.0
6	0	588	0	0	1,318	31	0	0	1,937	197	254,600	153,200	2.0	61.0
7	0	883	0	0	2,973	25	0	0	3,881	1,472	296,000	106,000	2.0	60.0
8	0	916	0	0	3,679	23	0	0	4,618	2,115	295,700	104,900	1.8	60.0
9	0	995	0	0	4,745	20	0	0	5,760	3,028	281,700	96,400	1.9	60.0
10	0	1,316	0	0	3,875	33	0	0	5,224	4,291	262,600	72,400	1.8	62.0
11	0	1,010	0	0	3,565	55	0	0	4,630	6,540	250,600	67,000	2.0	62.0
12	0	774	0	0	3,372	63	0	0	4,209	8,499	240,400	57,600	2.0	65.0
13	0	700	0	0	2,582	62	0	0	3,344	7,849	182,700	53,090	1.8	64.0
14	0	759	0	0	2,191	61	0	0	3,011	10,117	201,000	22,100	1.9	66.0
15	0	593	0	0	1,466	68	0	0	2,127	6,746	231,200	16,400	1.5	66.0
16	0	823	0	0	1,271	108	0	0	2,202	6,397	186,800	13,700	1.7	66.0
17	0	597	0	0	697	65	0	0	1,359	2,650	215,300	25,700	1.7	66.0
18	0	783	0	0	857	74	0	0	1,714	2,561	188,700	28,800	2.2	66.0
19	0	522	0	0	712	127	0	0	1,361	4,122	205,600	4,600	2.2	66.0
20	0	571	0	0	632	134	0	0	1,337	5,068	135,200	0	2.0	67.0
21	0	300	0	0	340	86	0	0	726	5,554	173,600	0	2.2	68.0
22	0	536	0	0	452	126	0	0	1,114	2,421	167,300	0	2.0	68.0
23	0	602	0	0	403	151	0	0	1,156	3,041	175,300	0	2.5	68.0
24	0	482	0	0	424	149	0	0	1,055	2,214	191,000	0	2.6	68.0
25	0	481	0	0	316	214	0	0	1,011	3,020	143,500	0	2.0	68.0
26	0	640	0	0	318	249	0	0	1,207	4,092	100,200	0	2.7	68.0
27	0	558	0	1	351	172	0	0	1,082	4,241	107,100	0	3.4	68.0
28	0	484	0	0	270	191	0	0	945	1,485	123,400	0	3.6	68.0
29	0	590	0	0	477	499	0	0	1,566	1,166	137,200	800	2.2	68.0
30	0	598	0	0	181	392	0	0	1,171	658	122,712	0	2.2	68.0
31	0	606	0	0	98	367	0	0	1,071	778	164,900	0	3.1	69.0
TOTALS	0	20,497	0	1	41,011	3,623	0	0	65,132	102,173				

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

MCNARY PROJECT

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	352	0	0	100	265	0	0	717	497	152,900	0	2.0	70.0
2	0	367	0	0	99	270	0	0	736	518	172,500	0	2.0	70.0
3	0	427	0	0	75	319	0	0	821	408	123,800	0	2.3	70.0
4	0	277	0	0	69	176	0	0	522	462	144,800	0	3.2	69.0
5	0	241	0	0	70	112	0	0	423	276	147,900	0	3.2	69.0
6	0	433	0	0	70	294	0	0	797	241	153,500	0	3.3	69.0
7	0	324	0	0	18	284	0	0	626	100	145,900	0	2.5	69.0
8	0	477	0	1	26	242	0	0	746	93	139,100	0	2.7	67.0
9	0	0	252	6	6	167	0	0	431	77	110,900	0	2.7	67.0
10	0	0	293	2	13	272	0	0	580	119	91,400	0	2.7	67.0
11	0	0	268	8	1	233	0	0	510	88	130,800	0	2.7	67.0
12	0	0	258	4	4	285	0	0	551	64	146,100	400	3.1	69.0
13	0	0	430	1	9	239	0	0	679	30	152,800	0	2.6	68.0
14	0	0	345	0	1	215	0	0	611	48	140,000	0	2.9	68.0
15	0	0	258	0	11	165	0	0	434	61	131,000	0	2.6	68.0
16	0	0	556	3	9	404	0	0	972	23	80,800	0	2.7	68.0
17	0	0	385	1	7	265	0	0	658	30	74,200	0	2.7	68.0
18	0	0	238	0	7	159	0	0	404	33	93,500	0	2.3	68.0
19	0	0	277	0	4	166	0	0	447	32	137,300	0	2.9	68.0
20	0	0	261	1	0	140	0	0	402	23	124,100	0	2.7	68.0
21	0	0	190	0	2	80	0	0	272	54	108,000	0	2.6	69.0
22	0	0	460	10	5	194	0	0	669	84	124,400	0	2.7	69.0
23	0	0	429	2	6	175	0	0	612	9	112,700	0	2.3	69.0
24	0	0	364	6	1	142	0	0	513	16	98,600	0	2.6	68.0
25	0	0	441	2	0	155	0	0	598	10	125,300	0	2.7	68.0
26	0	0	487	2	1	164	0	0	654	13	128,600	0	3.0	68.0
27	0	0	598	24	1	168	0	0	791	9	183,900	0	3.0	68.0
28	0	0	597	29	0	139	0	0	765	4	166,800	0	2.2	67.0
29	0	0	738	24	0	247	0	0	1,009	8	137,500	0	2.5	67.0
30	0	0	645	63	0	283	0	0	991	2	168,300	0	2.0	67.0
31	0	0	767	79	0	289	0	0	1,135	0	127,400	0	2.4	66.0
TOTALS	0	2,898	9,587	268	615	6,708	0	0	20,076	3,432				

TABLE 66

MONTHLY FISH PASSAGE SUMMARY REPORT — MCNARY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	658	46	0	183	0	0	887	0	96,300	0	2.3	66.0
2	0	0	682	64	0	177	0	0	923	0	141,200	0	2.0	66.0
3	0	0	1,135	173	0	258	0	0	1,566	9	136,600	0	2.4	63.0
4	0	0	722	70	0	134	0	0	926	4	128,100	0	2.4	64.0
5	0	0	1,233	213	0	170	0	0	1,616	4	131,600	0	2.6	63.0
6	0	0	1,644	243	0	273	0	0	2,160	4	88,900	0	2.5	63.0
7	0	0	1,770	91	0	303	0	0	2,164	9	80,300	0	2.9	63.0
8	0	0	2,096	73	0	276	0	0	2,445	3	109,500	0	3.7	63.0
9	0	0	3,095	104	0	422	0	0	3,625	5	137,400	0	3.7	61.0
10	0	0	2,571	104	0	419	0	0	3,094	0	134,800	0	3.2	65.0
11	0	0	3,191	212	0	410	0	0	3,813	0	87,500	0	3.2	67.0
12	0	0	2,722	338	0	387	0	0	3,447	0	115,700	0	2.1	67.0
13	0	0	3,517	275	0	428	0	0	4,220	0	81,500	0	3.1	67.0
14	0	0	3,417	368	0	395	0	0	4,180	0	75,500	0	3.5	67.0
15	0	0	2,674	227	0	338	0	0	3,239	0	109,700	0	3.2	68.0
16	0	0	2,937	284	0	468	0	0	3,689	0	102,700	0	3.6	66.0
17	0	0	3,040	234	0	453	0	0	3,727	0	110,600	0	3.2	66.0
18	0	0	1,611	92	0	292	0	0	1,995	0	112,000	0	3.6	66.0
19	0	0	1,618	112	0	227	0	0	1,957	0	119,800	0	2.8	67.0
20	0	0	2,711	81	0	308	0	0	3,100	0	84,500	0	3.0	67.0
21	0	0	2,242	44	0	376	0	0	2,662	0	80,400	0	3.3	67.0
22	0	0	2,044	47	0	320	0	0	2,411	0	118,300	0	3.3	66.0
23	0	0	1,475	27	0	243	0	0	1,745	0	97,200	0	2.2	67.0
24	0	0	1,229	23	0	210	0	0	1,462	0	97,300	0	2.8	67.0
25	0	0	963	5	0	218	0	0	1,186	0	116,500	0	3.4	67.0
26	0	0	529	6	0	155	0	0	690	0	92,600	0	2.9	67.0
27	0	0	409	19	0	129	0	0	557	0	108,100	0	2.9	66.0
28	0	0	348	29	0	113	0	0	490	0	76,300	0	3.1	66.0
29	0	0	521	30	0	178	0	0	729	0	88,300	0	3.2	66.0
30	0	0	317	41	0	66	0	0	424	0	127,900	0	3.0	66.0
TOTALS	0	0	53,125	3,675	0	8,329	0	0	65,129	38				

MONTHLY FISH PASSAGE SUMMARY REPORT — MCNARY PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	422	15	0	119	0	0	556	0	111,100	100	3.2	66.0
2	0	0	371	15	0	94	0	0	480	0	106,600	0	2.8	66.0
3	0	0	170	1	0	98	0	0	269	0	106,800	0	2.8	66.0
4	0	0	345	0	0	108	0	0	453	0	107,200	0	2.8	66.0
5	0	0	332	0	0	142	0	0	474	0	70,700	0	2.8	65.0
6	0	0	236	0	0	85	0	0	321	0	111,800	0	2.8	64.0
7	0	0	247	0	0	119	0	0	366	0	107,100	0	2.8	64.0
8	0	0	129	0	0	111	0	0	240	0	100,800	0	2.8	64.0
9	0	0	118	0	0	105	0	0	223	0	108,400	0	2.8	63.0
10	0	0	107	0	0	64	0	0	171	0	101,500	0	2.6	62.0
11	0	0	55	0	0	44	0	0	99	0	86,400	0	2.5	62.0
12	0	0	62	0	0	48	0	0	110	0	90,700	0	2.4	62.0
13	0	0	129	0	0	87	0	0	216	0	103,500	0	2.8	62.0
14	0	0	157	0	0	132	0	0	289	0	130,400	0	3.2	62.0
15	0	0	173	0	0	212	0	0	385	0	128,700	0	2.7	61.0
16	0	0	180	0	0	185	0	0	365	0	114,400	0	2.7	60.0
17	0	0	160	0	0	135	0	0	295	0	93,000	0	3.0	60.0
18	0	0	142	0	0	93	0	0	235	0	98,500	0	3.0	60.0
19	0	0	200	0	0	135	0	0	335	0	96,200	0	3.0	60.0
20	0	0	157	0	0	125	0	0	282	0	120,500	0	3.2	60.0
21	0	0	198	0	0	74	0	0	272	0	139,200	0	2.9	60.0
22	0	0	220	0	0	77	0	0	297	0	136,000	0	3.0	59.0
23	0	0	164	0	0	79	0	0	243	0	158,100	0	2.8	58.0
24	0	0	119	0	0	49	0	0	168	0	151,900	0	3.2	58.0
25	0	0	113	0	0	32	0	0	145	0	128,800	0	3.0	56.0
26	0	0	187	0	0	37	0	0	224	0	131,300	0	2.6	57.0
27	0	0	131	0	0	46	0	0	177	0	127,200	0	2.7	57.0
28	0	0	228	0	0	56	0	0	284	0	144,700	0	2.8	55.0
29	0	0	206	0	0	49	0	0	255	0	130,700	0	3.1	55.0
30	0	0	312	0	0	56	0	0	368	0	126,100	0	2.7	55.0
31	0	0	237	0	0	132	0	0	369	0	135,800	0	3.3	55.0
TOTALS	0	0	6,007	31	0	2,928	0	0	8,966	0				

TABLE 68
WATER TEMPERATURE AND STREAM FLOW DATA
McNARY - 1975

	NOVEMBER			DECEMBER		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	55	135,400	3 3	47	148,200	3 7
2	55	119,700	3 3	46	165,800	4 0
3	55	117,500	3 3	46	188,900	4 6
4	55	126,200	3 1	46	196,500	4 3
5	55	143,900	3 3	46	209,800	1 6
6	54	151,400	3 1	46	199,200	1 6
7	55	155,000	3 0	46	169,800	1 4
8	56	136,700	3 3	46	232,600	1 1
9	54	130,200	4 2	44	259,500	1 1
10	54	159,200	3 2	44	214,300	1 0
11	53	141,000	3 2	44	201,500	1 1
12	53	150,200	3 3	42	225,600	1 2
13	52	129,400	3 8	44	240,400	1 5
14	52	137,200	3 4	43	214,600	1 5
15	52	101,100	3 5	42	198,800	1 4
16	52	134,400	3 4	44	203,800	1 8
17	52	164,100	4 2	44	193,500	1 8
18	51	176,600	3 9	42	211,800	2 0
19	51	176,300	3 0	42	186,800	2 0
20	49	177,300	4 6	42	170,700	1 8
21	49	155,800	3 3	42	177,800	1 8
22	49	140,100	3 5	41	178,700	1 8
23	48	132,600	3 4	41	185,400	1 7
24	48	152,400	3 4	41	168,300	1 8
25	48	155,900	3 3	41	148,000	1 7
26	48	159,300	3 3	41	143,500	1 6
27	48	154,800	3 3	41	178,800	1 8
28	47	147,400	4 0	41	161,300	1 8
29	47	154,800	4 2	41	169,800	1 8
30	47	161,600	3 7	41	211,000	1 1
31				41	193,100	1 2

TABLE 69

PEAK DAYS OF FISH MIGRATION

McNARY DAM - 1954-1975

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho	
Year	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish
1954	May 12	6,571	Jul 5	2,565	Sep 12	906	Sep 10	1,285	Jul 9	6,798	Sep 11	79
1955	May 26	2,565	Jul 10	3,034	Sep 10	536	Aug 13	2,432	Jul 16	19,916	Sep 26	26
1956	May 21	1,112	Jul 1	5,361	Sep 11	473	Aug 10	967	Jul 12	9,322	Sep 17	32
1957	May 4	7,075	Jul 26	7,616	Sep 13	2,963	Oct 5	3,028	Jul 11	5,763	Sep 25	208
1958	Jun 7	3,247	Jun 21	4,725	Sep 12	5,268	Sep 23	2,909	Jul 12	5,809	Sep 21	92
1959	May 14	1,831	Jul 9	3,658	Sep 15	3,007	Sep 19	3,884	Jul 15	5,786	Sep 15	147
1960	May 7	5,124	Jun 23	4,752	Sep 10	2,966	Sep 14	3,720	Jul 1	3,637	Sep 10 & 17	116
1961	May 2	5,775	Jun 29	2,281	Sep 17	1,978	Sep 17	3,734	Jul 12	897	Sep 11	147
1962	May 3	3,565	Jun 23	2,800	Sep 11	3,011	Sep 9	6,422	Jul 11	2,454	Sep 9	207
1963	May 11	3,219	Jun 26	1,710	Sep 11	3,643	Sep 21	2,793	Jul 5	4,637	Sep 5	128
1964	Apr 30	4,865	Jul 3	2,440	Sep 10	3,000	Sep 14	3,312	Jul 12	7,457	Sep 19	201
1965	May 16	1,648	Jul 7	2,056	Sep 15	4,251	Aug 4	3,880	Jul 7	4,326	Sep 18	211
1966	Apr 23	4,795	Jul 5	1,992	Sep 18	3,320	Sep 24	4,588	Jul 13	10,370	Sep 13	451
1967	Apr 27	3,509	Jul 5	2,242	Sep 25	5,782	Sep 25	2,969	Jul 13	8,605	Sep 16	1,659
1968	Apr 30	9,471	Jul 21	2,388	Sep 11	4,213	Sep 13	3,796	Jul 3	7,226	Sep 13	3,307
1969	May 13	4,793	Jun 24	2,700	Sep 16	5,582	Sep 13	3,197	Jul 12	1,554	Sep 16	2,864
1970	Apr 30	4,924	Jul 13	1,704	Sep 16	3,625	Sep 14	3,011	Jul 11	3,081	Sep 14	2,794
1971	May 4	3,208	Jul 9	2,020	Sep 12	4,710	Sep 12	4,574	Jul 13	3,926	Sep 12	2,732
1972	Apr 30	5,376	Jul 5	1,889	Sep 17	3,627	Sep 20	3,695	Jul 13	2,084	Sep 17	2,508
1973	Apr 28	6,543	Jun 17	1,684	Sep 13	6,570	Sep 13	2,970	Jul 6	3,059	Sep 15	1,474
1974	May 25	1,818	Jul 10	1,044	Sep 14	3,593	Oct 3	620	Jul 11	2,344	Sep 15	620
1975	May 15	1,629	Jul 10	1,316	Sep 13	3,517	Sep 16	468	Jul 9	4,745	Sep 14	368
Total		92,663		61,977		76,541		68,254		123,796		20,371
22-Year Average		4,212		2,817		3,479		3,102		5,627		926

TABLE 70

TABLE 70

MONTHLY COUNT OF CHINOOK SALMON

McNARY DAM - 1954-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Apr 1 Jun 8	SUMMER Jun 9 Aug 8	FALL Aug 9 Oct 31
1954			14	919	42,625	28,510	35,993	9,287	8,626	568	13		126,555	52,014	61,065	13,476
1955				86	12 778	26,125	46,021	14,773	7,220	1,648	264		108,915	21,309	71,180	16,426
1956			7	307	10,746	34,360	50,409	11,073	5,636	1,360	444		114,342	12,717	90,335	11,290
1957			6	14,489	67,939	91,473	41,485	25,621	48,685	2,998			292,696	99,511	122,578	70,607
1958				1,864	36,684	61,898	25,140	11,120	82,890	6,496			226,092	54,910	73,654	97,528
1959				3,914	31,923	23,461	51,478	14,929	42,756	3,029			171,490	40 775	74,985	55,730
1960				4,808	44,721	49,506	25,710	13,376	35,329	3,317			176,767	52 490	76,940	47,337
1961				21,669	44,260	19,722	23,192	10,661	31,447	4,045			154,996	68,539	45,257	41 200
1962				10,527	44,053	28,621	21,008	11,751	33,541	3,255			152,756	55,884	52,756	44,116
1963				7,765	42,804	22,454	18,659	13,757	43,731	5,289			154,459	52,336	44,760	57 363
1964				19,856	33,310	10,893	39,334	14,930	45,514	4,097			167,934	54,279	55,062	58,593
1965				6,114	20,559	14,094	28,599	12,856	60,185	8,500			150,907	29,206	45,375	76,326
1966				53,484	32,282	21,161	35,895	13,811	58,275	8,233			223,141	87,195	60,827	75,119
1967				32,790	28,174	13,244	44,612	10,788	54,314	11,731			195,653	62,591	59,975	73,087
1968				13 328	51,443	20,456	37,127	15,713	53,597	8,824			200,488	67,092	60,639	72,757
1969				809	60,241	39,074	30,556	12,200	59,889	10,638			213,407	70,079	63,953	79 375
1970				28,015	34,027	18,661	23,132	13,773	44,635	6,649			168,892	63,982	43,356	61,554
1971				5,642	32,688	24,007	35,152	9,680	55,297	8,982			171,448	42,601	59,129	69,718
1972				25,911	41,609	12,553	35 322	10,154	37,131	6,141			168,821	69,023	50,491	49,307
1973				44,878	31,727	16 836	14 520	10,400	57,716	8,035			184,112	79,047	31,812	73,253
1974				1,918	34,767	7,976	18,181	6,251	45,845	12,920			127,858	40,037	25 812	62,009
1975				4,694	24,752	11,590	20,497	12,485	53,125	6,007			133,150	32,718	31,713	68,719
Total			27	303,787	804,112	596,675	702,022	279,389	965 384	132,762	721		3,784,879	1,208,335	1,301,654	1,274,890
22-Year Average				13,809	36,551	27,123	31 910	12,700	43,881	6,035			172,040	54,924	59,166	57,950

TABLE 71

MONTHLY COUNT OF SOCKEYE SALMON

McNARY DAM - 1954-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954					1	1,107	93,452	11,382	2,214	25			108,181
1955					43	287	163,902	9,402	121	3			173,758
1956					1	639	94,352	6,882	262	7	2		102,145
1957					13	6,318	74,874	4,233	22				85,460
1958						12,542	82,547	5,474	1,819	15			102,397
1959					21	2,031	73,735	7,981	209				83,977
1960						9,374	43,749	2,241	8				55,372
1961						1,088	14,149	1,138	11	2			16,388
1962						1,721	27,134	511	6				29,372
1963					78	8,712	50,415	535	4				59,744
1964						770	81,536	1,617	8				83,931
1965						328	40,790	923	10	1			42,052
1966						6,202	162,267	4,548	11				173,028
1967						1,935	101,044	2,647	9				105,635
1968						28,928	70,413	1,666					101,007
1969						5,787	23,353	647					29,787
1970						7,152	47,339	5,134	11				59,636
1971						317	50,568	1,982					52,867
1972						366	24,452	1,604					26,422
1973						9,011	32,301	999	420				42,731
1974						188	25,816	486	15				26,505
1975						1,517	41,011	615					43,143
Total					157	106,320	1,419,199	72,647	5,160	53	2		1,603,538
22-Year Average						4,833	64,509	3,302	235				72,888

TABLE 72

MONTHLY COUNT OF COHO SALMON

McNARY DAM - 1954-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954								4	751	180	14	1	950
1955									350	260	33		643
1956								16	462	157	48		683
1957							18	208	2,364	265			2,855
1958								29	1,091	230			1,350
1959								32	1,892	46			1,970
1960								24	1,432	124			1,580
1961								22	1,731	292			2,045
1962							5	106	2,884	200			3,195
1963							5	437	2,259	412			3,113
1964							3	307	2,734	273			3,317
1965							22	105	2,264	309			2,700
1966								811	7,195	519			8,525
1967							11	11	22,492	4,712			27,226
1968								1,010	36,260	2,248			39,518
1969								1,643	45,497	6,576			53,716
1970								3,576	31,161	1,662			36,399
1971								927	33,828	4,603			39,358
1972								2,433	38,747	4,455			45,635
1973							66	1,768	14,452	1,396			17,682
1974								1,160	10,052	2,534			13,746
1975							1	268	3,675	31			3,975
Total							131	14,897	263,573	31,484	95	1	310,181
22-Year Average							6	677	11,981	1,431			14,099

TABLE 73

MONTHLY COUNT OF STEELHEAD TROUT

McNARY DAM - 1954-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954			376	5,569	2,307	128	2,628	20,939	26,944	11,627	2,937	1,604	75,059
1955	931	35	70	3,279	1,791	162	5,257	36,035	17,463	16,941	2,874	737	85,575
1956	66	753	563	2,365	1,218	276	5,440	14,492	8,245	6,787	2,349		42,554
1957			840	2,084	147	334	18,100	28,926	34,478	20,775	8	36	105,728
1958	62	137	1,069	877	334	1,265	9,967	6,535	50,229	17,415			87,890
1959				1,317	685	748	10,508	32,872	49,542	14,803			110,475
1960				1,579	1,236	908	8,475	22,443	51,749	10,505			96,895
1961				896	580	1,281	7,469	11,428	64,521	17,568			103,743
1962				1,650	762	1,108	11,321	28,288	98,042	22,010			163,181
1963				813	1,751	2,639	8,252	26,282	47,982	25,927			113,646
1964				1,789	805	486	7,602	25,918	53,180	10,962			100,742
1965				1,361	363	231	11,749	31,155	54,450	19,651			118,960
1966				2,279	954	1,476	18,241	26,062	71,180	24,938			145,130
1967				1,434	1,130	152	5,771	14,894	32,310	22,009			77,700
1968				5,451	3,361	247	4,058	22,268	61,167	15,970			112,522
1969				2,304	1,792	711	7,668	13,641	35,836	14,729			76,681
1970				1,347	1,001	340	5,183	15,236	39,150	7,502			69,759
1971				813	374	271	8,931	21,324	62,083	15,834			109,630
1972				1,614	393	130	8,155	20,548	46,393	16,587			93,820
1973				3,178	846	270	6,898	11,121	32,701	9,606			64,620
1974				847	715	681	4,093	5,242	8,648	6,706			26,932
1975				612	209	254	3,623	6,708	8,329	2,928			22,663
Total	1,059	925	2,918	43,458	22,754	14,098	179,389	442,357	954,622	331,780	8,168	2,377	2,003,905
22-Year Average				1,975	1,034	641	8,154	20,107	43,392	15,081			91,087

TABLE 74

YEARLY TOTALS OF SALMONIDS COUNTED OVER ICE HARBOR DAM

1962 - 1975

Year	Chinook	Steelhead	Sockeye	Coho	Chum	Total Salmonid
1962	94,301	115,796	38	3,207		213,342
1963	61,190	74,539	1,118	1,933		138,780
1964	60,097	58,860	1,276	2,071		122,304
1965	39,233	62,873	317	320		102,743
1966	75,882	65,798	278	878		142,836
1967	84,930	44,205	717	3,770		133,622
1968	98,681	82,383	1,165	6,227		188,456
1969	100,514	63,889	745	5,316		170,464
1970	77,698	53,870	797	3,636		136,001
1971	70,248	67,029	532	2,969		140,778
1972	82,632	63,593	363	2,522	6	149,116
1973	81,821	38,311	233	2,443	4	122,812
1974	32,444	12,528	204	1,334	2	46,512
1975	31,686	16,218	243	1,559		49,706
Total	991,357	819,892	8,026	38,185		1,857,472
14-Year Average	70,811	58,564	573	2,728		132,677

TABLE 75

MONTHLY TOTALS OF SALMONIDS AND SHAD COUNTED OVER ICE HARBOR DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK	-	-	-	1,314	17,796	5,817	3,972	506	1,875	406	-	-	31,686
STEELHEAD	-	-	-	564	409	76	1,223	3,878	6,816	3,252	-	-	16,218
SOCKEYE	-	-	-	-	-	1	224	16	2	-	-	-	243
COHO	-	-	-	-	-	-	94	62	1,290	113	-	-	1,559
CHUM	-	-	-	-	-	-	-	-	-	-	-	-	0
TOTAL SALMONID		-	-	1,878	18,205	5,894	5,513	4,462	9,983	3,771	-	-	49,706
SHAD	-	-	-	-	4	-	2,135	1,100	244	-	-	-	3,483

TABLE 75

TABLE 76
WATER TEMPERATURE AND STREAM FLOW DATA
ICE HARBOR - 1975

	JANUARY			FEBRUARY			MARCH		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	41	28,000	5 0	37	41,600	1 0	40	43,400	0 8
2	41	28,400	5 0	37	29,300	0 8	40	47,000	0 8
3	40	28,000	5 0	37	40,700	0 6	40	73,200	1 0
4	40	28,000	5 0	37	36,700	1 0	40	66,200	1 0
5	40	36,200	5 0	37	42,400	0 9	40	65,300	1 0
6	40	32,100	5 0	37	39,500	0 8	40	64,200	1 0
7	40	41,600	5 0	36	42,700	0 8	40	67,000	1 5
8	40	34,700	5 0	36	42,900	0 8	40	67,500	1 5
9	40	39,600	5 0	36	42,400	1 0	41	81,300	0 8
10	39	37,700	5 0	35	35,000	1 0	41	87,500	0 8
11	39	38,100	5 0	35	42,400	1 0	41	74,400	1 2
12	39	25,600	5 0	35	40,800	1 0	42	78,100	2 0
13	38	37,700	5 0	35	43,100	2 0	42	75,100	2 0
14	37	35,300	5 0	36	39,800	3 3	42	73,800	2 0
15	37	40,100	1 7	35	11,400	3 3	43	65,500	2 0
16	37	44,000	1 1	35	22,800	3 3	43	60,200	2 0
17	37	38,400	1 5	35	25,400	4 0	43	71,300	2 0
18	37	37,900	1 1	36	43,700	4 0	43	58,200	2 0
19	37	45,100	1 1	36	37,200	4 0	43	62,500	2 3
20	37	46,600	1 0	36	47,400	4 0	43	57,300	2 3
21	38	40,900	0 9	36	70,300	2 5	43	63,600	1 8
22	38	34,600	1 2	36	57,500	2 5	43	75,200	1 4
23	38	38,000	1 2	36	62,300	1 0	43	65,300	1 4
24	38	38,200	1 2	37	56,000	1 0	43	62,800	1 4
25	38	37,600	0 9	38	55,200	1 0	43	58,900	1 4
26	39	43,700	0 8	38	50,700	1 0	43	49,800	0 6
27	39	43,600	0 5	38	62,900	1 0	42	62,600	0 8
28	38	48,600	0 9	40	43,100	0 8	42	60,500	0 9
29	38	48,000	0 7				42	64,900	1 0
30	38	42,800	0 6				43	60,300	1 4
31	37	42,000	0 6				43	62,400	1 6

MONTHLY FISH PASSAGE SUMMARY REPORT — ICE HARBOR PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	8	0	0	8	0	46,400	4,300	1.5	43.0
2	0	0	0	0	0	12	0	0	12	0	47,600	3,500	1.4	43.0
3	0	0	0	0	0	13	0	0	13	0	44,200	0	1.5	44.0
4	0	0	0	0	0	13	0	0	13	0	46,200	3,100	1.5	43.0
5	2	0	0	0	0	19	0	0	21	0	53,000	10,700	1.7	44.0
6	0	0	0	0	0	13	0	0	13	0	60,300	17,500	1.6	44.0
7	0	0	0	0	0	9	0	0	9	0	49,400	6,900	1.6	45.0
8	0	0	0	0	0	10	0	0	10	0	63,000	20,700	1.6	45.0
9	0	0	0	0	0	19	0	0	19	0	64,100	21,600	1.5	45.0
10	0	0	0	0	0	12	0	0	12	0	56,400	13,800	1.5	45.0
11	0	0	0	0	0	9	0	0	9	0	63,500	21,100	1.6	45.0
12	0	0	0	0	0	5	0	0	5	0	63,700	21,200	1.5	45.0
13	0	0	0	0	0	9	0	0	9	0	62,200	19,600	1.5	46.0
14	2	0	0	0	0	19	0	0	21	0	65,600	22,200	1.5	46.0
15	4	0	0	0	0	27	0	0	31	0	84,100	40,500	1.5	46.0
16	3	0	0	0	0	29	0	0	32	0	79,000	35,400	1.3	46.0
17	2	0	0	0	0	29	0	0	31	0	90,100	46,600	1.4	46.0
18	6	0	0	0	0	24	0	0	30	0	81,000	37,900	1.3	46.0
19	10	0	0	0	0	30	0	0	40	0	80,500	37,500	1.3	46.0
20	14	0	0	0	0	18	0	0	32	0	74,900	31,100	1.4	47.0
21	29	0	0	0	0	31	0	0	60	0	78,800	35,600	1.3	47.0
22	37	0	0	0	0	29	0	0	66	0	84,400	40,700	1.3	47.0
23	62	0	0	0	0	20	0	0	82	0	99,500	55,000	1.3	48.0
24	102	0	0	0	0	35	0	0	137	0	107,500	63,000	1.4	48.0
25	154	0	0	0	0	26	0	0	180	0	97,500	52,700	1.4	48.0
26	89	0	0	0	0	14	0	0	103	0	106,000	61,200	1.3	48.0
27	189	0	0	0	0	16	0	0	205	0	109,400	65,000	1.3	48.0
28	197	0	0	0	0	25	0	0	222	0	101,100	56,300	1.3	48.0
29	236	0	0	0	0	21	0	0	257	0	93,100	60,200	1.3	49.0
30	176	0	0	0	0	20	0	0	196	0	89,600	54,500	1.3	49.0
TOTALS	1,314	0	0	0	0	564	0	0	1,878	0				

TABLE 78

MONTHLY FISH PASSAGE SUMMARY REPORT — ICE HARBOR PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONIC	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	481	0	0	0	0	29	0	0	510	0	82,500	37,900	1.3	49.0
2	568	0	0	0	0	31	0	0	599	0	92,600	48,500	1.3	50.0
3	354	0	0	0	0	16	0	0	370	0	97,500	52,600	1.0	50.0
4	239	0	0	0	0	6	0	0	245	0	102,300	57,200	1.2	50.0
5	383	0	0	0	0	12	0	0	395	0	96,100	51,900	1.2	51.0
6	397	0	0	0	0	19	0	0	416	0	93,600	49,000	1.2	50.0
7	929	0	0	0	0	12	0	0	941	0	79,400	35,500	1.6	50.0
8	901	0	0	0	0	17	0	0	918	0	84,000	39,800	1.0	50.0
9	872	0	0	0	0	18	0	0	890	0	86,100	41,800	1.2	51.0
10	730	0	0	0	0	19	0	0	749	0	90,100	46,100	1.1	52.0
11	482	0	0	0	0	12	0	0	494	0	122,700	77,500	1.0	52.0
12	423	0	0	0	0	9	0	0	432	0	133,700	88,100	1.0	53.0
13	327	0	0	0	0	11	0	0	338	0	133,200	87,900	1.0	52.0
14	389	0	0	0	0	16	0	0	405	0	129,600	84,400	1.1	52.0
15	521	0	0	0	0	24	0	0	545	0	153,100	107,900	1.1	52.0
16	588	0	0	0	0	15	0	0	603	0	174,600	129,300	1.0	52.0
17	630	0	0	0	0	16	0	0	646	0	179,100	133,100	0.1	52.0
18	484	0	0	0	0	7	0	0	491	0	169,700	123,800	0.8	53.0
19	686	0	0	0	0	16	0	0	702	0	169,100	123,200	0.8	53.0
20	388	0	0	0	0	2	0	0	390	0	166,400	120,100	0.8	53.0
21	848	0	0	0	0	20	0	0	868	0	136,900	91,000	0.9	53.0
22	704	0	0	0	0	5	0	0	709	0	128,800	83,400	0.9	53.0
23	1,789	0	0	0	0	31	0	0	1,820	0	116,800	71,700	1.2	53.0
24	728	0	0	0	0	13	0	0	741	0	126,100	79,700	1.3	53.0
25	614	0	0	0	0	11	0	0	625	0	123,000	77,200	1.3	53.0
26	512	0	0	0	0	4	0	0	516	0	115,100	69,100	1.5	53.0
27	472	0	0	0	0	4	0	0	476	0	103,700	59,400	1.5	53.0
28	397	0	0	0	0	5	0	0	402	0	104,300	59,300	1.4	53.0
29	374	0	0	0	0	7	0	0	381	0	102,800	57,600	1.6	53.0
30	287	0	0	0	0	2	0	0	289	4	128,600	82,000	1.5	53.0
31	299	0	0	0	0	0	0	0	299	0	124,600	78,600	1.5	53.0
TOTALS	17,796	0	0	0	0	409	0	0	18,205	4				

