

RESERVOIR SEDIMENT
DATA SUMMARY

S-34 Rev. 6-66

West Hall Tank

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

61-~~6~~⁷

DATA SHEET NO.

DAM	1. OWNER Sitgreaves Nat'l Forest			2. STREAM Trib. Cottonwood Wash			3. STATE Arizona							
	4. SEC. 23 TWP. 11N RANGE 18E			5. NEAREST P.O. Clay Springs			6. COUNTY Navajo							
	7. LAT. 34°18' " LONG 110°28' "			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. 93.9 *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										1944			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY *0		93.9 *1		.31		.76		.76		16. DATE NOR-MAL OPER. BEGAN			
	e. IRRIGATION													
	f. CONSERVATION													
g. INACTIVE														
17. LENGTH OF RESERVOIR .037				MILES		AV. WIDTH OF RESERVOIR .015				MILES				
WATERSHED	18. TOTAL DRAINAGE AREA .32				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 12.46				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA .32				SQ. MI.		23. MEAN ANNUAL RUNOFF 0.5 *2				INCHES			
	20. LENGTH 1.		MILES		AV. WIDTH .3		MILES		24. MEAN ANNUAL RUNOFF 8.5 *2				AC.-FT.	
	21. MAX. ELEV. 6930 *2			MIN. ELEV. 6625 *2			25. ANNUAL TEMP.: MEAN 49°F RANGE 16-85°F *3							
	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.	
1944		--	--	--		--		.31		.76		.09		
6-28-68		24	24	Range		6		.31		.61		.07		
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		
6-28-68		11.05												
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							
6-28-68		.15	.006	.02	.15	.006	.02							
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							
6-28-68		93.4	41	41	0.8	19.7								

SURVEY DATA

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

47. REMARKS AND REFERENCES

- *0 Stock water
- *1 Assumed
- *2 Estimated
- *3 Arizona Climate - Pinedale, Arizona

Land Use: 100% rangeland
 Geology : Cretaceous limestone, shale, and sandstone and Quaternary-Tertiary sand, silt, and gravel.

48. AGENCY MAKING SURVEY Arizona Watershed Planning Party, Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service 50. DATE 7/12/68