

RESERVOIR SEDIMENTATION
DATA SUMMARY

Willow Creek Reservoir

NAME OF RESERVOIR

68-1

DATA SHEET NO.

DAM	1. OWNER Ellison Ranching Co.			2. RIVER Willow Creek			3. STATE Nevada					
	4. SEC. 27 TWP. 48E RANGE 39N			5. NEAREST TOWN Elko			6. COUNTY Elko					
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.					
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN						
	a. FLOOD CONTROL					1924						
	b. POWER											
	c. WATER SUPPLY											
	d. IRRIGATION		668	15,300	15,300	16. DATE NORMAL OPER. BEGAN						
	e. CONSERVATION											
	f. INACTIVE					1924						
17. LENGTH OF RESERVOIR		2.6		MILES		17. AV. WIDTH OF RESERVOIR		0.35		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA			112			22. MEAN ANNUAL PRECIPITATION			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA			111			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH			MILES			24. MEAN ANNUAL RUNOFF			AC.-FT.		
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION					
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/W RATIO AC.-FT. PER SQ. MI.				
	1924	-	-	-	-	668	15,300	137				
	Sept. 1939	15	15	Range Recon.	6	668	15,050	134				
	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 SEDIMENT DEPOSITS 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
	Sept. 1939	250		16.7		0.15		250		16.7		0.15
	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. ANNUAL		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE	
Sept. 1939					0.11		1.6					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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

Region 7, Soil Conservation Service
U. S. Department of Agriculture
Portland, Oregon

48. AGENCY SUPPLYING DATA

49. DATE September 1, 1950