

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Higginsville
 Old City Lake

31-39

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <u>City of Higginsville</u>			2. RIVER <u>Trib. of Davis Creek</u>		3. STATE <u>Missouri</u>		
	4. LONG. <u>Sec. 4</u> LAT. <u>T-49N</u> RANGE <u>25W</u>			5. NEAREST TOWN <u>Higginsville</u>		6. COUNTY <u>Lafayette</u>		
	7. STREAM BED ELEV. <u>--</u>			8. TOP OF DAM ELEV. <u>450</u>		9. SPILLWAY CREST ELEV. <u>435.75</u>		
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					Sept. 1924		
	b. POWER					16. DATE NORMAL OPER. BEGAN		
	c. WATER SUPPLY							
	d. IRRIGATION							
	e. CONSERVATION	<u>435.75</u>	<u>61</u> 1/	<u>520</u> 1/	<u>520</u> 1/			
	f. INACTIVE							
17. LENGTH OF RESERVOIR		<u>0.44</u>	MILES	AV. WIDTH OF RESERVOIR		<u>1080</u>	FEET	
WATERSHED	18. TOTAL DRAINAGE AREA		<u>2.728</u>	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		<u>2.633</u>	SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH	<u>2.61</u>	MILES	AV. WIDTH	<u>1.04</u>	MILES	24. MEAN ANNUAL RUNOFF	AG.-FT.
	21. MAX. ELEV. <u>539*</u>		MIN. ELEV. <u>411.4*</u>		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.
	<u>Sept. 1924</u>	<u>Orig.</u>	<u>--</u>	<u>Range D</u>	<u>5' C. I.</u>	<u>61.0</u>	<u>520.0</u>	<u>197.5</u>
	<u>July 1964</u>	<u>39.8</u>	<u>39.8</u>	<u>Range D</u>	<u>2' C. I.</u>	<u>51.0</u>	<u>304.0</u>	<u>115.5</u>
	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	
	<u>July 1964</u>	<u>216.0</u>	<u>5.427</u>	<u>2.061</u>	<u>216.0</u>	<u>5.427</u>	<u>2.061</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	
<u>July 1964</u>	<u>55.94 (58)</u>	<u>2511</u>	<u>2511</u>	<u>1.04</u>	<u>41.5</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														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

46. 1964 ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
424.4	0.00	0.00						
426.0	7.37	5.61						
428.0	20.32	33.30						
430.0	28.44	82.06						
432.0	34.90	145.40						
434.0	42.83	223.13						
435.75	51.0	304.0						

47. REMARKS AND REFERENCES

1/ Spillway crest raised 1.35' in about 1951 to 435.75. Original surface area and storage estimated for the new elevation.

* Elevations are assumed.