TABLE 79

0717-2

MONTHLY FISH PASSAGE SUMMARY REPORT — ICE HARBOR PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SEECHI)	WATER TEMP (DEG F)
1	316	0	0	0	0	13	0	0	329	0	137,100	90,400	1.3	54.0
2	231	0	0	0	0	9	0	0	240	0	152,000	105,700	1.4	56.0
3	266	0	0	0	0	4	0	0	270	0	167,500	120,600	1.4	55.0
4	232	0	0	0	0	8	0	0	240	0	174,800	127,400	1.4	56.0
5	271	0	0	0	0	10	0	0	281	0	164,900	118,100	1.2	56.0
6	128	0	0	0	0	3	0	0	131	0	169,800	122,700	1.2	56.0
7	197	0	0	0	0	7	0	0	204	0	176,100	128,600	1.2	55.0
8	144	0	0	0	0	2	0	0	146	0	185,200	136,800	1.2	54.0
9	117	0	0	0	0	2	0	0	119	0	170,800	123,400	1.0	53.0
10	190	0	0	0	0	3	0	0	193	0	160,300	113,300	1.0	53.0
11	199	0	0	0	0	2	0	0	201	0	146,300	100,000	1.0	53.0
12	0	213	0	0	0	3	0	0	216	0	145,400	99,400	1.1	54.0
13	0	166	0	0	0	1	0	0	167	0	158,000	110,900	1.1	55.0
14	0	130	0	0	0	0	0	0	130	0	156,200	108,800	1.3	55.0
15	0	118	0	0	0	0	0	0	118	0	154,300	107,000	1.2	55.0
16	0	140	0	0	0	0	0	0	140	0	171,000	124,200	1.0	55.0
17	0	366	0	0	0	0	0	0	366	0	149,800	102,500	0.8	55.0
18	0	229	0	0	0	0	0	0	229	0	137,100	90,600	0.8	56.0
19	0	161	0	0	0	1	0	0	162	0	137,300	91,000	0.8	56.0
20	0	118	0	0	1	0	0	0	119	0	165,100	119,700	0.8	56.0
21	0	177	0	0	0	0	0	0	177	0	161,600	114,700	0.8	55.0
22	0	142	0	0	0	0	0	0	142	0	149,000	102,200	0.8	56.0
23	0	123	0	0	0	2	0	0	125	0	145,700	99,200	0.8	55.0
24	0	125	0	0	0	0	0	0	125	0	151,700	105,600	0.8	54.0
25	0	136	0	0	0	0	0	0	136	0	165,000	118,700	0.7	54.0
26	0	240	0	0	0	1	0	0	241	0	170,200	123,200	0.8	54.0
27	0	238	0	0	0	1	0	0	239	0	154,000	109,400	0.7	54.0
28	0	198	0	0	0	1	0	0	199	0	150,400	103,800	0.8	54.0
29	0	357	0	0	0	2	0	0	359	0	139,600	93,200	1.0	54.0
30	0	149	0	0	0	1	0	0	150	0	124,800	79,500	1.2	54.0
TOTALS	2,291	3,526	0	0	1	76	0	0	5,894	0				

TABLE 80

MONTHLY FISH PASSAGE SUMMARY REPORT — ICE HARBOR PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	219	0	0	0	0	0	0	219	0	107,400	62,400	1.1	54.0
2	0	231	0	0	4	2	0	0	237	0	106,600	61,700	1.6	54.0
3	0	138	0	0	0	1	0	0	139	0	120,400	74,200	1.4	55.0
4	0	96	0	0	0	2	0	0	98	0	129,500	83,600	2.0	55.0
5	0	186	0	0	0	5	0	0	191	0	127,600	81,300	1.6	56.0
6	0	244	0	0	0	8	0	0	252	0	129,500	83,600	1.6	56.0
7	0	427	0	0	2	12	0	0	441	0	125,500	80,100	1.6	57.0
8	0	237	0	0	8	10	0	0	255	0	134,000	88,300	1.6	59.0
9	0	200	0	0	21	10	0	0	231	0	111,500	65,800	2.2	61.0
10	0	187	0	0	16	15	0	0	218	0	111,900	66,800	2.0	62.0
11	0	250	0	0	25	11	0	0	286	0	55,600	54,900	2.0	63.0
12	0	227	0	0	7	19	0	0	253	2	90,000	44,700	2.1	63.0
13	0	197	0	0	24	8	0	0	229	13	82,500	37,600	2.2	63.0
14	0	164	0	0	14	14	0	0	192	43	91,600	47,200	2.2	64.0
15	0	137	0	0	12	10	0	0	159	47	70,100	25,500	1.7	64.0
16	0	108	0	0	2	10	0	0	120	30	86,000	41,600	1.5	65.0
17	0	155	0	0	18	34	0	0	207	45	60,900	17,100	1.9	65.0
18	0	82	0	0	13	57	0	0	152	66	62,400	18,800	1.8	65.0
19	0	66	0	0	12	40	0	0	118	36	54,400	10,400	1.8	66.0
20	0	45	0	0	9	40	0	0	94	80	50,100	6,000	1.9	66.0
21	0	33	0	0	13	51	0	0	97	60	45,500	2,700	2.2	66.0
22	0	34	0	0	4	62	0	0	100	198	52,100	9,000	2.1	67.0
23	0	23	0	0	12	53	0	0	88	331	43,600	200	2.6	67.0
24	0	16	0	0	2	46	0	0	64	215	43,800	0	2.6	67.0
25	0	17	0	0	2	18	0	0	37	154	45,200	1,900	2.5	68.0
26	0	36	0	44	0	47	0	0	127	172	43,400	0	2.2	68.0
27	0	59	0	25	0	98	0	0	182	123	21,200	0	2.2	68.0
28	0	46	0	25	0	109	0	0	180	156	35,000	0	2.2	69.0
29	0	33	0	0	0	99	0	0	132	101	42,300	0	2.2	69.0
30	0	50	0	0	2	117	0	0	169	150	36,700	0	2.2	69.0
31	0	29	0	0	2	215	0	0	246	113	35,100	0	2.2	70.0
TOTALS	0	3,972	0	94	224	1,223	0	0	5,513	2,135				

TABLE 81

1001- 2

MONTHLY FISH PASSAGE SUMMARY REPORT

ICE HARBOR PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	34	0	11	6	146	0	0	197	56	31,900	0	2.2	70.0
2	0	30	0	0	1	139	0	0	170	92	35,900	0	2.2	70.0
3	0	18	0	8	1	146	0	0	173	31	21,600	0	2.2	68.0
4	0	21	0	0	2	126	0	0	149	63	29,200	0	2.3	68.0
5	0	29	0	0	2	169	0	0	200	51	29,700	0	2.2	68.0
6	0	29	0	0	0	154	0	0	183	64	28,400	0	2.2	53.0
7	0	12	0	10	2	145	0	0	169	61	30,700	0	2.2	68.0
8	0	17	0	0	2	163	0	0	182	109	31,300	0	2.4	69.0
9	0	19	0	0	0	71	0	0	90	33	18,600	0	2.8	69.0
10	0	11	0	0	0	11	0	0	22	36	17,000	0	2.8	69.0
11	0	9	0	0	0	74	0	0	83	22	23,800	0	2.8	68.0
12	0	0	7	0	0	78	0	0	85	68	28,800	0	3.2	68.0
13	0	0	6	0	0	109	0	0	115	24	28,400	0	3.5	69.0
14	0	0	2	0	0	91	0	0	93	64	28,500	0	3.4	70.0
15	0	0	19	0	0	197	0	0	216	46	28,400	0	3.4	71.0
16	0	0	17	0	0	199	0	0	216	48	28,900	0	3.2	71.0
17	0	0	28	0	0	208	0	0	236	40	27,900	0	3.4	71.0
18	0	0	4	0	0	117	0	0	121	45	19,500	0	3.0	70.0
19	0	0	4	0	0	137	0	0	141	0	16,000	0	3.2	70.0
20	0	0	6	0	0	76	0	0	82	0	24,400	0	2.4	70.0
21	0	0	3	0	0	119	0	0	122	37	20,800	0	2.3	70.0
22	0	0	9	0	0	93	0	0	102	6	30,600	5,800	2.5	71.0
23	0	0	15	0	0	140	0	0	155	0	28,300	0	2.7	71.0
24	0	0	8	0	0	131	0	0	139	0	28,600	0	2.3	70.0
25	0	0	13	3	0	102	0	0	118	0	52,900	24,000	2.4	70.0
26	0	0	7	0	0	108	0	0	115	34	42,300	11,400	2.3	69.0
27	0	0	12	0	0	100	0	0	112	14	42,900	0	2.5	69.0
28	0	0	64	0	0	134	0	0	198	38	41,500	0	2.6	69.0
29	0	0	20	8	0	108	0	0	136	0	35,400	0	2.6	70.0
30	0	0	15	11	0	144	0	0	170	18	38,300	0	2.9	69.0
31	0	0	18	11	0	143	0	0	172	0	23,000	0	1.9	69.0
TOTALS	0	229	277	62	16	3,878	0	0	4,462	1,100				

TABLE 81

TABLE 82

MONTHLY FISH PASSAGE SUMMARY REPORT — ICE HARBOR PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	19	24	0	144	0	0	187	4	20,900	0	1.8	68.0
2	0	0	7	8	0	107	0	0	122	9	26,200	0	1.7	68.0
3	0	0	7	34	0	156	0	0	197	5	35,300	0	2.2	68.0
4	0	0	13	9	2	125	0	0	149	4	38,500	0	2.3	68.0
5	0	0	24	65	0	222	0	0	311	17	31,500	0	2.4	68.0
6	0	0	23	62	0	191	0	0	276	29	36,900	0	3.5	68.0
7	0	0	30	73	0	156	0	0	259	20	34,000	0	3.4	68.0
8	0	0	23	40	0	221	0	0	284	28	31,500	0	3.5	68.0
9	0	0	58	61	0	173	0	0	292	13	29,800	0	3.5	67.0
10	0	0	58	68	0	222	0	0	348	15	32,500	0	4.5	67.0
11	0	0	88	53	0	377	0	0	518	2	34,500	0	3.6	67.0
12	0	0	94	66	0	300	0	0	460	9	34,400	0	3.6	67.0
13	0	0	74	74	0	344	0	0	492	2	38,200	0	3.8	67.0
14	0	0	108	68	0	374	0	0	550	10	34,300	0	3.8	67.0
15	0	0	143	66	0	354	0	0	563	6	33,900	0	3.8	67.0
16	0	0	145	87	0	450	0	0	682	11	42,500	0	3.8	67.0
17	0	0	157	67	0	380	0	0	604	12	33,700	0	3.8	66.0
18	0	0	69	48	0	52	0	0	169	18	34,300	0	3.0	66.0
19	0	0	89	27	0	221	0	0	337	17	37,400	0	3.2	66.0
20	0	0	67	46	0	274	0	0	387	0	33,200	0	4.0	66.0
21	0	0	68	16	0	232	0	0	316	12	37,700	0	3.7	66.0
22	0	0	85	50	0	242	0	0	377	1	38,500	0	3.1	66.0
23	0	0	88	24	0	188	0	0	300	0	37,500	0	3.4	66.0
24	0	0	82	40	0	305	0	0	427	0	26,200	0	3.1	66.0
25	0	0	89	33	0	214	0	0	336	0	29,500	0	3.3	66.0
26	0	0	45	19	0	181	0	0	245	0	29,000	0	3.4	66.0
27	0	0	39	26	0	184	0	0	249	0	25,300	0	3.5	66.0
28	0	0	37	12	0	168	0	0	217	0	30,400	0	3.5	66.0
29	0	0	20	11	0	136	0	0	167	0	34,600	0	3.3	66.0
30	0	0	26	13	0	123	0	0	162	0	30,300	0	3.5	66.0
TOTALS	0	0	1,875	1,290	2	6,816	0	0	9,983	244				

TABLE 83

MONTHLY FISH PASSAGE SUMMARY REPORT — ICE HARBOR PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	48	13	0	124	0	0	185	0	30,500	0	3.2	66.0
2	0	0	45	15	0	100	0	0	160	0	29,600	0	3.2	65.0
3	0	0	27	12	0	79	0	0	118	0	31,300	0	3.2	65.0
4	0	0	26	11	0	153	0	0	190	0	31,800	0	3.2	65.0
5	0	0	18	4	0	138	0	0	160	0	21,900	0	3.2	65.0
6	0	0	20	6	0	105	0	0	131	0	20,900	0	3.2	65.0
7	0	0	13	2	0	134	0	0	149	0	33,500	0	3.6	64.0
8	0	0	18	15	0	160	0	0	193	0	32,300	0	3.6	64.0
9	0	0	11	3	0	103	0	0	117	0	38,300	0	3.6	64.0
10	0	0	13	1	0	85	0	0	99	0	37,200	0	3.4	62.0
11	0	0	11	4	0	71	0	0	86	0	31,400	0	3.1	62.0
12	0	0	11	1	0	77	0	0	89	0	30,500	0	3.0	61.0
13	0	0	3	2	0	74	0	0	79	0	31,800	0	3.1	61.0
14	0	0	5	1	0	105	0	0	111	0	31,000	0	3.2	60.0
15	0	0	8	0	0	200	0	0	208	0	32,700	0	3.2	60.0
16	0	0	16	0	0	107	0	0	123	0	30,400	0	3.2	60.0
17	0	0	12	6	0	194	0	0	212	0	32,400	0	3.3	60.0
18	0	0	11	3	0	111	0	0	125	0	28,400	0	3.3	60.0
19	0	0	16	7	0	150	0	0	173	0	26,400	0	3.2	60.0
20	0	0	9	5	0	151	0	0	165	0	32,900	0	3.8	60.0
21	0	0	9	1	0	131	0	0	141	0	31,400	0	3.5	60.0
22	0	0	5	0	0	87	0	0	92	0	32,400	0	3.5	59.0
23	0	0	16	0	0	83	0	0	99	0	43,000	5,900	3.5	58.0
24	0	0	11	1	0	65	0	0	77	0	48,000	7,500	3.5	59.0
25	0	0	5	0	0	70	0	0	75	0	39,800	400	3.5	58.0
26	0	0	5	0	0	11	0	0	16	0	37,900	0	3.5	58.0
27	0	0	5	0	0	67	0	0	72	0	40,200	0	3.5	58.0
28	0	0	0	0	0	110	0	0	110	0	31,200	0	3.8	57.0
29	0	0	3	0	0	76	0	0	79	0	32,000	0	3.8	57.0
30	0	0	2	0	0	69	0	0	71	0	37,000	0	3.8	56.0
31	0	0	4	0	0	62	0	0	66	0	36,400	0	3.9	56.0
TOTALS	0	0	406	113	0	3,252	0	0	3,771	0				

TABLE 84
WATER TEMPERATURE AND STREAM FLOW DATA
ICE HARBOR - 1975

	NOVEMBER			DECEMBER		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	56	33,200	3 5	44	42,500	4 3
2	56	33,600	3 4	44	58,200	4 2
3	55	35,200	3 5	44	86,800	4 2
4	55	39,200	4 2	44	74,000	4 3
5	55	42,700	4 2	44	81,900	4 3
6	54	44,300	4 2	44	75,000	4 3
7	54	42,600	4 2	43	66,200	3 5
8	54	43,100	3 3	43	102,300	3 5
9	54	43,600	3 3	43	91,800	3 5
10	52	43,200	3 2	43	85,800	1 3
11	52	43,200	3 2	43	75,500	1 3
12	51	42,600	3 9	43	77,900	1 1
13	50	40,000	3 9	43	85,400	0 7
14	50	38,500	3 8	41	86,100	0 7
15	48	24,900	4 1	41	78,000	0 7
16	48	34,500	4 1	41	59,800	0 8
17	48	37,500	4 0	41	58,600	1 1
18	48	40,100	4 1	41	60,200	1 1
19	46	39,800	4 1	40	54,500	1 3
20	46	42,400	4 1	40	54,100	1 3
21	46	43,100	4 2	40	55,200	1 3
22	45	41,200	4 2	40	54,100	1 3
23	45	36,400	4 2	40	46,400	1 3
24				41	45,500	1 0
25	46	40,900	3 9	41	43,300	1 0
26				40	44,300	0 8
27	46	39,000	4 0	40	64,600	1 2
28	45	43,000	4 2	40	63,800	1 3
29	45	42,500	4 2	40	60,100	1 5
30	45	40,700	4 4	40	59,400	1 6
31				40	51,600	1 2

TABLE 85

PEAK DAYS OF MIGRATION

ICE HARBOR DAM - 1962-1975

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho	
Year	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish
1962	May 17	2,425	Jun 28	2,509	Sep 24	1,398	Sep 19	5,313	Jul 1	5	Sep 16	416
1963	May 12	1,843	Jun 25	1,150	Sep 27	812	Sep 27	2,741	Jul 8	125	Sep 14	116
1964	May 9	2,284	Jul 4	1,554	Sep 10	546	Sep 19	2,558	Sep 22	54	Sep 10	202
1965	May 22	1,300	Jul 3	924	Sep 18	653	Sep 18	2,246	Jul 8	104	Sep 19	70
1966	Apr 24	3,902	Jun 27	1,030	Sep 9	707	Sep 26	2,770	Jul 9	41	Sep 27	92
1967	Apr 28	2,423	Jul 7	1,448	Sep 18	1,570	Sep 19	1,820	Jul 12	123	Sep 18	289
1968	May 2	6,411	Jul 23	1,420	Sep 11	1,177	Sep 16	3,434	Jul 7	101	Sep 10	358
1969	May 19	2,993	Jun 25	1,673	Sep 20	910	Sep 21	1,841	Jul 1	50	Sep 20	339
1970	May 1	5,125	Jun 25	765	Sep 19	875	Sep 19	3,863	Jul 14	59	Sep 17	247
1971	May 26	2,189	Jul 9	1,036	Sep 12	669	Sep 25	2,494	Jul 23	45	Sep 12	243
1972	Apr 30	3,564	Jul 6	1,426	Sep 23	465	Sep 20	2,808	Jul 18	28	Sep 26	283
1973	Apr 29	4,821	Jun 18	1,062	Sep 15	712	Sep 19	1,698	Jul 11	27	Sep 13	163
1974	May 19	1,306	Jun 30	525	Sep 17	191	Sep 26	287	Jul 11	18	Sep 22	57
1975	May 23	1,789	Jul 7	427	Sep 17	157	Sep 16	450	Jul 11	25	Sep 16	87
Total		42,375		16,949		10,842		34,323		805		2,962
14-Year Average		3,027		1,211		774		2,452		57		216

TABLE 86

MONTHLY COUNT OF CHINOOK SALMON

ICE HARBOR DAM - 1962-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	SPRING Apr 1 Jun 11	SUMMER Jun 12 Aug 11	FALL Aug 12 Oct 31
1962				2,579	28,951	23,250	8,315	3,547	20,578	7,081			94,301	33,613	30,639	30,049
1963				3,434	21,790	14,001	7,591	1,415	9,342	2,918	677	22	61,190	26,778	20,875	13,537
1964		1	2	4,048	19,611	5,409	18,832	2,161	8,159	1,701	156	17	60,097	24,304	24,696	11,097
1965			4	1,677	9,649	5,072	10,209	803	9,318	2,152	349		39,233	12,178	14,701	12,354
1966				23,382	19,294	10,611	7,166	1,933	10,756	2,740			75,882	43,881	16,983	15,018
1967				15,973	18,137	9,020	22,218	820	11,947	6,815			84,930	35,593	30,315	19,022
1968				1,595	41,398	12,119	17,751	3,433	16,588	5,275	493	29	98,681	44,773	29,531	24,377
1969			195	697	43,181	24,918	12,861	2,369	12,027	3,555	708	3	100,514	52,090	30,917	17,507
1970				12,167	33,881	12,338	8,185	1,747	7,702	1,456	219	3	77,698	47,931	19,382	10,385
1971				1,104	25,089	19,265	13,364	873	8,960	1,593			70,248	32,638	26,606	11,004
1972				14,535	34,734	7,544	15,177	1,869	6,089	2,684			82,632	50,350	22,846	9,436
1973				34,277	23,627	10,925	4,254	840	6,657	1,241			81,821	60,639	12,829	8,353
1974				842	16,670	5,315	6,494	483	2,066	574			32,444	19,361	10,269	2,814
1975				1,314	17,796	5,817	3,972	506	1,875	406			31,686	21,401	7,727	2,558
Total		1	201	117,624	353,808	165,604	156,389	22,799	132,064	40,191	2,602	74	991,357	503,530	298,316	187,511
14-Year Average				8,402	25,272	11,829	11,171	1,629	9,433	2,871			70,811	36,109	21,308	13,394

TABLE 87

MONTHLY COUNT OF STEELHEAD TROUT

ICE HARBOR DAM - 1962-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1962				8,758	716	261	2,384	7,450	75,924	20,303			115,796
1963				969	895	163	2,157	6,514	35,382	24,070	4,042	347	74,539
1964	105	136	796	2,269	807	153	1,596	9,462	34,435	7,357	1,347	397	58,860
1965	31	110	673	1,976	488	439	3,739	4,497	33,595	13,522	3,803		62,873
1966				2,161	810	413	1,383	2,517	40,185	18,329			65,798
1967				1,266	894	345	972	953	18,914	20,861			44,205
1968				2,558	2,933	357	952	8,107	45,552	17,270	3,692	962	82,383
1969	132	41	807	4,971	2,430	321	3,348	5,715	27,219	14,953	3,874	78	63,889
1970				1,597	1,067	389	2,620	7,611	30,101	8,290	1,891	304	53,870
1971			458	1,938	843	215	3,064	2,996	42,481	15,034			67,029
1972				1,853	553	152	3,062	6,503	34,134	17,336			63,593
1973				1,570	827	254	1,785	2,699	22,021	9,155			38,311
1974				972	359	104	1,482	2,202	3,661	3,748			12,528
1975				564	409	76	1,223	3,878	6,816	3 252			16,218
Total	268	287	2,734	33,422	14,031	3,642	29,767	71,104	450,420	193,480	18,649	2,088	819,892
14-Year Average			210	2,387	1,002	260	2,126	5,079	32,173	13,820			58,564

TABLE 88

YEARLY TOTALS OF SALMONID FISH COUNTED OVER LOWER MONUMENTAL DAM

1969 - 1975

Year	Chinook	Steelhead	Sockeye	Coho	Total Salmonid
1969	86,700	71,434	1,127	6,466	165,727
1970	73,310	62,167	240	2,972	138,689
1971	68,885	70,114	808	2,171	141,978
1972	72,220	66,857	415	733	140,225
1973	80,557	39,530	206	1,333	121,626
1974	31,728	15,139	114	812	47,793
1975	33,013	17,363	146	572	51,094
Total	446,413	342,604	3,056	15,059	807,132
7-Year Average	63,773	48,943	437	2,151	115,305

TABLE 88

TABLE 89

MONTHLY TOTALS OF SALMONID AND SHAD COUNTED OVER LOWER MONUMENTAL DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK	-	-	-	704	17,421	6,648	4,884	548	2,428	380	-	-	33,013
STEELHEAD	-	-	-	745	444	24	873	4,417	7,437	3,423	-	-	17,363
SOCKEYE	-	-	-	-	-	2	140	1	2	1	-	-	146
COHO	-	-	-	-	-	-	-	1	562	9	-	-	572
CHUM	-	-	-	-	-	-	-	-	-	-	-	-	0
TOTAL SALMONID		-	-	1,449	17,865	6.674	5,897	4,967	10,429	3,813	-	-	51,094
SHAD	-	-	-	-	-	-	133	28	-	-	-	-	161

TABLE 90
WATER TEMPERATURE AND STREAM FLOW DATA
LOWER MONUMENTAL - 1975

	JANUARY			FEBRUARY			MARCH		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	41	23,000	3 3	37	41,700	0 8	39	44,100	7
2	41	35,900	3 3	37	26,500	0 7	39	49,600	1 3
3	41	28,800	3 4	36	41,700	1 2	39	72,800	1 4
4	41	28,400	3 3	36	37,900	1 2	40	67,100	5
5	40	37,500	3 3	36	39,300	1 3	40	64,200	6
6	40	32,000	3 2	36	42,700	1 8	40	65,100	5
7	40	41,300	3 0	36	42,700	1 8	40	64,500	7
8	40	35,400	1 2	35	42,800	2 1	41	68,200	7
9	39	40,500	0 8	35	42,800	2 3	41	82,200	9
10	39	40,000	0 6	34	39,800	2 4	41	83,000	1 2
11	38	36,800	0 5	34	39,600	2 4	41	74,500	1 4
12	38	35,800	0 6	34	42,400	2 5	42	77,100	1 2
13	38	39,400	0 8	35	46,800	2 7	42	74,400	1 0
14	38	35,300	0 8	35	39,900	2 6	42	73,500	1 2
15	38	40,800	1 0	36	11,600	2 6	42	66,800	1 5
16	37	43,000	0 8	36	22,500	2 6	42	64,300	1 5
17	38	41,600	0 8	36	30,100	1 5	42	69,300	1 3
18	38	36,900	0 2	36	36,800	1 0	42	62,400	1 2
19	38	47,000	0 4	36	42,000	0 6	42	61,800	1 1
20	38	46,500	0 6	36	48,700	0 6	42	58,700	1 3
21	38	42,200	0 6	36	70,600	1 0	42	64,000	1 4
22	38	36,900	0 3	37	65,400	0 5	42	76,500	0 4
23	38	38,700	0 3	38	64,000	0 6	42	67,700	0 4
24	38	37,800	0 2	38	54,500	0 6	42	64,700	0 7
25	39	39,600	0 2	39	57,000	0 6	42	60,600	0 7
26	39	45,000	0 2	39	55,400	0 7	42	50,500	0 7
27	39	44,200	0 4	39	57,600	0 8	42	63,200	1 1
28	39	49,200	0 5	39	51,600	1 0	42	62,800	1 2
29	39	47,100	0 5				43	65,100	1 6
30	38	43,600	0 6				43	61,400	1 5
31	37	42,700	0 6				43	63,400	1 4

TABLE 91

0611-5

MONTHLY FISH PASSAGE SUMMARY REPORT

LOWER MONUMENTAL PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	12	0	0	12	0	47,100	0	1.5	43.0
2	0	0	0	0	0	12	0	0	12	0	48,000	3,000	1.6	43.0
3	0	0	0	0	0	25	0	0	25	0	49,700	0	1.6	44.0
4	0	0	0	0	0	20	0	0	20	0	48,800	0	1.6	44.0
5	0	0	0	0	0	27	0	0	27	0	53,500	0	1.8	44.0
6	0	0	0	0	0	33	0	0	33	0	60,700	0	1.9	44.0
7	0	0	0	0	0	15	0	0	15	0	52,800	0	1.7	44.0
8	1	0	0	0	0	18	0	0	19	0	64,100	0	1.8	44.0
9	0	0	0	0	0	9	0	0	9	0	64,800	0	1.8	44.0
10	0	0	0	0	0	15	0	0	15	0	59,700	0	1.9	44.0
11	0	0	0	0	0	20	0	0	20	0	66,500	0	1.9	45.0
12	0	0	0	0	0	22	0	0	22	0	66,500	0	1.9	45.0
13	0	0	0	0	0	28	0	0	28	0	63,600	0	1.9	46.0
14	1	0	0	0	0	17	0	0	18	0	68,000	2,400	1.7	46.0
15	0	0	0	0	0	16	0	0	16	0	76,700	12,300	1.5	46.0
16	0	0	0	0	0	22	0	0	22	0	83,700	19,100	1.3	46.0
17	2	0	0	0	0	28	0	0	30	0	87,800	22,700	1.4	46.0
18	2	0	0	0	0	28	0	0	30	0	84,400	17,400	1.4	46.0
19	3	0	0	0	0	40	0	0	43	0	81,600	14,900	1.3	47.0
20	2	0	0	0	0	36	0	0	38	0	76,700	12,400	1.4	47.0
21	9	0	0	0	0	18	0	0	27	0	79,400	14,400	1.2	47.0
22	2	0	0	0	0	17	0	0	19	0	85,600	21,200	1.3	47.0
23	5	0	0	0	0	29	0	0	34	0	100,400	34,300	1.4	47.0
24	6	0	0	0	0	19	0	0	25	0	107,700	63,200	1.4	47.0
25	19	0	0	0	0	29	0	0	48	0	100,800	48,200	0.8	47.0
26	43	0	0	0	0	48	0	0	91	0	105,500	39,800	0.9	47.0
27	127	0	0	0	0	35	0	0	162	0	110,400	52,900	0.8	47.0
28	151	0	0	0	0	35	0	0	186	0	98,200	32,500	0.8	48.0
29	154	0	0	0	0	45	0	0	199	0	98,300	32,800	1.1	48.0
30	177	0	0	0	0	27	0	0	204	0	87,900	21,800	1.0	48.0
TOTALS	704	0	0	0	0	745	0	0	1,449	0				

TABLE 91

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER MONUMENTAL PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	280	0	0	0	0	27	0	0	307	0	88,200	22,000	1.0	49.0
2	252	0	0	0	0	42	0	0	294	0	94,300	41,600	1.0	49.0
3	260	0	0	0	0	22	0	0	282	0	97,000	73,400	1.0	49.0
4	264	0	0	0	0	21	0	0	285	0	105,200	82,300	0.9	49.0
5	469	0	0	0	0	38	0	0	507	0	97,600	62,000	0.8	49.0
6	527	0	0	0	0	24	0	0	551	0	93,900	56,900	1.3	49.0
7	399	0	0	0	0	23	0	0	422	0	76,300	38,600	1.2	49.0
8	632	0	0	0	0	32	0	0	664	0	84,900	41,900	1.5	51.0
9	1,053	0	0	0	0	22	0	0	1,075	0	88,300	49,800	1.6	52.0
10	634	0	0	0	0	20	0	0	654	0	89,000	34,400	1.6	52.0
11	995	0	0	0	0	16	0	0	1,011	0	124,300	80,100	1.3	52.0
12	226	0	0	0	0	10	0	0	236	0	131,600	83,800	1.1	52.0
13	253	0	0	0	0	11	0	0	264	0	133,700	97,500	1.2	51.0
14	241	0	0	0	0	11	0	0	252	0	132,800	99,800	1.1	51.0
15	641	0	0	0	0	16	0	0	657	0	155,000	114,100	1.2	53.0
16	302	0	0	0	0	3	0	0	305	0	175,400	127,100	1.1	53.0
17	119	0	0	0	0	8	0	0	127	0	177,600	141,500	1.1	52.0
18	229	0	0	0	0	11	0	0	240	0	165,000	128,400	1.1	52.0
19	284	0	0	0	0	14	0	0	298	0	165,800	123,500	1.0	52.0
20	156	0	0	0	0	7	0	0	163	0	162,400	120,600	0.8	52.0
21	582	0	0	0	0	12	0	0	594	0	134,000	92,700	0.8	52.0
22	878	0	0	0	0	10	0	0	888	0	128,900	76,200	0.9	52.0
23	1,212	0	0	0	0	21	0	0	1,233	0	116,400	63,200	0.9	52.0
24	1,255	0	0	0	0	6	0	0	1,261	0	127,400	62,600	0.8	52.0
25	903	0	0	0	0	1	0	0	904	0	123,200	57,500	1.2	51.0
26	585	0	0	0	0	2	0	0	587	0	113,700	48,200	1.2	51.0
27	821	0	0	0	0	2	0	0	823	0	101,500	37,000	1.4	52.0
28	979	0	0	0	0	6	0	0	985	0	105,300	41,100	1.4	52.0
29	1,041	0	0	0	0	2	0	0	1,043	0	99,100	36,000	1.6	53.0
30	400	0	0	0	0	1	0	0	401	0	133,200	69,100	1.8	53.0
31	549	0	0	0	0	3	0	0	552	0	127,400	61,700	2.0	54.0
TOTALS	17,421	0	0	0	0	444	0	0	17,865	0				

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER MONUMENTAL PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	424	0	0	0	0	2	0	0	426	0	139,300	73,600	2.0	55.0
2	388	0	0	0	0	3	0	0	391	0	152,800	87,000	1.2	55.0
3	454	0	0	0	0	5	0	0	459	0	168,700	102,100	1.2	56.0
4	336	0	0	0	0	2	0	0	338	0	172,800	106,200	1.2	56.0
5	300	0	0	0	0	2	0	0	302	0	162,200	96,100	1.2	56.0
6	163	0	0	0	0	0	0	0	163	0	167,100	100,100	1.4	55.0
7	103	0	0	0	0	0	0	0	103	0	174,100	107,300	1.6	53.0
8	100	0	0	0	0	1	0	0	101	0	184,200	116,500	1.2	52.0
9	119	0	0	0	0	2	0	0	121	0	166,800	100,000	1.0	52.0
10	383	0	0	0	0	1	0	0	384	0	160,000	94,400	1.2	53.0
11	148	0	0	0	0	4	0	0	152	0	150,900	85,000	1.1	53.0
12	118	0	0	0	0	0	0	0	118	0	145,200	79,000	1.3	54.0
13	237	0	0	0	0	0	0	0	237	0	163,800	97,700	1.1	54.0
14	0	186	0	0	0	0	0	0	186	0	160,800	94,200	0.8	54.0
15	0	149	0	0	0	0	0	0	149	0	153,500	86,600	0.7	55.0
16	0	269	0	0	0	0	0	0	269	0	166,300	99,000	0.7	55.0
17	0	172	0	0	0	0	0	0	172	0	146,100	78,700	0.5	55.0
18	0	316	0	0	0	0	0	0	316	0	138,500	72,700	0.8	55.0
19	0	243	0	0	0	1	0	0	244	0	136,500	70,300	0.7	55.0
20	0	120	0	0	0	0	0	0	120	0	157,000	91,900	0.8	55.0
21	0	72	0	0	0	0	0	0	72	0	154,100	86,800	0.7	55.0
22	0	94	0	0	0	0	0	0	94	0	149,500	81,800	0.6	54.0
23	0	159	0	0	0	0	0	0	159	0	144,200	77,500	0.7	53.0
24	0	144	0	0	0	1	0	0	145	0	151,400	83,900	0.7	53.0
25	0	142	0	0	0	0	0	0	142	0	166,500	98,500	0.9	53.0
26	0	261	0	0	0	0	0	0	261	0	166,100	98,300	0.9	53.0
27	0	332	0	0	0	0	0	0	332	0	154,000	87,400	0.9	54.0
28	0	384	0	0	1	0	0	0	385	0	145,100	79,000	0.9	54.0
29	0	129	0	0	0	0	0	0	129	0	131,600	65,800	0.9	54.0
30	0	203	0	0	1	0	0	0	204	0	120,600	55,600	0.9	54.0
TOTALS	3,273	3,375	0	0	2	24	0	0	6,674	0				

