

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Salmon Falls

NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
79_2
DATA SHEET NO.

DAM	1. OWNER Salmon River Canal Co.		2. RIVER Salmon Falls Cr.		3. STATE Idaho			
	4. SEC. 18 TWP. T14S RANGE R15E		5. NEAREST TOWN Rogerson		6. COUNTY Twin Falls			
	7. STREAM BED ELEV. ---		8. TOP OF DAM ELEV. 4,952.0		9. SPILLWAY CREST ELEV. 4865.6			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL				229,650	1910		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION	4,945.6	3,400	182,650				
	e. CONSERVATION					1911		
f. INACTIVE	4,865.6		47,000					
17. LENGTH OF RESERVOIR 12 MILES			AV. WIDTH OF RESERVOIR 0.25 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 1,560 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 1,555 SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES			
	20. LENGTH MILES; AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF		AC.-FT.			
	21. MAX. ELEV. MIN. ELEV.		25. CLIMATIC CLASSIFICATION Semi-arid					
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE- FEET	33. C/W RATIO AC.-FT. PER SQ. MI.
	Oct. 10-13, 1955	45.0	45.0	R ⁻	14 154 M	3,400 3,400 <u>1/</u>	229,650 227,282	147 146.
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC.-FT.	
		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE		
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	Oct. 10-13, 1955	2,368	52.6	0.034	2,368	52.6	0.034	
	26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW P PM	
			a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE.
Oct. 10-13, 1955	50 <u>2/</u>	37	37	0.023	1.03			

1/ At maximum operating level
2/ Estimated

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES	
Soil Conservation Service Portland, Oregon	
48. AGENCY SUPPLYING DATA	49. DATE <u>9/22/61</u>

SUBJECT **Reservoir Sedimentation Data Summary Sheet, Item 45**

PROJECT **Arrowrock Reservoir, Boise Project, Idaho**

COMPUTED BY **D.W.H.**
DATE **2/18/52**

CHECKED BY _____
DATE _____

SOURCE OF DATA **Project Histories and Water Supply Papers**

Year	Water Range In Reservoir Operation		Inflow	
	Max. Elev.	Min. Elev.	Acres	Feet
1915	3183.3	2956.0	1,040	000
1916	3212.0	3015.6	2,190	000
1917	3212.0	3123.0	2,070	000
1918	3211.1	2971.0	1,740	000
1919	3212.8	2956.0	1,113	260
1920	3212.5	2956.0	1,368	191
1921	3213.2	2956.0	1,357	109
1922	3213.1	2956.0	2,156	714
1923	3213.5	2956.0	1,576	524
1924	3140.5	2956.0	821	043
1925	3211.2	2956.0	2,091	745
1926	3198.8	2956.0	1,002	188
1927	3213.1	2956.0	2,323	884
1928	3213.8	3004.0	2,120	692
1929	3213.8	2956.0	1,188	728
1930	3212.5	2956.0	1,247	675
1931	3166.5	2956.0	811	865
1932	3212.6	2956.0	1,680	516
1933	3213.4	2956.0	1,421	714
1934	3207.6	2956.0	969	891
1935	3213.6	2956.0	1,410	824
1936	3214.0	2956.0	1,748	840
1937	3218.8	2956.0	1,042	395
1938	3214.3	2993.5	2,280	802
1939	3219.0	3047.0	1,223	207
1940	3218.6	3035.0	1,427	993
1941	3218.9	3085.1	1,259	158
1942	3218.7	2956.0	1,501	565
1943	3218.8	2956.0	3,006	000
1944	3218.4	3034.0	1,198	000
1945	3218.9	3007.8	1,149	000
1946	3216.9	3024.0	2,025	000
1947	3219.0	3112.0	1,692	000