

RESERVOIR SEDIMENTATION
DATA SUMMARY

Twin Puddles Pond

NAME OF RESERVOIR

78-9

DATA SHEET NO.

Pliocene volcanics

DAM	1. OWNER <u>Twin Puddles</u>			2. RIVER <u>Boise River</u>			3. STATE <u>Idaho</u>					
	4. SEC. <u>36</u> TWP. <u>2N</u> RANGE <u>1E</u>			5. NEAREST TOWN <u>Boise</u>			6. COUNTY <u>Ada</u>					
	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										1941	
	b. POWER											
	c. WATER SUPPLY				3.15		7.82		7.82		16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE										1941	
WATERSHED	17. LENGTH OF RESERVOIR <u>.04</u> MILES				AV. WIDTH OF RESERVOIR <u>.09</u> MILES							
	18. TOTAL DRAINAGE AREA <u>1.61</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>1.61</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>1.61</u> 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 <u>Semi-arid</u>							
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.			
	1941		-	-	-	-	3.15	7.82	4.86			
	9/27/51		10	10	-	-	3.15	7.52	4.67			
	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				
	9/27/51		.30	0.03	0.02	.30.	0.03	0.02				
	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.				
9/27/51		70*	30.49	30.49	0.38	3.84	-	-				

*Assumed

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

Flaxman, E. M. and Hobba, R. L. "Some Factors Affecting Rates of Sedimentation in the Columbia River Basin", March 1954, 20 pp., illus. Being processed for publication.