MONTHLY FISH PASSAGE SUMMARY REPORT LOWER MONUMENTAL PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	258	0	0	0	0	0	0	258	0	110,900	46,000	0.9	54.0
2	0	293	0	0	0	2	0	0	295	0	106,200	40,200	0.9	54.0
3	0	290	0	0	1	0	0	0	291	0	121,700	55,300	1.0	55.0
4	0	180	0	0	2	0	0	0	182	0	131,600	65,100	1.2	55.0
5	0	200	0	0	0	0	0	0	200	0	128,900	62,500	2.0	56.0
6	0	150	0	0	6	0	0	0	156	0	128,400	61,800	1.8	57.0
7	0	298	0	0	0	0	0	0	298	4	124,700	58,500	1.8	58.0
8	0	378	0	0	2	3	0	0	383	0	130,300	64,500	2.0	60.0
9	0	112	0	0	2	0	0	0	114	3	112,000	46,100	1.8	62.0
10	0	134	0	0	1	1	0	0	136	1	109,500	44,800	1.8	63.0
11	0	57	0	0	4	1	0	0	62	0	97,100	36,400	1.5	63.0
12	0	414	0	0	3	3	0	0	420	0	86,900	23,500	1.6	63.0
13	0	249	0	0	5	5	0	0	259	0	79,200	15,600	1.3	64.0
14	0	303	0	0	14	4	0	0	321	15	89,000	25,800	1.4	64.0
15	0	406	0	0	19	8	0	0	433	32	72,700	8,900	1.4	65.0
16	0	153	0	0	8	12	0	0	173	5	84,300	20,700	1.6	65.0
17	0	118	0	0	11	36	0	0	165	9	64,100	0	1.8	66.0
18	0	143	0	0	15	25	0	0	183	15	63,900	0	1.8	66.0
19	0	141	0	0	16	29	0	0	186	12	57,800	0	1.9	66.0
20	0	112	0	0	9	32	0	0	153	5	46,400	0	2.0	66.0
21	0	71	0	0	8	50	0	0	129	4	53,500	0	2.2	66.0
22	0	42	0	0	4	32	0	0	78	4	54,400	0	2.3	66.0
23	0	42	0	0	3	36	0	0	81	3	44,400	0	2.3	66.0
24	0	63	0	0	3	34	0	0	100	0	45,400	0	2.3	67.0
25	0	35	0	0	1	68	0	0	104	0	44,200	0	2.4	67.0
26	0	39	0	0	1	41	0	0	81	2	42,400	0	2.4	68.0
27	0	23	0	0	0	71	0	0	94	1	18,400	0	2.4	68.0
28	0	21	0	0	2	54	0	0	77	0	41,300	0	2.4	68.0
29	0	63	0	0	0	85	0	0	148	4	39,200	0	1.4	68.0
30	0	45	0	0	0	121	0	0	166	5	43,100	0	2.2	68.0
31	0	51	0	0	0	120	0	0	171	9	31,000	0	1.6	69.0
TOTALS	0	4,884	0	0	140	873	0	0	5,897	133				

TABLE 95

1001-5

MONTHLY FISH PASSAGE SUMMARY REPORT

LOWER MONUMENTAL PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	27	0	0	1	137	0	0	165	5	36,400	0	1.6	69.0
2	0	30	0	0	0	205	0	0	235	4	32,000	0	2.0	69.0
3	0	41	0	0	0	184	0	0	225	1	21,700	0	2.2	69.0
4	0	34	0	0	0	130	0	0	164	1	33,200	0	2.8	69.0
5	0	25	0	0	0	202	0	0	227	2	29,100	0	3.0	69.0
6	0	21	0	0	0	224	0	0	245	1	30,500	0	3.4	69.0
7	0	17	0	0	0	196	0	0	213	0	30,800	0	3.0	70.0
8	0	30	0	0	0	209	0	0	239	0	30,800	0	2.0	70.0
9	0	30	0	0	0	132	0	0	162	0	18,600	0	2.3	70.0
10	0	6	0	0	0	139	0	0	145	2	16,400	0	2.4	70.0
11	0	11	0	0	0	127	0	0	138	0	30,600	0	2.5	70.0
12	0	22	0	0	0	127	0	0	149	0	28,400	0	2.5	69.0
13	0	9	0	0	0	102	0	0	111	0	31,600	0	2.5	70.0
14	0	0	10	0	0	107	0	0	117	1	26,400	0	2.6	70.0
15	0	0	23	0	0	97	0	0	120	0	31,400	0	2.6	70.0
16	0	0	9	0	0	140	0	0	149	2	29,200	0	2.5	70.0
17	0	0	22	0	0	225	0	0	247	1	20,800	0	2.3	70.0
18	0	0	9	0	0	160	0	0	169	3	27,400	0	1.6	70.0
19	0	0	8	0	0	217	0	0	225	2	14,400	0	2.2	70.0
20	0	0	8	0	0	108	0	0	116	2	20,000	0	2.5	70.0
21	0	0	12	0	0	102	0	0	114	1	32,100	0	2.9	70.0
22	0	0	10	0	0	137	0	0	147	0	30,500	0	2.8	70.0
23	0	0	2	0	0	82	0	0	84	0	28,800	0	2.6	70.0
24	0	0	12	0	0	107	0	0	119	0	29,700	0	2.6	70.0
25	0	0	11	0	0	121	0	0	132	0	52,200	1,400	2.5	70.0
26	0	0	6	0	0	107	0	0	113	0	42,900	0	2.6	70.0
27	0	0	17	0	0	88	0	0	105	0	44,200	0	2.6	70.0
28	0	0	32	0	0	139	0	0	171	0	38,000	0	1.7	70.0
29	0	0	9	0	0	98	0	0	107	0	39,000	0	1.8	69.0
30	0	0	22	1	0	134	0	0	157	0	36,300	0	1.9	69.0
31	0	0	23	0	0	134	0	0	157	0	20,700	0	1.9	69.0
TOTALS	0	303	245	1	1	4,417	0	0	4,967	28				

TABLE 96

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER MONUMENTAL PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	13	3	0	93	0	0	109	0	20,400	0	2.0	69.0
2	0	0	28	9	0	136	0	0	173	0	30,800	0	2.0	68.0
3	0	0	13	1	0	103	0	0	117	0	40,800	0	2.0	68.0
4	0	0	38	9	0	131	0	0	178	0	37,000	0	2.2	68.0
5	0	0	18	8	0	129	0	0	155	0	33,200	0	2.2	68.0
6	0	0	36	49	0	158	0	0	243	0	37,700	0	2.4	68.0
7	0	0	29	28	0	196	0	0	253	0	32,800	0	2.4	68.0
8	0	0	62	39	0	189	0	0	290	0	32,000	0	2.4	67.0
9	0	0	32	42	0	172	0	0	246	0	27,000	0	2.8	67.0
10	0	0	44	34	0	200	0	0	278	0	38,000	0	3.0	67.0
11	0	0	42	56	0	223	0	0	321	0	35,600	0	2.6	67.0
12	0	0	105	57	0	327	0	0	489	0	35,000	0	2.8	67.0
13	0	0	84	15	0	265	0	0	364	0	38,400	0	3.0	67.0
14	0	0	142	16	0	349	0	0	507	0	35,000	0	3.0	66.0
15	0	0	206	20	0	388	0	0	614	0	35,800	0	3.0	66.0
16	0	0	208	40	0	448	0	0	696	0	35,600	0	3.0	66.0
17	0	0	156	44	0	448	0	0	648	0	35,200	0	3.0	66.0
18	0	0	132	22	0	350	0	0	504	0	37,000	0	3.2	66.0
19	0	0	138	12	0	420	0	0	570	0	40,900	0	3.4	66.0
20	0	0	142	14	0	420	0	0	576	0	35,800	0	3.2	66.0
21	0	0	122	11	0	404	0	0	537	0	38,300	0	3.2	65.0
22	0	0	87	5	0	218	0	0	310	0	38,900	0	3.2	65.0
23	0	0	140	4	2	250	0	0	396	0	29,700	0	3.3	65.0
24	0	0	104	8	0	280	0	0	392	0	30,800	0	3.2	65.0
25	0	0	81	5	0	228	0	0	314	0	30,300	0	3.3	65.0
26	0	0	83	3	0	281	0	0	367	0	29,900	0	3.3	65.0
27	0	0	58	2	0	168	0	0	228	0	26,600	0	3.5	65.0
28	0	0	40	0	0	191	0	0	231	0	31,300	0	3.2	65.0
29	0	0	28	3	0	183	0	0	214	0	38,100	0	3.1	65.0
30	0	0	17	3	0	89	0	0	109	0	30,300	0	3.0	65.0
TOTALS	0	0	2,428	562	2	7,437	0	0	10,429	0				

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER MONUMENTAL PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	21	1	0	109	0	0	131	0	32,300	0	3.0	65.0
2	0	0	35	2	0	117	0	0	154	0	30,800	0	3.2	65.0
3	0	0	29	0	0	152	0	0	181	0	31,400	0	2.8	65.0
4	0	0	30	1	0	92	0	0	123	0	29,000	0	2.5	65.0
5	0	0	21	0	0	126	0	0	147	0	23,600	0	3.0	64.0
6	0	0	21	0	0	135	0	0	156	0	23,000	0	3.2	64.0
7	0	0	17	0	0	118	0	0	135	0	35,100	0	2.8	67.0
8	0	0	27	4	0	180	0	0	211	0	32,700	0	2.8	63.0
9	0	0	6	0	0	110	0	0	116	0	36,500	0	3.0	63.0
10	0	0	7	0	0	96	0	0	103	0	37,700	0	3.0	63.0
11	0	0	18	0	0	101	0	0	119	0	31,900	0	3.0	62.0
12	0	0	16	0	1	67	0	0	84	0	30,700	0	3.0	62.0
13	0	0	6	0	0	81	0	0	87	0	35,600	0	3.0	62.0
14	0	0	6	0	0	76	0	0	82	0	31,500	0	3.2	62.0
15	0	0	16	0	0	145	0	0	161	0	34,800	0	3.2	61.0
16	0	0	7	0	0	132	0	0	139	0	29,800	0	3.2	61.0
17	0	0	11	0	0	113	0	0	124	0	31,600	0	3.2	61.0
18	0	0	7	0	0	109	0	0	116	0	28,300	0	2.2	60.0
19	0	0	10	0	0	136	0	0	146	0	31,900	0	2.0	60.0
20	0	0	4	0	0	110	0	0	114	0	30,900	0	1.8	60.0
21	0	0	6	0	0	133	0	0	139	0	27,900	0	1.8	59.0
22	0	0	4	0	0	136	0	0	140	0	36,200	0	1.7	59.0
23	0	0	7	0	0	148	0	0	155	0	47,400	0	1.8	59.0
24	0	0	5	0	0	81	0	0	86	0	49,500	0	3.0	58.0
25	0	0	8	0	0	132	0	0	140	0	39,900	0	3.0	58.0
26	0	0	9	0	0	85	0	0	94	0	40,600	0	2.6	57.0
27	0	0	8	0	0	97	0	0	105	0	39,300	0	2.6	56.0
28	0	0	4	0	0	61	0	0	65	0	30,800	0	2.4	56.0
29	0	0	6	0	0	87	0	0	93	0	33,700	0	2.3	55.0
30	0	0	3	0	0	93	0	0	96	0	37,000	0	2.3	55.0
31	0	0	5	1	0	65	0	0	71	0	36,200	0	2.3	55.0
TOTALS	0	0	380	9	1	3,423	0	0	3,813	0				

TABLE 98
WATER TEMPERATURE AND STREAM FLOW DATA
LOWER MONUMENTAL - 1975

	NOVEMBER			DECEMBER		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	54	34,400	2 0	43	42,000	3 7
2	54	33,400	2 3	43	59,100	3 6
3	54	30,100	2 5	43	84,900	3 7
4	54	42,200	2 5	42		2 5
5	54	42,400	2 3	42	80,100	3 6
6	53	48,900	3 2	42	74,800	3 3
7	52	45,400	3 5	42	67,000	3 0
8	51	44,500	3.4	42	100,900	1 3
9	50	44,300	3 4	42	92,300	0 8
10	50	41,900	3 3	42	85,900	0 6
11	50	41,900	3 2	41	74,800	0 7
12	49	41,400	3 6	41	78,400	0 7
13	48	41,500	3 3	41	84,400	0 8
14	48	38,100	3 3	40	84,500	0 8
15	48	29,500	3 2	40	76,900	0 8
16	48	34,900	3 0	40	60,100	0 6
17	47	38,800	3 0	40	58,100	0 6
18	47	38,900	3 6	41	62,000	0 9
19	47	42,200	3 4	43	52,900	1 2
20	47	42,600	3 6	41	57,300	1 4
21	46	42,700	3 1	41	55,700	1 6
22	46	42,400	3 0	40		2 2
23	46	41,800	3 0	40	51,800	2 2
24	46	37,600	3 6	40	42,000	2 6
25	46	38,500	3 4	40	50,400	2 0
26	46	42,100	3 4	40	47,100	1 6
27	45	46,400	3 2	39	64,200	1 7
28	45	45,000	3 6	39	63,900	1 8
29	44	42,100	3 6	39	62,200	0 6
30	43	43,200	3 6	39	56,000	0 2
31				39		0 2

TABLE 99

PEAK DAYS OF MIGRATION

LOWER MONUMENTAL DAM - 1969-1975

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho	
Year	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish
1969	May 17	2,915	Jun 26	1,630	Sep 24	899	Sep 24	2,680	Jul 11	64	Sep 17	572
1970	May 3	4,472	Jun 16	1,054	Sep 20	512	Sep 20	3,588	Jul 15	23	Sep 13	181
1971	May 27	2,275	Jun 17	1,180	Sep 16	673	Sep 26	2,557	Jul 18	65	Sep 12	189
1972	May 3	3,531	Jul 6	1,445	Sep 19	296	Sep 30	2,936	Jul 19	28	Sep 20	53
1973	May 6	5,075	Jun 19	863	Sep 15	515	Sep 21	2,658	Jul 8	25	Sep 21	113
1974	May 20	1,252	Jun 29	579	Sep 21	171	Oct 10	354	Jul 15	18	Sep 17	40
1975	May 24	1,255	Jul 12	414	Sep 16	208	Sep 16 & 17	448	Jul 15	19	Sep 12	57
Total		20,775		7,165		3,274		15,221		242		1,205
7-Year Average		2,968		1,024		468		2,174		35		172

TABLE 100

TABLE 100

MONTHLY TOTALS OF CHINOOK COUNTED OVER LOWER MONUMENTAL DAM

1969 - 1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1969			1	67	38,702	25,289	13,832	1,776	5,069	1,619	340	5	86,700
1970	1		1	9,194	32,623	15,818	9,369	1,720	5,178	1,281	122	3	75,310
1971				358	19,340	23,842	14,492	857	8,599	1,397			68,885
1972				6,838	36,448	6,989	15,501	1,835	3,737	872			72,220
1973				27,168	31,973	11,282	4,343	678	4,273	840			80,557
1974				327	15,796	4,904	7,241	602	1,972	886			31,728
1975				704	17,421	6,648	4,884	548	2,428	380			33,013
Total	1		2	44,656	192,303	94,772	69,662	8,016	31,256	7,275	462	8	448,413
7-Year Average				6,379	27,472	13,539	9,952	1,145	4,465	1,039			64,059

TOTAL 101

MONTHLY COUNT OF STEELHEAD TROUT

LOWER MONUMENTAL DAM - 1969-1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1969		5	1,525	9,235	5,475	248	2,141	6,410	26,647	15,195	4,189	366	71,434
1970	252	1,025	1,519	3,143	2,134	232	1,989	7,947	30,701	11,194	1,615	416	62,167
1971			422	2,404	1,510	131	2,199	2,992	42,438	18,018			70,114
1972				2,182	744	86	2,336	7,184	32,417	21,908			66,857
1973				2,061	658	82	2,060	3,505	21,241	9,923			39,530
1974				1,221	256	17	1,237	2,835	4,929	4,644			15,139
1975				745	444	24	873	4,417	7,437	3,423			17,363
Total	252	1,030	3,466	20,991	11,221	820	12,825	35,290	165,810	84,305	5,802	782	342,594
7-Year Average				2,999	1,603	117	1,832	5,041	23,687	12,044			48,942

TABLE 101

TABLE 102

YEARLY TOTALS OF SALMONIDS COUNTED OVER LITTLE GOOSE DAM

1970 - 1975

Year	Chinook	Steelhead	Sockeye	Coho	Total Salmon
1970	72,971	59,640	163	2,480	135,254
1971	61,402	70,013	891	2,701	135,007
1972	64,211	63,638	408	799	129,056
1973	70,605	38,820	192	1,157	110,774
1974	26,787	14,784	124	532	42,227
1975	26,960	15,225	173	697	43,055
Total	322,936	262,120	1,951	8,366	595,373
6-Year Average	53,823	43,687	325	1,394	99,229

TABLE 102

TABLE 103

MONTHLY TOTALS OF SALMONIDS AND SHAD COUNTED OVER LITTLE GOOSE DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK	-	-	-	152	14,161	6,487	4,182	540	1,143	295	-	-	26,960
STEELHEAD	96	75	70	732	472	16	390	3,433	6,230	3,711	-	-	15,155
SOCKEYE	-	-	-	-	-	-	160	2	2	9	-	-	173
COHO	-	-	-	-	-	-	-	1	645	51	-	-	697
CHUM	-	-	-	-	-	-	-	-	-	-	-	-	0
PINK	-	-	-	-	-	-	-	-	5	7	-	-	12
TOTAL SALMONIDS	96	75	70	884	14,633	6,503	4,732	3,976	8,025	4,073	-	-	42,997
SHAD	-	-	-	-	-	-	-	-	-	-	-	-	0

TABLE 103

TABLE 104

MONTHLY FISH PASSAGE SUMMARY REPORT — LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JANUARY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	0	0	0	0	0	20,600	0		
2	0	0	0	0	0	0	0	0	0	0	34,800	0	5.0	40.0
3	0	0	0	0	0	2	0	0	2	0	35,800	0	4.8	39.0
4	0	0	0	0	0	0	0	0	0	0	29,500	0	4.9	39.0
5	0	0	0	0	0	0	0	0	0	0	38,400	0	5.0	39.0
6	0	0	0	0	0	1	0	0	1	0	32,000	0	5.0	38.0
7	0	0	0	0	0	2	0	0	2	0	42,100	0	5.0	38.0
8	0	0	0	0	0	11	0	0	11	0	36,700	0	4.7	37.0
9	0	0	0	0	0	2	0	0	2	0	41,500	0	3.2	37.0
10	0	0	0	0	0	4	0	0	4	0	39,900	0	2.2	36.0
11	0	0	0	0	0	4	0	0	4	0	37,700	0	1.6	36.0
12	0	0	0	0	0	5	0	0	5	0	36,800	0	1.6	36.0
13	0	0	0	0	0	0	0	0	0	0	41,200	0	1.6	37.0
14	0	0	0	0	0	2	0	0	2	0	34,600	0	2.3	37.0
15	0	0	0	0	0	4	0	0	4	0	40,500	0	2.0	37.0
16	0	0	0	0	0	2	0	0	2	0	44,000	0	4.2	37.0
17	0	0	0	0	0	4	0	0	4	0	40,200	0	3.8	37.0
18	0	0	0	0	0	5	0	0	5	0	35,400	0	2.4	37.0
19	0	0	0	0	0	4	0	0	4	0	44,600	0	1.8	37.0
20	0	0	0	0	0	5	0	0	5	0	44,400	0	1.1	38.0
21	0	0	0	0	0	5	0	0	5	0	42,900	0	0.9	38.0
22	0	0	0	0	0	6	0	0	6	0	37,800	0	1.0	38.0
23	0	0	0	0	0	4	0	0	4	0	34,800	0	1.1	38.0
24	0	0	0	0	0	7	0	0	7	0	41,200	0	1.0	39.0
25	0	0	0	0	0	8	0	0	8	0	40,100	0	1.0	39.0
26	0	0	0	0	0	2	0	0	2	0	43,800	0	1.9	39.0
27	0	0	0	0	0	1	0	0	1	0	44,400	0	2.5	38.0
28	0	0	0	0	0	0	0	0	0	0	49,700	0	2.7	38.0
29	0	0	0	0	0	0	0	0	0	0	46,300	0	3.0	37.0
30	0	0	0	0	0	4	0	0	4	0	45,100	0	3.2	36.0
31	0	0	0	0	0	2	0	0	2	0	42,300	0	2.8	35.0
TOTALS	0	0	0	0	0	96	0	0	96	0				

TABLE 105

0303- 1

MONTHLY FISH PASSAGE SUMMARY REPORT — LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — FEBRUARY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	1	0	0	1	0	41,600	0	2.5	36.0
2	0	0	0	0	0	4	0	0	4	0	31,800	0	2.4	36.0
3	0	0	0	0	0	2	0	0	2	0	44,700	0	2.7	35.0
4	0	0	0	0	0	2	0	0	2	0	38,800	0	2.7	35.0
5	0	0	0	0	0	2	0	0	2	0	41,200	0	2.9	35.0
6	0	0	0	0	0	0	0	0	0	0	43,500	0	2.8	34.0
7	0	0	0	0	0	0	0	0	0	0	42,700	0	3.6	34.0
8	0	0	0	0	0	0	0	0	0	0	44,600	0	3.6	34.0
9	0	0	0	0	0	1	0	0	1	0	42,500	0	4.3	34.0
10	0	0	0	0	0	4	0	0	4	0	39,200	0	4.6	34.0
11	0	0	0	0	0	0	0	0	0	0	43,400	0	4.6	34.0
12	0	0	0	0	0	4	0	0	4	0	43,400	0	4.6	35.0
13	0	0	0	0	0	1	0	0	1	0	47,300	0	4.4	35.0
14	0	0	0	0	0	0	0	0	0	0	31,100	0	1.5	35.0
15	0	0	0	0	0	1	0	0	1	0	13,100	0	1.4	35.0
16	0	0	0	0	0	0	0	0	0	0	18,100	0	1.5	35.0
17	0	0	0	0	0	0	0	0	0	0	30,200	0	1.4	35.0
18	0	0	0	0	0	1	0	0	1	0	36,500	0	1.5	36.0
19	0	0	0	0	0	1	0	0	1	0	46,400	0	1.3	36.0
20	0	0	0	0	0	2	0	0	2	0	50,100	0	1.4	37.0
21	0	0	0	0	0	2	0	0	2	0	73,100	7,400	2.3	37.0
22	0	0	0	0	0	12	0	0	12	0	65,600	0	1.9	37.0
23	0	0	0	0	0	5	0	0	5	0	62,700	0	1.2	37.0
24	0	0	0	0	0	18	0	0	18	0	54,800	0	2.1	38.0
25	0	0	0	0	0	2	0	0	2	0	51,900	0	2.1	38.0
26	0	0	0	0	0	4	0	0	4	0	52,400	0	2.7	39.0
27	0	0	0	0	0	2	0	0	2	0	58,200	0	3.6	39.0
28	0	0	0	0	0	4	0	0	4	0	57,600	0	2.9	39.0
TOTALS	0	0	0	0	0	75	0	0	75	0				

TABLE 106

MONTHLY FISH PASSAGE SUMMARY REPORT — LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MARCH 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	1	0	0	1	0	43,600	0	2.9	39.0
2	0	0	0	0	0	1	0	0	1	0	45,900	0	3.1	39.0
3	0	0	0	0	0	2	0	0	2	0	69,100	4,200	3.2	39.0
4	0	0	0	0	0	1	0	0	1	0	66,100	800	3.5	40.0
5	0	0	0	0	0	1	0	0	1	0	63,900	2,000	3.5	40.0
6	0	0	0	0	0	0	0	0	0	0	65,000	3,900	3.5	40.0
7	0	0	0	0	0	1	0	0	1	0	64,500	0	4.5	40.0
8	0	0	0	0	0	1	0	0	1	0	70,000	4,800	4.6	40.0
9	0	0	0	0	0	2	0	0	2	0	84,500	18,800	3.4	41.0
10	0	0	0	0	0	6	0	0	6	0	84,300	18,700	1.2	41.0
11	0	0	0	0	0	7	0	0	7	0	76,300	11,000	1.2	41.0
12	0	0	0	0	0	2	0	0	2	0	81,600	15,700	2.1	41.0
13	0	0	0	0	0	1	0	0	1	0	76,600	11,100	2.5	41.0
14	0	0	0	0	0	1	0	0	1	0	75,900	10,100	2.9	42.0
15	0	0	0	0	0	5	0	0	5	0	68,200	2,100	2.0	42.0
16	0	0	0	0	0	6	0	0	6	0	65,800	0	1.5	42.0
17	0	0	0	0	0	6	0	0	6	0	71,100	5,500	1.6	42.0
18	0	0	0	0	0	1	0	0	1	0	61,400	0	2.4	42.0
19	0	0	0	0	0	1	0	0	1	0	57,600	0	2.5	42.0
20	0	0	0	0	0	0	0	0	0	0	56,400	0	2.6	42.0
21	0	0	0	0	0	2	0	0	2	0	63,000	3,600	2.1	42.0
22	0	0	0	0	0	6	0	0	6	0	78,100	12,800	1.4	42.0
23	0	0	0	0	0	4	0	0	4	0	68,400	2,400	1.9	42.0
24	0	0	0	0	0	12	0	0	12	0	63,100	0	2.4	42.0
TOTALS	0	0	0	0	0	70	0	0	70	0				

TABLE 107

0611-4

MONTHLY FISH PASSAGE SUMMARY REPORT — LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	34	0	0	34	0	48,900	0	2.3	43.0
2	0	0	0	0	0	14	0	0	14	0	50,500	0	2.3	44.0
3	0	0	0	0	0	21	0	0	21	0	47,000	0	2.1	44.0
4	0	0	0	0	0	15	0	0	15	0	51,400	0	2.2	44.0
5	0	0	0	0	0	7	0	0	7	0	56,500	0	2.2	44.0
6	0	0	0	0	0	3	0	0	3	0	59,200	0	2.2	44.0
7	0	0	0	0	0	8	0	0	8	0	58,400	14,300	2.4	44.0
8	0	0	0	0	0	11	0	0	11	0	64,600	20,900	2.3	44.0
9	0	0	0	0	0	13	0	0	13	0	58,100	14,800	2.4	44.0
10	0	0	0	0	0	20	0	0	20	0	62,700	20,900	4.0	44.0
11	0	0	0	0	0	30	0	0	30	0	67,200	26,100	2.3	44.0
12	0	0	0	0	0	48	0	0	48	0	65,200	13,400	2.3	44.0
13	0	0	0	0	0	43	0	0	43	0	66,200	1,900	2.3	45.0
14	0	0	0	0	0	30	0	0	30	0	74,400	13,100	2.4	45.0
15	0	0	0	0	0	17	0	0	17	0	83,100	22,500	2.2	45.0
16	0	0	0	0	0	12	0	0	12	0	88,200	23,400	1.0	45.0
17	0	0	0	0	0	20	0	0	20	0	88,800	22,900	1.9	45.0
18	0	0	0	0	0	35	0	0	35	0	88,400	21,800	1.9	45.0
19	0	0	0	0	0	36	0	0	36	0	84,300	18,400	1.9	46.0
20	1	0	0	0	0	30	0	0	31	0	81,900	17,400	2.0	47.0
21	1	0	0	0	0	16	0	0	17	0	84,500	19,300	1.8	47.0
22	1	0	0	0	0	24	0	0	25	0	93,600	28,500	1.7	47.0
23	0	0	0	0	0	19	0	0	19	0	103,200	37,000	1.9	47.0
24	4	0	0	0	0	17	0	0	21	0	110,600	45,700	2.1	47.0
25	1	0	0	0	0	27	0	0	28	0	102,700	38,800	1.6	47.0
26	1	0	0	0	0	25	0	0	26	0	103,400	37,500	1.8	47.0
27	14	0	0	0	0	37	0	0	51	0	112,700	46,800	1.7	48.0
28	24	0	0	0	0	38	0	0	62	0	104,600	38,900	1.5	48.0
29	40	0	0	0	0	55	0	0	95	0	101,400	35,600	1.4	48.0
30	65	0	0	0	0	27	0	0	92	0	86,000	20,000	1.3	49.0
TOTALS	152	0	0	0	0	732	0	0	884	0				

MONTHLY FISH PASSAGE SUMMARY REPORT — LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	57	0	0	0	0	54	0	0	111	0	98,900	33,800	1.4	49.0
2	76	0	0	0	0	22	0	0	98	0	98,600	32,600	1.2	49.0
3	199	0	0	0	0	31	0	0	230	0	100,500	34,700	1.2	49.0
4	184	0	0	0	0	27	0	0	211	0	110,900	45,200	1.0	49.0
5	170	0	0	0	0	22	0	0	192	0	101,300	37,700	0.9	50.0
6	108	0	0	0	0	24	0	0	132	0	98,000	32,800	0.9	50.0
7	186	0	0	0	0	28	0	0	214	0	84,200	19,300	1.0	51.0
8	296	0	0	0	0	37	0	0	333	0	92,900	27,600	1.0	51.0
9	162	0	0	0	0	15	0	0	177	0	92,600	27,400	1.3	51.0
10	265	0	0	0	0	16	0	0	281	0	92,300	26,600	1.4	51.0
11	498	0	0	0	0	17	0	0	515	0	127,700	62,200	1.4	51.0
12	704	0	0	0	0	15	0	0	719	0	137,000	74,600	1.6	51.0
13	844	0	0	0	0	15	0	0	859	0	134,600	74,300	1.3	51.0
14	573	0	0	0	0	21	0	0	594	0	135,400	74,400	1.2	51.0
15	344	0	0	0	0	8	0	0	352	0	152,600	91,200	1.2	52.0
16	295	0	0	0	0	12	0	0	307	0	179,000	114,100	1.2	52.0
17	597	0	0	0	0	12	0	0	609	0	184,000	120,400	1.2	52.0
18	310	0	0	0	0	5	0	0	315	0	171,400	107,200	1.1	52.0
19	169	0	0	0	0	7	0	0	176	0	166,900	102,700	1.1	52.0
20	148	0	0	0	0	10	0	0	158	0	167,300	103,500	1.1	52.0
21	520	0	0	0	0	6	0	0	526	0	141,000	77,300	1.2	51.0
22	509	0	0	0	0	12	0	0	521	0	132,900	68,800	1.1	51.0
23	563	0	0	0	0	6	0	0	569	0	118,000	53,700	1.6	51.0
24	950	0	0	0	0	12	0	0	962	0	132,800	68,300	1.6	51.0
25	942	0	0	0	0	11	0	0	953	0	126,400	61,500	1.7	51.0
26	1,027	0	0	0	0	10	0	0	1,037	0	120,300	55,600	1.7	51.0
27	732	0	0	0	0	10	0	0	742	0	108,700	45,000	1.9	51.0
28	694	0	0	0	0	2	0	0	696	0	113,000	45,600	1.9	52.0
29	851	0	0	0	0	0	0	0	851	0	108,500	44,000	2.5	53.0
30	313	0	0	0	0	3	0	0	316	0	133,700	71,800	1.9	53.0
31	875	0	0	0	0	2	0	0	877	0	131,700	67,400	2.3	54.0
TOTALS	14,161	0	0	0	0	472	0	0	14,633	0				

MONTHLY FISH PASSAGE SUMMARY REPORT LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONIC	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	537	0	0	0	0	8	0	0	545	0	144,200	80,700	2.1	54.0
2	719	0	0	0	0	0	0	0	719	0	156,900	92,600	2.2	55.0
3	481	0	0	0	0	1	0	0	482	0	175,700	109,100	1.9	55.0
4	417	0	0	0	0	0	0	0	417	0	175,900	109,400	1.9	55.0
5	257	0	0	0	0	3	0	0	260	0	168,300	103,200	2.1	54.0
6	204	0	0	0	0	1	0	0	205	0	173,500	106,400	2.1	52.0
7	180	0	0	0	0	1	0	0	181	0	183,600	116,900	2.0	52.0
8	141	0	0	0	0	0	0	0	141	0	188,100	120,000	1.8	52.0
9	192	0	0	0	0	0	0	0	192	0	170,500	105,300	1.5	52.0
10	152	0	0	0	0	0	0	0	152	0	163,300	96,500	1.5	52.0
11	174	0	0	0	0	0	0	0	174	0	152,800	88,200	1.4	52.0
12	166	0	0	0	0	0	0	0	166	0	152,700	85,100	1.0	53.0
13	70	0	0	0	0	0	0	0	70	0	165,300	98,200	0.9	53.0
14	240	0	0	0	0	0	0	0	240	0	158,900	91,700	0.9	54.0
15	183	0	0	0	0	0	0	0	183	0	160,000	92,300	0.9	54.0
16	0	138	0	0	0	0	0	0	138	0	169,400	102,900	1.1	55.0
17	0	167	0	0	0	0	0	0	167	0	157,300	91,400	1.5	55.0
18	0	263	0	0	0	0	0	0	263	0	144,900	78,500	1.3	55.0
19	0	197	0	0	0	0	0	0	197	0	145,300	79,500	1.4	55.0
20	0	191	0	0	0	0	0	0	191	0	161,100	95,200	0.9	54.0
21	0	94	0	0	0	1	0	0	95	0	159,300	93,900	1.0	54.0
22	0	87	0	0	0	0	0	0	87	0	148,900	82,700	1.0	54.0
23	0	76	0	0	0	0	0	0	76	0	151,600	86,100	0.9	53.0
24	0	160	0	0	0	0	0	0	160	0	156,700	91,100	0.8	53.0
25	0	168	0	0	0	1	0	0	169	0	171,100	105,100	0.9	53.0
26	0	55	0	0	0	0	0	0	55	0	172,300	106,600	1.2	53.0
27	0	101	0	0	0	0	0	0	101	0	159,400	93,500	1.4	54.0
28	0	198	0	0	0	0	0	0	198	0	150,300	84,000	1.4	55.0
29	0	287	0	0	0	0	0	0	287	0	138,400	72,600	1.6	54.0
30	0	192	0	0	0	0	0	0	192	0	124,800	59,100	1.7	53.0
TOTALS	4,113	2,374	0	0	0	16	0	0	6,503	0				

TABLE 110

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT

JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	139	0	0	0	0	0	0	139	0	116,700	51,200	1.9	53.0
2	0	31	0	0	0	0	0	0	31	0	110,500	54,800	2.2	53.0
3	0	302	0	0	1	0	0	0	303	0	125,600	61,100	2.3	55.0
4	0	344	0	0	4	0	0	0	348	0	136,300	70,600	2.9	56.0
5	0	237	0	0	0	0	0	0	237	0	133,900	68,100	2.9	58.0
6	0	252	0	0	0	1	0	0	253	0	132,500	66,600	2.9	60.0
7	0	213	0	0	4	0	0	0	217	0	128,600	65,200	2.7	61.0
8	0	292	0	0	6	0	0	0	298	0	132,800	67,300	2.8	62.0
9	0	375	0	0	5	6	0	0	386	0	120,300	55,200	2.8	62.0
10	0	239	0	0	1	1	0	0	241	0	114,800	49,000	2.8	62.0
11	0	110	0	0	3	0	0	0	113	0	102,800	37,500	2.0	63.0
12	0	97	0	0	4	2	0	0	103	0	94,600	32,200	2.0	64.0
13	0	68	0	0	3	0	0	0	71	0	85,400	19,600	2.1	66.0
14	0	203	0	0	8	4	0	0	215	0	97,200	31,700	2.1	66.0
15	0	268	0	0	36	4	0	0	308	0	77,800	12,600	2.2	66.0
16	0	265	0	0	15	1	0	0	281	0	90,200	24,900	2.3	66.0
17	0	122	0	0	26	7	0	0	155	0	68,400	3,500	2.5	66.0
18	0	30	0	0	2	5	0	0	37	0	65,500	0	2.4	66.0
19	0	24	0	0	8	6	0	0	38	0	61,700	1,700	2.4	66.0
20	0	24	0	0	4	9	0	0	37	0	52,300	700	2.3	66.0
21	0	18	0	0	1	8	0	0	27	0	56,700	0	2.3	66.0
22	0	22	0	0	5	9	0	0	36	0	55,600	0	2.2	66.0
23	0	49	0	0	8	11	0	0	68	0	45,900	0	2.1	66.0
24	0	17	0	0	1	9	0	0	27	0	46,600	0	2.4	68.0
25	0	15	0	0	6	20	0	0	41	0	47,600	0	2.8	69.0
26	0	36	0	0	1	18	0	0	55	0	41,300	0	2.5	69.0
27	0	29	0	0	1	25	0	0	55	0	23,200	0	3.3	69.0
28	0	11	0	0	0	16	0	0	27	0	44,200	0	70.0	70.0
29	0	31	0	0	3	47	0	0	81	0	39,700	0	3.6	70.0
30	0	187	0	0	2	95	0	0	284	0	41,800	0	3.6	69.0
31	0	132	0	0	2	86	0	0	220	0	32,900	0	3.6	69.0
TOTALS	0	4,182	0	0	160	390	0	0	4,732	0				

