

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Coit Pond No. 1
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
50 - 16
DATA SHEET NO.

DAM	1. OWNER Lyle Coit			2. RIVER Unnamed			3. STATE Oklahoma									
	4. SEC. 22 TWP. 15N RANGE 17W			5. NEAREST TOWN Clinton			6. COUNTY Custer									
	7. STREAM BED ELEV. 82.9			8. TOP OF DAM ELEV. 105			9. SPILLWAY CREST ELEV. 100									
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										3-19-1947					
	b. POWER															
	c. WATER SUPPLY		100		4.79				25.69		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.256 MILES				AV. WIDTH OF RESERVOIR 0.029 MILES											
	18. TOTAL DRAINAGE AREA 0.39 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 28.00 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.38 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.75 INCHES											
	20. LENGTH 0.85 MILES		AV. WIDTH 0.46 MILES		24. MEAN ANNUAL RUNOFF 93.33 sq. mi. AC-FT.											
	21. MAX. ELEV.		MIN. ELEV. 82.9		25. CLIMATIC CLASSIFICATION Sub-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.	
	3-19-47		-		-		-		4		4.79		25.69		65.87	
	7-1-57		10.28		10.28		Detailed Range				21.53		55.21			
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG-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			
	7-1-57		4.16		0.405		1.07		4.16		0.405		1.07			
	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		
7-1-57		61.49		1433.00		1433.00		01.58		16.19		-		-		

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. Original Capacity			ELEVATION-AREA-CAPACITY DATA					
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
100.0	4.79	25.69						
96.0	2.60	11.11						
92.0	0.90	4.40						
88.0	0.54	1.55						
84.0	0.22	0.08						
82.9	-	-						

47. REMARKS AND REFERENCES Land use: Pasture 72%; cultivated 27%, miscellaneous 1%.
 C/I Ratio = (65.87 = 0.71) (55.21 = 0.59). Est. trap efficiency = 85 percent.
 Total annual sediment load adjustment for trap efficiency = 1.07 ac. ft./sq.mi. =
 1.26 ac. ft./sq.mi.
 Geology: 100 percent Cloud Chief formation.

48. AGENCY SUPPLYING DATA Soil Conservation Service Stillwater, Oklahoma

49. DATE September 23, 1957