

RESERVOIR SEDIMENTATION
DATA SUMMARY

Herrin Reservoir No. 1
NAME OF RESERVOIR

16 - 20
DATA SHEET NO.

DAM	1. OWNER City of Herrin			2. RIVER			3. STATE Illinois			
	4. SEC. 6 TWP. T.9-5 RANGE R.2.E.			5. NEAREST TOWN Herrin			6. COUNTY Williamson			
	7. STREAM BED ELEV. 410			8. TOP OF DAM ELEV. 440			9. SPILLWAY CREST ELEV. 437			
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					1913				
	b. POWER									
	c. WATER SUPPLY	437	37	199	199	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION					1913				
	e. CONSERVATION									
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR 1/2 MILES			13. AV. WIDTH OF RESERVOIR .116 MILES						
	18. TOTAL DRAINAGE AREA 1.78 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 42 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 1.7 SQ. MI.			23. MEAN ANNUAL RUNOFF 12.09 INCHES						
	20. LENGTH 2.5 MILES		AV. WIDTH 1.5 MILES		24. MEAN ANNUAL RUNOFF				AC.-FT.	
	21. MAX. ELEV. 500			MIN. ELEV. 410			25. CLIMATIC CLASSIFICATION 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.		
	1913	-	-	-	-	37	199	112		
	1951	38	38	Recon.	-	37	178	100		
	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			
	1951	42	-	-	-	-	-	-		
	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			
	1951	21	0.55	0.32	21	0.55	0.32			
	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			
1951	27.5	192	192	0.28	10.6	-	-			

RESERVOIR SEDIMENTATION
DATA SUMMARY

Knights of Pythias Lake
NAME OF RESERVOIR

16 - 21
DATA SHEET NO.

B19

DAM	1. OWNER <u>Knights of Pythias</u>				2. RIVER		3. STATE <u>Illinois</u>	
	4. SEC. <u>5</u> TWP. <u>T-10-5</u> RANGE <u>R 3.E</u>				5. NEAREST TOWN <u>Marion</u>		6. COUNTY <u>Williamson</u>	
	7. STREAM BED ELEV. <u>480</u>				8. TOP OF DAM ELEV. <u>500</u>		9. SPILLWAY CREST ELEV.	
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					Dec. 1925		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	<u>500</u>		<u>8.1</u>	<u>74.6</u>	<u>74.6</u>	Dec. 1925	
f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR <u>0.25</u> MILES		AV. WIDTH OF RESERVOIR <u>0.05</u> MILES					
	18. TOTAL DRAINAGE AREA <u>.33</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>42</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>.32</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>12.09</u> INCHES					
	20. LENGTH <u>.5</u> MILES; AV. WIDTH <u>.66</u> MILES		24. MEAN ANNUAL RUNOFF		AC-FT.			
	21. MAX. ELEV. <u>540</u>		MIN. ELEV. <u>480</u>		25. CLIMATIC CLASSIFICATION <u>Humid</u>			
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>Dec. 1925</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>8.1</u>	<u>74.6</u>	<u>226</u>
	<u>Aug. 1951</u>	<u>25.7</u>	<u>25.7</u>	<u>Recon.</u>	<u>-</u>	<u>8.1</u>	<u>64.7</u>	<u>196</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	
	<u>Aug. 1951</u>	<u>42</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
	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>Aug. 1951</u>	<u>9.9</u>	<u>0.39</u>	<u>1.22</u>	<u>9.9</u>	<u>0.39</u>	<u>1.22</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>Aug. 1951</u>	<u>62.9</u>	<u>1,671</u>	<u>1,671</u>	<u>0.52</u>	<u>13.3</u>	<u>-</u>	<u>-</u>	