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

LITTLE GOOSE PROJECT

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	27	0	0	1	69	0	0	97	0	37,100	0	3.6	69.0
2	0	32	0	0	0	101	0	0	133	0	32,300	0	4.1	69.0
3	0	46	0	0	0	86	0	0	132	0	26,100	0	4.1	69.0
4	0	56	0	0	1	59	0	0	116	0	36,100	0	4.5	69.0
5	0	44	0	0	0	101	0	0	145	0	31,700	0	4.7	69.0
6	0	32	0	0	0	171	0	0	203	0	31,200	0	4.8	69.0
7	0	18	0	0	0	63	0	0	81	0	24,600	0	4.8	69.0
8	0	48	0	0	0	257	0	0	305	0	36,900	0	3.0	69.0
9	0	28	0	0	0	135	0	0	162	0	23,400	0	3.1	70.0
10	0	9	0	0	0	45	0	0	54	0	17,600	0	3.1	70.0
11	0	10	0	0	0	84	0	0	94	0	32,200	0	3.1	70.0
12	0	11	0	0	0	106	0	0	117	0	28,200	0	3.4	70.0
13	0	2	0	0	0	68	0	0	70	0	31,600	0	3.3	70.0
14	0	5	0	0	0	60	0	0	65	0	24,000	0	3.6	70.0
15	0	5	0	0	0	12	0	0	17	0	35,400	0	4.2	70.0
16	0	0	4	0	0	203	0	0	207	0	31,600	0	4.9	70.0
17	0	0	18	0	0	162	0	0	180	0	16,300	0	4.9	70.0
18	0	0	12	0	0	178	0	0	190	0	28,100	0	4.8	70.0
19	0	0	33	0	0	228	0	0	261	0	16,000	0	4.8	70.0
20	0	0	13	0	0	218	0	0	231	0	26,500	0	3.7	70.0
21	0	0	9	0	0	236	0	0	245	0	32,800	0	4.3	70.0
22	0	0	6	0	0	60	0	0	66	0	33,300	0	4.2	70.0
23	0	0	7	0	0	50	0	0	57	0	32,000	0	4.1	70.0
24	0	0	12	0	0	48	0	0	60	0	30,800	0	4.1	70.0
25	0	0	4	0	0	44	0	0	48	0	50,500	800	2.9	70.0
26	0	0	9	0	0	131	0	0	140	0	48,000	0	2.7	70.0
27	0	0	2	0	0	62	0	0	64	0	43,600	0	2.9	69.0
28	0	0	11	0	0	64	0	0	75	0	42,200	0	2.9	69.0
29	0	0	8	0	0	117	0	0	125	0	40,400	0	2.1	69.0
30	0	0	10	0	0	83	0	0	93	0	37,900	0	2.0	69.0
31	0	0	9	1	0	132	0	0	142	0	23,000	0	2.0	68.0
TOTALS	0	373	167	1	2	3,433	0	0	3,976	0				

TABLE 112

MONTHLY FISH PASSAGE SUMMARY REPORT — LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	21	0	0	157	0	0	178	0	20,300	0	2.0	68.0
2	0	0	6	2	0	30	0	0	38	0	34,500	0	2.0	68.0
3	0	0	5	2	0	100	0	0	107	0	42,100	0	2.0	68.0
4	0	0	1	4	0	56	0	0	61	0	38,100	0	2.4	67.0
5	0	0	8	11	0	122	0	0	141	0	35,900	0	2.8	67.0
6	0	0	4	15	0	122	0	0	141	0	40,700	0	2.8	66.0
7	0	0	9	14	0	221	0	0	244	0	33,600	0	3.0	66.0
8	0	0	3	38	0	241	0	0	282	0	31,700	0	3.4	66.0
9	0	0	45	37	0	220	0	0	302	0	28,500	0	4.0	66.0
10	0	0	18	17	0	116	0	0	151	0	35,200	0	5.0	67.0
11	0	0	19	17	0	255	0	0	291	0	37,600	0	5.0	67.0
12	0	0	10	34	0	254	0	0	298	0	39,200	0	5.0	68.0
13	0	0	9	24	0	146	0	0	179	0	38,800	0	5.0	68.0
14	0	0	9	18	0	145	0	0	172	0	35,100	0	5.1	68.0
15	0	0	47	33	0	256	0	0	336	0	36,500	0	5.1	67.0
16	0	0	96	44	0	354	0	0	494	0	36,700	0	5.0	68.0
17	0	0	97	49	0	413	0	0	559	0	38,000	0	5.1	67.0
18	0	0	105	38	0	223	0	0	366	0	37,600	0	5.0	67.0
19	0	0	12	10	0	147	0	0	169	0	42,600	0	5.0	67.0
20	0	0	88	48	0	538	0	0	674	0	39,700	0	5.0	68.0
21	0	0	104	44	0	316	0	0	464	0	39,100	0	5.0	68.0
22	0	0	165	18	0	487	0	0	670	0	34,500	0	5.0	67.0
23	0	0	41	33	0	156	0	0	230	0	37,000	0	5.0	67.0
24	0	0	95	34	0	292	0	2	423	0	33,200	0	4.9	66.0
25	0	0	55	17	0	232	0	0	304	0	30,000	0	5.0	66.0
26	0	0	39	14	0	144	0	0	197	0	33,800	0	4.8	66.0
27	0	0	9	10	2	97	0	0	118	0	31,100	0	4.0	66.0
28	0	0	11	4	0	136	0	3	154	0	31,900	0	4.2	66.0
29	0	0	3	7	0	81	0	0	91	0	40,300	0	3.6	66.0
30	0	0	9	9	0	173	0	0	191	0	32,700	0	5.0	66.0
TOTALS	0	0	1,143	645	2	6,230	0	5	8,025	0				

MONTHLY FISH PASSAGE SUMMARY REPORT — LITTLE GOOSE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	24	7	0	238	0	1	270	0	30,600	0	5.0	65.0
2	0	0	10	2	0	189	0	0	201	0	34,200	0	5.0	65.0
3	0	0	47	3	0	238	0	2	290	0	29,400	0	5.0	65.0
4	0	0	36	6	4	302	0	1	349	0	34,400	0	5.0	64.0
5	0	0	12	0	1	112	0	0	125	0	24,400	0	5.0	64.0
6	0	0	2	1	0	18	0	0	21	0	22,700	0	4.9	64.0
7	0	0	1	2	0	77	0	1	81	0	31,500	0	5.0	64.0
8	0	0	16	3	1	116	0	0	136	0	34,700	0	5.0	64.0
9	0	0	26	2	0	161	0	0	189	0	39,000	0	4.8	63.0
10	0	0	7	0	0	217	0	0	224	0	43,500	0	4.4	62.0
11	0	0	7	2	0	151	0	0	160	0	33,700	0	4.4	62.0
12	0	0	2	1	0	92	0	2	97	0	31,100	0	4.3	61.0
13	0	0	1	0	0	46	0	0	47	0	36,000	0	4.1	61.0
14	0	0	11	0	2	139	0	0	152	0	31,200	0	4.2	60.0
15	0	0	6	0	1	97	0	0	104	0	34,800	0	4.0	60.0
16	0	0	6	3	0	36	0	0	45	0	32,200	0	3.9	60.0
17	0	0	5	2	0	53	0	0	60	0	34,500	0	4.5	60.0
18	0	0	10	1	0	144	0	0	155	0	32,000	0	4.3	60.0
19	0	0	10	0	0	97	0	0	107	0	33,700	0	4.0	60.0
20	0	0	3	0	0	32	0	0	35	0	28,100	0	4.4	59.0
21	0	0	10	0	0	105	0	0	115	0	29,100	0	4.4	59.0
22	0	0	7	1	0	226	0	0	234	0	38,400	3,000	4.2	59.0
23	0	0	9	5	0	219	0	0	233	0	51,200	0	4.2	58.0
24	0	0	11	3	0	159	0	0	173	0	57,000	0	3.7	57.0
25	0	0	7	2	0	80	0	0	89	0	41,300	0	3.8	56.0
26	0	0	4	1	0	70	0	0	75	0	41,000	0	4.4	55.0
27	0	0	2	0	0	69	0	0	71	0	41,700	0	4.3	55.0
28	0	0	0	2	0	43	0	0	45	0	33,800	0	4.3	55.0
29	0	0	1	0	0	48	0	0	49	0	36,400	0	4.4	54.0
30	0	0	0	0	0	44	0	0	44	0	37,200	0	4.5	54.0
31	0	0	2	2	0	93	0	0	97	0	38,100	0	4.4	54.0
TOTALS	0	0	295	51	9	3,711	0	7	4,073	0				

TABLE 114
WATER TEMPERATURE AND STREAM FLOW DATA
LITTLE GOOSE - 1975

	NOVEMBER			DECEMBER		
DATE	WATER TEMP	DISCHARGE	TURBIDITY	WATER TEMP	DISCHARGE	TURBIDITY
1	53	34,700	4 3	42	43,500	4 5
2	53	37,500	4 3	41	61,100	5 0
3	52	33,000	4 3	41	85,200	5 0
4	52	44,400	4 3	41	79,800	3 5
5	52	44,900	4 3	42	82,400	3 5
6	52	50,000	4 4	42	79,400	3 5
7	51	49,200	4 4	41	74,100	1 8
8	51	46,500	4 0	41	101,700	1 8
9	50	46,600	4 0	41	94,900	1 2
10	49	43,400	4 6	41	84,700	1 8
11	48	45,000	4 8	41	82,300	1 8
12	47	43,900	4 8	40	82,200	2 2
13	47	42,600	4 7	40	91,800	1 6
14	47	40,100	4 8	40	87,900	1 8
15	47	30,700	4 8	40	80,800	1 8
16	47	37,800	4 7	40	66,000	1 8
17	47	36,300	4 8	40	61,700	1 8
18	46	44,800	4 8	40	60,000	2 0
19	46	43,200	4 8	40	50,600	2 0
20	46	43,400	4 8	40	62,800	3 2
21	46	44,500	5 0	40	58,100	4 1
22	45	44,500	5 0	39	52,200	4 8
23	44	41,200	5 0	39	52,200	4 0
24	44	39,900	4 7	39	46,400	5 4
25	44	42,800	5 0	39	55,700	4 6
26	44	46,500	4 3	39	51,100	4 2
27	44	47,300	4 3	38	62,800	4 5
28	43	48,100	3 9	38	64,500	2 4
29	42	44,600	4 1	38	63,600	2 4
30	42	46,000	4 0	38	55,700	1 7
31				38	51,400	1 0

TABLE 115

PEAK DAYS OF MIGRATION

LITTLE GOOSE DAM - 1970-1975

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho	
Year	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish
1970	May 4	3,464	Jun 28	938	Sep 19	622	Sep 22	2,424	Jul 25	36	Sep 19	146
1971	May 28	1,941	Jun 18	1,160	Sep 17	539	Sep 27	2,515	Jul 14	64	Sep 14	238
1972	May 14	4,309	Jul 7	1,318	Sep 20	148	Oct 3	3,655	Jul 16	22	Sep 20	63
1973	May 1	3,415	Jun 24	1,616	Sep 17	409	Sep 24	1,406	Jul 11	14	Sep 15	111
1974	May 20	1,310	Jul 11	842	Sep 21	160	Oct 5	408	Jul 17	12	Sep 29	43
1975	May 26	1,027	Jul 14	344	Sep 22	165	Sep 20	538	Jul 15	36	Sep 17	49
Total		15,466		6,218		2,043		10,946		184		650
6-Year Average		2,578		1,036		341		1,824		31		108

TABLE 116

MONTHLY TOTALS OF CHINOOK COUNTED OVER LITTLE GOOSE DAM

1970 - 1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1970				6,765	32,616	15,204	11,200	1,529	4,508	965	178	6	72,971
1971				133	16,012	24,096	14,473	707	5,319	606	55	1	61,402
1972				2,226	37,991	5,585	14,747	1,614	1,445	576	27		64,211
1973				17,490	34,570	10,661	4,344	520	2,472	528	19	1	70,605
1974				136	14,224	4,451	6,213	556	749	449	9		26,787
1975				152	14,161	6,487	4,182	540	1,143	295			26,960
Total				26,902	149,574	66,484	55,159	5,466	15,636	3,419	288	8	322,936
6-Year Average				4,484	24,929	11,081	9,193	911	2,606	570			53,82[illegible]

TABLE 117

MONTHLY COUNT OF STEELHEAD TROUT OVER LITTLE GOOSE DAM

1970 -1975

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1970			3,346	4,148	1,762	167	1,485	7,487	27,898	11,931	1,136	280	59,640
1971			586	1,968	1,319	85	1,286	3,337	38,988	19,674	2,161	609	70,013
1972	248	251	943	2,565	720	54	1,209	6,637	25,089	24,323	1,258	341	63,638
1973	133	80	1,039	2,051	829	65	1,249	2,856	16,650	12,420	1,129	319	38,820
1974	191	294	543	1,105	278	5	726	2,203	3,970	4,721	583	165	14,784
1975	96	75	70	732	472	16	390	3,433	6,230	3,711			15,225
Total	668	700	6,527	12,569	5,380	392	6,345	25,953	118,825	76,780	6,267	1,714	262,120
6-Year Average	111	117	1,088	2 095	897	65	1,058	4,326	19,804	12,797			43,681

TABLE 118

YEARLY TOTALS OF SALMONIDS COUNTED OVER LOWER GRANITE DAM

1975 -

Year	Chinook	Steelhead	Sockeye	Coho	Total Salmon
1975	28,460	17,311	209	921	46,901

TABLE 119

MONTHLY TOTALS OF SALMONIDS COUNTED OVER LOWER GRANITE DAM

1975

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CHINOOK				1	11,693	8,722	4,854	1,183	1,462	474	71		28,460
STEELHEAD				1,724	1,065	104	102	3,337	6,396	3,584	703	296	17,311
SOCKEYE							190	11	2	6			209
COHO							3	1	794	118	5		921
TOTAL				1,725	12,758	8,826	5,149	4,532	8,654	4,182	779	296	46,901
SHAD							1						1

TABLE 120

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MARCH 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
19	0	0	0	0	0	44	0	0	44	0	53,400	53,300		42.0
20	0	0	0	0	0	59	0	0	59	0	60,400	60,300		42.0
21	0	0	0	0	0	24	0	0	24	0	65,400	65,300		42.0
22	0	0	0	0	0	48	0	0	48	0	68,770	68,670		42.0
23	0	0	0	0	0	77	0	0	77	0	68,000	67,500		42.0
24	0	0	0	0	0	41	0	0	41	0	60,900	60,800		42.0
25	0	0	0	0	0	18	0	0	18	0	56,500	55,500		42.0
26	0	0	0	0	0	55	0	0	55	0	54,700	54,600		42.0
27	0	0	0	0	0	20	0	0	20	0	64,700	64,600		42.0
28	0	0	0	0	0	45	0	0	45	0	66,100	66,000		43.0
29	0	0	0	0	0	28	0	0	28	0	64,100	64,000		43.0
30	0	0	0	0	0	16	0	0	16	0	61,600	61,500		43.0
31	0	0	0	0	0	0	0	0	0	0	59,100	59,000		43.0
TOTALS	0	0	0	0	0	475	0	0	475	0				

TABLE 121

0611- 6

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — APRIL 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SEECHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	9	0	0	9	0	48,500	48,400		43.0
2	0	0	0	0	0	21	0	0	21	0	53,200	53,100		44.0
3	0	0	0	0	0	38	0	0	38	0	55,000	46,600		44.0
4	0	0	0	0	0	23	0	0	23	0	53,500	52,000		44.0
5	0	0	0	0	0	49	0	0	49	0	55,600	54,000		44.0
6	0	0	0	0	0	112	0	0	112	0	58,900	58,800		44.0
7	0	0	0	0	0	79	0	0	79	0	62,600	60,000		44.0
8	0	0	0	0	0	40	0	0	40	0	60,600	60,500		44.0
9	0	0	0	0	0	28	0	0	28	0	59,800	59,700		44.0
10	0	0	0	0	0	93	0	0	93	0	60,200	51,500		44.0
11	0	0	0	0	0	92	0	0	92	0	61,100	42,300		44.0
12	0	0	0	0	0	86	0	0	86	0	65,500	47,100		44.0
13	0	0	0	0	0	137	0	0	137	0	72,600	54,100		44.0
14	0	0	0	0	0	72	0	0	72	0	72,800	61,200		45.0
15	0	0	0	0	0	51	0	0	51	0	77,800	64,800		45.0
16	0	0	0	0	0	98	0	0	98	0	80,400	64,100		45.0
17	0	0	0	0	0	88	0	0	88	0	86,900	65,400		45.0
18	0	0	0	0	0	61	0	0	61	0	86,500	64,600		45.0
19	0	0	0	0	0	68	0	0	68	0	80,800	65,000		46.0
20	0	0	0	0	0	53	0	0	53	0	80,500	62,600		47.0
21	0	0	0	0	0	51	0	0	51	0	82,200	60,600		47.0
22	0	0	0	0	0	42	0	0	42	0	90,700	73,800		47.0
23	0	0	0	0	0	39	0	0	39	0	100,000	78,700		47.0
24	0	0	0	0	0	62	0	0	62	0	108,400	88,100		47.0
25	0	0	0	0	0	40	0	0	40	0	96,000	79,900		47.0
26	0	0	0	0	0	30	0	0	30	0	96,100	79,400		47.0
27	0	0	0	0	0	58	0	0	58	0	105,800	88,500		48.0
28	0	0	0	0	0	30	0	0	30	0	100,800	82,400		48.0
29	0	0	0	0	0	42	0	0	42	0	96,600	75,300		48.0
30	1	0	0	0	0	32	0	0	33	0	69,600	53,700		49.0
TOTALS	1	0	0	0	0	1,724	0	0	1,725	0				

TABLE 122

TABLE 122

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — MAY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	2	0	0	0	0	54	0	0	56	0	106,500	83,700	1.4	49.0
2	9	0	0	0	0	107	0	0	116	0	90,400	66,700	1.2	50.0
3	8	0	0	0	0	31	0	0	39	0	96,300	71,100	1.2	49.0
4	31	0	0	0	0	39	0	0	70	0	104,800	79,600	1.0	49.0
5	100	0	0	0	0	60	0	0	160	0	95,100	72,300	0.9	50.0
6	32	0	0	0	0	57	0	0	89	0	90,500	69,200	0.9	50.0
7	36	0	0	0	0	19	0	0	55	0	82,500	60,500	1.0	51.0
8	7	0	0	0	0	20	0	0	27	0	93,500	68,300	1.0	50.0
9	4	0	0	0	0	28	0	0	32	0	87,900	78,700	1.3	45.0
10	20	0	0	0	0	36	0	0	56	0	85,800	68,500	1.4	50.0
11	178	0	0	0	0	39	0	0	217	0	122,000	100,400	1.4	51.0
12	304	0	0	0	0	56	0	0	360	0	129,400	111,400	1.6	51.0
13	109	0	0	0	0	53	0	0	162	0	128,300	110,100	1.3	51.0
14	147	0	0	0	0	28	0	0	175	0	130,300	110,000	1.2	51.0
15	355	0	0	0	0	47	0	0	402	0	148,500	119,000	1.2	52.0
16	576	0	0	0	0	63	0	0	639	0	167,800	140,000	1.2	52.0
17	279	0	0	0	0	39	0	0	318	0	168,000	145,100	1.2	52.0
18	520	0	0	0	0	48	0	0	568	0	164,400	141,800	1.1	52.0
19	771	0	0	0	0	32	0	0	803	0	160,900	131,700	1.1	52.0
20	266	0	0	0	0	13	0	0	279	0	152,900	114,800	1.1	52.0
21	269	0	0	0	0	20	0	0	289	0	137,700	102,600	1.2	51.0
22	173	0	0	0	0	25	0	0	198	0	131,400	96,500	1.1	51.0
23	352	0	0	0	0	18	0	0	370	0	116,500	73,500	1.6	51.0
24	309	0	0	0	0	25	0	0	334	0	126,800	83,500	1.6	51.0
25	497	0	0	0	0	19	0	0	516	0	123,000	79,800	1.7	51.0
26	1,378	0	0	0	0	31	0	0	1,409	0	114,400	71,300	1.7	51.0
27	1,894	0	0	0	0	20	0	0	1,914	0	106,100	63,000	1.9	51.0
28	953	0	0	0	0	16	0	0	969	0	111,700	68,900	1.9	52.0
29	555	0	0	0	0	8	0	0	563	0	104,500	67,600	2.5	53.0
30	555	0	0	0	0	12	0	0	567	0	126,300	83,800	1.8	53.0
31	1,004	0	0	0	0	2	0	0	1,006	0	130,300	86,900	2.3	54.0
TOTALS	11,693	0	0	0	0	1,065	0	0	12,758	0				

MONTHLY FISH PASSAGE SUMMARY REPORT LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND JUNE 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	135	0	0	0	0	0	0	0	135	0	138,400	94,700	2.1	54.0
2	541	0	0	0	0	11	0	0	552	0	152,200	108,600	1.8	55.0
3	975	0	0	0	0	6	0	0	981	0	170,400	127,400	2.0	55.0
4	344	0	0	0	0	5	0	0	349	0	168,900	124,100	1.5	55.0
5	304	0	0	0	0	5	0	0	309	0	159,500	115,100	1.3	53.0
6	367	0	0	0	0	1	0	0	368	0	166,900	122,800	1.3	52.0
7	1,083	0	0	0	0	1	0	0	1,084	0	175,100	131,400	1.6	52.0
8	523	0	0	0	0	1	0	0	524	0	178,300	134,000	1.4	52.0
9	207	0	0	0	0	1	0	0	208	0	164,900	121,000	1.1	52.0
10	162	0	0	0	0	1	0	0	163	0	156,400	112,500	1.0	52.0
11	152	0	0	0	0	1	0	0	153	0	145,600	101,700	0.6	52.0
12	82	0	0	0	0	0	0	0	82	0	148,000	104,400	0.5	53.0
13	73	0	0	0	0	0	0	0	73	0	155,900	112,000	1.4	53.0
14	282	0	0	0	0	0	0	0	282	0	153,300	108,900	0.5	54.0
15	282	0	0	0	0	0	0	0	282	0	152,100	107,800	1.0	54.0
16	244	0	0	0	0	0	0	0	244	0	161,000	115,100	0.9	55.0
17	189	0	0	0	0	0	0	0	189	0	147,800	100,800	0.6	55.0
18	0	60	0	0	0	0	0	0	60	0	146,200	101,900	0.8	55.0
19	0	129	0	0	0	0	0	0	129	0	135,200	96,900	0.9	55.0
20	0	157	0	0	0	68	0	0	225	0	159,200	114,000	1.0	54.0
21	0	248	0	0	0	0	0	0	248	0	155,300	110,600	1.1	55.0
22	0	287	0	0	0	0	0	0	287	0	144,000	99,800	0.9	54.0
23	0	409	0	0	0	1	0	0	410	0	144,400	102,200	1.0	53.0
24	0	477	0	0	0	0	0	0	477	0	154,700	101,900	0.8	53.0
25	0	292	0	0	0	0	0	0	292	0	162,300	102,900	1.1	55.0
26	0	312	0	0	0	0	0	0	312	0	166,100	103,200	1.5	56.0
27	0	72	0	0	0	1	0	0	73	0	157,300	91,200	1.4	54.0
28	0	107	0	0	0	1	0	0	108	0	146,300	79,600	1.6	55.0
29	0	76	0	0	0	0	0	0	76	0	137,200	69,800	1.4	55.0
30	0	151	0	0	0	0	0	0	151	0	124,900	66,600	1.6	56.0
TOTALS	5,945	2,777	0	0	0	104	0	0	8,826	0				

TABLE 124

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — JULY 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	228	0	0	0	0	0	0	228	0	117,000	49,800	1.8	55.0
2	0	25	0	0	0	0	0	0	25	0	109,500	65,800	2.2	53.0
3	0	20	0	0	0	0	0	0	20	0	124,600	69,600	1.9	59.0
4	0	82	0	0	3	0	0	0	85	0	135,300	69,500	2.4	58.0
5	0	107	0	0	0	0	0	0	107	0	133,200	67,000	2.5	60.0
6	0	351	0	0	1	0	0	0	352	0	131,700	65,900	2.5	62.0
7	0	310	0	0	1	0	0	0	311	0	126,300	66,000	2.2	62.0
8	0	132	0	0	6	0	0	0	138	0	129,500	63,900	2.4	58.0
9	0	232	0	0	0	0	0	0	232	0	116,500	51,900	1.5	64.0
10	0	85	0	0	1	0	0	0	86	1	114,100	48,600	1.4	64.0
11	0	292	0	0	1	0	0	0	293	0	103,400	37,600	1.2	65.0
12	0	307	0	0	1	0	0	0	308	0	96,200	30,400	1.6	64.0
13	0	231	0	3	4	0	0	0	238	0	87,100	21,100	1.6	65.0
14	0	134	0	0	3	0	0	0	137	0	90,800	24,800	1.7	65.0
15	0	90	0	0	3	0	0	0	93	0	72,400	6,200	0.1	65.0
16	0	135	0	0	4	1	0	0	140	0	88,000	22,300	2.3	66.0
17	0	246	0	0	26	0	0	0	272	0	59,400	0	1.0	66.0
18	0	106	0	0	23	0	0	0	129	0	62,700	0	0.9	66.0
19	0	54	0	0	6	0	0	0	60	0	63,500	0	1.0	67.0
20	0	158	0	0	19	3	0	0	180	0	46,800	0	1.6	68.0
21	0	50	0	0	11	1	0	0	62	0	52,700	0	1.9	69.0
22	0	76	0	0	8	2	0	0	86	0	55,100	0	2.4	69.0
23	0	46	0	0	1	0	0	0	47	0	41,800	0	2.1	68.0
24	0	57	0	0	2	4	0	0	63	0	46,300	0	2.5	70.0
25	0	95	0	0	24	7	0	0	126	0	46,200	0	4.1	70.0
26	0	126	0	0	13	10	0	0	149	0	35,700	0	4.1	70.0
27	0	231	0	0	7	5	0	0	243	0	26,600	0	4.2	74.0
28	0	113	0	0	7	16	0	0	136	0	34,100	0	4.2	74.0
29	0	367	0	0	2	12	0	0	381	0	31,300	0	4.3	74.0
30	0	240	0	0	6	7	0	0	253	0	35,800	0	4.3	74.0
31	0	128	0	0	7	34	0	0	169	0	34,400	0	4.2	74.0
TOTALS	0	4,854	0	3	190	102	0	0	5,149	1				

MONTHLY FISH PASSAGE SUMMARY REPORT

U.S. ARMY ENGINEER DISTRICT, PORTLAND

LOWER GRANITE PROJECT

AUGUST 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SEECHI)	WATER TEMP (DEG F)
1	0	257	0	0	11	76	0	0	344	0	38,300	0	4.1	71.0
2	0	108	0	0	0	65	0	0	173	0	35,700	0	4.2	71.0
3	0	44	0	0	0	71	0	0	115	0	26,500	0	4.1	71.0
4	0	19	0	0	0	72	0	0	91	0	31,400	0	4.2	71.0
5	0	45	0	0	0	91	0	0	136	0	37,400	0	4.6	71.0
6	0	81	0	0	0	107	0	0	188	0	25,400	0	4.5	71.0
7	0	48	0	0	0	114	0	0	162	0	22,300	0	4.3	70.0
8	0	38	0	0	0	60	0	0	98	0	37,400	0	5.0	70.0
9	0	36	0	0	0	115	0	0	151	0	26,000	0	3.4	70.0
10	0	26	0	0	0	104	0	0	130	0	25,500	0	4.6	70.0
11	0	5	0	0	0	30	0	0	35	0	18,000	4,300	5.0	70.0
12	0	111	0	0	0	208	0	0	319	0	35,500	0	5.0	70.0
13	0	56	0	0	0	120	0	0	176	0	32,600	0	5.0	70.0
14	0	17	0	0	0	73	0	0	90	0	23,000	0	5.0	71.0
15	0	11	0	0	0	60	0	0	71	0	26,100	0	5.0	70.0
16	0	18	0	0	0	80	0	0	98	0	25,200	0	5.0	71.0
17	0	25	0	0	0	84	0	0	109	0	26,000	0	5.0	72.0
18	0	0	19	0	0	155	0	0	174	0	30,600	0	5.0	72.0
19	0	0	25	1	0	160	0	0	186	0	22,700	0	4.8	72.0
20	0	0	27	0	0	172	0	0	199	0	24,400	0	5.0	72.0
21	0	0	34	0	0	144	0	0	178	0	31,400	0	5.0	76.0
22	0	0	32	0	0	263	0	0	295	0	34,200	1,000	5.0	76.0
23	0	0	12	0	0	137	0	0	149	0	32,300	0	5.0	76.0
24	0	0	10	0	0	137	0	0	147	0	33,500	0	5.0	76.0
25	0	0	15	0	0	107	0	0	122	0	44,100	4,000	3.9	75.0
26	0	0	9	0	0	60	0	0	69	0	46,400	3,500	3.9	66.0
27	0	0	6	0	0	97	0	0	103	0	42,900	0	4.6	67.0
28	0	0	11	0	0	105	0	0	116	0	40,800	0	4.8	68.0
29	0	0	10	0	0	60	0	0	70	0	39,800	0	5.0	67.0
30	0	0	8	0	0	87	0	0	95	0	35,100	0	4.8	67.0
31	0	0	20	0	0	123	0	0	143	0	25,900	0	5.0	66.0
TOTALS	0	945	238	1	11	3,337	0	0	4,532	0				

TABLE 126

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — SEPTEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	14	0	0	102	0	0	116	0	21,300	0	4.5	60.0
2	0	0	24	0	0	101	0	0	125	0	34,500	0	4.8	66.0
3	0	0	26	8	0	144	0	0	178	0	37,300	0	4.7	67.0
4	0	0	18	0	0	65	0	0	83	0	35,100	0	4.1	67.0
5	0	0	12	5	0	84	0	0	101	0	36,700	2,200	4.2	67.0
6	0	0	9	7	0	106	0	0	122	0	37,100	0	4.5	67.0
7	0	0	12	7	0	93	0	0	112	0	32,200	0	5.0	66.0
8	0	0	13	11	0	122	0	0	146	0	30,700	0	5.0	66.0
9	0	0	5	17	0	154	0	0	176	0	32,500	0	5.8	68.0
10	0	0	17	41	0	191	0	0	249	0	33,800	0	5.0	66.0
11	0	0	26	56	0	143	0	0	225	0	36,700	0	5.0	66.0
12	0	0	37	26	0	116	0	0	179	0	39,100	0	5.0	67.0
13	0	0	65	48	0	308	0	0	421	0	37,700	0	5.0	67.0
14	0	0	24	20	0	242	0	0	286	0	33,300	0	5.0	67.0
15	0	0	20	29	0	142	0	0	191	0	34,400	0	5.0	66.0
16	0	0	31	58	0	198	0	0	287	0	35,600	0	5.0	66.0
17	0	0	76	31	0	290	0	0	397	0	37,700	0	5.0	67.0
18	0	0	96	58	0	325	0	0	479	0	33,900	0	5.0	67.0
19	0	0	38	28	0	248	0	0	314	0	44,400	16,700	5.0	68.0
20	0	0	127	47	0	423	0	0	597	0	38,000	3,600	5.0	68.0
21	0	0	41	26	0	251	0	0	318	0	35,200	0	5.0	66.0
22	0	0	102	40	1	285	0	0	428	0	29,500	200	5.0	67.0
23	0	0	120	74	0	318	0	0	512	0	28,100	0	5.0	65.0
24	0	0	86	13	1	151	0	0	251	0	30,800	5,300	5.0	64.0
25	0	0	75	40	0	534	0	0	649	0	36,600	0	5.0	65.0
26	0	0	135	38	0	499	0	0	672	0	33,700	0	5.0	64.0
27	0	0	68	12	0	345	0	0	425	0	31,700	0	5.0	64.0
28	0	0	55	10	0	197	0	0	262	0	34,200	0	5.0	64.0
29	0	0	25	4	0	50	0	0	79	0	19,600	4,100	5.0	63.0
30	0	0	65	40	0	169	0	0	274	0	39,000	0	5.0	63.0
TOTALS	0	0	1,462	794	2	6,396	0	0	8,654	0				

MONTHLY FISH PASSAGE SUMMARY REPORT LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND OCTOBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	23	10	0	116	0	0	149	0	34,800	1,500	5.0	63.0
2	0	0	31	13	1	140	0	0	185	0	33,800	0	5.0	62.0
3	0	0	21	9	0	160	0	0	190	0	29,800	0	5.0	62.0
4	0	0	16	5	0	161	0	0	182	0	32,500	0	5.0	67.0
5	0	0	39	8	0	287	0	0	334	0	25,800	0	5.0	62.0
6	0	0	33	13	0	162	0	0	208	0	26,000	0	5.0	62.0
7	0	0	20	2	0	112	0	0	134	0	29,300	0	5.0	62.0
8	0	0	11	7	0	179	0	0	197	0	30,000	0	5.0	62.0
9	0	0	11	0	0	96	0	0	107	0	39,800	0	5.0	60.0
10	0	0	2	5	0	103	0	0	110	0	33,000	0	5.0	60.0
11	0	0	18	1	1	105	0	0	125	0	32,200	0	5.0	60.0
12	0	0	25	3	0	92	0	0	120	0	32,100	0	5.0	60.0
13	0	0	9	1	0	93	0	0	103	0	31,400	0	5.0	59.0
14	0	0	6	2	0	124	0	0	132	0	33,600	0	5.0	63.0
15	0	0	2	0	0	73	0	0	75	0	35,500	0	4.8	60.0
16	0	0	3	3	3	133	0	0	142	0	33,600	0	5.0	61.0
17	0	0	3	2	0	180	0	0	185	0	33,200	0	5.0	58.0
18	0	0	12	1	0	128	0	0	141	0	32,200	0	5.0	58.0
19	0	0	19	7	1	136	0	0	163	0	31,300	0	4.8	58.0
20	0	0	26	7	0	107	0	0	140	0	26,300	0	5.0	58.0
21	0	0	11	2	0	47	0	0	60	0	25,600	0	4.8	58.0
22	0	0	10	0	0	88	0	0	98	0	37,500	170	5.0	56.0
23	0	0	4	7	0	81	0	0	92	0	55,200	0	5.0	57.0
24	0	0	30	2	0	175	0	0	207	0	52,500	0	4.0	54.0
25	0	0	11	5	0	91	0	0	107	0	37,600	0	4.1	54.0
26	0	0	14	3	0	103	0	0	120	0	38,300	0	3.9	54.0
27	0	0	9	0	0	110	0	0	119	0	37,600	0	3.9	53.0
28	0	0	31	0	0	85	0	0	116	0	35,000	0	2.8	52.0
29	0	0	13	0	0	55	0	0	68	0	34,000	0	3.0	52.0
30	0	0	10	0	0	26	0	0	36	0	36,600	0	3.2	52.0
31	0	0	1	0	0	36	0	0	37	0	36,000	0	4.4	50.0
TOTALS	0	0	474	118	6	3,584	0	0	4,182	0				

