RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-62

Chigley Sandy Site #4 NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

50**- 46** DATA SHEET NO.

·	1.	OWNER Tate	- Golden		2. ST	REAM WA	shit	·a		3. STATE	- Oklah	
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		STORAGE			·							
	10.	ALLOCATION										
	a.	MULTIPLE USE					1					
~	b.	FLOOD CONTRO	I1. ELEVATION TOP OF POOL I2. ORIGINAL SURFACE AREA ACRES I3. ORIGINAL CAPACITY ACRE-FEET I4. GROSS STORAGE ACRE-FEET I5. DATE STORAGE BEGAN USE									
ESERVOIR	c.	POWER					1					
2	đ.	WATER SUPPLY					1					16. DATE NOR-
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ž	1.	CONSERVATION										
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	TO			(2012)		(2124)	. 1	(0.65)	(5.	55)		
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	Ĩ		~	(2012)		(2124)		(0.05)	().	557		

 $\frac{1}{1}$ Includes .24 mile in one side arm. () Both sediment and flood pool.

PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION 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 -115 -120 -12 PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION -115 -120 -12 RANGE IN RESERVOIR OPERATION RANGE IN RESERVOIR OPERATION RANGE IN RESERVOIR OPERATION -115 -120 -12 WATER YEAR MAX. ELEY MIN. ELEY. INFLOW ACFT WATER YEAR MAX, ELEY. MIN. ELEY. INFLOW ACFT Original Capacity ELEVATION-AREA-CAPACITY DATA	6. DATE OF SURVEY	43.	DEPTH	DESIGNATION	RANGE IN F	EET ABOVE,	AND BELOW,	CREST ELEVAT	FION
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AGENCY SUPPLYING DATA Stillwater, Oklahoma 50. DATE 9-25-64	AGENCY M	AKING SUR				ice 🕔 🕐			
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RESERVOIR SEDIMENT

Chigley Sandy Site No. 4

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DATA SUMMARY SCS-34 Rev. 6-66

NAME OF RESERVOIR

50-45a DATA SHEET NO.

—	,	OWNER Tat	te-Gol	len		2. STR	EAM	Washi	ta	13	. STATE	0k1a	noma			
¥Υ		SEC.1 & 12 TH										6. COUNTY Garvin				
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				ing.					RIGINAL	•		STORAGE,	15. DAT			
	10.	STORAGE ALLOCATION		ELEVATIO	· •	2. ORIGII	NAL AREA, ACRES	-			ACRE-F			E BEGAN		
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ERVOIR		MULTIPLE USE										<u> </u>	4			
Ъ.		POWER									···		16. DAT	E NOR-		
ESE		WATER SUPPLY								_			MAL OPE	R. BEGAN		
æ		IRRIGATION											-			
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	-	INACTIVE		1025.8			+3.04		251.15		231.	.06		MUEC		
		LENGTH OF RES			<u>.90</u>				TH OF RES					MILES INCHES		
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			.95		V. WIDTH				AN ANNUA			RANGESU	hhumid			
WAT	21.	MAX. ELEV. L	165'		IIN. ELEV.				NUAL TEMP							
	26.	DATE OF	27. PERIOD	28. ACCL.	29, TYPE SUR		30, NO, OF R			ACE	32. CAP	ACITY, E-FEET	33. C/I, R ACFT.PE	,		
		SURVEY	YEARS	YEARS												
		8-12-55	-	-	Range	• -	9					(1075.3				
		3-25-58			Range		9		•			(1054.8	•	• -		
		10-3-63	5.52	8.14	Range		9		43.0(12	0.1)	212.9	(1018.0).25([1.17]		
		7-8-69	5.76	13.90	Range		9 (R									
					Conto	u r (D)	2' C	.I.	40.2(12	0.1)	194.3	(966.7)	.22 ((1.11)		
	26.	DATE OF	34. PER ANI				WATER INFI					ER INFL.				
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DATA														·		
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SURVEY	26.	DATE OF	37.			PACITY LOSS, ACRE-F			_			SITS TO DA				
S		SURVEY					c.PER SQ. M						c. PER SQ	. MIYEAF		
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		10-3-63	1	.38	4.		1.3		38.2			.70		26		
				.80)		67)	(1.7		(57.3	•		.04)		.89)		
		7-8-69		18.60			0.8		56.8			.09		10		
			(51	.30)		91)	(2.3		(108.6	-		.81)		.09)		
	26.	DATE OF					IS PER SQ. N									
		SURVEY	LBS. PE	R CU. FT.	a. PERIC		b. TOTAL TO	DATE				a. PERIOD	ь. то	T. TO DATE		
		3-25-58	51	.61(8)			1259		1.66		.34					
					(236		(2361)		(0.73)		.91)		1			
	ŀ	10-3-63	51	.61(8)			1416		1.87	15.						
					(201	•	(2124)		(0.65)	-	,33)					
		7-8-69	3	d P(3)			934		1.63	22.			1			
1			82 De	t P(3)	(345	4)	(2702)		(0.73)	(10.	.10)			-		
L					hted #											

NOTE: Figures in parentheses represent sediment and flood control pools.

