SCS-ENG-34
REV. 12-71

RESERVOIR SEDIMENT DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Cooper Creek Reservoir
NAME OF RESERVOIR

73 - 7
DATA SHEET NO.

DAM

1. OWNER Sutherlin WCD	2. STREAM Cooper Creek	3. STATE Oregon
4. SEC. 22 TWP. 25 S RANGE 5W	5. NEAREST P.O. Sutherlin 2 SE	6. COUNTY Douglas
7. LAT 43 ° 22 ' 40 " LONG. 123° 17 ' 00"	8. TOP OF DAM ELEVATION 678.0	9. SPILLWAY CREST ELEV. 674.6

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	674.6	140	3275	3900	October 1968 2/
b. MULTIPLE USE					
c. POWER					16. DATE NORMAL OPER. BEGAN
d. WATER SUPPLY	630.0	45	500	625	
e. IRRIGATION					June 1969
f. CONSERVATION					
g. INACTIVE	613.0	16	125	125	

17. LENGTH OF RESERVOIR 1.61 MILES | AV. WIDTH OF RESERVOIR 0.14 MILES

WATERSHED

18. TOTAL DRAINAGE AREA 4.4 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 40	INCHES
19. NET SEDIMENT CONTRIBUTING AREA 4.18 SQ. MI.		23. MEAN ANNUAL RUNOFF 20	INCHES
20. LENGTH 4 MILES	AV. WIDTH 1.1 MILES	24. MEAN ANNUAL RUNOFF 4693	AC.-FT.
21. MAX. ELEV. 1914	MIN. ELEV. 590	25. ANNUAL TEMP.: MEAN 53° RANGE 40° - 68°	

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.
April 1971	--	--				3900	0.831
February 1977	5.8 3/	5.8	Range (Detailed)	16	140	3880	0.826

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 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
February 1977	20.0 4/	3.45	0.82	20.0	3.45	0.82

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
February 1977	80*	1437	1437	0.09	0.5	--	--

Assumed

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
February 1977	0	0	0	2	18	52	24	4	--	--	--	--

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														
February 1977	1	6	15	30	20	12	9	7	0	0	0	0	0	0	0

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/ Stream has two major branches in upper reaches.
2/ Date of initial impoundment.
3/ Original ranges established & surveyed in 4/71 to determine reservoir bottom; therefore, period between surveys is from 4/71 to 2/77
4/ Conclusion from 1977 survey report: "Sediment deposits in the reservoir are almost entirely from shoreline erosion."

Soils - Floodplain: Anlauf-Drain Uplands: Willakenzie-unnamed.
Geology - Umpqua Sedimentary rocks.

48. AGENCY MAKING SURVEY Soil Conservation Service
49. AGENCY SUPPLYING DATA Soil Conservation Service
50. DATE 10/25/78