

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

H. J. Andrews #2

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

74-19

DATA SHEET NO.

DAM	1. OWNER USDA, Forest Service			2. STREAM Trib. to Blue River		3. STATE Oregon												
	4. SEC. 32 TWP. 15S RANGE 5E			5. NEAREST P.O. Blue River 5SW		6. COUNTY Lane												
	7. LAT. 44° 12' " LONG. 122° 15' "			8. TOP OF DAM ELEVATION 1802*		9. SPILLWAY CRIST. ELEV. 1800*												
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										Aug. 1965							
	b. MULTIPLE USE																	
	c. POWER																	
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN							
	e. IRRIGATION																	
	f. CONSERVATION																	
g. INACTIVE 1/		1800		0.043		0.056		0.056		Aug. 1965								
WATERGATE	17. LENGTH OF RESERVOIR 0.0102				MILES				14. AV. WIDTH OF RESERVOIR 0.0085				MILES					
	18. TOTAL DRAINAGE AREA 0.233				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 90.4				INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.233				SQ. MI.				23. MEAN ANNUAL RUNOFF 56.0				INCHES					
	20. LENGTH 0.69				MILES				24. MEAN ANNUAL RUNOFF 696				AC.-FT.					
	21. MAX. ELEV. 3500				MIN. ELEV. 1790*				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.			
	8/30/65						Detailed				0.043		0.056		0.000080			
	8/24/66		.98		.98		2/				0.043		0.056		0.000080			
	7/25/67		.92		.92													
	8/14/67-8/12/68		.99		.99													
	8/12/69		1.00		1.00													
	8/11/70		1.00		1.00													
	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	
	8/24/66		67.403/		446 ^{3/}		446		455									
	7/25/67		80.32		524		524		570									
8/12/68		82.49		446		446		450		Same				Same				
8/12/69		99.33		797		797		797										
8/11/70		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						
8/24/66		0.00710		0.00724		0.0311												
7/25/67		0		0		0												
8/12/68		0.00031		0.00031		0.0013		Same		Same		Same						
8/12/69		0.00365		0.00365		0.0157												
8/11/70		0.00362		0.00362		0.0155												
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/ Item 29; Bottom elevations on 3-foot grid repeated annually.

3/ Items 34, 35; Water year Sept. 30-Oct. 1.

Forest Service, Pacific NW Forest
& Range Experiment Station

48. AGENCY MAKING SURVEY " " " " " "

49. AGENCY SUPPLYING DATA " " " " " "

50. DATE 8/19/71

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	4. SEC. 32 TWP. 15S RANGE 5E		5. NEAREST P.O. Blue River 5SW		6. COUNTY			
	7. LAT. 44° 12' " LONG. 122° 15' "		8. TOP OF DAM ELEVATION 1802*		9. SPILLWAY CREST ELEV. 1800*			
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					Aug. 1965		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION							
g. INACTIVE 1/	1800	0.043	0.056	0.056		Aug. 1965		
WATERSHED	17. LENGTH OF RESERVOIR		0.0102	MILES	AV. WIDTH OF RESERVOIR		0.0085	MILES
	18. TOTAL DRAINAGE AREA		0.233	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		89.3	INCHES
	19. NET SEDIMENT CONTRIBUTING AREA		0.233	SQ. MI.	23. MEAN ANNUAL RUNOFF		54.5	INCHES
	20. LENGTH		0.69	MILES	AV. WIDTH		.039	MILES
	21. MAX. ELEV.		3500	MIN. ELEV.		1790*	25. ANNUAL TEMP.: MEAN 491 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.
	8-30-65-			Detailed		0.043	0.056	.000083
	8-24-66	.98	.98					
	7-25-67	.92	1.90	2/		0.043	0.056	.000083
	8-14-67-							
	8-12-68	1.00	2.90					
	8-12-69	1.0	3.90					
	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	
	8-30-65-							
	8-24-66	67.40	446	446	455	446	455	
	7-25-67	80.32	524	524	570	970	1025	
	8-14-67							
	8-12-68	82.49	446	446	450	1416	1475	
	8-12-69	99.33	797	797	797	2213	2272	
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		
8-30-65-								
8-24-66	.0071	.0072	.031	.0071	.0072	.031		
7-25-67	0	0	0	.0071	.0072	.031		
8-14-67-								
8-12-68	.0003	.0003	.001	.0074	.0075	.032		
8-12-69	.0037	.0037	.016	.0111	.0112	.048		
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.

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DAM	1. OWNER				2. STREAM		3. STATE							
	4. SEC.		TWP.		RANGE		5. NEAREST P. O.							
	7. LAT.		" LONG.		" "		8. TOP OF DAM ELEVATION							
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													
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY													
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN			
	f. CONSERVATION													
	g. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA				SQ. MI.		22. MEAN ANNUAL PRECIPITATION				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				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. ANNUAL TEMP: MEAN RANGE							
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.		
	8-11-70		1.00	4.90	Detailed 2/									
	8-4-71		.98	5.88										
	8-9-72		1.01	6.89										
	6-29-73		.89	7.78										
	7-10-74		1.03	8.81				0.043		0.056		.000083		
	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				
	8-11-70		84.43		599	599	603		2812	2875				
	8-4-71		102.07		772	772	767		3584	3642				
	8-9-72		123.93		986	986	989		4570	4631				
	6-29-73		62.51		356	356	348		4926	4979				
	7-10-74		126.48		1041	1041	1045		5967	6024				
	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						
8-11-70		.0036	.0036	.016	.0147	.0148	.064							
8-4-71		.0065	.0066	.029	.0212	.0214	.093							
8-9-72		.0013	.0013	.006	.0225	.0227	.099							
6-29-73		.0184	.0207	.089	.0409	.0434	.188							
7-10-74		.0009	.0009	.004	.0418	.0443	.192							
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							

