

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-62

Williams - Chandler Pond #2

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

60 - 28

DATA SHEET NO.

Unnamed Tributary

DAM	1. OWNER Clemmens Cattle Co.			2. STREAM of Queen Creek			3. STATE Arizona									
	4. SEC. 1 TWP. 25 RANGE 9E			5. NEAREST TOWN Florence Junction			6. COUNTY Maricopa									
	7. STREAM BED ELEVATION 96.6 *			8. TOP OF DAM ELEVATION 107.8*			9. SPILLWAY CREST ELEV. 104.8*									
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										1944					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY		104.8*		3.34		9.33		9.33		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT										1944					
WATERSHED	17. LENGTH OF RESERVOIR 0.133				MILES				AV. WIDTH OF RESERVOIR 0.038				MILES			
	18. TOTAL DRAINAGE AREA 0.65				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 10				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 0.65				SQ. MI.				23. MEAN ANNUAL RUNOFF 0.2				INCHES			
	20. LENGTH 1.8				MILES				AV. WIDTH 0.36				MILES			
	21. MAX. ELEV. --				MIN. ELEV. 96.6*				24. MEAN ANNUAL RUNOFF 6.93				AC.-FT.			
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.	
	1944		--		--		Range (D)		6		3.34		9.33		14.35	
	7-61		17		17						3.34		8.95		13.77	
	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			
	7-61		0.38		0.022		0.034		0.38		0.022		0.034			
	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				
7-61		60 (2)		44		44		0.24		4.1						

* 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
 Land Use: 100% Rangeland

48. AGENCY MAKING SURVEY **USDA-SCS, Watershed Planning Party Phoenix, Arizona**
 49. AGENCY SUPPLYING DATA **USDA-SCS**
 50. DATE 4-12-66

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Williams-Chandler Pond #2

NAME OF RESERVOIR

60-28 a

DATA SHEET NO.

DAM	1. OWNER Clemmens Cattle Co.		2. STREAM <u>Unamed tributary of Queen Creek</u>		3. STATE <u>Arizona</u>			
	4. SEC. <u>1</u> TWP. <u>2S</u> RANGE <u>9E</u>		5. NEAREST P. O. <u>Florence Jct.</u>		6. COUNTY <u>Maricopa</u>			
	7. LAT <u>11° 22' 44"</u> LONG. <u>33° 17' 8"</u>		8. TOP OF DAM ELEVATION <u>107.8*</u>		9. SPILLWAY CREST ELEV. <u>104.8*</u>			
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					1944		
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY	<u>104.8*</u>	<u>3.26</u>	<u>10.82</u>	<u>10.82</u>			
	e. IRRIGATION					1944		
	f. CONSERVATION							
	g. INACTIVE							
17. LENGTH OF RESERVOIR <u>0.133</u> MILES			AV. WIDTH OF RESERVOIR <u>0.038</u> MILES					
18. TOTAL DRAINAGE AREA <u>0.65</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>10</u> INCHES						
19. NET SEDIMENT CONTRIBUTING AREA <u>0.65</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>0.2**</u> INCHES						
20. LENGTH <u>1.8</u> MILES		AV. WIDTH <u>0.36</u> MILES		24. MEAN ANNUAL RUNOFF <u>6.93**</u> AC.-FT.				
21. MAX. ELEV. <u>1940</u>		MIN. ELEV. <u>1840</u>		25. ANNUAL TEMP: MEAN <u>69°F</u> RANGE <u>113° - 24°</u>				
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.
	<u>1944</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>3.26</u>	<u>10.82</u>	<u>1.56</u>
	<u>7/61</u>	<u>17</u>	<u>17</u>	<u>Range (D)</u>	<u>6</u>	<u>3.26</u>	<u>9.35</u>	<u>1.35</u>
	<u>1/74</u>	<u>12.5</u>	<u>29.5</u>	<u>Range (D)</u>	<u>9</u>	<u>3.26</u>	<u>8.87</u>	<u>1.28</u>
	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	
	<u>7/61</u>	<u>1.47</u>	<u>0.086</u>	<u>0.13</u>	<u>1.47</u>	<u>0.086</u>	<u>0.13</u>	
<u>1/74</u>	<u>0.48</u>	<u>0.038</u>	<u>0.06</u>	<u>1.95</u>	<u>0.066</u>	<u>0.10</u>		
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	
<u>7/61</u>	<u>60 (2)</u>	<u>174</u>	<u>174</u>	<u>0.79</u>	<u>13.6</u>			
<u>1/74</u>				<u>0.61</u>	<u>18.0</u>			

* Assumed
** Estimated

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>Land Use: 100% rangeland (desert shrub and sparse grass) Land Area: Central Arizona Basin and Range (D40) Physiographic Province: Basin and Range, Sonoran Desert Section Geology: Quaternary - Tertiary valley fill Soils: Mohall sandy loam with fine gravelly to coarse sandy protective surface and Pinamt very gravelly sandy loam with heavy surface amoring. Slopes: 2% average</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE <u>2/21/74</u>															