

**RESERVOIR SEDIMENT  
DATA SUMMARY**  
SCS-34 Rev. 6-62

UPPER-HONDO SITE #1  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

58-5

DATA SHEET NO.

<b>DAM</b>	1. OWNER			2. STREAM Salado Creek			3. STATE New Mexico									
	4. SEC. 9 TWP. 9 S RANGE 15 E			5. NEAREST TOWN Capitan			6. COUNTY Lincoln									
	7. STREAM BED ELEVATION 6042.0			8. TOP OF DAM ELEVATION 6114.5			9. SPILLWAY CREST ELEV. 6105.0									
<b>RESERVOIR</b>	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										May 1959					
	b. FLOOD CONTROL		6105.0		250.16		3452.14		4972.14		Open ports					
	c. POWER															
	d. WATER SUPPLY										16. DATE NOR- MAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT		6086.0		114.15		1520.00		1520.00		May 1959					
h. INACTIVE																
<b>WATERSHED</b>	17. LENGTH OF RESERVOIR 1.46 <sup>1/</sup> MILES				AV. WIDTH OF RESERVOIR .18 MILES											
	18. TOTAL DRAINAGE AREA 122.0 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 10-22(33Yrs) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 93.92 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 13.0 MILES				AV. WIDTH 9.4 MILES											
	21. MAX. ELEV. 8600+				MIN. ELEV. 6042.0											
25. CLIMATIC CLASSIFICATION Semi-arid-Sub-humid				24. MEAN ANNUAL RUNOFF AC.-FT.												
<b>SURVEY DATA</b>	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. PERSQ. MI.	
	May 1959						Cont.				250.16		4972.14		40.76	
	Oct. 1959		.42		.42		&		1 ft. 6042		250.16		4946.54		40.55	
	May 1961		1.58		2.00		Range		--6065.		250.16		4896.60		40.14	
	Mar. 1962		.83		2.83		D		5 ft. 6065		250.16		4818.00		39.49	
	Feb. 1963		.92		3.75				--6105.		250.16		4796.41		39.31	
	Jan. 1965		1.92		5.67						250.16		4719.54		38.93	
	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			
	Oct. 1959		25.60		60.95		.65		25.60		60.95		.65			
	May 1961		49.94		31.61		.34		75.54		37.77		.40			
	Mar. 1962		78.60		94.70		1.01		154.14		54.47		.58			
Feb. 1963		21.59		23.47		.25		175.73		46.86		.50				
Jan. 1965		46.87		24.41		.26		222.60		39.26		.42				
26. DATE OF SURVEY		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. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE				
Oct. 1959		75*		1060		1060		1.23		.51						
May 1961		75		555		652		.76		1.52						
Mar. 1962		75		1649		946		1.10		3.10						
Feb. 1963		75		408		816		.94		3.53						
Jan. 1965		75		424		686		.79		4.48						

<sup>1/</sup> Gyp Canyon--1.05 miles long as measured from confluence with Salado Creek 1400 feet upstream from dam.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	Crest-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-63
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Oct. 1959											89	11
May 1961									5	56	35	4
Mar. 1962						5	12	36	28	17	2	2
Feb. 1963						4	14	41	24	15	2	2
Jan. 1965						5	30	30	22	12	1	1

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.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
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.	.	.	.	.	.	.	.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
6062	.01	.00	6090	144.87	1802.92			
6063	9.85	3.28	6095	176.66	2605.47			
6064	18.99	17.45	6100	215.56	3584.17			
6065	21.91	37.88	6105	250.16	4749.54			
6070	33.84	176.16						
6075	52.19	389.58						
6080	78.96	715.15						
6085	106.47	1177.02						

47. REMARKS AND REFERENCES  
 This is a dry pool reservoir with open ports on the riser. The sediment is primarily clay and silt with some fine sand, and has been deposited relatively flat with no deltas, etc. having formed.

Watershed Work Plan Staff, Albuquerque, New Mexico.

48. AGENCY MAKING SURVEY Soil Conservation Service  
 49. AGENCY SUPPLYING DATA Soil Conservation Service  
 50. DATE Jan. 7, 1966

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

Upper Rio Hondo Watershed, Site No. 1

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

58-5a(Sheet 2)

DATA SHEET NO.

DAM	1. OWNER Upper Hondo NRCD			2. STREAM Rio Salado			3. STATE New Mexico							
	4. SEC. 9 TWP. 9S RANGE 15E			5. NEAREST P. O. Capitan			6. COUNTY Lincoln							
	7. LAT. 33° 32' 0" LONG. 105° 28' 48"			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. 6105.0							
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		6105		250.16		3452.14		4972.14		16. DATE NORMAL OPER. BEGAN 5/7/59			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY													
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN 5/7/59			
	f. CONSERVATION		6086		114.15		1520.0		1520.0					
	g. INACTIVE													
17. LENGTH OF RESERVOIR 1.46 MILES					AV. WIDTH OF RESERVOIR 0.27 MILES									
WATERSHED	18. TOTAL DRAINAGE AREA 122 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 10-22 (33 yrs) INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA 121.61 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.75 INCHES									
	20. LENGTH 13.0 MILES		AV. WIDTH 9.4 MILES		24. MEAN ANNUAL RUNOFF 4879.7 AC.-FT.									
	21. MAX. ELEV. 8600		MIN. ELEV. 6042		25. ANNUAL TEMP: MEAN 52° RANGE 35° - 69°									
	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.	
1-65		5.67	5.67	Range				250.16		4749.54		0.97		
5-72		7	13	Range		45				4322.30		0.89		
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		
SURVEY DATA	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	
	1-65		222.60						222.60					
	5-72		427.24		61.03		0.50		649.84		49.99		0.41	
	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		
5-72								1.01 13.07						

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.								
Dry pool	maintained														
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
47. REMARKS AND REFERENCES															
Additional data will be furnished as acquired with subsequent surveys. <u>1/</u> Approximate															
48. AGENCY MAKING SURVEY				Soil Conservation Service				50. DATE							
49. AGENCY SUPPLYING DATA				Soil Conservation Service				3-8-76							