

RESERVOIR SEDIMENT
DATA SUMMARY

Oak-Middle Creek Watershed
Site 67-A
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-62

35-54
DATA SHEET NO.

DAM	1. OWNER Ray Divis			2. STREAM North Platte			3. STATE Nebraska				
	4. SEC. 21 TWP. 13N RANGE 4E			5. NEAREST TOWN Dwight, Nebr.			6. COUNTY Butler				
	7. STREAM BED ELEVATION 1417.8			8. TOP OF DAM ELEVATION 1457.5			9. SPILLWAY CREST ELEV. 1452.5				
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. MULTIPLE USE					1-58					
	b. FLOOD CONTROL	1452.5	17.59	121.25	175.7						
	c. POWER										
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION	1442.0*		50.5*							
	f. CONSERVATION	1442.5	7.59	54.5	54.5						
	g. SEDIMENT					1-58					
h. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.38 MILES			AV. WIDTH OF RESERVOIR 0.10 MILES							
	18. TOTAL DRAINAGE AREA 0.89 SQ. MI.			22. MEAN ANNUAL PRECIPITATION			INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.89 SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES				
	20. LENGTH 1.8 MILES			AV. WIDTH 0.7 MILES			24. MEAN ANNUAL RUNOFF AC.-FT.				
	21. MAX. ELEV. 1640			MIN. ELEV. 1417.5			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.			
	1-58 12-64	-- 7.0	-- 7.0	Contour Contour	Int.-4.0 ft. Int.-4.0 ft.	7.59 ^{1/} 6.43 ^{1/}	175.7 140.8	197.41 158.20			
	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				
	12-64	34.9	4.99	5.61	34.9	4.99	5.61				
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
	12-64	66	8064	8064	2.84	19.86					

* Riser settled 0.5 ft.
1/ At principal spillway elevation.

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