TABLE 128

TABLE 128

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — NOVEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	5	0	0	50	0	0	55	0	36,800	0	4.0	50.0
2	0	0	11	0	0	40	0	0	51	0	35,600	0	4.0	51.0
3	0	0	7	0	0	28	0	0	35	0	32,900	0	4.0	51.0
4	0	0	1	0	0	28	0	0	29	0	41,100	0	4.0	52.0
5	0	0	4	1	0	56	0	0	61	0	40,900	0	4.0	52.0
6	0	0	5	1	0	32	0	0	38	0	42,800	0	4.0	52.0
7	0	0	5	0	0	76	0	0	81	0	42,100	0	4.1	50.0
8	0	0	6	0	0	104	0	0	110	0	47,000	0	4.5	49.0
9	0	0	2	3	0	69	0	0	74	0	41,900	0	4.2	49.0
10	0	0	0	0	0	17	0	0	17	0	40,800	0	3.9	49.0
11	0	0	7	0	0	44	0	0	51	0	41,600	0	4.1	49.0
12	0	0	1	0	0	7	0	0	8	0	36,200	0	4.1	56.0
13	0	0	10	0	0	4	0	0	14	0	37,200	0	4.1	56.0
14	0	0	0	0	0	28	0	0	28	0	38,700	0	4.2	52.0
15	0	0	4	0	0	16	0	0	20	0	28,800	0	4.1	50.0
16	0	0	0	0	0	12	0	0	12	0	35,600	0	4.0	50.0
17	0	0	0	0	0	11	0	0	11	0	35,800	0	4.0	46.0
18	0	0	1	0	0	16	0	0	17	0	42,500	0	4.8	46.0
19	0	0	0	0	0	12	0	0	12	0	52,200	0	4.8	46.0
20	0	0	0	0	0	9	0	0	9	0	50,000	0	4.8	44.0
21	0	0	0	0	0	9	0	0	9	0	30,200	0	4.8	44.0
22	0	0	0	0	0	9	0	0	9	0	44,500	0	4.8	44.0
23	0	0	0	0	0	5	0	0	5	0	37,000	0	4.8	44.0
24	0	0	1	0	0	3	0	0	4	0	35,500	0	4.8	43.0
25	0	0	0	0	0	8	0	0	8	0	45,900	0	4.8	43.0
26	0	0	0	0	0	1	0	0	1	0	45,400	0	4.6	43.0
27	0	0	0	0	0	0	0	0	0	0	45,100	0	4.3	43.0
28	0	0	1	0	0	9	0	0	10	0	45,100	0	4.5	43.0
29	0	0	0	0	0	0	0	0	0	0	41,700	0	4.3	43.0
30	0	0	0	0	0	0	0	0	0	0	42,000	0	4.3	43.0
TOTALS	0	0	71	5	0	703	0	0	779	0				

TABLE 129

0127- 6

MONTHLY FISH PASSAGE SUMMARY REPORT — LOWER GRANITE PROJECT

U.S. ARMY ENGINEER DISTRICT, PORTLAND — DECEMBER 1975

	FISH COUNTS (INCLUDING JACKS)										RIVER CONDITIONS			
DATE	SPRING CHINOOK	SUMMER CHINOOK	FALL CHINOOK	COHO	SOCKEYE	STEELHEAD	CHUM	PINK	TOTAL SALMONID	SHAD	DISCHARGE (CFS)	SPILL (CFS)	TURBIDITY (SECCHI)	WATER TEMP (DEG F)
1	0	0	0	0	0	0	0	0	0	0	42,100	0	4.3	42.0
2	0	0	0	0	0	3	0	0	3	0	71,900	23,600	4.4	42.0
3	0	0	0	0	0	19	0	0	19	0	86,100	22,300	4.5	42.0
4	0	0	0	0	0	11	0	0	11	0	80,400	17,500	3.2	42.0
5	0	0	0	0	0	8	0	0	8	0	81,800	18,400	0.7	42.0
6	0	0	0	0	0	13	0	0	13	0	79,100	15,800	0.7	42.0
7	0	0	0	0	0	37	0	0	37	0	77,500	14,400	1.3	41.0
8	0	0	0	0	0	12	0	0	12	0	104,200	56,200	1.4	41.0
9	0	0	0	0	0	0	0	0	0	0	96,900	46,800	2.3	41.0
10	0	0	0	0	0	0	0	0	0	0	87,900	40,500	0.5	40.0
11	0	0	0	0	0	3	0	0	3	0	86,100	44,000	0.5	40.0
12	0	0	0	0	0	13	0	0	13	0	83,900	41,800	1.0	40.0
13	0	0	0	0	0	12	0	0	12	0	97,000	54,500	1.2	40.0
14	0	0	0	0	0	21	0	0	21	0	92,100	45,600	2.1	41.0
15	0	0	0	0	0	7	0	0	7	0	81,100	33,400	2.0	41.0
16	0	0	0	0	0	19	0	0	19	0	61,500	10,700	3.0	41.0
17	0	0	0	0	0	23	0	0	23	0	59,200	0	3.0	41.0
18	0	0	0	0	0	7	0	0	7	0	55,200	0	3.4	41.0
19	0	0	0	0	0	5	0	0	5	0	51,900	0	3.5	41.0
20	0	0	0	0	0	28	0	0	28	0	62,400	0	3.7	41.0
21	0	0	0	0	0	8	0	0	8	0	57,100	0	3.7	41.0
22	0	0	0	0	0	7	0	0	7	0	55,100	0	4.0	41.0
23	0	0	0	0	0	5	0	0	5	0	47,600	0	5.0	40.0
24	0	0	0	0	0	1	0	0	1	0	43,600	0	5.0	40.0
25	0	0	0	0	0	0	0	0	0	0	52,900	0	5.0	40.0
26	0	0	0	0	0	0	0	0	0	0	50,800	0	5.0	40.0
27	0	0	0	0	0	7	0	0	7	0	63,000	0	2.6	40.0
28	0	0	0	0	0	17	0	0	17	0	63,300	0	1.0	40.0
29	0	0	0	0	0	9	0	0	9	0	62,200	0	0.8	40.0
30	0	0	0	0	0	0	0	0	0	0	51,700	0	0.3	38.0
31	0	0	0	0	0	1	0	0	1	0	48,400	0	0.3	38.0
TOTALS	0	0	0	0	0	296	0	0	296	0				

TABLE 130

PEAK DAYS OF MIGRATION

LOWER GRANITE DAM 1975 -

	Spring Chinook		Summer Chinook		Fall Chinook		Steelhead		Sockeye		Coho	
Year	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish	Date	Number of Fish
1975	May 27	1,894	Jun 25	477	Sep 26	135	Sep 25	534	Jul 17	26	Sep 16	58

TABLE 131

MONTHLY TOTALS OF CHINOOK COUNTED OVER LOWER GRANITE DAM

1975 -

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1975				1	11,693	8,722	4,854	1,183	1,462	474	71		28,460

TABLE 132

MONTHLY COUNT OF STEELHEAD TROUT OVER LOWER GRANITE DAM

1975 -

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1975				1,724	1,065	104	102	3,337	6,396	3,584	703	296	17,311

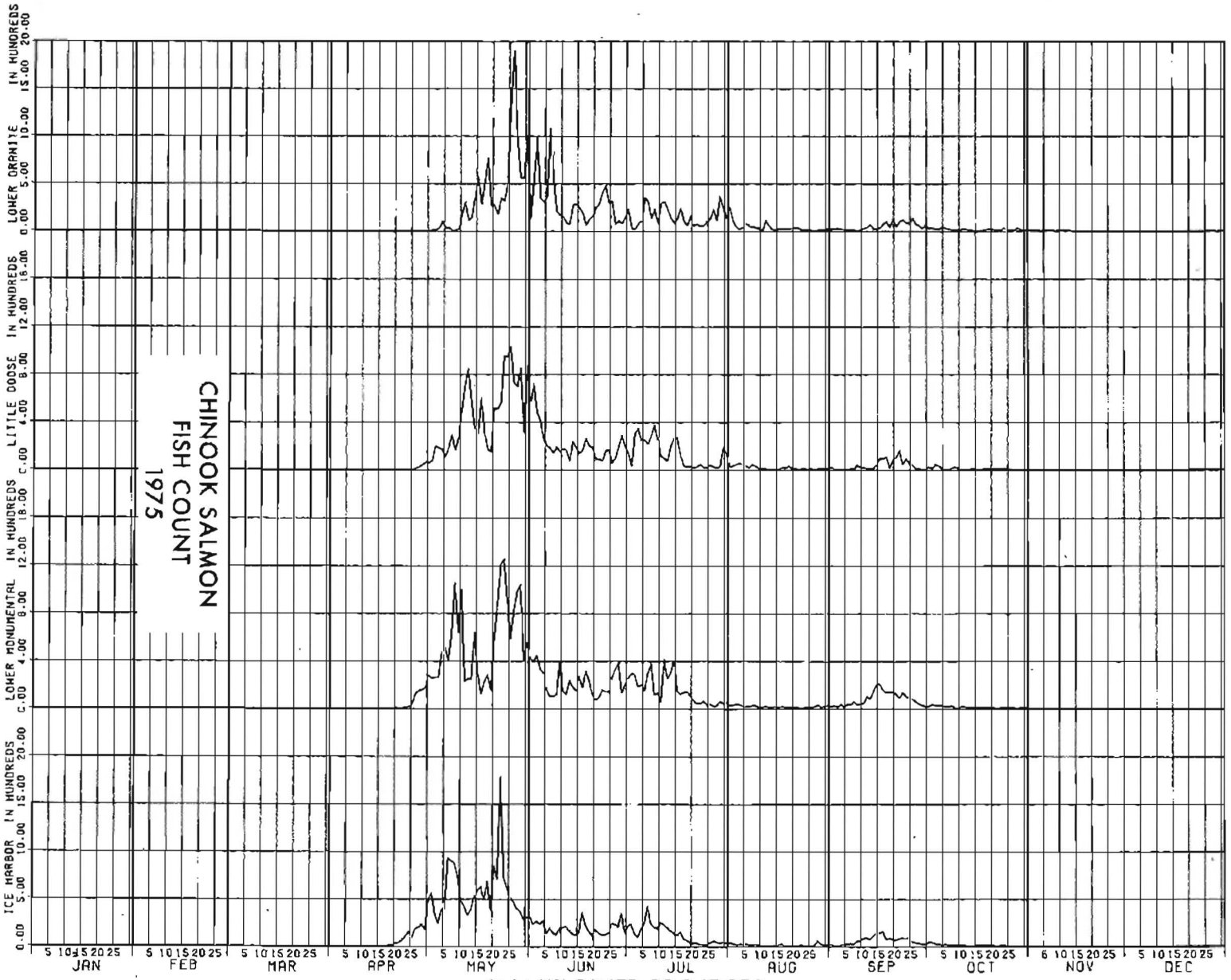
TABLE 133

FISH FACILITY OPERATION & MAINTENANCE COSTS - 1975

Project	Routine Operations	Fish Counting	Maintenance	Total Operation and Maintenance
Bonneville	$ 46,395	$ 33,331	$179,742	$259,468
The Dalles	32,088	33,118	24,607	89,813
John Day	50,541	30,581	63,778	144,900
McNary	45,900	17,500	107,100*	170,500
Ice Harbor	15,810	28,820	15,630	60,260
Lower Monumental	14,940	15,180	28,310	58,430
Little Goose	13,202	16,512	9,483	39,197
Lower Granite	11,473	19,651	10,870	41,994
Total	$230,349	$194,693	$439,520	$864,562

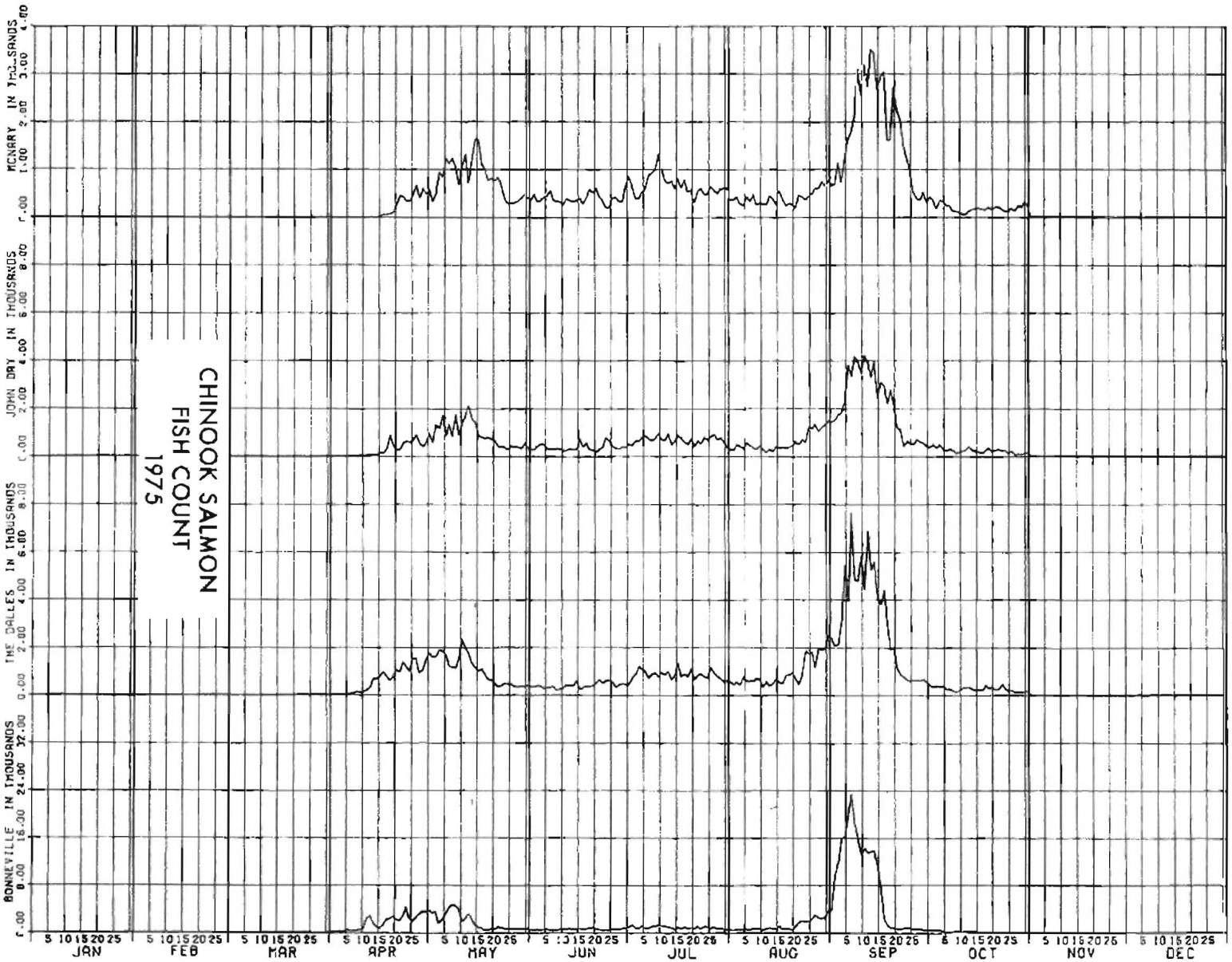
*Includes $25,000 cost for closed circuit television

