

RESERVOIR SEDIMENTATION

Wellfleet Reservoir

33-1

DATA SUMMARY Forestation & Park Comm.

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Nebraska State Game/			2. RIVER Medicine Creek			3. STATE Nebraska		
	4. SEC. 16 TWP. 9N RANGE 30W			5. NEAREST TOWN Wellfleet			6. COUNTY Lincoln		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV 2753.6		
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					October 1931			
	b. POWER					16. DATE NORMAL OPER. BEGAN			
	c. WATER SUPPLY					October 1931			
	d. IRRIGATION								
	e. CONSERVATION	2753.6	73.2	519	519				
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 1.44 MILES			AV. WIDTH OF RESERVOIR MILES					
	18. TOTAL DRAINAGE AREA 15.00 1/ SQ. MI.			22. MEAN ANNUAL PRECIPITATION 21.0 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 14.89 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AC.-FT.				
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Sub-humid				
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.	
	Oct. 1931	-	-	-	-	73.2	519	34.6	
	May 10, 1937	5.6	5.6	Range Detailed	20	72.6	464	30.9	
	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		
	May 10, 1937	55.0	9.82	0.66	55.0	9.82	0.66		
	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		
May 10, 1937	65*	934	934	1.89	10.60				

1/ Excludes 28 sq. mi. of non-contributing drainage
* Estimated

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
 Jones, V. H. Advance report on the sedimentation survey of Wellfleet Reservoir, Wellfleet, Nebraska. U. S. Soil Conserv. Serv., SCS-SS-23, 16 pp., illus, processed. Washington, D. C., July 1938

Region 5, Soil Conservation Service
 U. S. Dept. of Agriculture

48. AGENCY SUPPLYING DATA Lincoln, Nebraska

49. DATE January 4, 1951