

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

H. J. Andrews #1

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

NAME OF RESERVOIR

74-18

DATA SHEET NO.

DAM	1. OWNER USDA Forest Service			2. STREAM Trib. to Blue River			3. STATE Oregon								
	4. SEC. 6 TWP. 16S RANGE 5E			5. NEAREST P.O. Bl. River 5 SW			6. COUNTY Lane								
	7. LAT 44° 12' " LONG. 122° 15' "			8. TOP OF DAM ELEVATION 1502.3*			9. SPILLWAY CREST ELEV. 1500.0*								
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-Feet		14. GROSS STORAGE, ACRE-Feet		15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL										16. DATE NORMAL OPER. BEGAN Aug. 1965 ^{2/}				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN Aug. 1965 ^{2/}				
	e. IRRIGATION														
	f. CONSERVATION														
	g. INACTIVE <u>1/</u>		1500.0		0.049		0.12 ^{2/}		0.12 ^{2/}						
17. LENGTH OF RESERVOIR 0.012 MILES					AV. WIDTH OF RESERVOIR 0.0080 MILES										
WATERSHED	18. TOTAL DRAINAGE AREA 0.37 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 90.4 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 0.37 SQ. MI.				23. MEAN ANNUAL RUNOFF 49.7 ^{3/} INCHES										
	20. LENGTH 0.94 MILES		AV. WIDTH 0.42 MILES		24. MEAN ANNUAL RUNOFF 981 ^{3/} AC.-FT.										
	21. MAX. ELEV. 3,300				MIN. ELEV. 1,490*				25. ANNUAL TEMP.: MEAN 49.1 RANGE 0-100						
	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/I. RATIO, AC.-FT. PER AC.-FT.		
8/5/65		0	0	Detailed				0.049		0.12		.00012			
8/23/66		1.05	1.05	} 4/											
7/25/67		0.92	1.97 ^{4/}												
8/15/67-8/12/68		0.99	2.96 ^{4/}												
10/9/68-8/11/69		0.84	3.80 ^{4/}												
8/22/69-8/12/70		0.96	4.76 ^{4/}												
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				
8/23/66		67.40		980	980		1030								
7/25/67		80.32 ^{5/}		1088 ^{5/}	1088		1000								
8/12/68		82.49		965	965		955		Same		Same				
8/11/69		99.33		1403	1403		1162								
8/12/70		84.75													
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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				
8/23/66		0.0042	0.004		0.011		.0042		.004		0.011				
7/25/67		0.0725	0.079		0.214		.0767		.0389		.105				
8/12/68		0.089	0.090		0.243		.1657		.0560		.151				
8/11/69		0.103	0.123		0.332		.2687		.011		.191				
8/12/70		0.034	0.035		0.095		.3027		.0636		.1718				
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE						

* Partially estimated

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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						
Experimental watershed, 100% logged 1962-1966; Burned October 1966														
47. REMARKS AND REFERENCES														
<ol style="list-style-type: none"> 1/ Item 10g; Water yield and quality research; inflow=outflow over weir 2/ Items 15, 16; sediment removed annually in August beginning 1967 (logging completed 10/66). 3/ Items 23, 24; Direct measurement--before logging (52-62) 49.7; after logging (66-69), 56.2. 4/ Item 29; Bottom elevations on 3-foot grid. 5/ Item 34; For water year Sept. 30-Oct. 1. 														
48. AGENCY MAKING SURVEY Forest Service, Pacific NW Forest														
49. AGENCY SUPPLYING DATA " " " " " " " " " " " " " " " "														
												50. DATE 8/19/71		

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RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL					2/ Aug. 1965		
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY							
	e. IRRIGATION							
	f. CONSERVATION							
g. INACTIVE 1/	1500.0	0.049	0.12 2/	0.12 2/	2/ Aug. 1965			
WATERSHED	17. LENGTH OF RESERVOIR 0.012 MILES		AV. WIDTH OF RESERVOIR 0.0080 MILES					
	18. TOTAL DRAINAGE AREA 0.37 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 89.3 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.37 SQ. MI.		23. MEAN ANNUAL RUNOFF 54.9 INCHES					
	20. LENGTH 0.94 MILES		AV. WIDTH 0.42 MILES		24. MEAN ANNUAL RUNOFF 1084 AC.-FT.			
	21. MAX. ELEV. 2,300		MIN. ELEV. 1,490*		25. ANNUAL TEMP.: MEAN 49.1 RANGE 0-100			
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/I. RATIO, AC.-FT. PER AC.-FT.
	8-5-65	0	0	Detailed 3/		0.049	0.12	.00011
	8-23-66	1.05	1.05					
	7-25-67	.92	1.97					
	8-15-67 -							
	8-12-68	.99	2.96					
	10-9-68 -							
	8-11-69	.84	3.80					
	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		
	8-23-66	67.40	980	980	1030	980	1030	
	7-25-67	80.32	1088	1088	1000	2068	2030	
	8-15-67 -							
	8-12-68	82.49	965	965	955	3033	2985	
	10-9-68 -							
	8-11-69	99.33	1403	1403	1162	4436	4147	
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, 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		
8-23-66	.004	.004	.011	.004	.004	.011		
7-25-67	.073	.079	.214	.077	.083	.225		
8-15-67 -								
8-12-68	.089	.090	.243	.166	.173	.468		
10-9-68 -								
8-11-69	0.103	.123	.332	.269	.296	.80		
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	

*Partially estimated.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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
 1/ Item 10g; water yield and quality research; inflow=outflow over weir.
 2/ Items 15, 16; sediment removed annually in August beginning 1967 (logging completed 10/66).
 3/ Item 29; bottom elevations on 3-foot grid.
 4/ Item 34; for water year Sept. 30-Oct. 1.

48. AGENCY MAKING SURVEY Forest Service, Pacific NW Forest & Range Experiment Station
 49. AGENCY SUPPLYING DATA same as above
 50. DATE _____