PLATE 1



SNAKE RIVER PROJECTS

U.S. ARMY ENGINEER DISTRICT, WALLA WALLA

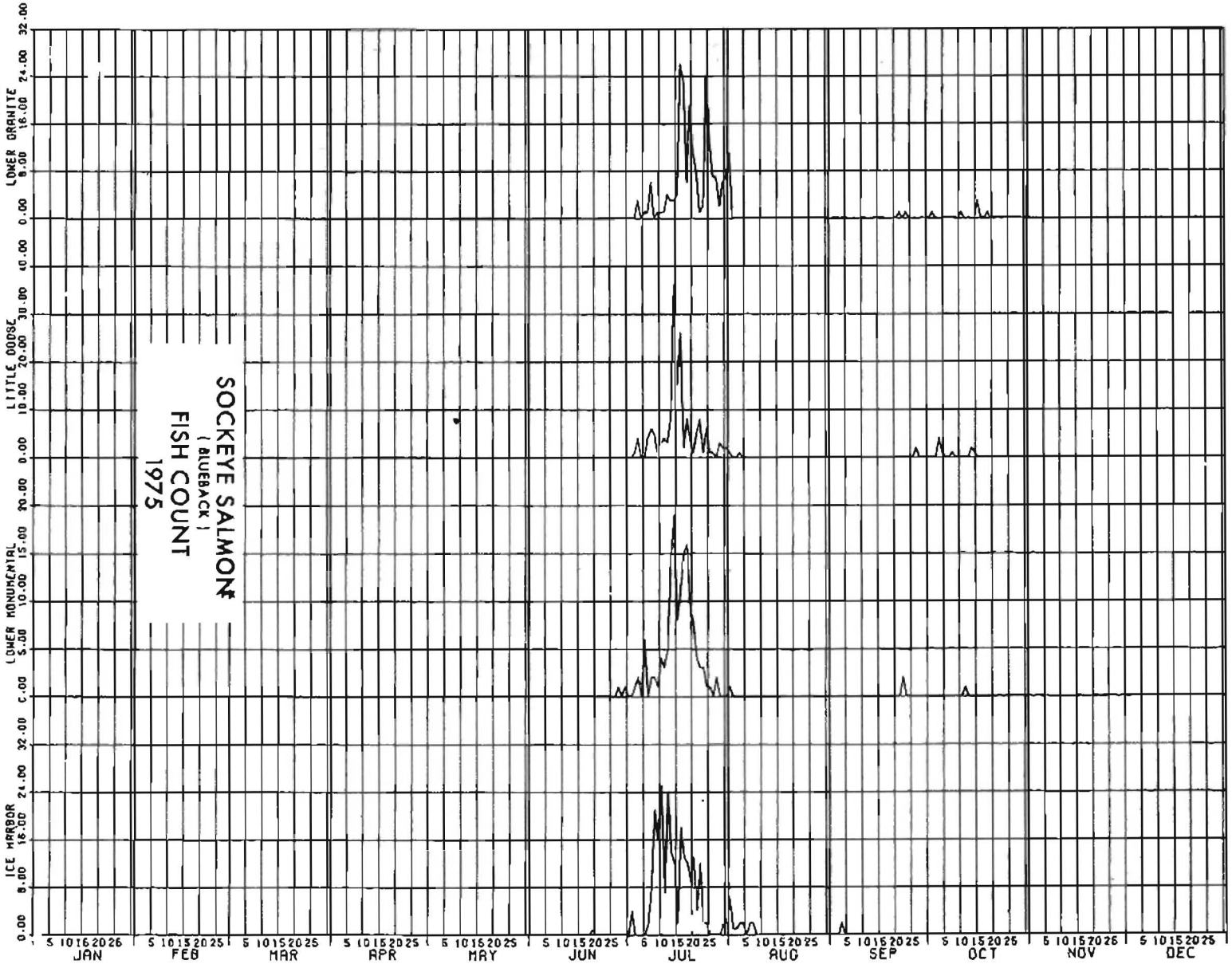


COLUMBIA RIVER PROJECTS

U.S. ARMY ENGINEER DISTRICT, PORTLAND

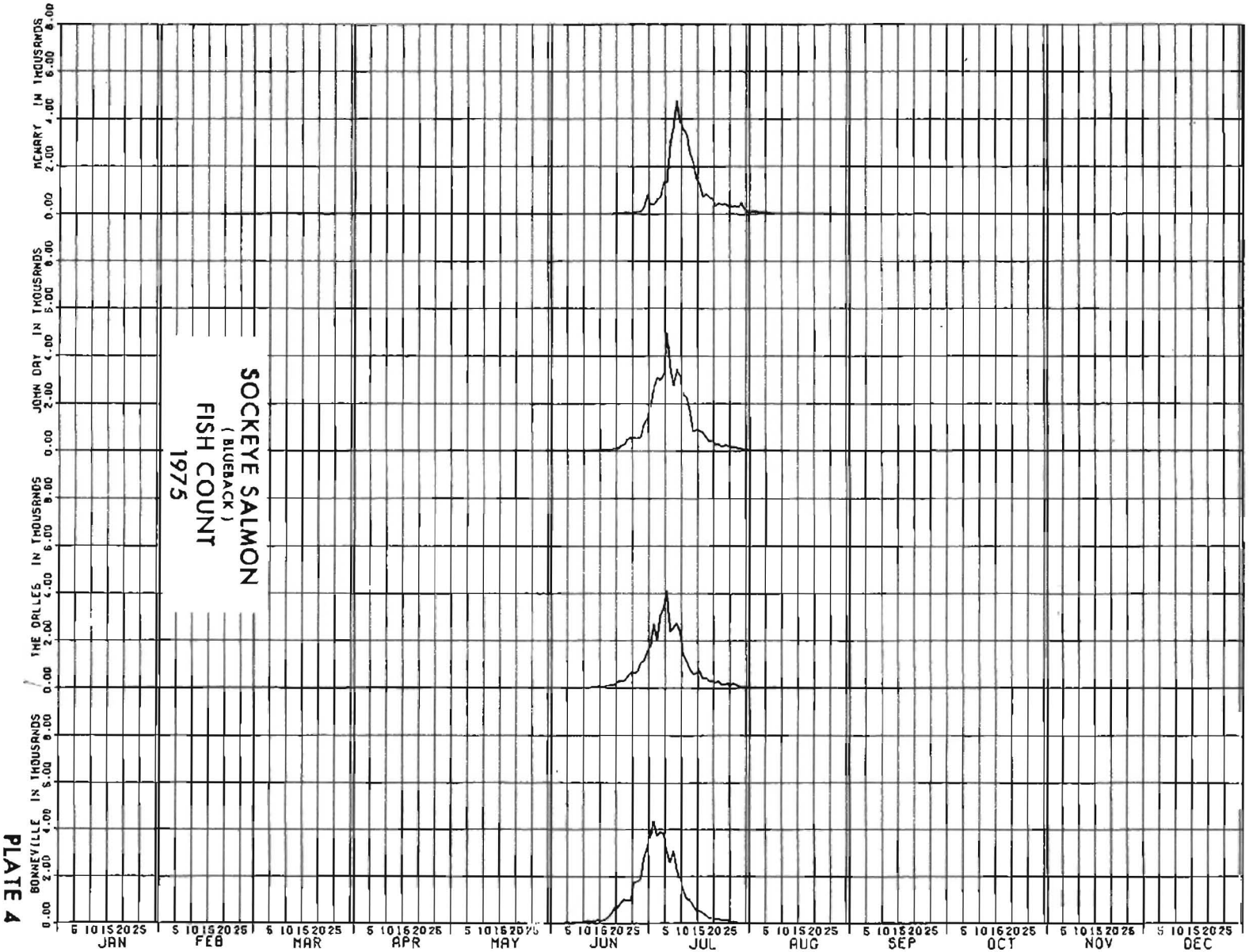
PLATE 2

PLATE 3



SNAKE RIVER PROJECTS

U.S. ARMY ENGINEER DISTRICT, WALLA WALLA

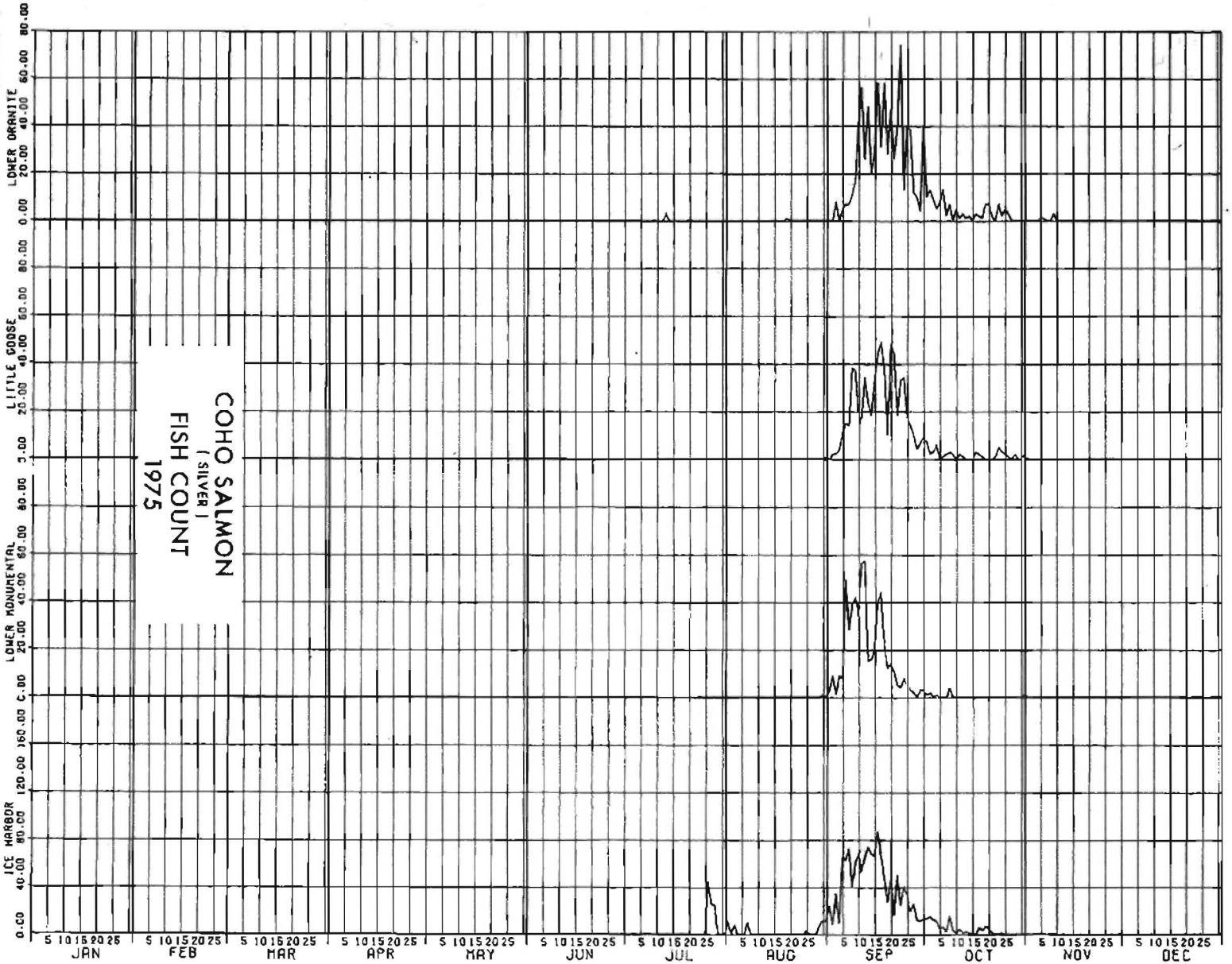


COLUMBIA RIVER PROJECTS

U.S. ARMY ENGINEER DISTRICT, PORTLAND

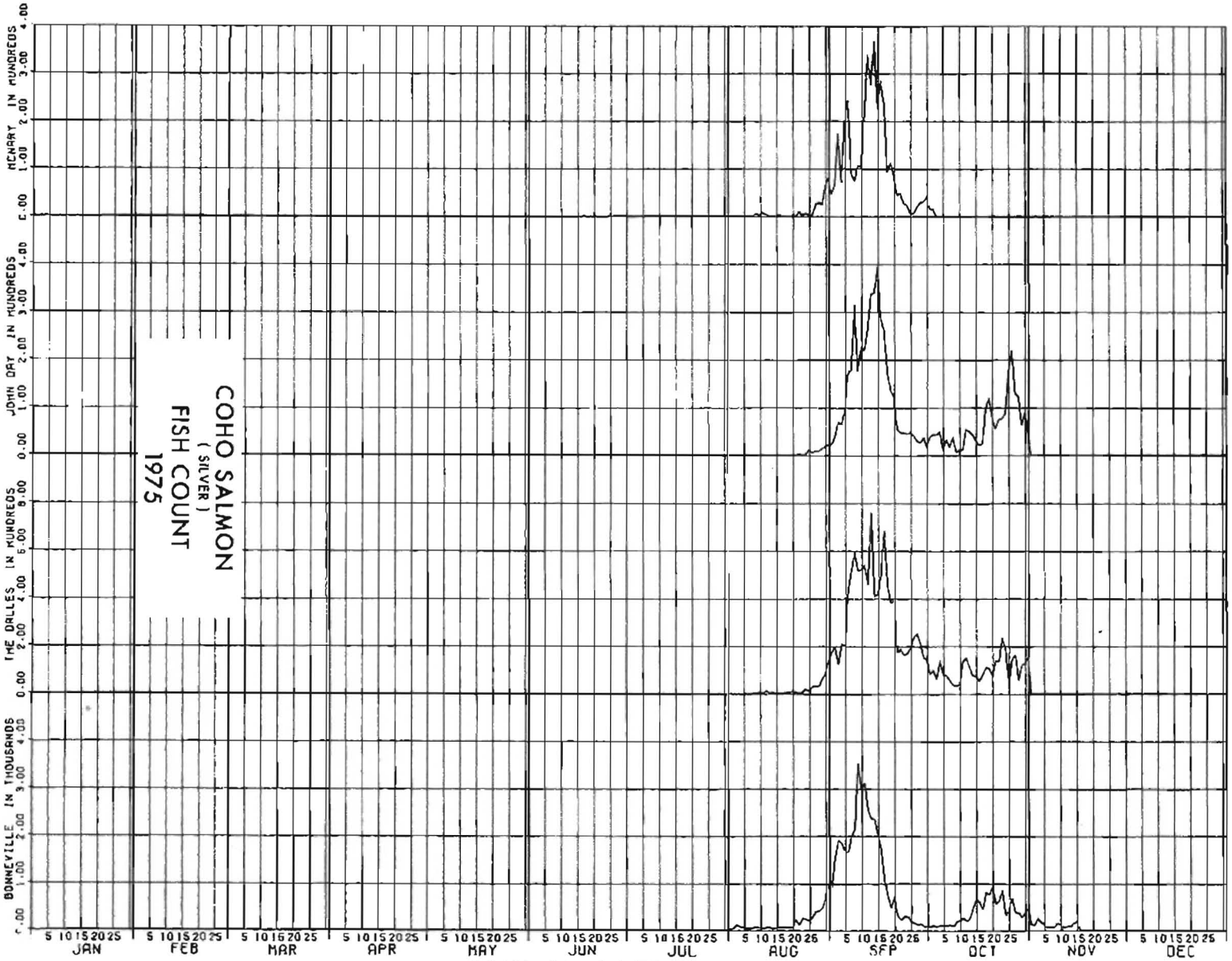
PLATE 4

PLATE 5



SNAKE RIVER PROJECTS

U.S. ARMY ENGINEER DISTRICT, WALLA WALLA

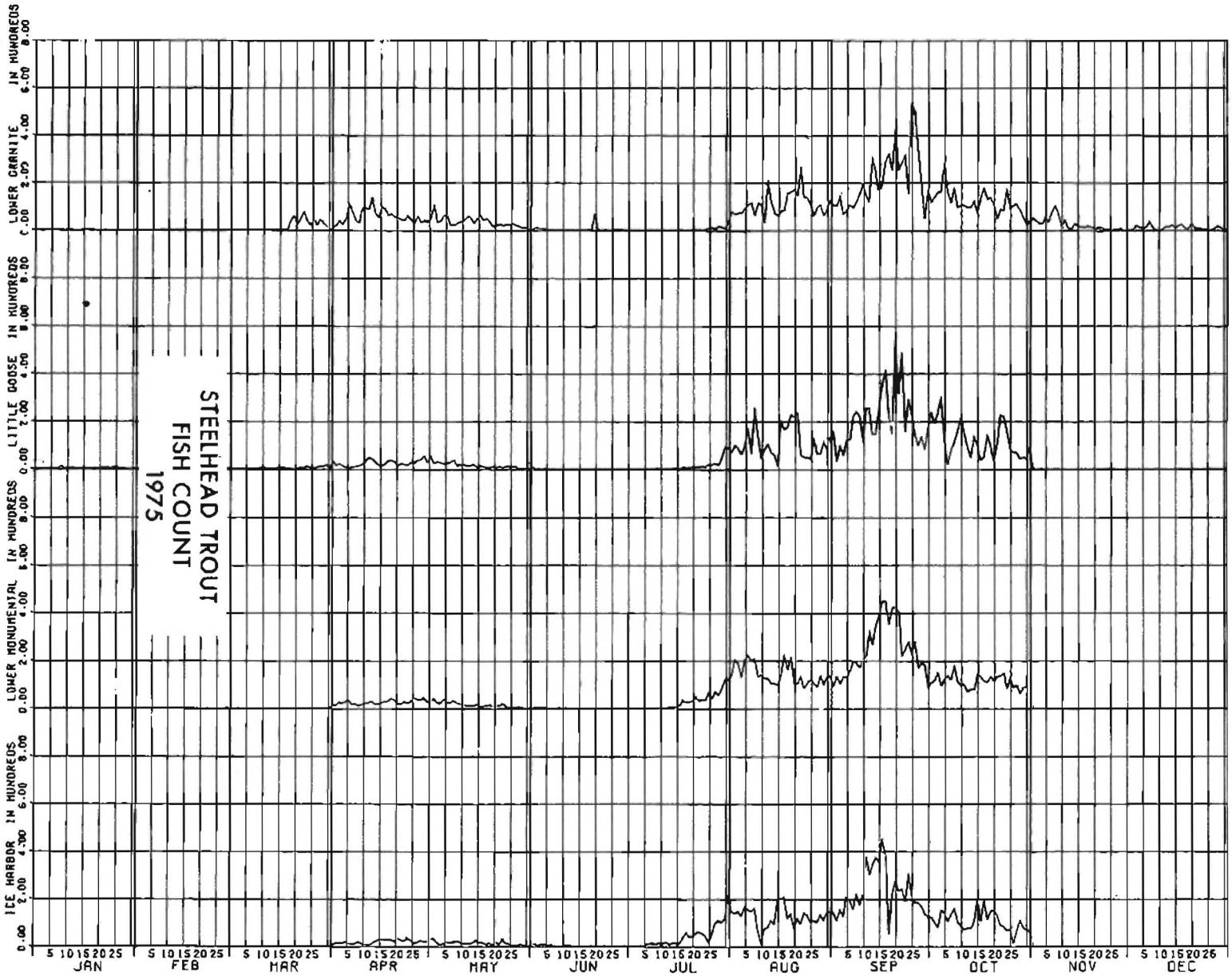


COLUMBIA RIVER PROJECTS

U.S. ARMY ENGINEER DISTRICT, PORTLAND

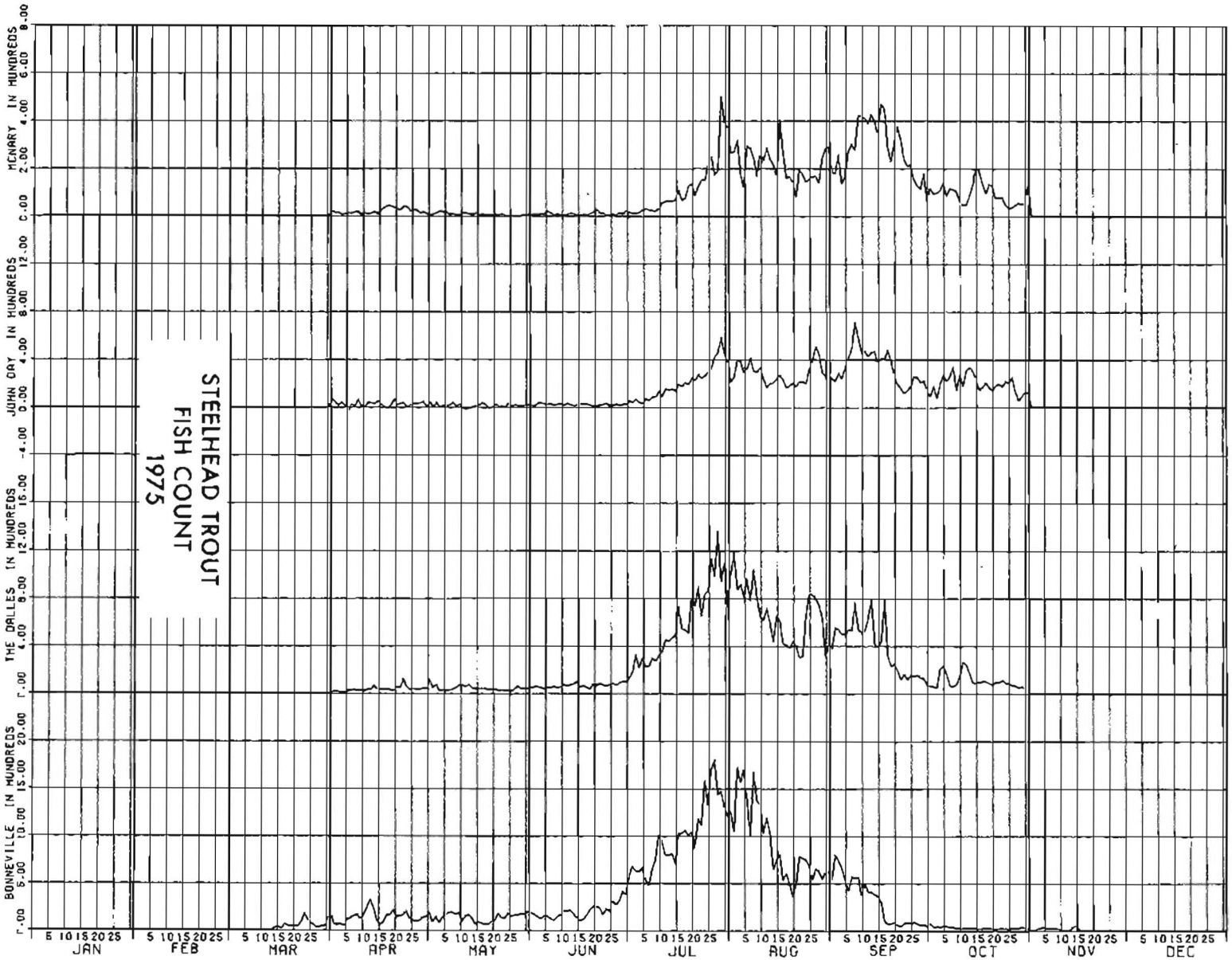
PLATE 6

PLATE 7



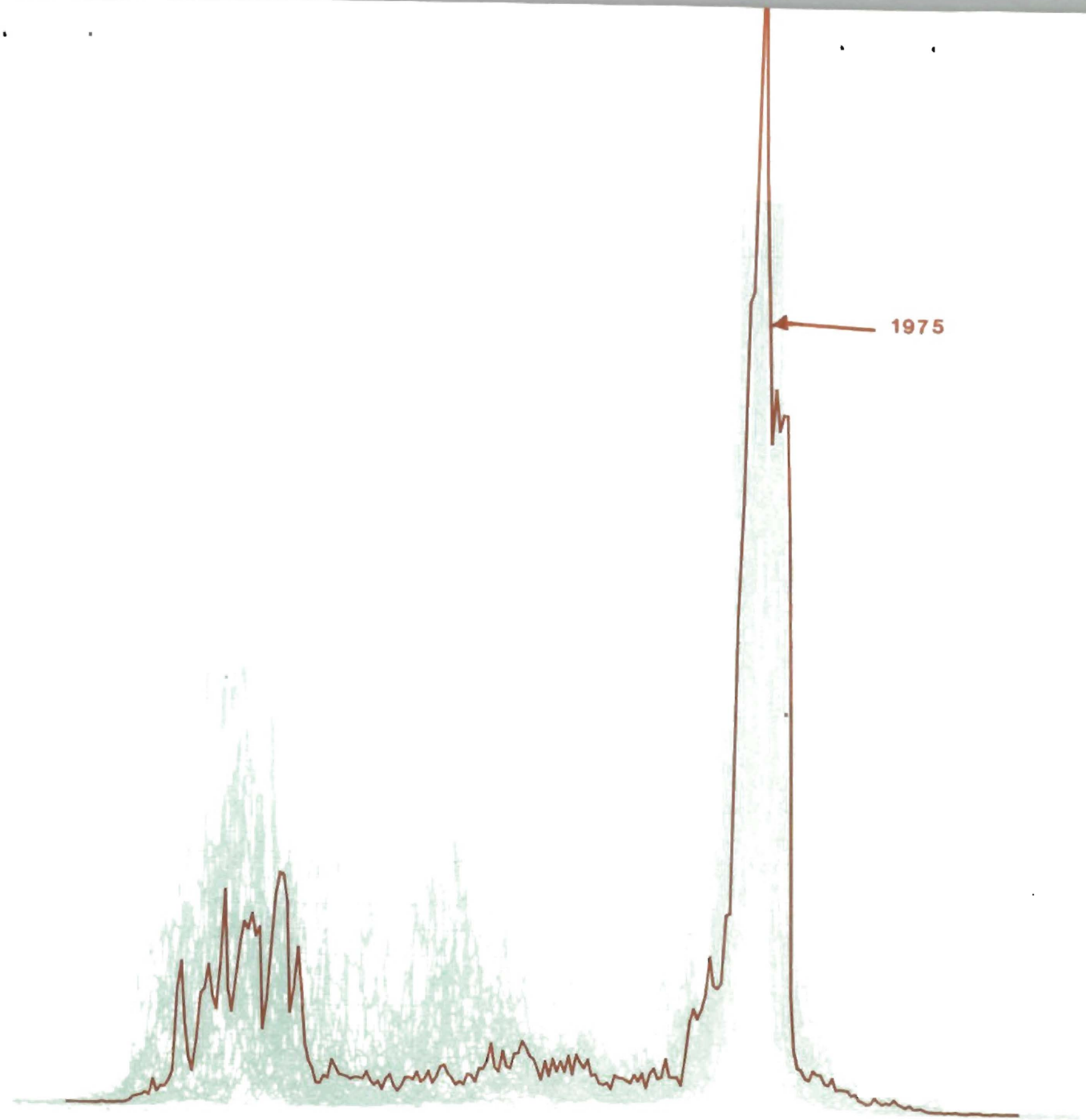
SNAKE RIVER PROJECTS

U.S. ARMY ENGINEER DISTRICT, WALLA WALLA



COLUMBIA RIVER PROJECTS
U.S. ARMY ENGINEER DISTRICT, PORTLAND

PLATE 8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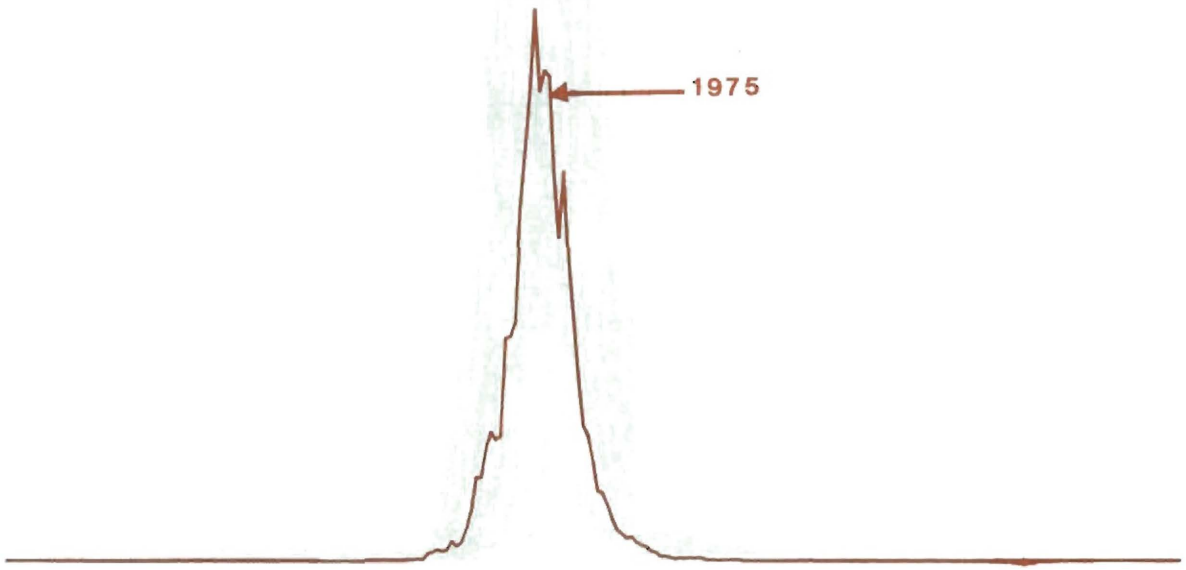
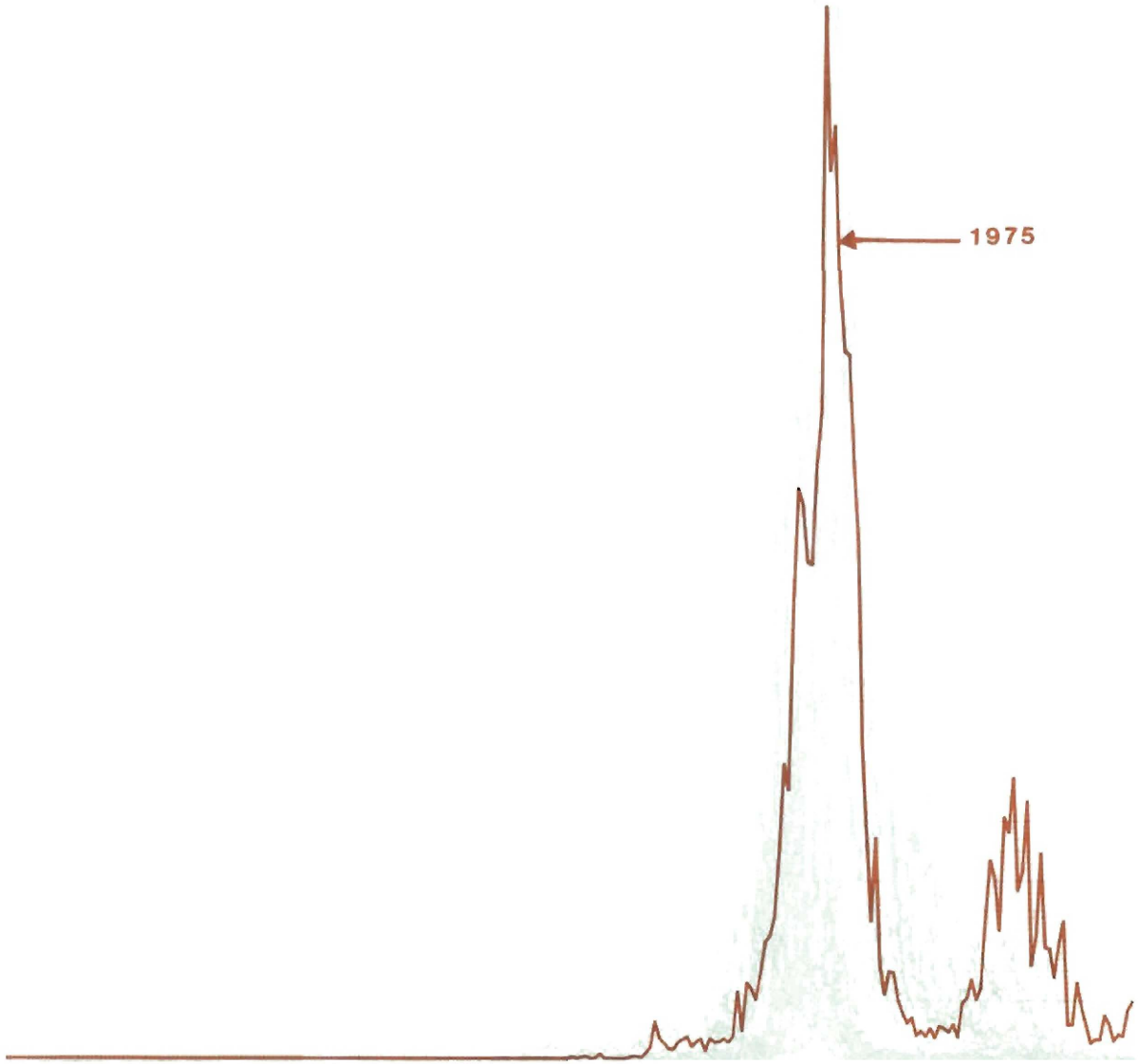
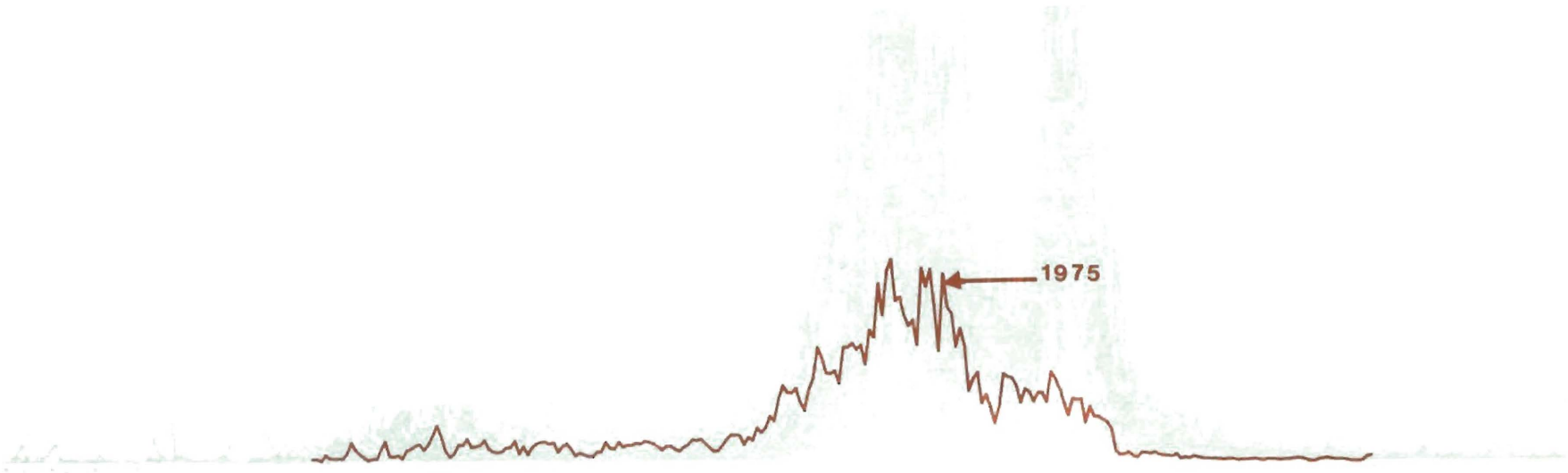

1975


1975


1975

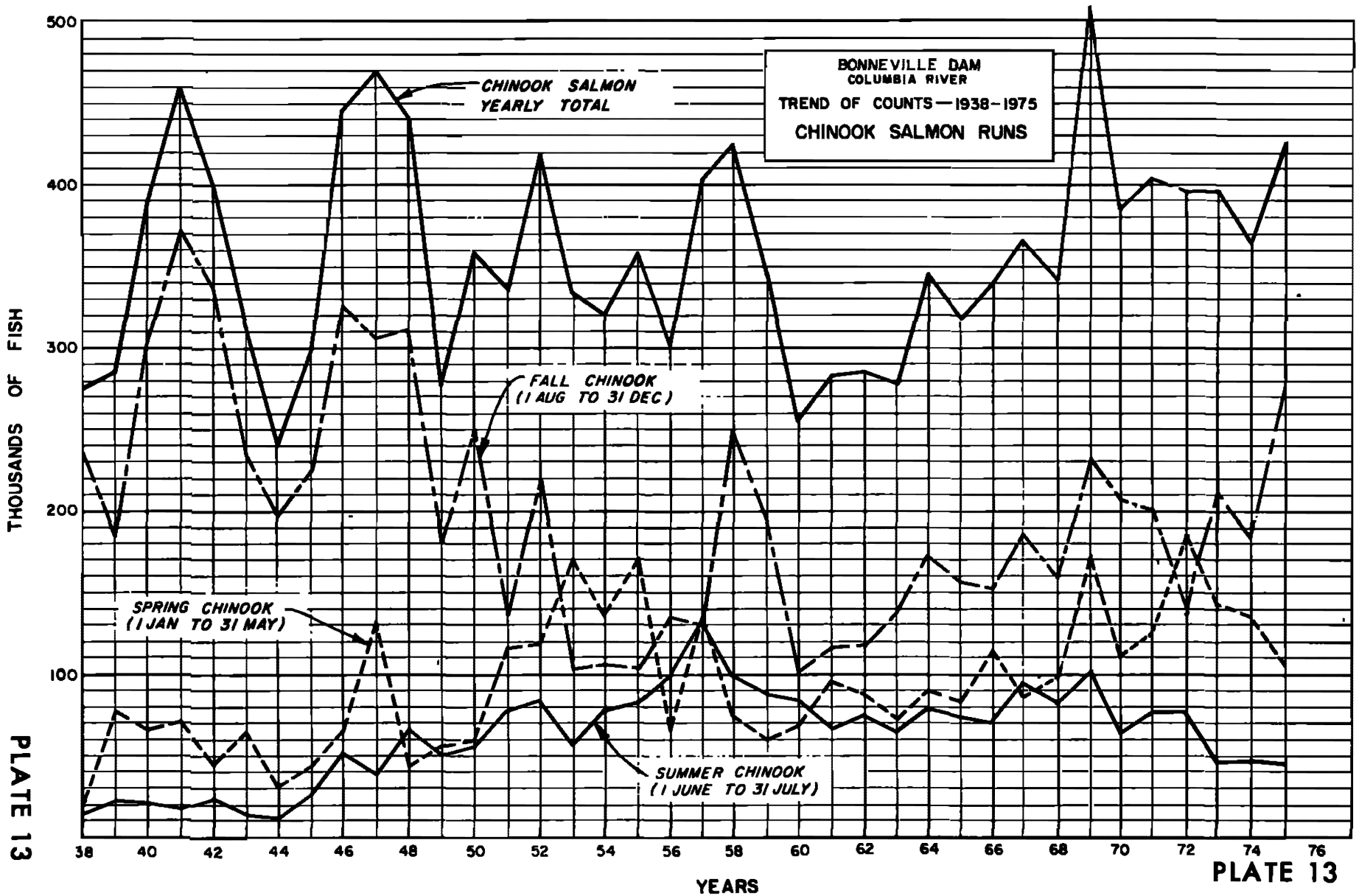


PLATE 13

PLATE 13

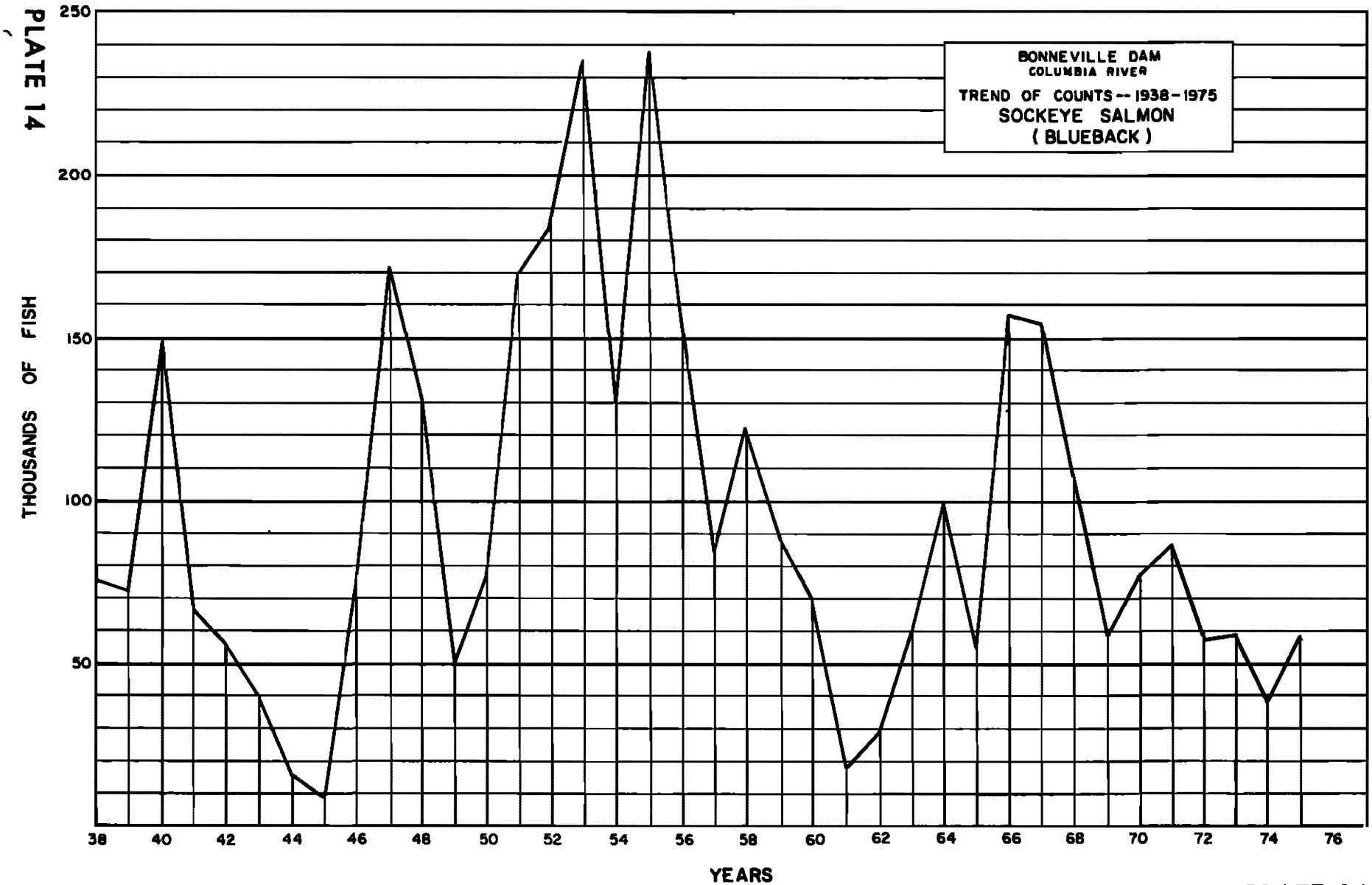


PLATE 14

PLATE 14

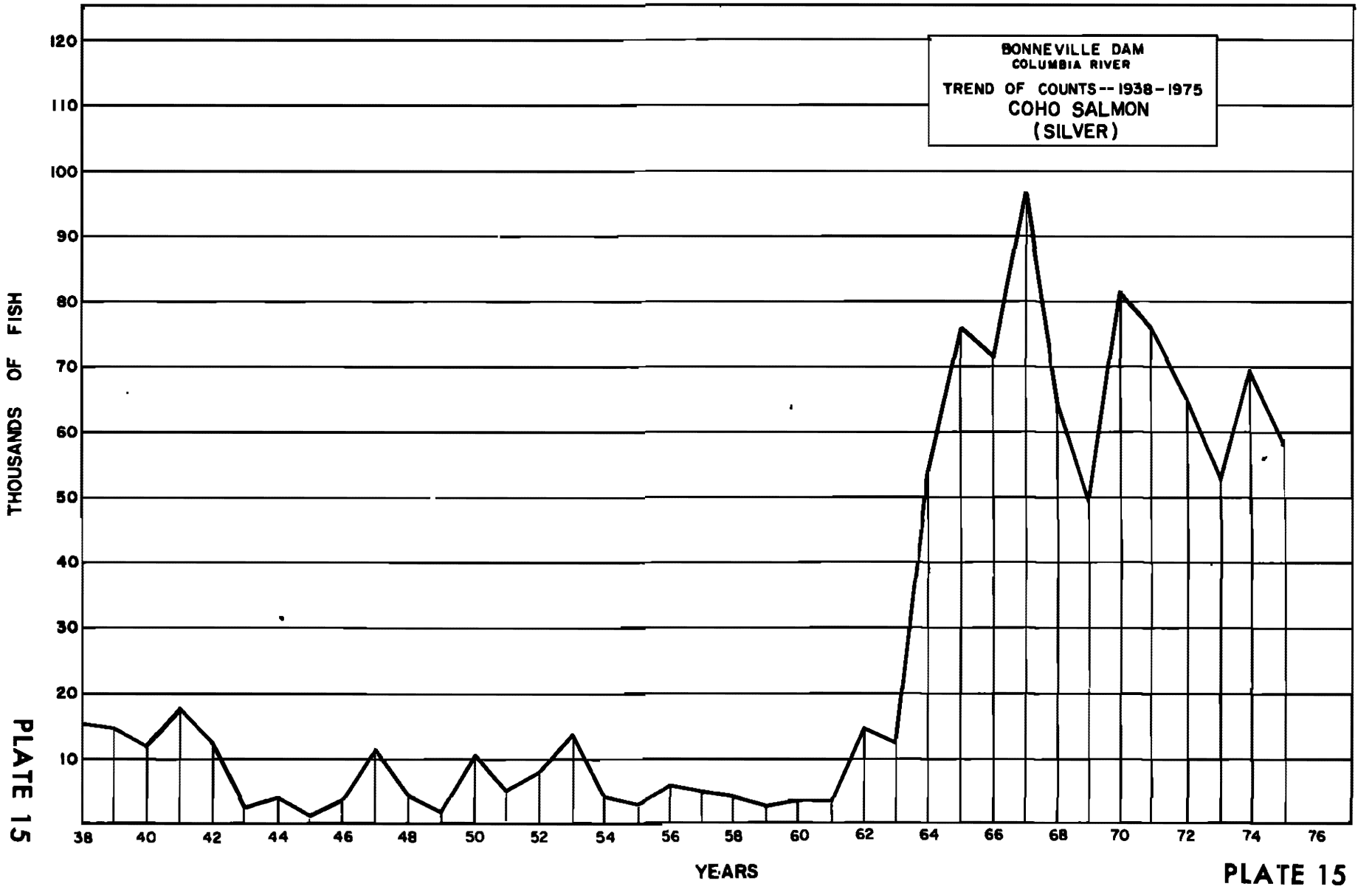


PLATE 15

PLATE 15

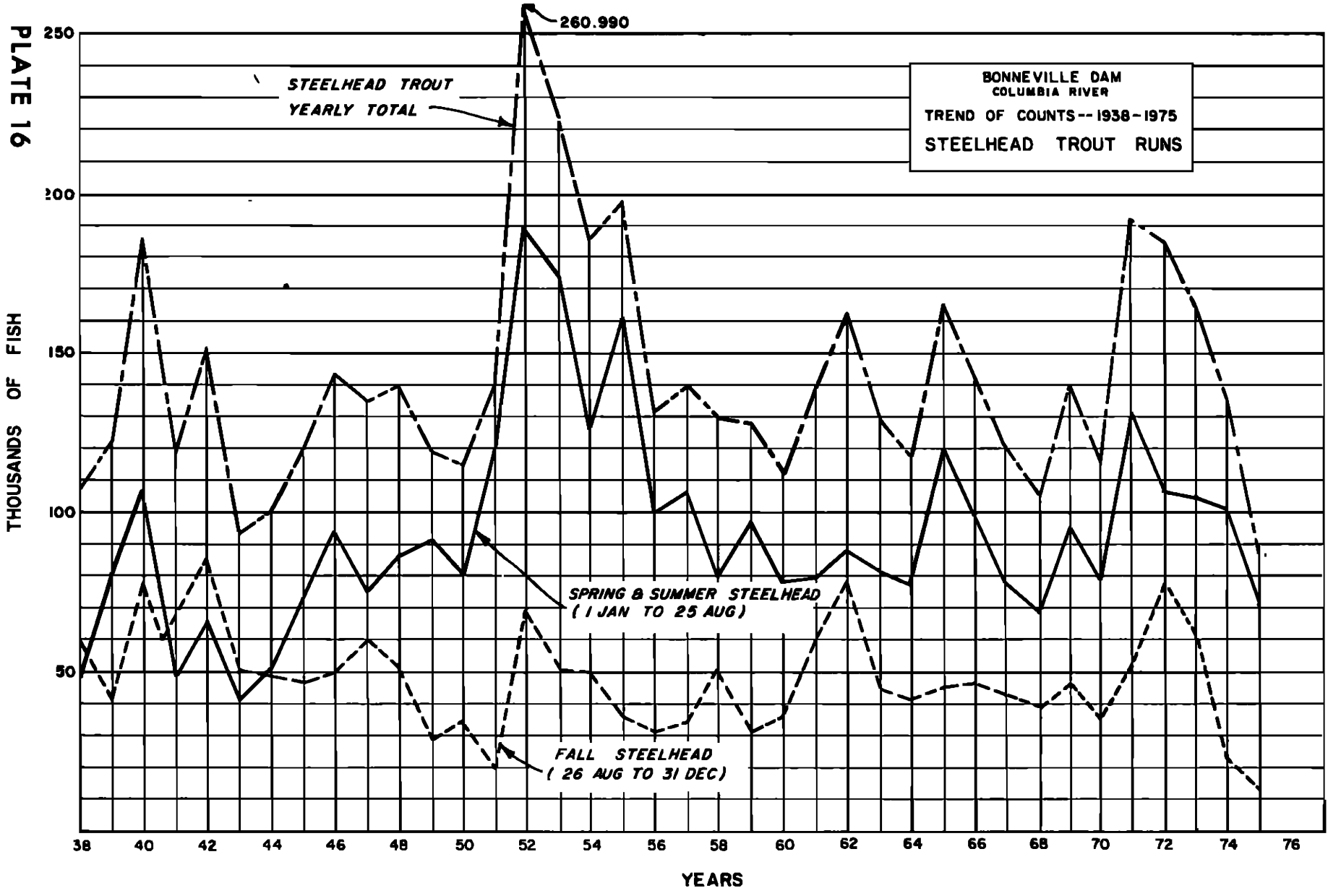


PLATE 16
BONNEVILLE DAM
COLUMBIA RIVER
TREND OF COUNTS -- 1938-1975
STEELHEAD TROUT RUNS
260.990
STEELHEAD TROUT
YEARLY TOTAL
SPRING & SUMMER STEELHEAD
(1 JAN TO 25 AUG)
FALL STEELHEAD
(26 AUG TO 31 DEC)
THOUSANDS OF FISH
250
200
150
100
50
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
YEARS

