

RESERVOIR SEDIMENTATION
DATA SUMMARY

Orchard Reservoir

78-1

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Orchard Irrig. District			2. RIVER Indian Creek			3. STATE Idaho				
	4. SEC. 31 TWP. 1 N RANGE 4 E			5. NEAREST TOWN Boise			6. COUNTY Ada				
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.				
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					1892					
	b. POWER										
	c. WATER SUPPLY										
	d. IRRIGATION		125	4,737	4,737	16. DATE NORMAL OPER. BEGAN					
	e. CONSERVATION										
	f. INACTIVE					1892					
WATERSHED	17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR			MILES			
	18. TOTAL DRAINAGE AREA			43	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			15-24	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA			42.8	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF			AG.-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.			
	1892	-	-	-	-	125	4,737	110			
	June 27, 1947	55	55	Range Recon.	5	125	4,668	109			
	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				
	June 27, 1947	69	1.25	0.03	69	1.25	0.03				
	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 PPM				
			a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
June 27, 1947				0.026	1.46						

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

Region 7, Soil Conservation Service
U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Portland, Oregon 49. DATE June 7, 1950