

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

Honey Creek No. A-2

SOIL CONSERVATION SERVICE  
31-24  
DATA SHEET NO.

DAM	1. OWNER <b>Will Phippen</b>			2. RIVER <b>Trib. of Honey Cr.</b>			3. STATE <b>Iowa</b>				
	4. SEC. <b>6</b> TWP. <b>21N</b> RANGE <b>20W</b>			5. NEAREST TOWN <b>Russell</b>			6. COUNTY <b>Iucas</b>				
	7. STREAM BED ELEV. <b>1,000.0</b>			8. TOP OF DAM ELEV. <b>1,023.5</b>			9. SPILLWAY CREST ELEV. <b>1,021.0</b>				
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	<b>1,021.0</b>	<b>6.465</b>	<b>37.183</b>	<b>52.715</b>	<b>Oct. 6, 1956</b>					
	b. POWER										
	c. WATER SUPPLY										
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE <b>1/</b>	<b>1,014.0</b>	<b>2.561</b>	<b>15.532</b>	<b>15.532</b>	<b>Oct. 6, 1956</b>					
17. LENGTH OF RESERVOIR <b>0.219 2/</b>			MILES			17. AV. WIDTH OF RESERVOIR <b>0.052</b>			MILES		
WATERSHED	18. TOTAL DRAINAGE AREA <b>.278</b>			SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>31.7</b>			INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.264 (0.274)</b>			SQ. MI.			23. MEAN ANNUAL RUNOFF <b>4.74 (3)</b>			INCHES	
	20. LENGTH <b>0.833</b>		MILES		20. AV. WIDTH <b>0.334</b>		MILES		24. MEAN ANNUAL RUNOFF <b>70.31 3/</b>		
	20. LENGTH <b>0.833</b>		MILES		20. AV. WIDTH <b>0.334</b>		MILES		24. MEAN ANNUAL RUNOFF <b>70.31 3/</b>		
21. MAX. ELEV. <b>1,039</b>			MIN. ELEV. <b>1,000.0</b>			25. CLIMATIC CLASSIFICATION <b>Humid</b>					
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.			
	Oct. 1956	-	-	Range	5	9.3(2.56)	52.7(15.5)	189(56)			
	Oct. 1958	2.00	2.00	"	"	" "	52.3(15.2)	188(55)			
	Sept. 1959	0.92	2.92	"	"	" "	52.2(15.0)	188(54)			
	Jan. 1961 1/4	1.33	4.25	-	-	- -	52.2(15.0)	188(54)			
	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				
	Cal. Year										
	1956	8.41 5/									
	1957	33.66 5/									
	1958	32.66 5/									
	1959	46.65 5/									
	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. 1958	0.37(0.37)	0.19(0.19)	0.71(0.68)	0.37(0.37)	0.19(0.19)	0.71(0.68)					
Sept. 1959	0.18(0.19)	0.20(0.20)	0.74(0.74)	0.55(0.56)	0.19(0.19)	0.71(0.70)					
Jan. 1961 1/4	0 (0)	0 (0)	0 (0)	0.55(0.56)	0.13(0.13)	0.49(0.48)					
28. 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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
Oct. 1958	66.0 6/	1.0(1.0)	1.0(1.0)	0.4(1.2)	0.7(2)						
Sept. 1959	66.0	1.1(1.1)	1.0(1.0)	0.4(1.2)	1.0(4)						
Jan. 1961 1/4	66.0	0 (0)	1.0(1.0)	0.2(0.8)	1.0(4)						

(Thousand Tons)

26. DATE OF SURVEY Oct. 1956	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	"Inactive Pool"	"F.C. Pool"											
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
Oct. 1958	100%	0											
Sept. 1959	7/7												
Jan. 1961 4/	7/7												

26. DATE OF SURVEY Oct. 1956	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	16	30	30	13	8	8/1	1	1	0	0					
Sept. 1959	20	35	25	11	9	0	0	0	0	0					
Jan. 1961 4/	20	35	25	11	9	0	0	0	0	0					

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 (1014.0) ends at 57% of total length.

1/ Storage used for sediment pool.

2/ Additional 0.050 miles of principal arm not included.

3/ Water years 1952-53 thru 1958-59 at gage 6.58 miles downstream.

4/ Surveys indicated no sediment deposited since survey in 1959.

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