

RESERVOIR SEDIMENT DATA SUMMARY

Prop Canyon Watershed Site 1
NAME OF RESERVOIR

57-28
DATA SHEET NO.

DAM	1. OWNER			2. STREAM Big Draw			3. STATE New Mexico						
	4. SEC. 16 TWP. 12N RANGE 11W			5. NEAREST P.O. Bluewater			6. COUNTY Cibola 1/						
	7. LAT 36° 16' " LONG. 107° 58' 6" "			8. TOP OF DAM ELEVATION 6660.5			9. SPILLWAY CREST ELEV. 6654.5						
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		6654.5		51.3 2/		283 2/		490 2/				
	b. MULTIPLE USE												
	c. POWER												
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION												
	f. CONSERVATION		6647.2		27		207 2/		207 2/		Sept. 1959		
	g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.25 MILES				AV. WIDTH OF RESERVOIR 0.31 MILES								
	18. TOTAL DRAINAGE AREA 14.41 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 10 - 22 INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 14.36 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.5 INCHES								
	20. LENGTH 7.5 MILES AV. WIDTH 1.9 MILES				24. MEAN ANNUAL RUNOFF 384 AC.-FT.								
	21. MAX. ELEV. 8606 MIN. ELEV. 6632				25. ANNUAL TEMP.: MEAN 48°F RANGE -29 -105°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.	
	Sept., 1971		12	12	Range		13	51 ?		422.9?		1.10	
	June, 1982		10.75	22.75	Range		12	51.3		493.5		1.28	
	May, 1992		10.0	32.75	Range		12	51.3		492.1		1.28	
	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			
			NO RECORDS AVAILABLE										
	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					
	Sept., 1971		27.1 3/	2.26	0.16	27.1	2.25	0.16					
June, 1982		Negligible 4/	-	-	-	-	-						
May, 1992		1.4	0.14	.01	1.4 6/	.14	.01						
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						
Sept., 1971		-	-	-	1.48	17.83	-	-					
June, 1982		69.8 5/	-	-	0	0	-	-					
May, 1992		7/	148.2 8/	-	0.28	-	-	-					

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
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.
Dry pool.							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES
 1/ Valencia County was split in 1981 and the site is in Cibola County.
 2/ These figures have been changed to agree with new data from Koogle and Poul Engineering Inc., Albuquerque, NM.
 3/ The 1971 figures in blocks 37, 38 and 41 were made without knowing the volume of borrow taken from reservoir during construction. Construction records show 129,000 cubic yards (79.96 ac.ft.) of compacted fill were taken from the reservoir. Considering volume loss due to compaction, this could vary from about 95 ac.ft. to 104 ac.ft. of volume removed from the reservoir. This would agree closely with Koogle and Poul data.

(Continued)

48. AGENCY MAKING SURVEY _____
 49. AGENCY SUPPLYING DATA _____
 50. DATE _____

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															
<p>4/ The 1982 survey found little if any sediment deposition (see attached narrative).</p> <p>5/ Average weight of two samples which are probably thin layers of sediment deposited since construction.</p> <p>Subsequent surveys should consider 1982 data as base data and start from there.</p> <p>6/ Sediment volume since 1982 survey.</p> <p>7/ No positively identified deposits available to test.</p> <p>8/ At 69.8 pcf.</p>															
48. AGENCY MAKING SURVEY USDA/Soil Conservation Service, Albuquerque, N.M.															
49. AGENCY SUPPLYING DATA Same as 48															
50. DATE 9/20/82															