

RESERVOIR SEDIMENT  
DATA SUMMARY

H. J. Andrews #3

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

74-20  
74-20

DATA SHEET NO.

25% of watershed logged 1962, 63; major slides 1965

DAM	1. OWNER USDA, Forest Service			2. STREAM Trib. to Bl. River			3. STATE Oregon									
	4. SEC. 32 TWP. 155 RANGE 5E			5. NEAREST P.O. Bl. River 5SW			6. COUNTY Lane									
	7. LAT 44° 12' " LONG 122° 15' "			8. TOP OF DAM ELEVATION 1602*			9. SPILLWAY CREST ELEV. 1600*									
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 Dec. 1965 <sup>2/</sup>					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION															
	f. CONSERVATION										16. DATE NORMAL OPER. BEGAN Dec. 1965 <sup>2/</sup>					
	g. INACTIVE <u>1/</u>		1600		0.020		0.061		0.061							
17. LENGTH OF RESERVOIR		0.0091		MILES		AV. WIDTH OF RESERVOIR		0.0040		MILES						
18. TOTAL DRAINAGE AREA		0.391		SQ. MI.		22. MEAN ANNUAL PRECIPITATION		90.4		INCHES						
19. NET SEDIMENT CONTRIBUTING AREA		0.391		SQ. MI.		23. MEAN ANNUAL RUNOFF		55.9		3/ INCHES						
20. LENGTH		1.0		MILES		AV. WIDTH		0.041		MILES						
21. MAX. ELEV.		3500		MIN. ELEV.		1590		25. ANNUAL TEMP: MEAN		49.1 RANGE 0-100°						
WATERSHED	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.	
	12/9/65-4/1/66		0.31		0.31		Detailed 4/									
	8/24/66-8/14/67		0.97		0.97											
	8/13/68		1.00		1.00						0.020		0.061		0.000052	
	8-12/69		1.00		1.00											
	8/26/69-8/11/70		0.96		0.96											
	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			
	4/1/66		67.40 <sup>5/</sup>		880 <sup>5/</sup>		880		785 <sup>6/</sup>		Same		Same			
	8/14/67		80.32		944		944		973		Same		Same			
8/13/68		82.49		840		840		840		Same		Same				
8/12/69		99.33		1276		1276		1276		Same		Same				
8/11/70		84.75								Same		Same				
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				
4/1/66		0.0188 <sup>6/</sup>														
8/14/67		0.0204		0.0210		0.054										
8/13/68		0.0159 <sup>7/</sup>		0.0159		0.041		Same		Same		Same				
8/12/69		0.0391 <sup>7/</sup>		0.0391		0.100										
8/11/70		0.0287 <sup>7/</sup>		0.0299		0.076										
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
Experimental Watershed 25% logged 1962-63, roads 1959.								

47. REMARKS AND REFERENCES

1/ Item 10g; water yield and quality research; inflow=outflow over weir.

2/ Item 15, 16; sediment removed in 1966 and 1969.

3/ Item 23; before drainage 25% logged in 1962-63.

4/ Item 29; bottom elevations on 3-foot grid repeated annually.

5/ Items 34, 35a, b; water yield Sept. 30-Oct. 31.

6/ Item 35c, 37; for 12/9/65 to 4/1/66 only.

48. AGENCY MAKING SURVEY 7/ Item 37; basin full in mid-winter--unknown loss greater than shown. 50. DATE 8/19/71

49. AGENCY SUPPLYING DATA

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

H. J. Andrews #3

NAME OF RESERVOIR

74-10

DATA SHEET NO.