PLATE 16

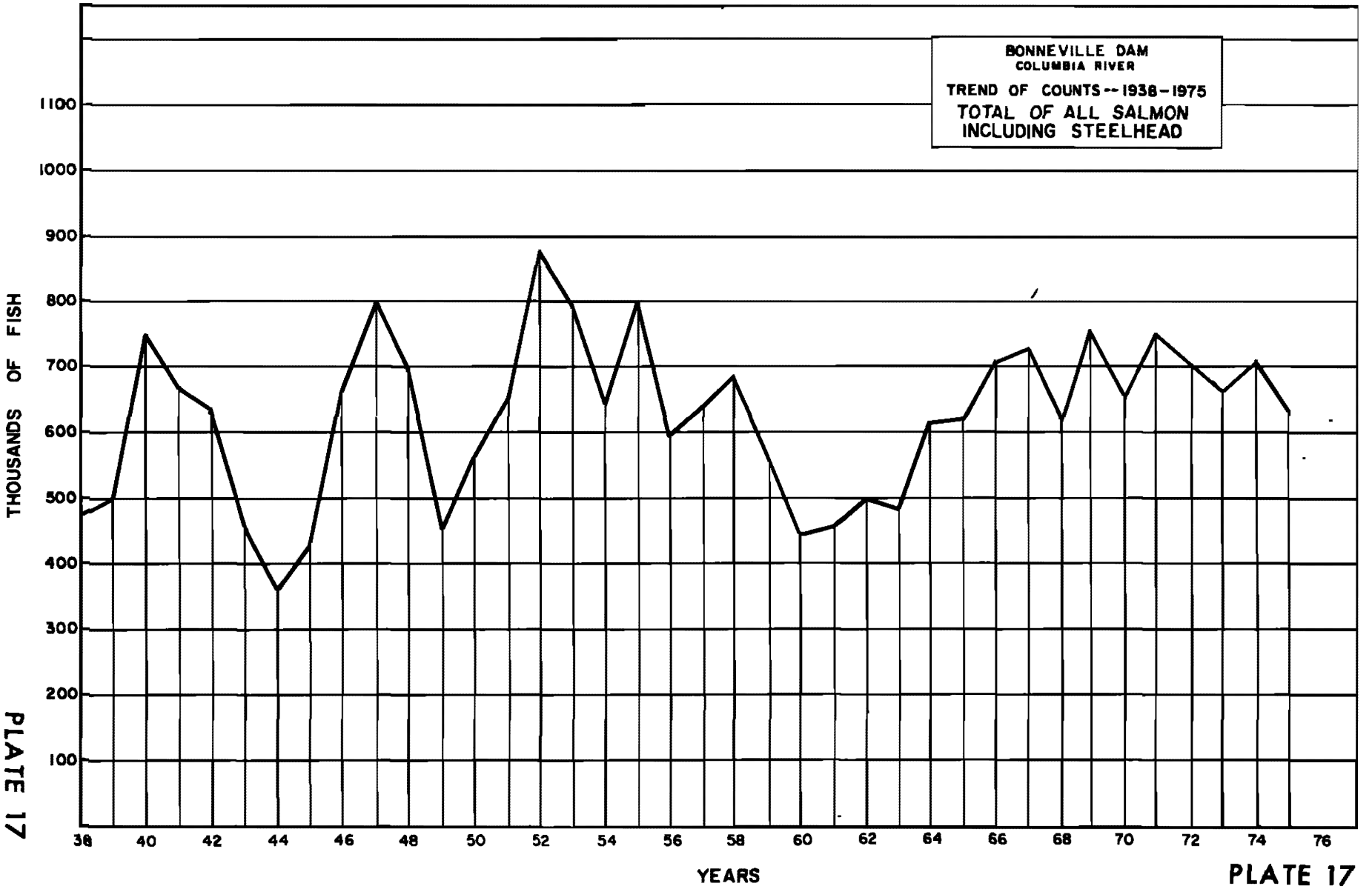


PLATE 17

PLATE 17

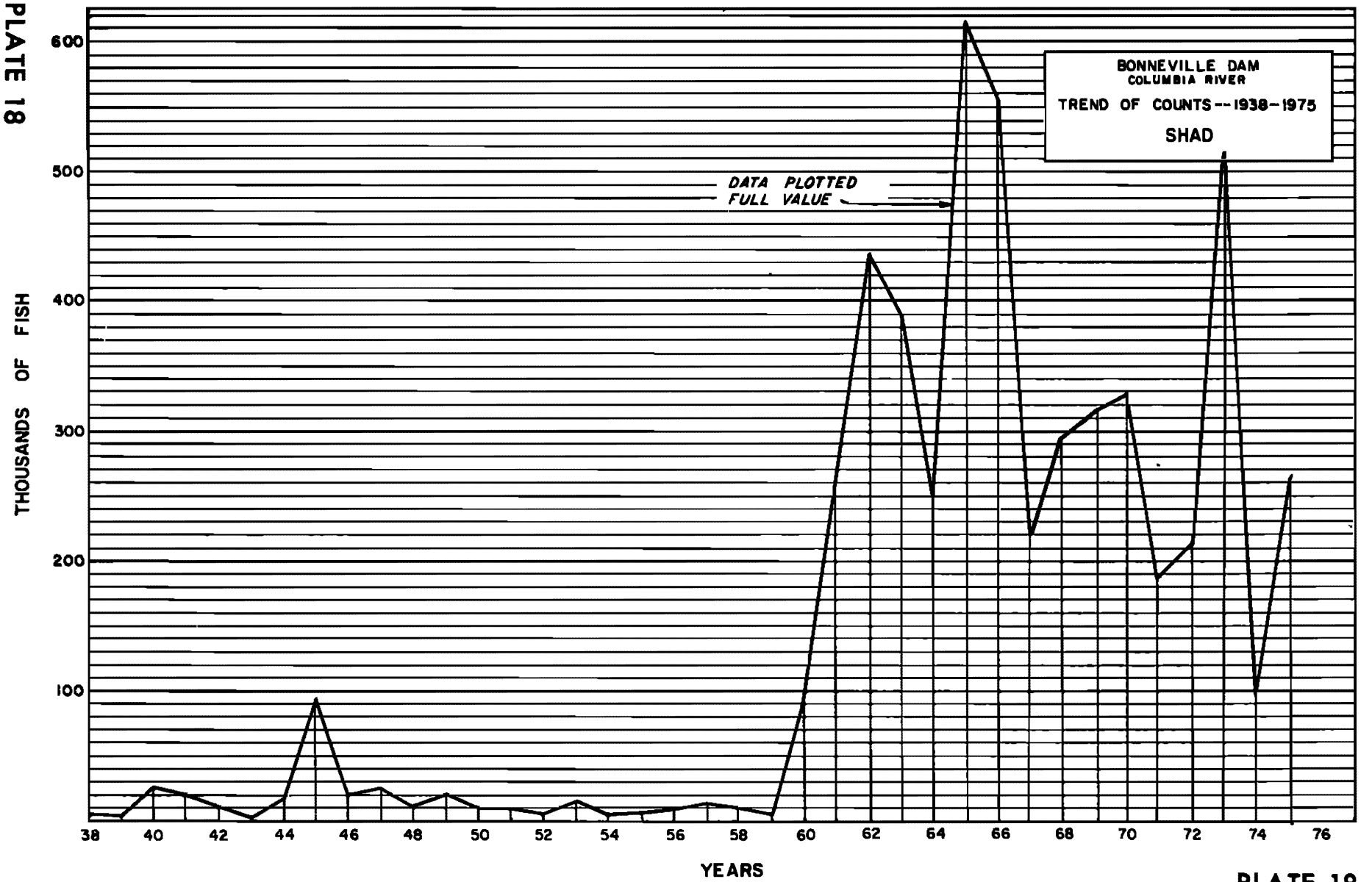


PLATE 18

PLATE 18

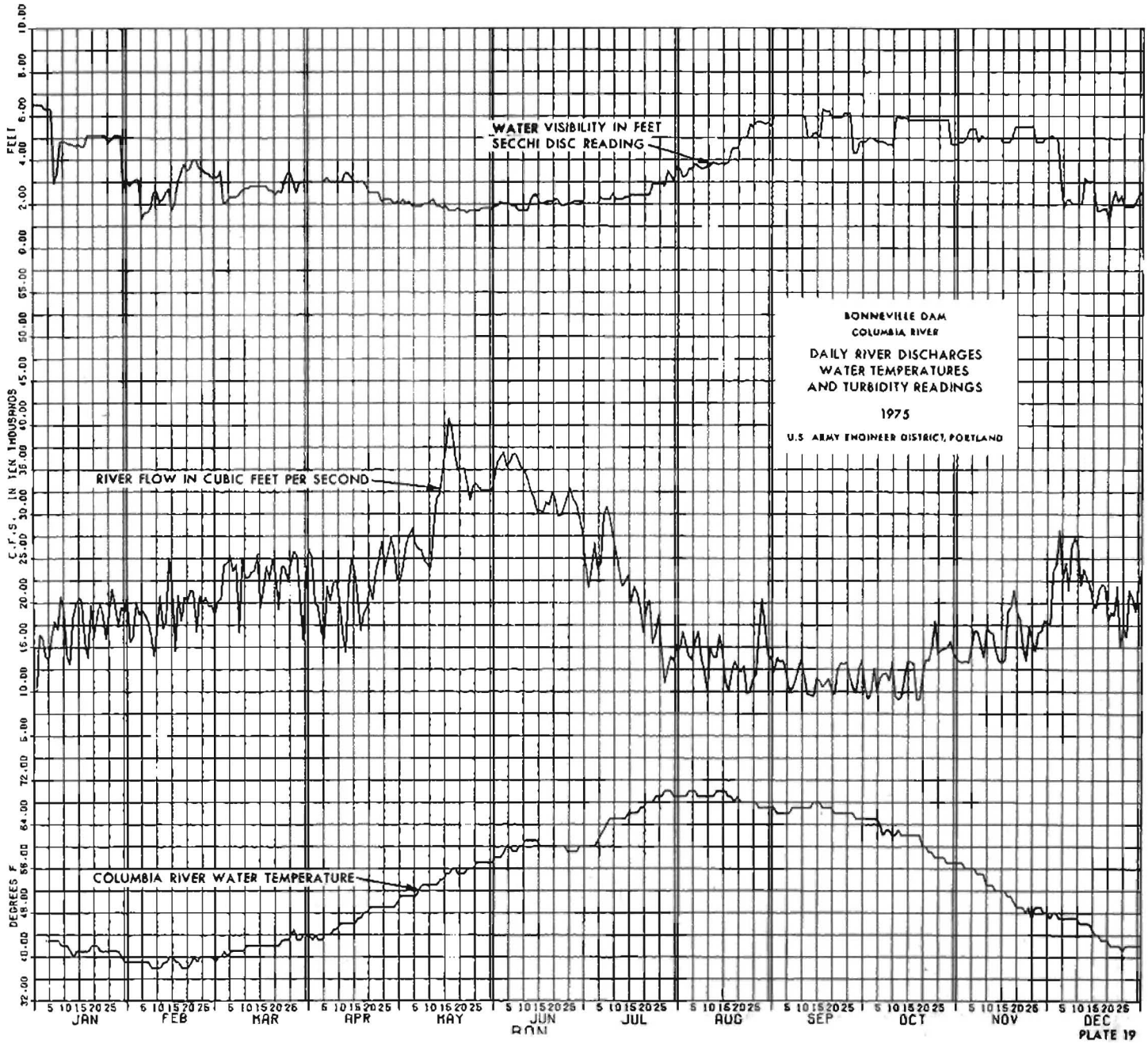
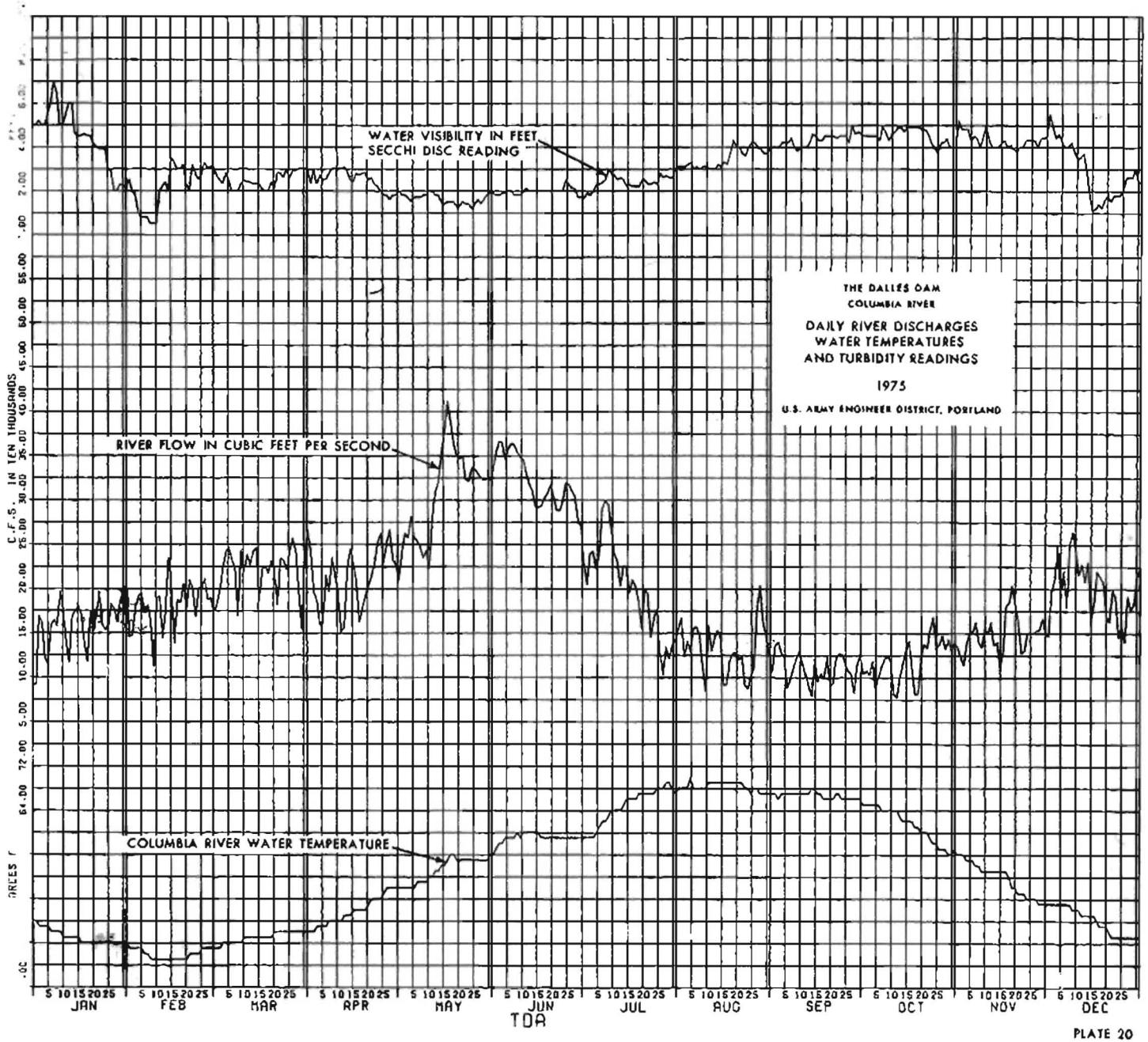


PLATE 19

PLATE 19


THE DALLES DAM
COLUMBIA RIVER
DAILY RIVER DISCHARGES
WATER TEMPERATURES
AND TURBIDITY READINGS
1975
U.S. ARMY ENGINEER DISTRICT, PORTLAND
WATER VISIBILITY IN FEET
SECCHI DISC READING
RIVER FLOW IN CUBIC FEET PER SECOND
COLUMBIA RIVER WATER TEMPERATURE
C.F.S. IN TEN THOUSANDS
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
TOA

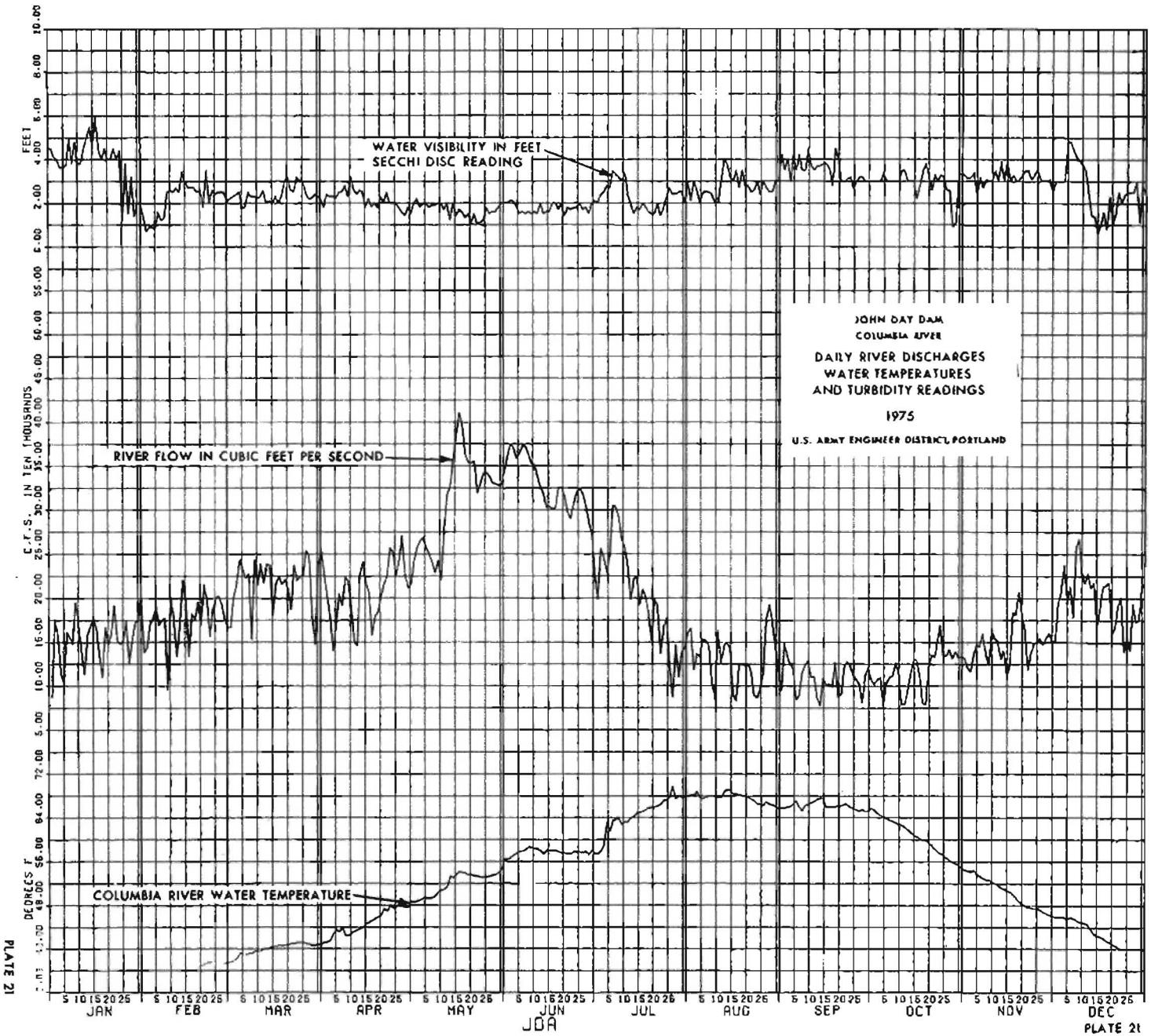
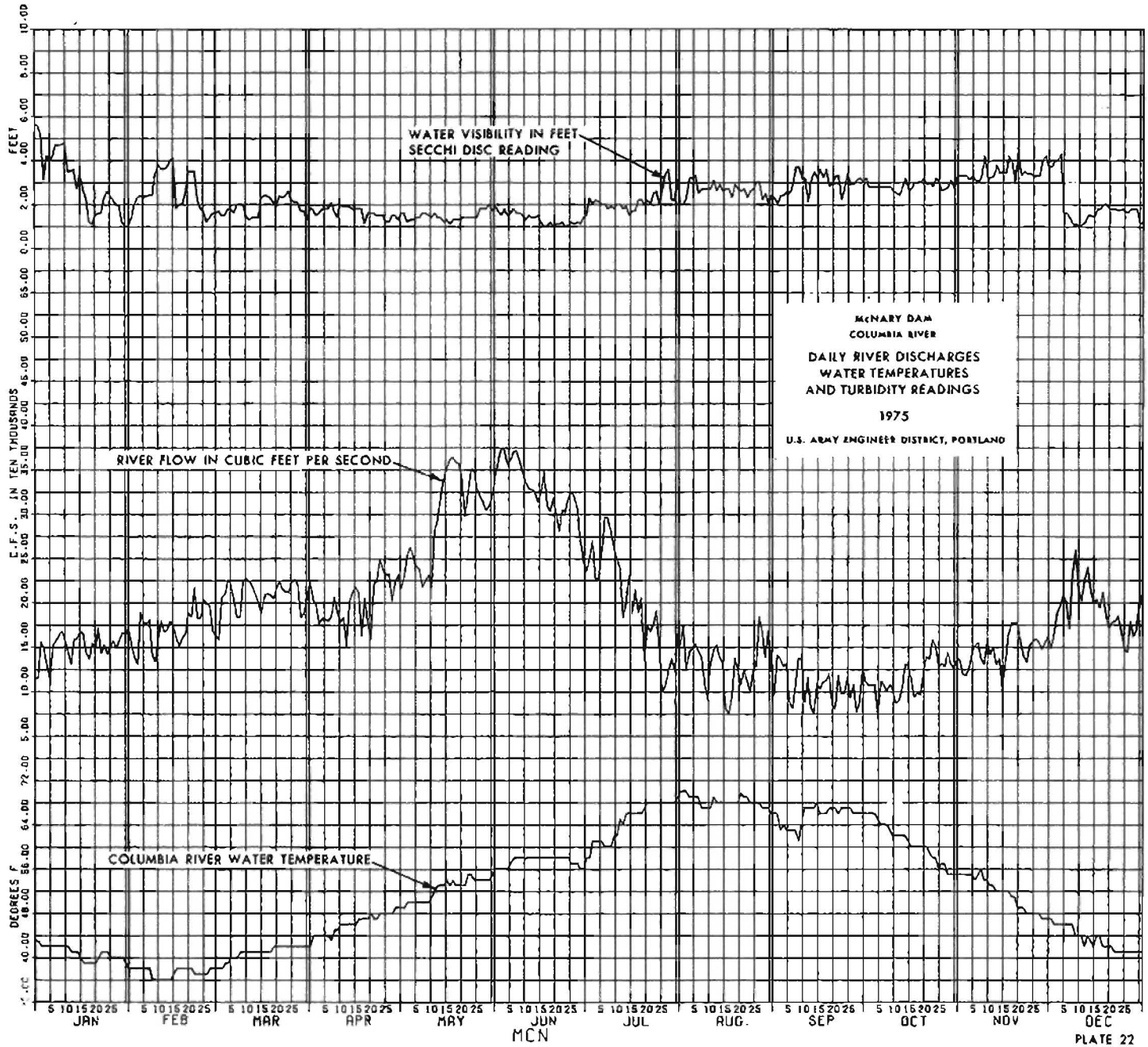

JOHN DAY DAM
COLUMBIA RIVER
DAILY RIVER DISCHARGES
WATER TEMPERATURES
AND TURBIDITY READINGS
1975
U.S. ARMY ENGINEER DISTRICT, PORTLAND
WATER VISIBILITY IN FEET
SECCHI DISC READING
RIVER FLOW IN CUBIC FEET PER SECOND
COLUMBIA RIVER WATER TEMPERATURE
FEET
C.F.S. IN TEN THOUSANDS
DEGREES F
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
JDA

PLATE 21


McNARY DAM
COLUMBIA RIVER
DAILY RIVER DISCHARGES
WATER TEMPERATURES
AND TURBIDITY READINGS
1975
U.S. ARMY ENGINEER DISTRICT, PORTLAND
WATER VISIBILITY IN FEET
SECCHI DISC READING
RIVER FLOW IN CUBIC FEET PER SECOND
COLUMBIA RIVER WATER TEMPERATURE
FEET
E.F.S. IN TEN THOUSANDS
DEGREES F
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG.
SEP
OCT
NOV
DEC
MCN

