

Col. R. Bassett

RESERVOIR SEDIMENTATION DATA SUMMARY

High Valley Ranch #3 Pond

NAME OF RESERVOIR

75-4

DATA SHEET NO.

DAM	1. OWNER High Valley Ranch			2. RIVER Wenas Creek			3. STATE Washington			
	4. SEC. 23 TWP. 16N RANGE 18E			5. NEAREST TOWN Ellensburg			6. COUNTY Kittitas			
	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					1940				
	b. POWER									
	c. WATER SUPPLY		0.28	1.53	1.53	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					1940				
	f. INACTIVE									
17. LENGTH OF RESERVOIR .02 MILES			AV. WIDTH OF RESERVOIR .02 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA .312 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 11 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA .312 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.		
	1940	-	-	-	-	0.28	1.53	4.9		
	10/17/51	11	11	Range Detailed	2	0.28	1.42	4.6		
	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			
	10/17/51	0.11	0.01	0.03	0.11	0.01	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		
10/17/51	*70	46.0	46.0	0.65	7.19	-	-			

*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
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.