

RESERVOIR SEDIMENT

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DATA SUMMARY

Ellsworth Tank

NAME OF RESERVOIR

61-5

DATA SHEET NO.

S-34 Rev. 6-66

DAM	1. OWNER LDS Ranch				2. STREAM Trib. Show Low Crk.				3. STATE Arizona			
	4. SEC. 30 TWP. 12N RANGE 21E				5. NEAREST P.O. Taylor				6. COUNTY Navajo			
	7. LAT. 34° 46' " LONG. 110° 8' "				8. TOP OF DAM ELEVATION				9. SPILLWAY CREST ELEV. 94.6*1			
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										1948	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY *0		94.6 *1		0.55		1.50		1.50		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
WATERSHED	g. INACTIVE											
	17. LENGTH OF RESERVOIR 0.45 MILES				AV. WIDTH OF RESERVOIR .028 MILES							
	18. TOTAL DRAINAGE AREA .25 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 12.46 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA .249 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.5 *2 INCHES							
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 6.67 *2 AC.-F.T.							
21. MAX. ELEV. 6000 *2				MIN. ELEV. 5950 *2				25. ANNUAL TEMP: MEAN 52°F RANGE 16-90°F *3				
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.	
	1948		--	--	--		--	.55	1.50		.23	
	8-22-68		20	20	Range		4	.55	1.27		.19	
	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		
	8-22-68		10.96									
	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			
	8-22-68		.23	.011	.044	.23		.011	.044			
	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					
8-22-68		80	79	79	0.77	15.3						

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															
<ul style="list-style-type: none"> *0 Stock water *1 Assumed *2 Estimated *3 Arizona Climate - Snowflake, Arizona <p>Land Use: 100% rangeland Geology : Moenkopi Formation</p>															
48. AGENCY MAKING SURVEY Arizona Watershed Planning Party, Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
														50. DATE 8/27/68	