

RESERVOIR SEDIMENT  
DATA SUMMARY

Lake Minatare  
NAME OF RESERVOIR

DATA SHEET NO. 33-24

D A M	1. OWNER Bureau of Reclamation			2. STREAM Interstate Canal			3. STATE Nebraska						
	4. SEC 32 T 23N R53W			5. NEAREST PO Minatare			6. COUNTY Scotts Bluff						
	7. LAT 41°55' LONG 103°29'			8. TOP OF DAM 4140			9. SPILLWAY CREST 4125						
R E S E R V O I R	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, Ac		13. ORIGINAL CAPACITY, AF		14. GROSS STORAGE ACRE FEET		15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL										9/1914		
	b. MULTIPLE USE												
	c. POWER												
	d. WATER SUPPLY												
	e. IRRIGATION		4125		2158		60,766		62,190		16. DATE NORMAL OPERATION BEGAN 9/1914		
	f. CONSERVATION												
g. INACTIVE		4074.03		285		1424		1424					
B A S I N	17. LENGTH OF RESERVOIR 2.16 MILES						AVG. WIDTH OF RESERVOIR 1.56 MILES						
	18. TOTAL DRAINAGE AREA 7.5 <sup>1</sup> SQ. MI.						22. MEAN ANNUAL PRECIPITATION 14.8 <sup>2,3</sup> IN.						
	19. NET SEDIMENT CONTRIBUTING AREA 7.5 <sup>1</sup> SQ. MI.						23. MEAN ANNUAL RUNOFF <sup>4</sup> IN.						
	20. LENGTH 2.01 MI			AV. WIDTH 3.73 MI			24. MEAN ANNUAL RUNOFF <sup>4</sup> AC.-FT.						
	21. MAX. ELEV. 4500			MIN. ELEV. 4026 ELEV.			25. ANNUAL TEMP. MEAN 48.4 <sup>3</sup> RANGE -25 to 103 <sup>2</sup>						
S U R V E Y	26. DATE OF SURVEY		27. PER.	28. ACCL.	29. TYPE OF SURVEY		30. NO. OF RANGES OR		31. SURFACE AREA, AC.	32. CAPACITY	33. C/I RATIO AF/AF		
	Sept, 1914 <sup>6</sup>				R		2 ft(CI) <sup>6</sup>		2158	62,190			
D A T A	4/1/1989		74.5	74.5	D		4 ft(CI)		2147	58,795	not applicable		
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIP.		35. PERIOD WATER INFLOW, ACRE FEET				36. WATER INFLOW TO DATE, AF				
					a. MEAN ANN.		b. MAX. ANN.		c. TOTAL		a. MEAN ANN.		b. TOTAL
	4/1/1989		14.8		Records		not		available.				
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET				38. TOTAL SEDIMENT DEPOSITS TO DATE, AF						
			a. TOTAL		b. AV. ANN.		c. /MI. <sup>2</sup> -YR.		a. TOTAL		b. AV. ANNUAL		c. /MI. <sup>2</sup> -YR.
	4/1/1989		3395		45.6		see note 7		3395		45.6		see note 7
26. DATE OF SURVEY		39. AV. DRY WT. (#/FT <sup>3</sup> )		40. SED. DEP. TONS/MI. <sup>2</sup> -YR.				41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM			
				a. PERIOD		b. TOTAL TO DATE		a. AV. ANNUAL		b. TOTAL TO DATE		a. PER.	b. TOT.
4/1/1989				Records		not		available.					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW AND ABOVE CREST ELEVATION															
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION															
see note 8																
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	100-105	105-110	110-115	115-120	120-125	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION
see note 8																
45. RANGE IN RESERVOIR OPERATION																
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AF	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AF									
Records	not	available.														
46. ELEVATION - AREA - CAPACITY DATA FOR (ORIGINAL)1914 and April, 1989																
ELEV.	AREA	CAP.	ELEV.	AREA	CAP.	ELEV.	AREA	CAP.								
(ORIG)1914			4125	2158	62190	4112	1718	33,625								
4065	20	20	4130	2318	73,371	4116	1840	40,741								
4070	190	475	4/1989			4120	1997	48,415								
4075	310	1722	4073.4	0	0	4124	2125	56,659								
4080	450	3612	4076	199	259	4125	2147	58,795								
4085	605	6240	4080	343	1343	4128	2213	65,335								
4090	786	9710	4084	455	2939	4132	2315	74,391								
4095	979	14,107	4088	606	5061	4136	2476	83,973								
4100	1188	19,530	4092	792	7857	4140	2616	94,157								
4105	1407	26,016	4096	1016	11,473											
4110	1634	33,601	4100	1211	15,927											
4115	1827	42,248	4104	1386	21,121											
4120	1996	51,813	4108	1574	27,041											
47. REMARKS AND REFERENCES																
<sup>1</sup> Does not include undetermined area that is drained by Reservoir Supply Canal (Major water source for the reservoir). <sup>2</sup> Climates of the States, 1931-1970, NOAA. <sup>3</sup> Climatology of the United States, 1951-1980, No. 81, NOAA. <sup>4</sup> Reservoir principally offstream storage with main water supply from Reservoir Supply Canal. <sup>5</sup> Climatology of the United States, 1941-1970, No. 81, NOAA. <sup>6</sup> Original area and capacity data were determined in 1953 from a 1946 topographic map which had been retraced from a 1916 original map. Numbers shown indicate Sept. 1914 conditions. <sup>7</sup> Not available since part of the sediment enters from the Reservoir Supply Canal. <sup>8</sup> Data insufficient.																
48. AGENCY MAKING SURVEY Bureau of Reclamation																
49. AGENCY SUPPLYING DATA Bureau of Reclamation										DATE December, 1991						