

**RESERVOIR SEDIMENTATION  
 DATA SUMMARY**

Virginia Reservoir  
 NAME OF RESERVOIR

24-49a

DATA SHEET NO.

<b>DAM</b>	1. OWNER <u>Virginia City</u>			2. RIVER <u>Job's Creek</u>			3. STATE <u>Illinois</u>									
	4. LONG. <u>Sec. 34 Twp. 18N</u> LAT. <u>18N</u> RANGE <u>10W</u>			5. NEAREST TOWN <u>Virginia</u>			6. COUNTY <u>Cass</u>									
	7. STREAM BED ELEV. <u>568*</u>			8. TOP OF DAM ELEV. <u>585.82</u>			9. SPILLWAY CREST ELEV. <u>580.86</u>									
<b>RESERVOIR</b>	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										1933					
	b. POWER															
	c. WATER SUPPLY		<u>580.82</u>		<u>18.7</u>		<u>154</u>		<u>154</u>		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
<b>WATERSHED</b>	17. LENGTH OF RESERVOIR <u>.455</u> <sup>1/</sup> MILES				AV. WIDTH OF RESERVOIR <u>.066</u> FEET											
	18. TOTAL DRAINAGE AREA <u>.828</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>36</u> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <u>.799</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>10.5</u> INCHES											
	20. LENGTH <u>1.30</u> MILES		AV. WIDTH <u>.615</u> MILES		24. MEAN ANNUAL RUNOFF <u>447</u> AC.-FT.											
	21. MAX. ELEV. <u>627</u>		MIN. ELEV. <u>568</u>		25. CLIMATIC CLASSIFICATION <u>Humid</u>											
<b>SURVEY DATA</b>	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.	
	1933		-		-		-		-		18.7		154		186	
	1950		17		17		DR		7		18.7		116		140	
	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			
	1950		<u>38</u>		<u>2.2</u>		<u>2.70</u>		<u>38</u>		<u>2.2</u>		<u>2.70</u>			
	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				
1950		<u>40*</u>		<u>2352</u>		<u>2352</u>		<u>1.5</u> <u>24.7</u>								

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
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
1950	20.0	11.0	11.0	10.5	9.0	9.0	9.5	7.5	6.0	6.5				

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
580.8	18.7	37						
577.8	12.0	22						
574.8	9.0	11.5						
571.8	7.0	4.0						

47. REMARKS AND REFERENCES  
1/ Lake is composed of 4 principal arms  
 Arm /1/ .455 mi. long    Arm /2/ .17 mi. long  
 Arm /3/ .152 mi. long    Arm /4/ .114 mi. long

Illinois  
 State Water Survey Division

48. AGENCY SUPPLYING DATA      49. DATE 15 April 1955