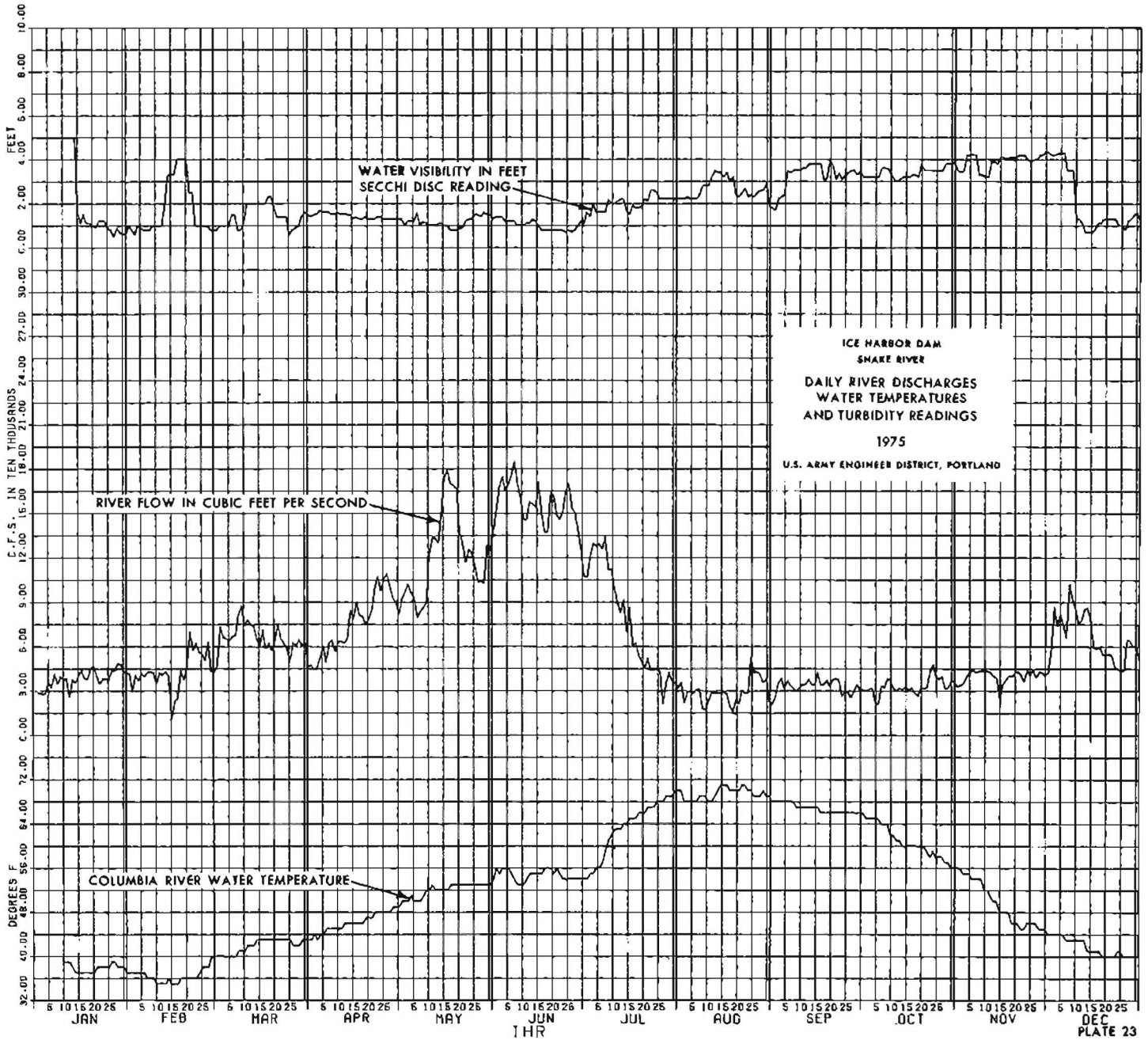


PLATE 23

PLATE 23

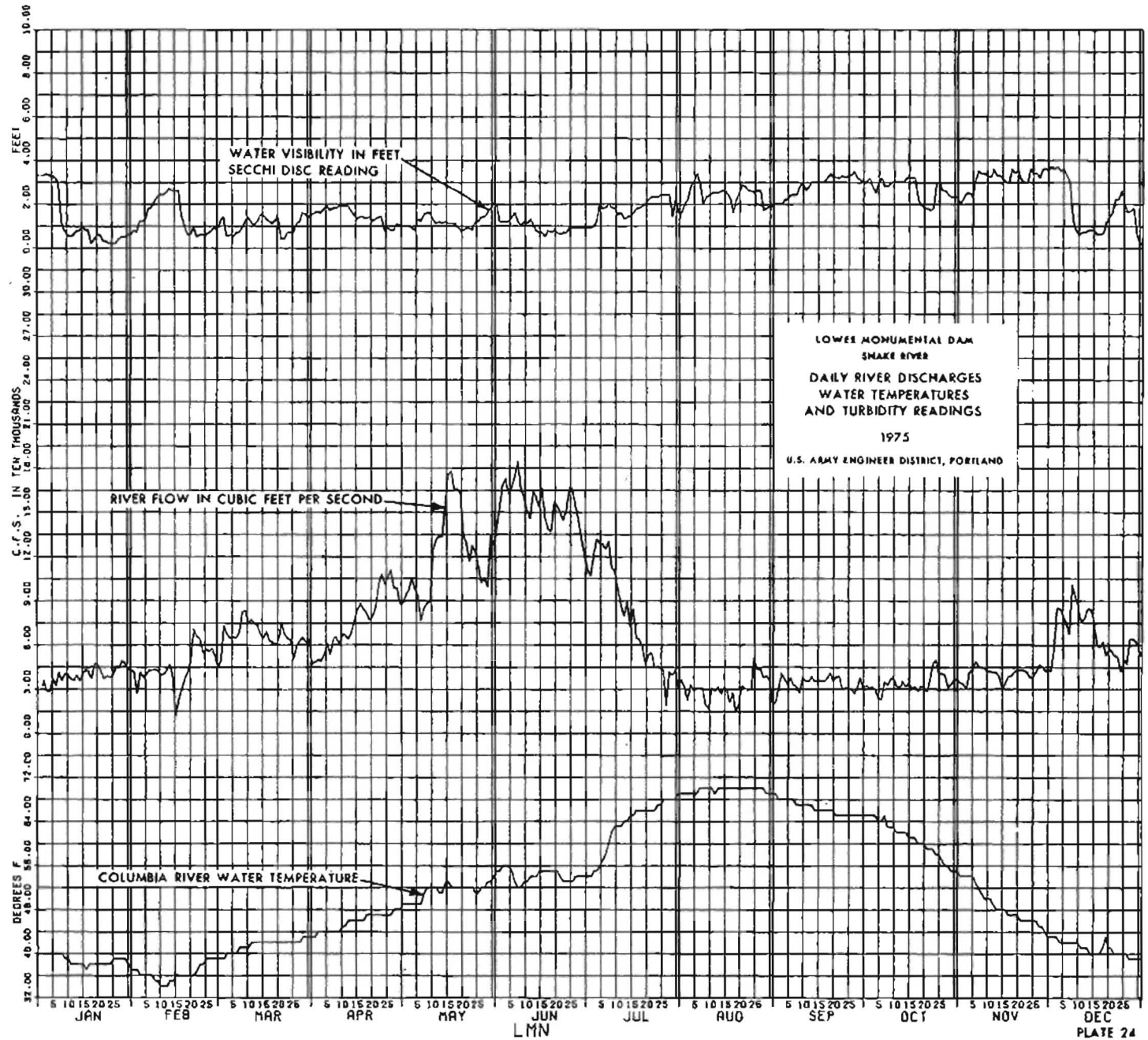


PLATE 24

PLATE 24

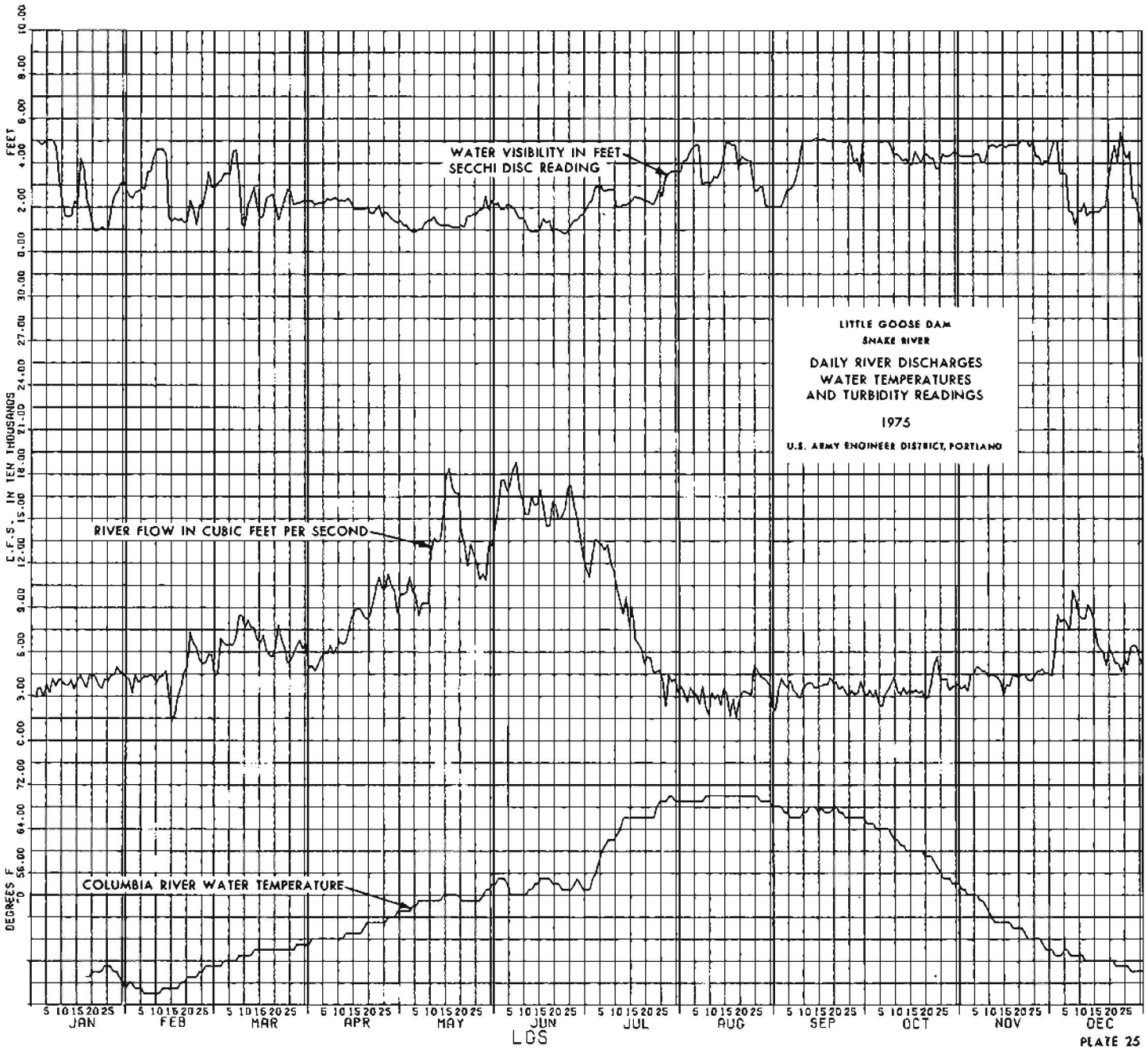


PLATE 25

PLATE 25

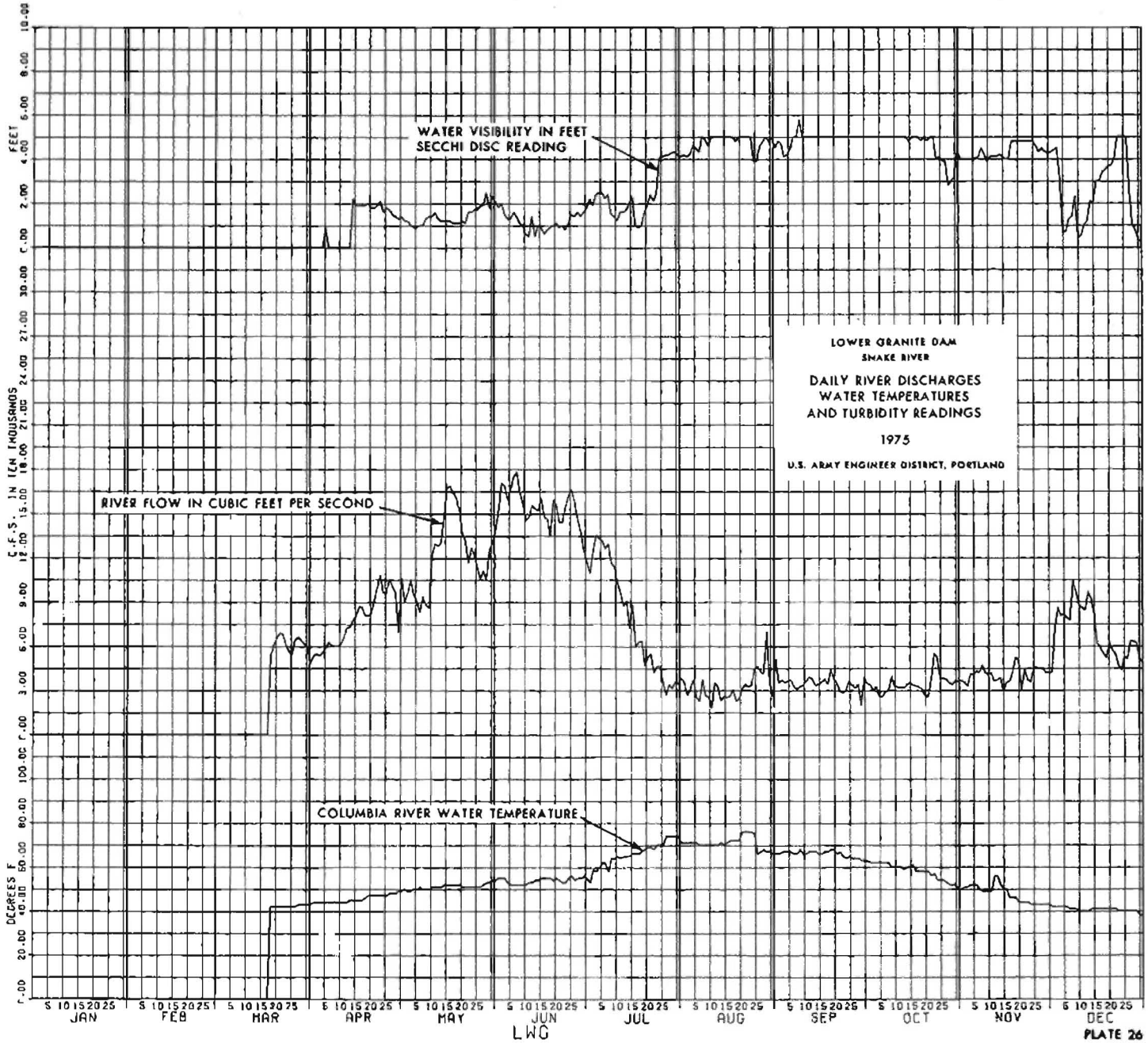
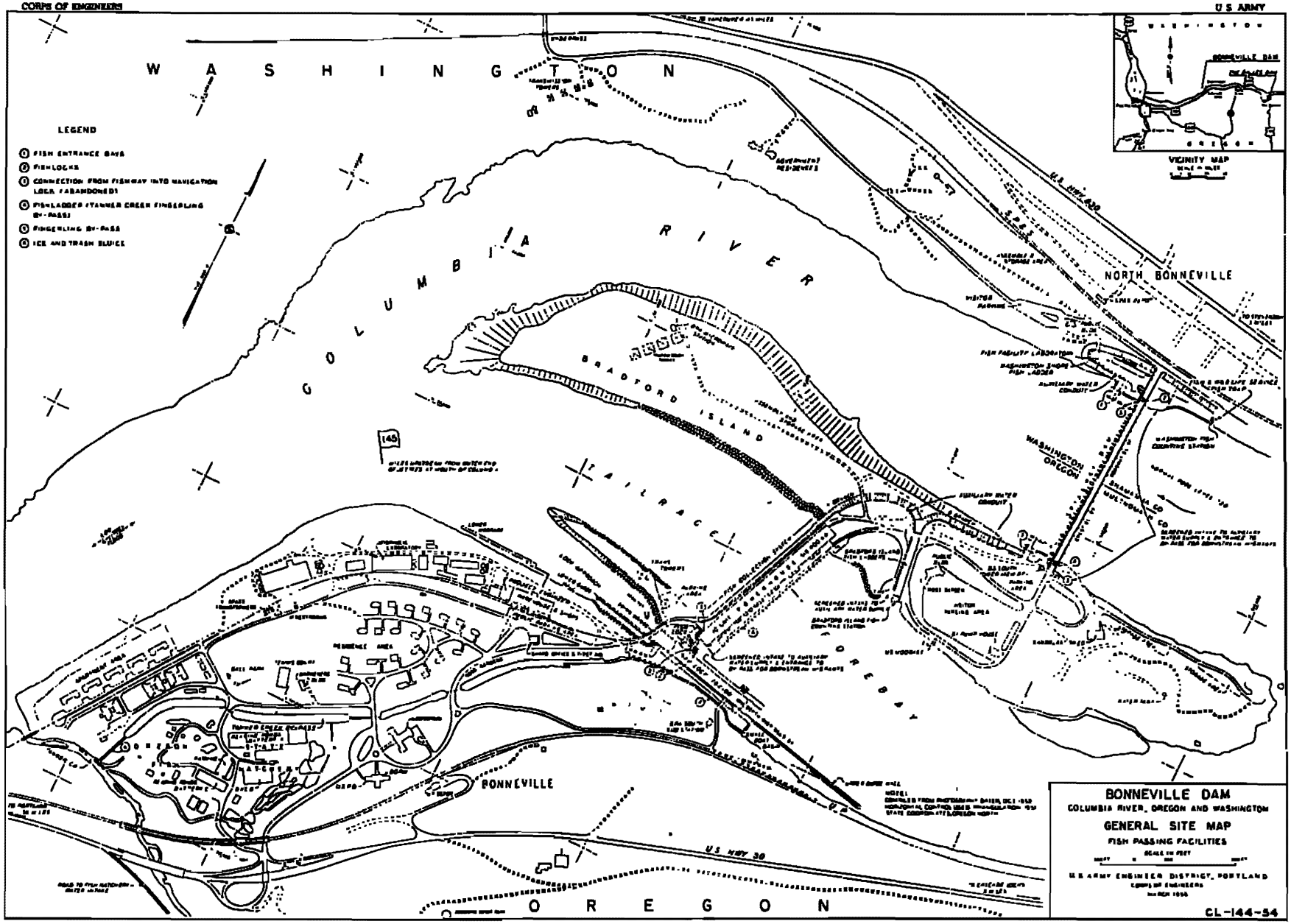
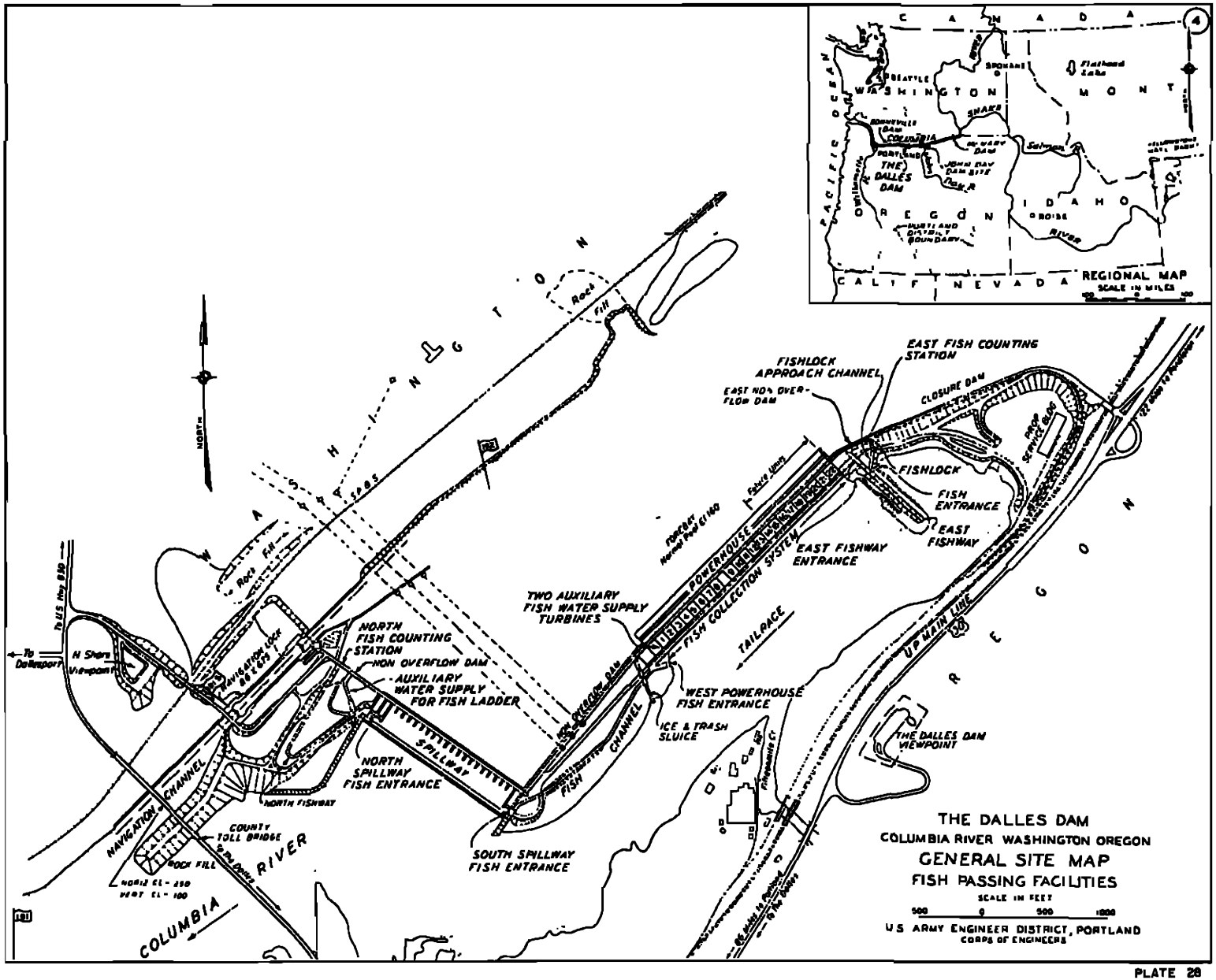
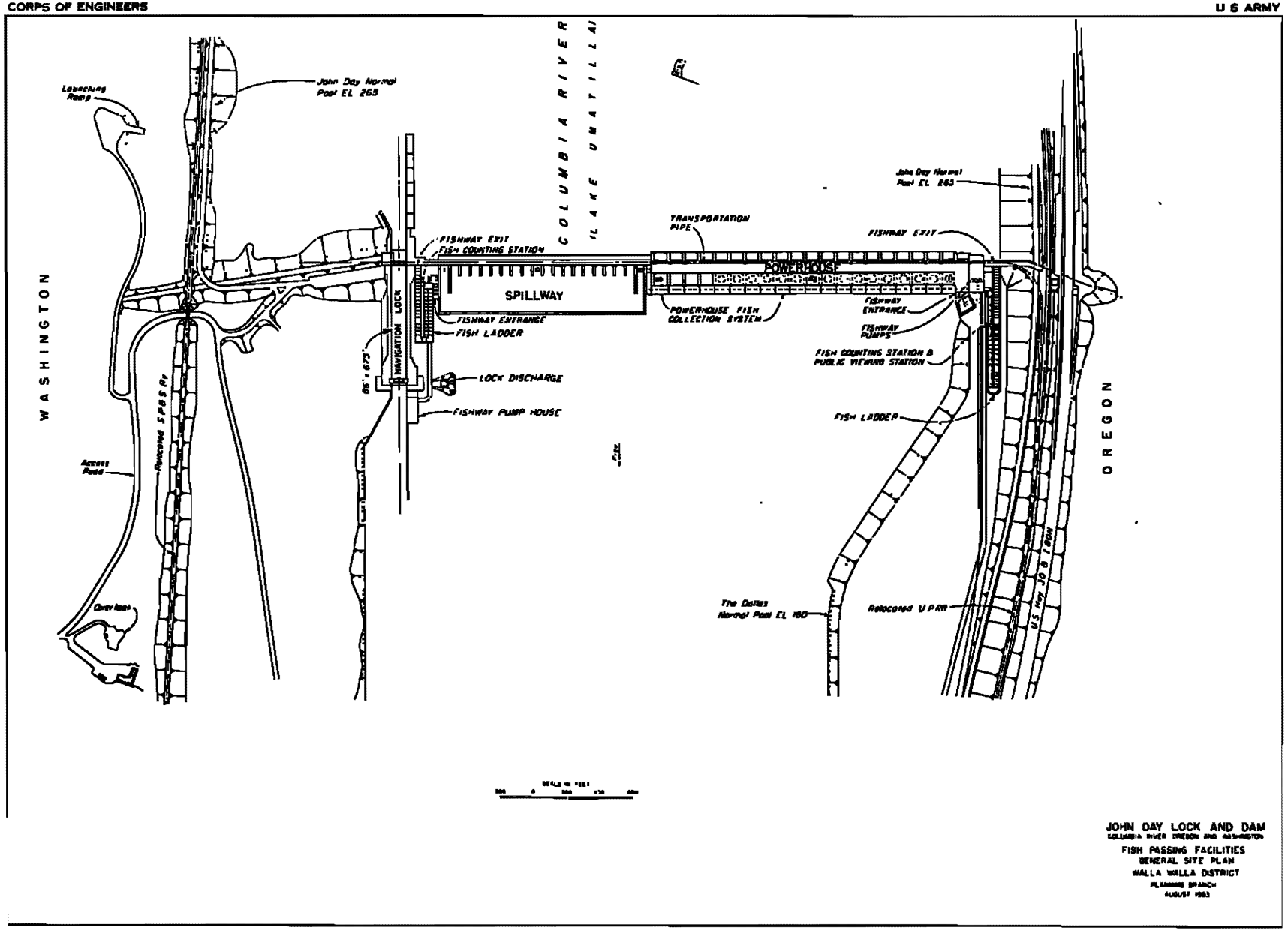


PLATE 26

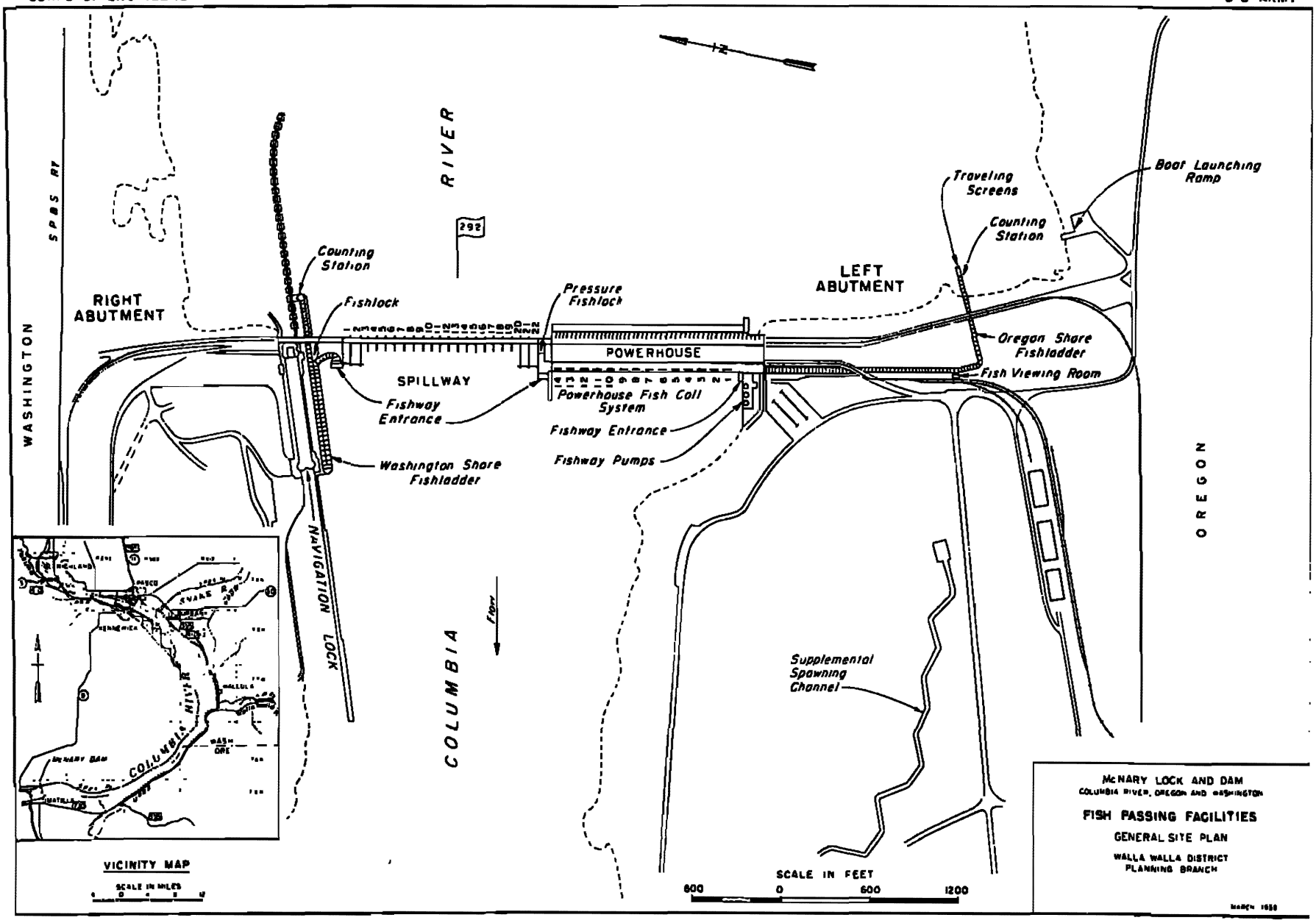
PLATE 26


WASHINGTON
LEGEND
FISH ENTRANCE BAYS
FISHLOCKS
CONNECTION FROM FISHWAY INTO NAVIGATION LOCK (ABANDONED)
FISHLADDER (TANNER CREEK FINGERLING BY-PASS)
FINGERLING BY-PASS
ICE AND TRASH SLUICE
COLUMBIA RIVER
BRADFORD ISLAND
TAILRACE
NORTH BONNEVILLE
WASHINGTON
OREGON
BONNEVILLE
U.S. HWY 30
OREGON
VICINITY MAP
BONNEVILLE DAM
COLUMBIA RIVER, OREGON AND WASHINGTON
GENERAL SITE MAP
FISH PASSING FACILITIES
U.S. ARMY ENGINEER DISTRICT, PORTLAND
CORPS OF ENGINEERS
CL-144-54


THE DALLES DAM
COLUMBIA RIVER WASHINGTON OREGON
GENERAL SITE MAP
FISH PASSING FACILITIES
SCALE IN FEET
500 0 500 1000
U S ARMY ENGINEER DISTRICT, PORTLAND
CORPS OF ENGINEERS
REGIONAL MAP
SCALE IN MILES
CANADA
WASHINGTON
OREGON
IDAHO
MONT
CALIF
NEVADA
PACIFIC OCEAN
SEATTLE
SPOKANE
PORTLAND
BONNEVILLE DAM
COLUMBIA
SNAKE
THE DALLES DAM
JOHN DAY DAM SITE
BOISE
NORTH
EAST FISH COUNTING STATION
FISHLOCK APPROACH CHANNEL
EAST NON OVERFLOW DAM
CLOSURE DAM
FISHLOCK
FISH ENTRANCE
EAST FISHWAY
EAST FISHWAY ENTRANCE
POWERHOUSE
FISH COLLECTION SYSTEM
TWO AUXILIARY FISH WATER SUPPLY TURBINES
TAILRACE
WEST POWERHOUSE FISH ENTRANCE
ICE & TRASH SLUICE
NORTH FISH COUNTING STATION
NON OVERFLOW DAM
AUXILIARY WATER SUPPLY FOR FISH LADDER
NORTH SPILLWAY FISH ENTRANCE
SPILLWAY
SOUTH SPILLWAY FISH ENTRANCE
NORTH FISHWAY
NAVIGATION CHANNEL
COUNTY TOLL BRIDGE
ROCK FILL
COLUMBIA RIVER
UP MAIN LINE
THE DALLES DAM VIEWPOINT
To Dallesport
H Shore Viewpoint
To US Hwy 830

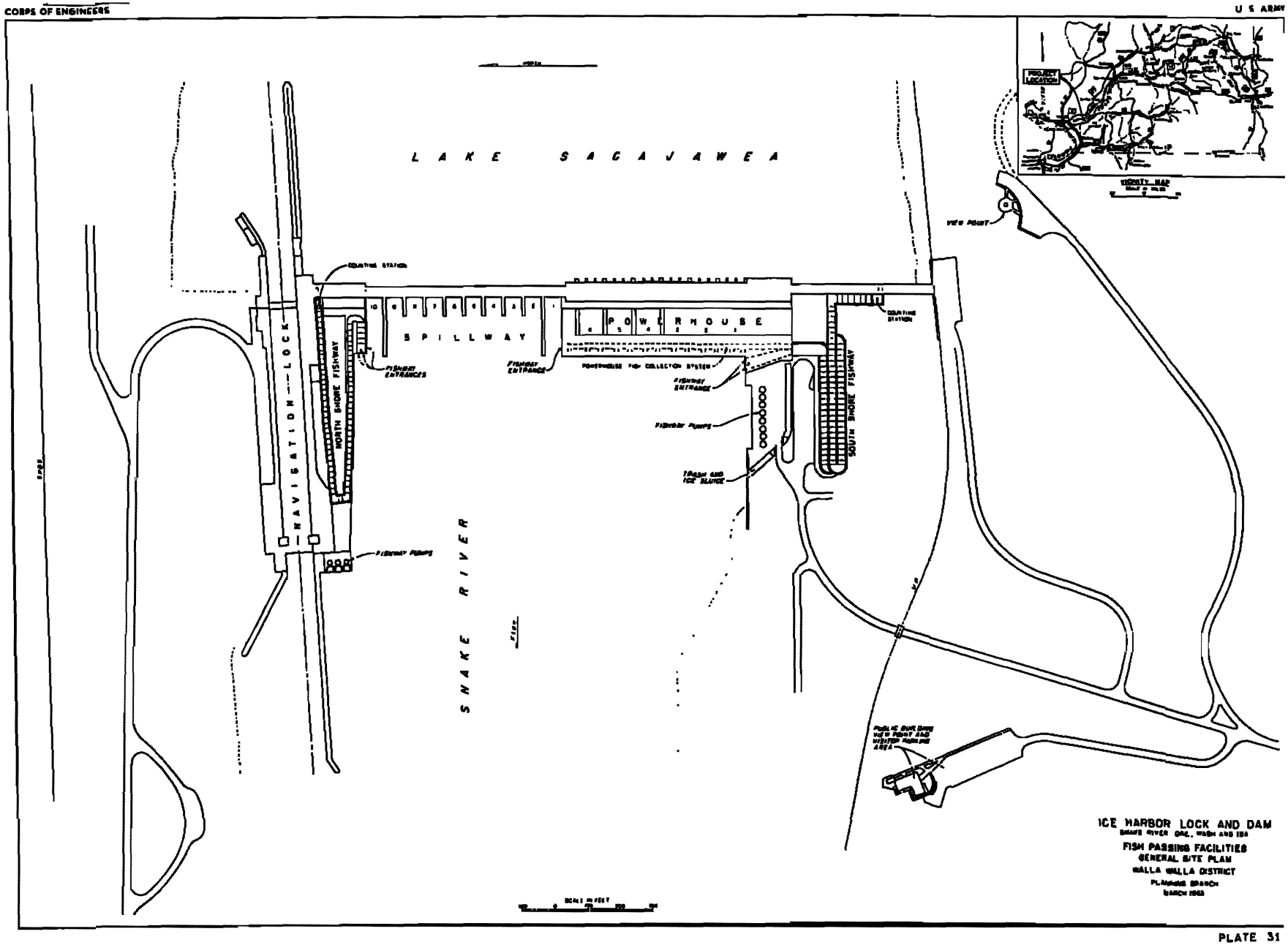


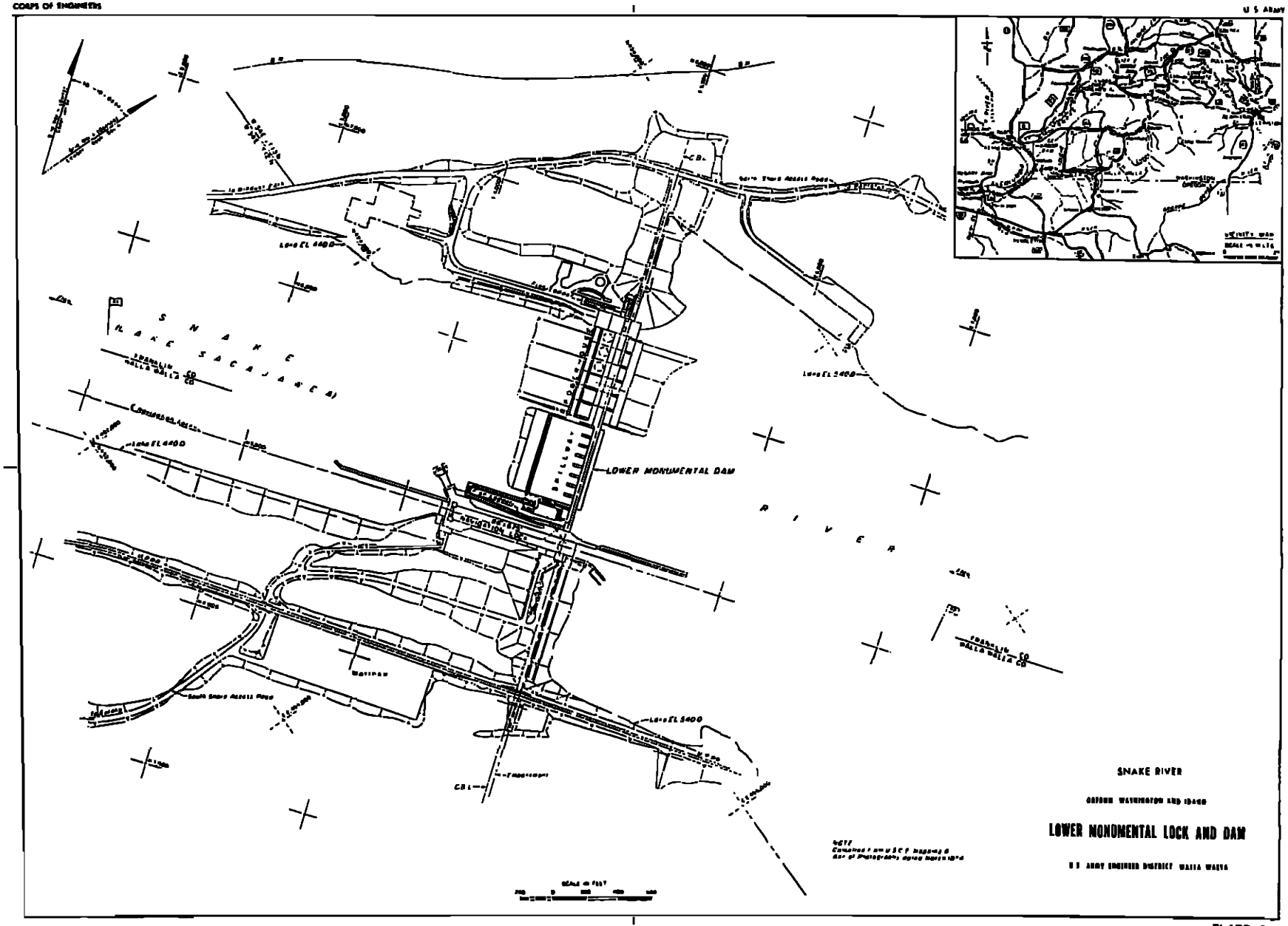
JOHN DAY LOCK AND DAM
COLUMBIA RIVER OREGON AND WASHINGTON
FISH PASSING FACILITIES
GENERAL SITE PLAN
WALLA WALLA DISTRICT
PLANNING BRANCH
AUGUST 1963

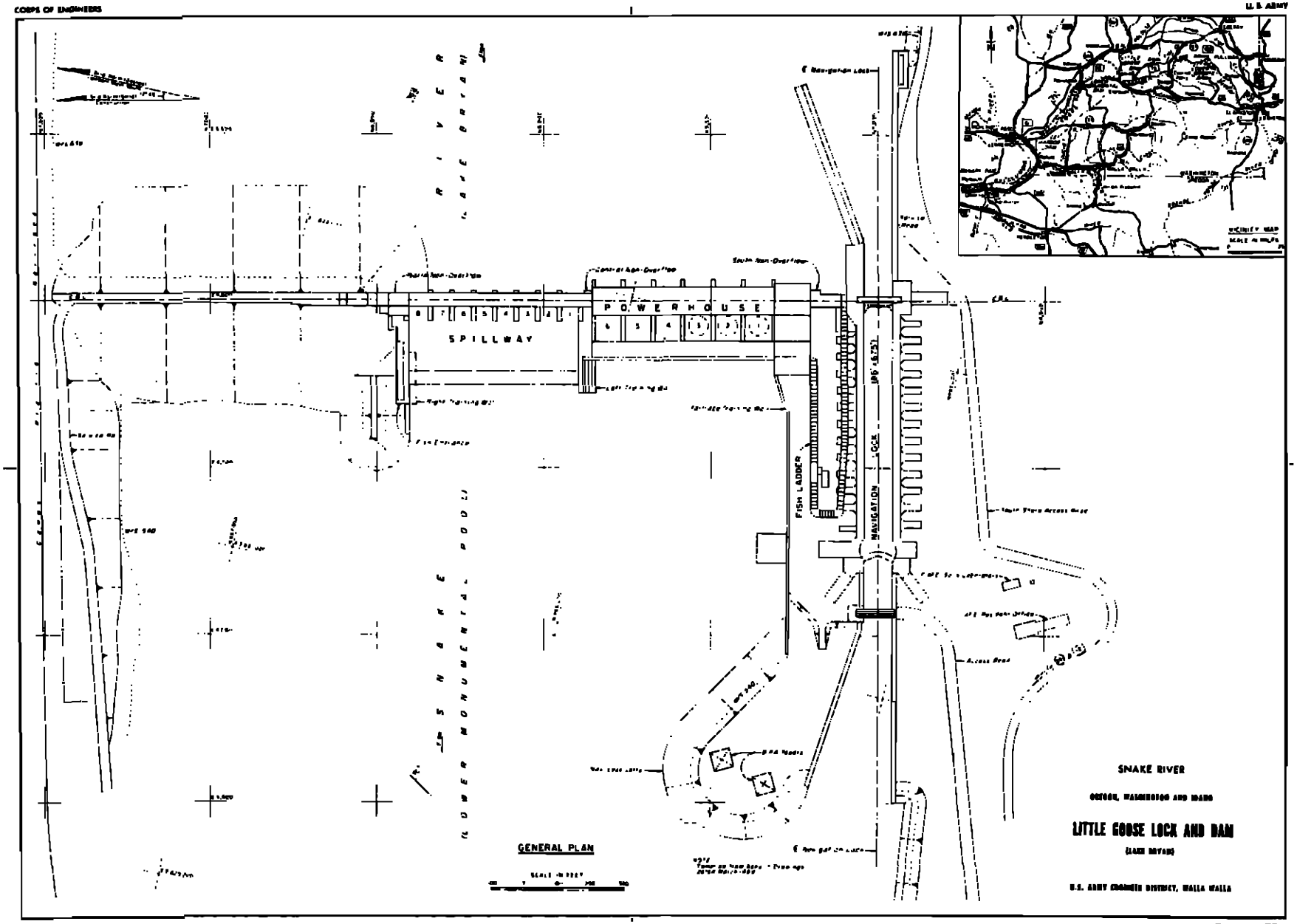

WASHINGTON
SPBS RY
RIGHT ABUTMENT
Counting Station
Fishlock
292
RIVER
Pressure Fishlock
POWERHOUSE
SPILLWAY
Fishway Entrance
Powerhouse Fish Coll System
Fishway Entrance
Fishway Pumps
Washington Shore Fishladder
NAVIGATION LOCK
COLUMBIA
Flow
LEFT ABUTMENT
Traveling Screens
Counting Station
Boat Launching Ramp
Oregon Shore Fishladder
Fish Viewing Room
OREGON
Supplemental Spawning Channel
VICINITY MAP
SCALE IN MILES
SCALE IN FEET
600 0 600 1200
McNARY LOCK AND DAM
COLUMBIA RIVER, OREGON AND WASHINGTON
FISH PASSING FACILITIES
GENERAL SITE PLAN
WALLA WALLA DISTRICT
PLANNING BRANCH
MARCH 1958

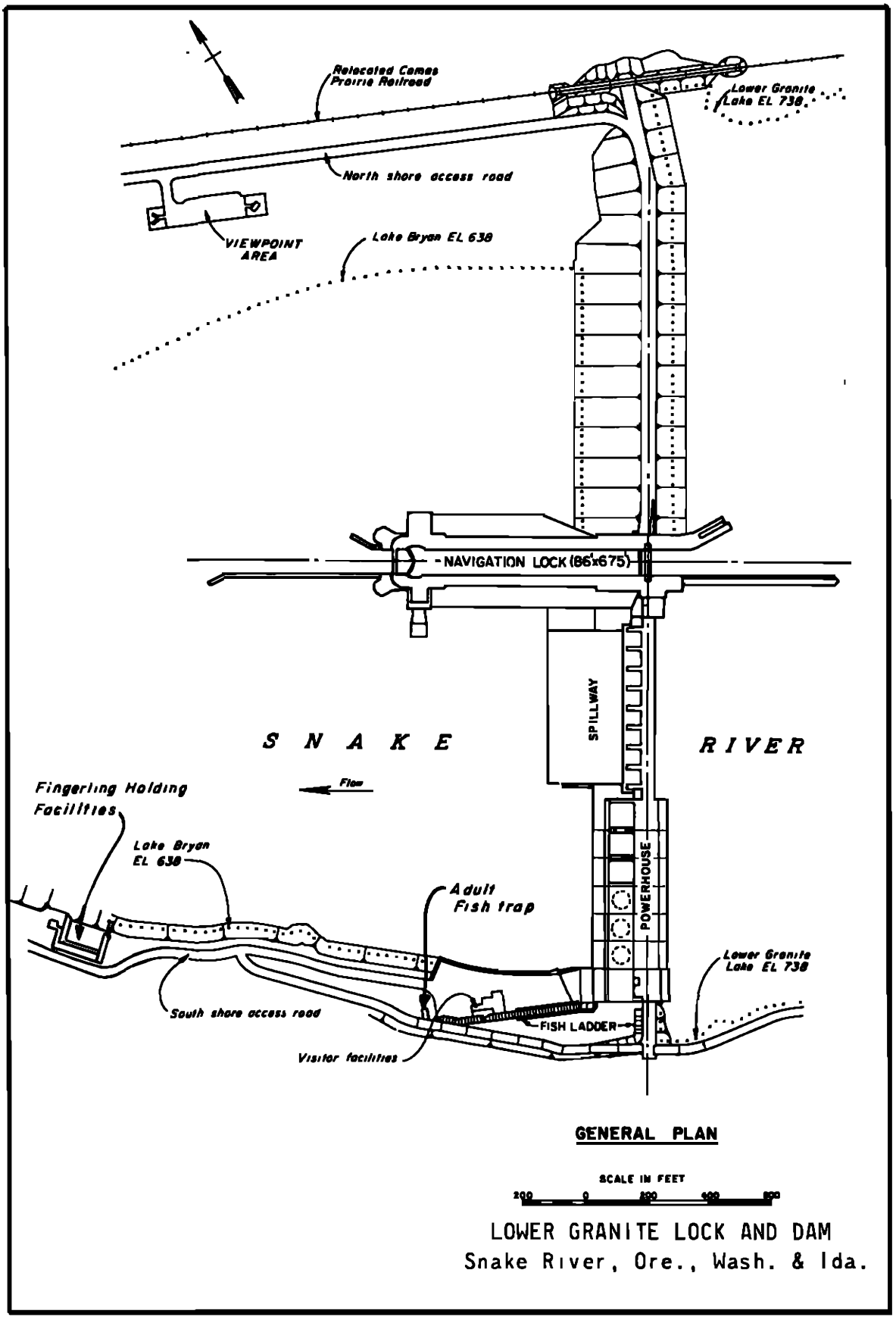
CORPS OF ENGINEERS

U S ARMY




SNAKE RIVER
LAKE SACAJAWEA
LOWER MONUMENTAL DAM
SPILLWAY
POWER PLANT
LOCK
ARCHITECT'S WORK
SCALE IN MILES
SNAKE RIVER
OREGON WASHINGTON AND IDAHO
LOWER MONUMENTAL LOCK AND DAM
U.S. ARMY ENGINEER DISTRICT WALLA WALLA


POWERHOUSE
SPILLWAY
FISH LADDER
NAVIGATION LOCK
LOWER MONUMENTAL POOL
SNAKE RIVER
GENERAL PLAN
SNAKE RIVER
OREGON, WASHINGTON AND IDAHO
LITTLE GOOSE LOCK AND DAM
(LAKE BRYAN)
U.S. ARMY ENGINEER DISTRICT, WALLA WALLA



LOWER GRANITE LOCK AND DAM
Snake River, Ore., Wash. & Ida.

GDG-1-0-1/14