

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

Lake Panorama

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

25-21

DATA SHEET NO.

DAM	1. OWNER Central Power Coop			2. STREAM Middle Raccoon River			STATE Iowa									
	4. SEC. TWP. RANGE			5. NEAREST P.O. Panora			6. COUNTY Guthrie									
	7. LAT. 41° 41' 44" LONG. 94° 22' 53"			8. TOP OF DAM ELEVATION 325.5m			9. SPILLWAY CREST ELEV. 319.4m									
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, dam ²		13. ORIGINAL CAPACITY, dam ³		14. GROSS STORAGE, dam ³		15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL										Apr. 27, 1971					
	b. MULTIPLE USE		318.5m		51,400		24,300		74,000							
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION										Apr. 27, 1971					
WATERSHED	17. LENGTH OF RESERVOIR 10.9 km ₂			AV. WIDTH OF RESERVOIR .47 km												
	18. TOTAL DRAINAGE AREA 1,121 km ₂			22. MEAN ANNUAL PRECIPITATION 762.0 mm												
	19. NET SEDIMENT CONTRIBUTING AREA 1116 km ₂			23. MEAN ANNUAL RUNOFF 160 mm (22 yr)												
	20. LENGTH 78.8 km		AV. WIDTH 14.2 km		24. MEAN ANNUAL RUNOFF 179,000 dam ³											
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN 7.7° RANGE -14.1 to 22.7° C											
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, dam ²		32. CAPACITY, dam ³		33. C/I. RATIO, AC. dam ³ /dam ³	
	4-27-71		0		0						51,400		24,300		1.60	
	10/80		9.5		9.5		Contour Range		63		51,400		17,300		1.14	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, dam ³		36. WATER INFL. TO DATE, dam ³									
			a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE					
	10/80		897mm		21500		62600		204,000		21500		204,000			
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, dam ³		38. TOTAL SED. DEPOSITS TO DATE, dam ³											
			a. PERIOD TOTAL		b. AV. ANNUAL		c. /Km ² /yr		a. TOTAL TO DATE		b. AV. ANNUAL		c. /Km ² /yr			
	10/80		7000		737		.66		7,000		737		.66			
	26. DATE OF SURVEY		39. AV. DRY WGT. g/cm ³		40. SED. DEP. Mg/Km ² /yr		41. STORAGE LOSS, PCT.		42. SED. INFLOW. PPM							
		a. PERIOD		b. TOTAL TO DATE		a. AV. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE				
10/80		0.83(5)		548		548		1.00		9.5		2845		2845		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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 MAKING SURVEY						50. DATE _____									
49. AGENCY SUPPLYING DATA															