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26. DATE OF SURVEY	Ī		Ι		1	32	28	2	5.9			24	-102	<u>5110</u> 1	5	12	08	-
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26. DATE OF		44.		REACH	DESIG	NATION	PERCE	NT OF	TOT	'AL (ORIG	INAL LE	NGTH	OF RES	ERV	DIR		٦
SURVEY		0-10	10-20		30-40			60-7D	70	· •		90-100		-110		15 -1	20 -12	5
				PERC	ENT O	F TOTA	L SEDIN	IENT L	A30	TED	WIT	HIN RE	ACH DE	SIGNA	ION]
						1								Ì		1		
															· ·			
45.		1	-	I	R	ANGE II	RESER		OPFI	RATI	ION		I	Ļ	L	<u> </u>	11	┥
45. WATER YEAI	R	MAX. I	LEV.	MIN.			AC. FT.				•	AX. ELE	v.	MIN. EL	EV.	INFLO	N, ACFT.	1
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															•			
						:												
		-	•											•				
																1		
																1		
											1							
46.					_	ELEVAT	ON-ARE	A-CAF	ACIT	YD	ATA	1/						
ELEVATION		REA		PACITY		VATION		EA			ACITY		VATION		REA		APACITY	
1000 0		lgina.		acity	- L	008.0		84		0.	.37	- E	22.0	1	1.0		79.3	
1036.0		20.07		5.32	1		59 Car				~		20.0	1 1	3.7		44.9	
1032.0		93.01		0.25		036.0	120.			66. .c			18.0		7.2		24.3	1
1028.0 1025.9		56.16 43.04	1	5.00		034.0				46. 62.			16.0 14.0		4.3		13.0	
1023.9 1024.0	_	43.04 31.43		1.15	•	030.0			•	οz. 13.			12.0	1	3.1		5.8	
1024.0		L8.40		2.97		028.0				93.		1 10	14 •V		1.7		1.1	
1016.0		7.48		2.82		025.8				94.								
1012.0		3.62		1.09		024.0				29.		•		1				
47. REMARKS	ANF								1	-/*	. •			1	··· ·			4
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Geology:												720	144 -	- 1 1		_ 08		
Land Use		.ultiv (1969			ras	ture-I	ange	00%,	WO	001	and	31%,	M18C	eilan	eou	s 2%		
Land Reso					ጥተም	here		-					•					
						a-Capa	acitv	Data	ΠO	t۶	ivsi	lahle	_					
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		NO 0117		0k1	ahom	a Wate	ershed	Pla	nni	ng	Sta	ff						
48. AGENCY N				S.C	.S.	U.S.1).A.					E	0 DATE	12	-10	-69		
49. AGENCY S												5		·				
SUBA-BUS ATAITSVILLE.																	April 19	86

