

RESERVOIR SEDIMENTATION
DATA SUMMARY

O'Brien Reservoir
NAME OF RESERVOIR

35-36
DATA SHEET NO.

DAM	1. OWNER Paul O'Brien			2. RIVER South Cedar Creek			3. STATE Nebraska				
	4. SEC. 9 TWP. 11N RANGE 11E			5. NEAREST TOWN Manley			6. COUNTY Cass				
	7. STREAM BED ELEV. 86.3			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 100.0*				
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					1937					
	b. POWER										
	c. WATER SUPPLY	100.0	3.00	22.09	22.09	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION					1937					
	e. CONSERVATION										
	f. INACTIVE										
17. LENGTH OF RESERVOIR		0.237 MILES		AV. WIDTH OF RESERVOIR		0.021 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA (266.8 Ac)			0.417 SQ. MI.	22. MEAN ANNUAL PRECIPITATION			28.71 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA			.412 SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF		
	21. MAX. ELEV.		MIN. ELEV. 86.3		25. CLIMATIC CLASSIFICATION						
	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.		
1937		0	0	-	-	3.00	22.09	52.97			
1957		20	20	Range Detailed	16	3.00	7.28	17.5			
SURVEY DATA	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	d. MEAN ANNUAL	e. 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR			
	1957		14.8	.74	1.77	14.8	.74	1.77			
	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE			
	1957		65 1/	2506	2506	3.35	67.0				

* Assumed elevation

1/ Assumed av. dry weight

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

48. AGENCY SUPPLYING DATA Soil Conservation Service

49. DATE 1957