DAM	1. OWNER <u>USDA, Forest Service</u>		2. STREAM <u>Trib. to Bl. River</u>		3. STATE <u>Oregon</u>											
	4. SEC. <u>32</u> TWP. <u>155</u> RANGE <u>5E</u>		5. NEAREST P.O. <u>Bl. River 5SW</u>		6. COUNTY <u>Lane</u>											
	7. LAT <u>44° 12' 12"</u> LONG. <u>15° ' "</u>		8. TOP OF DAM ELEVATION <u>1602*</u>		9. SPILLWAY CREST ELEV. <u>1600*</u>											
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES											
	a. FLOOD CONTROL															
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION															
	f. CONSERVATION															
g. INACTIVE <u>1/</u>		<u>1600</u>		<u>0.020</u>		<u>0.061</u>		<u>0.061</u>		15. DATE STORAGE BEGAN <u>2/ Dec. 1965</u>						
17. LENGTH OF RESERVOIR		<u>0.0091</u>		MILES		AV. WIDTH OF RESERVOIR		<u>0.0040</u>		MILES						
WATERSHED	18. TOTAL DRAINAGE AREA		<u>0.391</u>		SQ. MI.		22. MEAN ANNUAL PRECIPITATION		<u>89.3</u>		INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA		<u>0.391</u>		SQ. MI.		23. MEAN ANNUAL RUNOFF		<u>53.3</u>		INCHES					
	20. LENGTH		<u>1.0</u>		MILES		AV. WIDTH		<u>0.041</u>		MILES					
	21. MAX. ELEV.		<u>3500</u>		MIN. ELEV.		<u>1590*</u>		25. ANNUAL TEMP: MEAN		<u>49.7</u> RANGE <u>0-100°</u>					
	24. MEAN ANNUAL RUNOFF		<u>1110</u>								AC.-F.T.					
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.	
	12-9-65- 4-1-66		.31		.31		Detailed <u>3/</u>				0.020		0.061		.000055	
	8-24-66- 8-14-67		.97		1.28											
	8-13-68		1.00		2.28											
	8-12-69		1.00		3.28											
	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					
	12-9-65- 4-1-66		35.37		880		880		785		880		785			
	8-24-66- 8-14-67		80.32		944		944		973		1824		1758			
	8-13-68		82.49		840		840		840		2664		2598			
	8-12-69		99.33		1276		1276		1276		3940		3874			
	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			
	12-9-65- 4-1-66		.019		.061*		.156*		.019		.061		.156			
	8-24-66- 8-14-67		.020		.021		.054		.039		.082		.210			
8-13-68		.016		.016		.041		.055		.098		.251				
8-12-69		.039		.039		.100		.094		.137		.351				
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.





RESERVOIR SEDIMENT  
DATA SUMMARY

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H. J. Andrews #3 continued p. 4  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

74-20  
DATA SHEET NO.

DAM	1. OWNER				2. STREAM				3. STATE							
	4. SEC.		TWP.		RANGE		5. NEAREST P. O.				6. COUNTY					
	7. LAT.		" LONG.		8. TOP OF DAM ELEVATION				9. SPILLWAY CREST ELEV.							
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										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	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.-F.T.					
	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.		
8-30-78		1.04	12.02	Detailed 3/				0.020		0.061		.000055				
7-31-79		.92	12.94													
7-22-80		.98	13.92													
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						
8-30-78		98.68		1111	1111	1113		14096		14018						
7-31-79		73.24		859	859	865		14955		14883						
7-22-80		80.96		799	799	794		15754		15677						
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									
8-30-78		.018	.018	.045	.270	.319	.817									
7-31-79		.004	.004	.010	.274	.323	.827									
7-22-80		.003	.003	.008	.277	.326	.835									
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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									

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	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							
Experimental Watershed 25% logged 1962-63, roads 1959.															
47. REMARKS AND REFERENCES															
<p><u>1/</u> Item 10g; water yield and quality research; inflow-outflow over weir.</p> <p><u>2/</u> Item 15, 16; sediment removed in 1966 and 1969.</p> <p><u>3/</u> Item 29; bottom elevations on 3-foot grid repeated annually.</p> <p><u>4/</u> Item 37; basin full in mid-winter--unknown loss greater than shown.</p>															
48. AGENCY MAKING SURVEY				49. AGENCY SUPPLYING DATA											
				50. DATE _____											