

RESERVOIR SEDIMENT
DATA SUMMARY

'S-34 Rev. 6-66

WALTERS CREEK 18-2

NAME OF RESERVOIR

60 SE
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

31-73

DATA SHEET NO.

DAM	1. OWNER <u>DILPHAS MARCIER</u>			2. STREAM TRIB. OF <u>WALTERS CR</u>		3. STATE <u>IOWA</u>					
	4. SEC. <u>16</u> TWP. <u>72 N</u> RANGE <u>34 W</u>			5. NEAREST P.O. <u>CORNING</u>		6. COUNTY <u>ADAMS</u>					
	7. LAT. " " " " " " " "			8. TOP OF DAM ELEVATION <u>1168.5</u>		9. SPILLWAY CREST ELEV. <u>1165.2</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		<u>1165.2</u>		<u>11,729</u>		<u>66,726</u>		<u>114,109</u>		<u>Feb. 1975</u>
	b. MULTIPLE USE										
	c. POWER										
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN
	e. IRRIGATION										
	f. CONSERVATION										
g. INACTIVE		<u>1157.7</u>		<u>5.460</u>		<u>47.383</u>		<u>47.383</u>		<u>Feb 1975</u>	
WATERSHED	17. LENGTH OF RESERVOIR <u>0.284</u> MILES				AV. WIDTH OF RESERVOIR <u>0.030</u> MILES						
	18. TOTAL DRAINAGE AREA <u>0.641</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>30.59</u> INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.622 (0.632)</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>5.2</u> INCHES						
	20. LENGTH <u>8550 FT</u> MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF <u>177.8</u> AC.-FT.				
	21. MAX. ELEV. <u>1300</u>		MIN. ELEV. <u>1132.0</u>		25. ANNUAL TEMP: MEAN <u>49.8</u> RANGE - <u>22</u> <u>70</u> <u>112</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>FEB 1975</u>		<u>-</u>	<u>-</u>	<u>RANGE (D)</u>	<u>9</u>	<u>114.11 (5.46)</u>		<u>114.54 (49.6)</u>		<u>0.64 (0.27)</u>
	<u>JAN 1980</u>		<u>1.9</u>	<u>4.9</u>	<u>"</u>	<u>"</u>	<u>(5.52)</u>		<u>110.94 (46.0)</u>		<u>0.62 (0.26)</u>
	<u>JAN 1986</u>		<u>5.0</u>	<u>9.9</u>	<u>"</u>	<u>"</u>	<u>(5.52)</u>		<u>105.74 (40.8)</u>		<u>0.60 (0.23)</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>2/75</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>				
<u>1/80</u>		<u>3.6 (3.6)</u>	<u>0.74 (0.74)</u>	<u>1.18 (1.18)</u>	<u>3.6 (3.6)</u>	<u>0.74 (0.74)</u>	<u>1.18 (1.18)</u>				
<u>1/86</u>		<u>5.2 (5.2)</u>	<u>1.04 (1.04)</u>	<u>1.67 (1.67)</u>	<u>8.8 (8.8)</u>	<u>0.99 (0.89)</u>	<u>1.43 (1.43)</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>1/80</u>		<u>48.1</u>	<u>6063</u>	<u>6063</u>	<u>0.6 (1.6)</u>	<u>3.1 (8.0)</u>					
<u>1/86</u>		<u>40.1</u>	<u>7302</u>	<u>13365</u>	<u>1.5 (5.1)</u>	<u>7.6 (25.7)</u>					

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

PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
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WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
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ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

48. AGENCY MAKING SURVEY _____
 49. AGENCY SUPPLYING DATA _____
 50. DATE _____