

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Lake Amon G. Carter

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

51- 36

DATA SHEET NO.

DAM	1. OWNER City of Bowie			2. STREAM Big Sandy Creek			3. STATE Texas					
	4. SEC. TWP. RANGE			5. NEAREST P.O. Bowie			6. COUNTY Montague					
	7. LAT. 33° 27' 45" LONG. 97° 51' 30"			8. TOP OF DAM ELEVATION 938.0			9. SPILLWAY CREST ELEV. 920.0					
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. FLOOD CONTROL										May 1956	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		920.0		1289		15,805.75		15,805.75		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION										June 1956	
WATERSHED	17. LENGTH OF RESERVOIR 5.6 MILES				AV. WIDTH OF RESERVOIR 0.4 MILES							
	18. TOTAL DRAINAGE AREA 103 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 29.97 (38) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 101 SQ. MI.				23. MEAN ANNUAL RUNOFF 2.70 INCHES							
	20. LENGTH 15.9 MILES		AV. WIDTH 6.5 MILES		24. MEAN ANNUAL RUNOFF 14,830 AC. FT.							
	21. MAX. ELEV. 1200		MIN. ELEV. 870		25. ANNUAL TEMP: MEAN 63°F RANGE 84°F - 42°F							
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/I. RATIO, AC.-FT. PER AC.-FT.			
	5-56		-	-	Range		1289	15,805.75	1.07			
	5-67		11	11	(D)	26R	1289	15,238.06	1.03			
	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 CAPACITY LOSS, 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				
	5-67		567.69	51.61	0.51	567.69	51.61	0.51				
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
5-67		55.19(5)	613	613	0.32	3.59	-	-				

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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 Texas Sedimentation Survey Party															
49. AGENCY SUPPLYING DATA SCS " " " " 50. DATE 4-68															

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51 - 36a

DATA SHEET NO.

DAM		1. OWNER		2. STREAM		3. STATE										
		City of Bowie		Big Sandy Creek		Texas										
RESERVOIR		4. SEC.		5. NEAREST P. O.		6. COUNTY										
		TWP. RANGE		Bowie, TX		Montague										
WATERSHED		7. LAT.		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV.										
		33° 27' 45" LONG. 97° 51' 30"		938.0		920.0										
SURVEY DATA		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. FLOOD CONTROL											May 1956			
		b. MULTIPLE USE														
		c. POWER											16. DATE NORMAL OPER. BEGAN			
		d. WATER SUPPLY			920.0		1289		15,805.75		15,805.75					
		e. IRRIGATION											June 1956			
		f. CONSERVATION														
		g. INACTIVE														
SURVEY DATA		17. LENGTH OF RESERVOIR				18. TOTAL DRAINAGE AREA				19. NET SEDIMENT CONTRIBUTING AREA						
		5.6 MILES				103 SQ. MI.				1/ 81.6 SQ. MI.						
		20. LENGTH		21. MAX. ELEV.		22. MEAN ANNUAL PRECIPITATION		23. MEAN ANNUAL RUNOFF		24. MEAN ANNUAL RUNOFF		25. ANNUAL TEMP. MEAN		26. DATE OF SURVEY		
		15.9 MILES		1200		29.97 (38) INCHES		2.70 INCHES		14.830 AC.-FT.		63°F RANGE 42° - 84° F		27. PERIOD YEARS		
		6.5 MILES		870		29.7		2.70		14.830		63°F RANGE 42° - 84° F		28. ACCL. YEARS		
SURVEY DATA		29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.		31. SURFACE AREA, ACRES		32. CAPACITY, ACRE-FEET		33. C/I. RATIO, AC.-FT. PER AC.-FT.						
		Range		27 R		1289		15,805.75		1.07						
		(D)				1279		15,058.65		1.02						
SURVEY DATA		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.									
				a. MEAN ANNUAL			a. MEAN ANNUAL			b. TOTAL TO DATE						
SURVEY DATA		37. PERIOD CAPACITY LOSS, 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		
		5-67		51.61			0.51			567.69		51.61		0.51		
SURVEY DATA		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. MI.-YR.			41. STORAGE LOSS, PCT.			42. SED. INFLOW, PPM						
		a. PERIOD		b. TOTAL TO DATE			a. AV. ANN.			b. TOT. TO DATE			a. PERIOD		b. TOT. TO DATE	
		7-80		397.27			0.20			4.73						
7-80		48 (8)		91.60												

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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. 1980 ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
876	10.62	14.16	908	481.35	4692.99										
880	15.32	65.75	912	710.28	7061.45										
884	28.41	151.87	916	1011.54	10487.38										
888	52.05	310.42	920	1279.33	15058.65										
892	97.22	604.29													
896	152.95	1100.44													
900	235.65	1871.71													
904	350.44	3036.32													
47. REMARKS AND REFERENCES															
1/ 19.4 sq. miles controlled by upstream flood prevention structures.															
48. AGENCY MAKING SURVEY SCS, Temple, Texas															
49. AGENCY SUPPLYING DATA SCS, Temple, Texas															
50. DATE Sept. 15, 1980															