

RESERVOIR SEDIMENTATION
DATA SUMMARY

Daugherty
NAME OF RESERVOIR

32-16
DATA SHEET NO.

DAM	1. OWNER J. Daugherty			2. RIVER Unnamed Tributary			3. STATE Kansas				
	4. SEC. NW 35 TWP. 12 S RANGE 12 W			5. NEAREST TOWN Russell			6. COUNTY Russell				
	7. STREAM BED ELEV. 1000*			8. TOP OF DAM ELEV. 1022*			9. SPILLWAY CREST ELEV. 1019*				
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					September 1947					
	b. POWER										
	c. WATER SUPPLY	1018*	3.72	22.5	22.5	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION					September 1947					
	e. CONSERVATION										
	f. INACTIVE										
17. LENGTH OF RESERVOIR 0.1		MILES		AV. WIDTH OF RESERVOIR 0.05		MILES					
WATERSHED	18. TOTAL DRAINAGE AREA .97		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 25*		INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA .96		SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 1.2		MILES		AV. WIDTH 0.8		MILES		24. MEAN ANNUAL RUNOFF AC.-FT.		
	21. MAX. ELEV.		MIN. ELEV.		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.			
	Sept., 1947	-	-	-	-		22.5	23.2			
	September 1955	11	11	Range	4	3.72	13.7	14.2			
	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				
	September 1955	8.8	0.8	0.77	8.8	0.8	0.77				
	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					
September 1955	60*	1006	1006	3.6	39.0						

* Assumed

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

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Daugherty
NAME OF RESERVOIR

32-16 a
DATA SHEET NO.

DAM	1. OWNER J. Daugherty			2. STREAM unnamed Tributary		3. STATE Kansas		
	4. SEC. NW 35 TWP. 12 S RANGE 12W			5. NEAREST TOWN Russell		6. COUNTY Russell		
	7. STREAM BED ELEVATION 1000*			8. TOP OF DAM ELEVATION 1022*		9. SPILLWAY CREST ELEV. 1019*		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA ACRES	13. ORIGINAL CAPACITY ACRE-Feet	14. GROSS STORAGE ACRE-Feet	15. DATE STORAGE BEGAN		
	a. MULTIPLE USE					September 1947		
	b. FLOOD CONTROL							
	c. POWER							
	d. WATER SUPPLY	1019*	3.72	22.5	22.5	16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					September 1947		
	g. SEDIMENT							
	h. INACTIVE							
17. LENGTH OF RESERVOIR 0.1 MILES			AV. WIDTH OF RESERVOIR 0.5 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA .97 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 25* INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA .96 SQ. MI.			23. MEAN ANNUAL RUNOFF 1.0 INCHES				
	20. LENGTH 1.2 MILES		AV. WIDTH 0.8 MILES		24. MEAN ANNUAL RUNOFF 51.7 AC.-FT.			
	21. MAX. ELEV.		MIN. ELEV.		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.
	Sept. 1947	--	--	--	--	--	22.5	23.2
	Sept. 1955	8	8	Range	4	3.72	16.1	16.6
	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	
	Sept. 1955	6.4	0.8	0.83	6.4	0.8	0.83	
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
Sept. 1955	60*	1085	1085	3.5	28.4			

*Assumed

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. AGENCY MAKING SURVEY SCS
 49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE Nov. 6, 1961