

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Johnson Reservoir  
NAME OF RESERVOIR

37-23

DATA SHEET NO.

DAM	1. OWNER J. C. Johnson			2. RIVER Unnamed		3. STATE Nebraska		
	4. SEC. 17 TWP. 33N RANGE 42W		5. NEAREST TOWN Gordon		6. COUNTY Sheridan			
	7. STREAM BED ELEV. 85.1		8. TOP OF DAM ELEV. 98.0		9. SPILLWAY CREST ELEV. 95.2*			
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					1946		
	b. POWER							
	c. WATER SUPPLY	95.2	4.39	16.25	16.25	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION					1946		
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.238 MILES			AV. WIDTH OF RESERVOIR 0.034 MILES				
	18. TOTAL DRAINAGE AREA (548 Ac)		.856	SQ. MI.	22. MEAN ANNUAL PRECIPITATION 17.36 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA		.849	SQ. MI.	23. MEAN ANNUAL RUNOFF INCHES			
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AC.-FT.			
	21. MAX. ELEV.		MIN. ELEV. 85.1		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.
	1946	0	0	-	-	4.39	16.25	18.98
	Nov. '56	10.3	10.3	Range Detailed	7	4.39	12.39	14.17
	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR	
	1956	3.85	.372	.435	3.85	.372	.435	
	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	
Nov. 1956	70 1/2	663	663	2.3	23.1			

\* 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. SUPPLYING DATA Soil Conservation Service

49. DATE 1956