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RESERVOIR SEDIMENT

DATA SUMMARY SCS-34 Rev. 6-66

Chigley Sandy Site #4

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

<u>50-45b</u>

NAME OF RESERVOIR

												TA SHEET	NO.
·]	1	OWNER Tate	Coldo			2. STF	FAM W	ashit		13	STATE	0k1ah	oma
DAM		SEC. 1&12 TW		RANG	е 2E		AREST P.O					Garvi	
à		LAT. 34 50 '							N 1041.0			-	LEV. 1025.86
_					1								· · · · · · · · · · · · · · · · · · ·
	10.	ALLOCATION	11.	ELEVATIO TOP OF P		12. ORIGI SURFACE		1	RIGINAL		GROSS ST ACRE-FEE		15. DATE STORAGE BEGAN
ľ	a. FLOOD CONTROL 1036.00				120	0.07	ĺ	824.17	1	075.32	2	3-12-55	
Ξ	b.	MULTIPLE USE]
ERVUIR	с.	POWER											16. DATE NOR-
S	d.	WATER SUPPLY											MAL OPER. BEGA
RE	e.	IRRIGATION											
	f.	CONSERVATION						_					1
	g.	INACTIVE $1/$	1	025.86		4:	3 <u>.04</u>		251.15		251.1	5	3-12-55
	17.	LENGTH OF RES	SERVOIR		.90		MILES	AV. WIE	TH OF RESER			.21	MILES
	18.	TOTAL DRAINAG	E AREA	3	.80		SQ. MI.	22. ME	AN ANNUAL	PRECIPIT	TATION	37.00	INCHE
SF	19.	NET SEDIMENT	CONTRIB	UTING AR	EA	3.61	SQ. MI.	23. ME	AN ANNUAL	RUNOFF		4.29	INCHE
ш	20.	. LENGTH 2.	.95	MILES	AV. WIDTH	1.29	9 MILES		AN ANNUAL			69.4	ACF 1
VAT	21.	. MAX. ELEV. 1.	165.0	, N	MIN. ELEV	. 1008.	.5	25. AN	NUAL TEMP.	MEAN	62 ⁰ R	ANGE-1	5 [°] to 114 [°]
7		. DATE OF	27.	28.	29. TYP			RANGES	31. SURFAC	E 3	2. CAPAC	ятγ, З	33. C/I, RATIO,
		SURVEY	PERIOD YEARS	ACCL. YEARS	SUF	RVEY	OR CONTO	UR INT.	AREA, A	CRES	ACRE-	FEET	ACFT. PER ACFT
	8	-12-55	-	- 1	Range	e (D)	9 (R)	43.0(12	0.1)2	51.2(1075.3)0.29(1.24)
	3-25-58		2.62	2.62		u Ì	9 (R)0.28(1.21)
		0-3-63	5.52	8.14	. I	IT.	9 (R)0.25(1.17)
	7	-8-69		13.90	Range	e	9 (R						0.22(1.11)
					-	our(D)	2'C.			1	·		• •
	5	-20-74	4.87	18.77		H É	11		35.3(11	9.71	78.3(9	948.4)	0.21(1.09)
	26	DATE OF	34. PEF		35.	PERIOD	NATER IN	FLOW.	L ACRE-FEET	3	6. WATEF	RINFL T	O DATE, ACFT
	20	SURVEY		NUAL PITATION									. TOTAL TO DAT
EY DATA												1	
3 V E	26	DATE OF	37.	PERIC	D CAPA	CITY LOS	S, ACRE-	FEET	38. TOTAL	SED.	DEPOSIT	S TO DA	TE, ACRE-FEET
SURVI		SURVEY	a. PERIO	DD TOTAL					a. TOTAL TO				. PER SQ. MI. YEA
		0 10 55				<u> </u>	_			_	_		
		8-12-55 3-25-58	10.00	20.5)	1. 16			-	10.9(20		-	8.0	
		10-3-63		36.8)	4,10	(7.03)	1.37 (4.1/) 1 95)	38.3(57	3) 4	70(7		1.75 (2.17)
				51.3)						-	-	and 1	1.30 (1.95)
		7-8-69 5-20-74	1 '				0.89 (1.13 (2.16
		5-20-74	10.00	18.3)	5.29	(3.70)	0.91 (1.04)	12.9(12	0.713	.00(0	.70)	1.08 (1.87)
	26	DATE OF	39 AV 1	DRY WGT.	4n SED.	DEP. TOP	SPERSO.	MIYR	41.STORAGE	E LOSS.	PCT. 42	. SED.	INFLOW, PPM
	20	SURVEY		R CU. FT.	a PER				a. AV. ANN. b			PERIOD	b. TOT. TO DAT
		8-12-55	<u>† _ </u>		-	_	_	_			- -	_	
		3-25-58	51.61	(8)	1293(2439)	1293 (2439)	1.7(0.7)4.34	(1.91))	
							1			115 2	75 all		
					1546 (2076)	1461 (2191)	1.9(0.7) 13. 2	\?• 4/		
		10-3-63	51.61	(8)			1461 (959 ()22.6	(10.1))	
			51.61 39Sed		254(2076) 3667) 734)	1461 (959 (612 (2798)	1.6(0.7)22.6	(10.1)		

 $\frac{1}{Note}$ Sediment Pool (Note) Figures in parentheses include both sediment and flood pool.

26. DATE OF	43. 1936-11			ATION F	RANGE	IN FEET E	BELOW	2 AND	ABOVE, 16511	, CRES 012- 08	T ELEV	ATION		
SURVEY				DF TOTA	<u>24</u> L SEDIN	<u> 20</u> /ENT LOC					GNATH		J	
7-8-69	19.3	24.0	4.2		4.6	12.8	T			9.2				
5-20-74	16.9	16.9	8.7		9.1	13.9	13	.4 13	.2	7.9				
							ł				ŧ			
6. DATE OF	44.	REACH	DESIG			NT OF TO						RVOIR		
SURVEY	0-10 10-		30-40			60-70 70 IENT LOC				~105	-110	-115	- 120	-125
		FER		T T					REACI					
	1													
			1											
			ļ			1								
5.	1 I	i	R	ANGE IN	RESEF	NOIR OP	ERATIC		<u>I</u>	I	L.			
WATER YEAR	MAX. ELEV	V. MIN.	ELEV.	INFLOW	AC. FT.	WATER	EAR	MAX	ELEV.	N	IIN. ELE	/. IN	IFLOW,	AC. FT.
										1				
	1						1							
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46.					T	A-CAPAC			2/			•		
ELEVATION	AREA	CAPACITY	ELE	VATION	AF	REA	CAPA	CITY	ELEVAT	TION	AR	EA	CAP	ACITY
s	iee attac	ched sh	eet											
													ĺ	
47. REMARKS AN	D REFEREN	ICES			1	1							L	
Geology:														
Land Use:														
Land Resou	Croplan				1ge 6(7%, Tim	ber :	51%,	Misce	±1an	eous	2% (1999	surv
	id 1963 E				acity	7 Data	not	avail	able.					
- Z/ IND AD														
<u>2</u> / 1900 an														
<u>2</u> / 1956 an														
<u>2</u> 7 1936 an														
<u>2</u> / 1936 ar														
_														
2/ 1938 an 48. AGENCY MAK 49. AGENCY SUP			oma W USDA	laters	ned &	River	Basi	.n P1a			aff Decemb			