

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Honey Creek No. I-1

SOIL CONSERVATION SERVICE
31-28
DATA SHEET NO.

DAM	1. OWNER G & M Edgington			2. RIVER Trib. of Honey Cr.		3. STATE Iowa		
	4. SEC. 14 TWP. 7N RANGE 20W			5. NEAREST TOWN Russell		6. COUNTY Lucas		
	7. STREAM BED ELEV. 933.0			8. TOP OF DAM ELEV. 958.0		9. SPILLWAY GREST ELEV. 955.0		
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL		955.0	8.312	75.581	105,986	Nov. 14, 1955	
	b. POWER							
	c. WATER SUPPLY						16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE 1/		946.0	4.875	30.325	30.325		
WATERSHED	17. LENGTH OF RESERVOIR 0.405 2/ MILES			18. AV. WIDTH OF RESERVOIR 0.016 MILES				
	19. TOTAL DRAINAGE AREA 0.503 SQ. MI.			20. MEAN ANNUAL PRECIPITATION 31.7 INCHES				
	21. NET SEDIMENT CONTRIBUTING AREA 0.482 (0.495) SQ. MI.			22. MEAN ANNUAL RUNOFF 4.74 3/ INCHES				
	23. LENGTH 1.098 MILES AV. WIDTH 0.458 MILES			24. MEAN ANNUAL RUNOFF 127.19 3/ AC.-FT.				
	25. MAX. ELEV. 1,025		26. MIN. ELEV. 933.0		27. CLIMATIC CLASSIFICATION Humid			
SURVEY DATA	28. DATE OF SURVEY	29. PERIOD YEARS	30. ACCL. YEARS	31. TYPE OF SURVEY	32. NO. OF RANGES OR CONTOUR INT.	33. SURFACE AREA ACRES	34. CAPACITY ACRE- FEET	35. C _w RATIO AC.-FT. PER SQ. MI.
	Nov. 1955	-	-	Range	11	13.2(4.88)	106(30.3)	211(60)
	Oct. 1958	2.92	2.92	#	"	" "	105(29.0)	208(58)
	Sept. 1959	0.92	3.84	"	"	" "	104(28.2)	206(56)
	Jan. 1961 4/	1.33	5.17	#	#	" "	104(28.2)	206(56)
	36. DATE OF SURVEY	37. PERIOD ANNUAL PRECIPITATION	38. PERIOD WATER INFLOW ACRE- FEET		39. WATER INFL. TO DATE AC.-FT.			
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	e. TOTAL TO DATE	
	Cal. Yr. 1956	8.41 5/						
	1957	33.66 5/						
	1958	32.66 5/						
1959	46.65 5/							
40. DATE OF SURVEY	41. PERIOD SEDIMENT DEPOSITS ACRE- FEET		42. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.					
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
Oct. 1958	1.19(1.31)	0.41(0.45)	0.85(0.91)	1.19(1.31)	0.41(0.45)	0.85(0.91)		
Sept. 1959	0.98(0.83)	1.07(0.91)	2.22(1.84)	2.17(2.14)	0.57(0.56)	1.18(1.13)		
Jan. 1961 4/	0 (0)	0 (0)	(0) (0)	2.17(2.14)	0.42(0.41)	0.87(0.83)		
43. DATE OF SURVEY.	44. AV. DRY WGT. LBS. PER CU. FT.	45. SED. DEP. TONS PER SQ. MI.-YR.		46. STORAGE LOSS PCT.		47. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE	
Oct. 1958	66.0 6/	1.2(1.3)	1.2(1.3)	0.4(1.5)	1.1(4)			
Sept. 1959	66.0	3.2(2.6)	1.7(1.6)	0.5(1.9)	2.1(7)			
Jan. 1961 4/	66.0	0 (0)	1.3(1.2)	0.4(1.4)	2.1(7)			

(thousand tons)

26. DATE OF SURVEY Nov. 1955	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	Inactive Pool ^{1/}	F.C. Pool ^{1/}											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Oct. 1958	1/												
Sept. 1959	98%	2%											
Jan. 1961 ^{4/}	98%	2%											

26. DATE OF SURVEY Nov. 1955	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														
Oct. 1958	23	30	23	22	2	0	8/	0	0	0	0				
Sept. 1959	20	26	24	21	8	0	0	0	0	0	1				
Jan. 1961 ^{4/}	20	26	24	21	8	0	0	0	0	0	1				

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 Quantities shown in parenthesis (except item 39) refer to amounts in the inactive pool only. ^{8/} Principal spillway elevation (946.0) ends at 62% of total length.

^{1/} Storage used for sediment pool.

^{2/} Additional 0.683 miles of principal arm not included.

^{3/} Water years 1952-53 thru 1958-59 at gage 1.92 miles downstream.

^{4/} Surveys indicated no sediment deposited since 1959 survey.

^{5/} Amount partially estimated.

^{6/} Average of two samples taken in 1959.

^{7/} More sediment below principal than total because of scouring above principal.

48. AGENCY SUPPLYING DATA Soil Conservation Service

49. DATE Feb. 16, 1961