

RESERVOIR SEDIMENT
DATA SUMMARY

Kaercher Creek PA-476

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

4-22

DATA SHEET NO.

DAM	1. OWNER <u>Berks County S.C.D.</u>			2. STREAM <u>Kaercher Creek</u>			3. STATE <u>Pennsylvania</u>									
	4. SEC. <u>TWP.</u> <u>RANGE</u>			5. NEAREST P.O. <u>Hamburg</u>			6. COUNTY <u>Berks</u>									
	7. LAT. <u>40°34' 10"</u> LONG. <u>75° 50' 45"</u>			8. TOP OF DAM ELEVATION <u>522.0</u>			9. SPILLWAY CREST ELEV. <u>516.0</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>516.0</u>		<u>5.39</u>		<u>61.69</u>		<u>69.18</u>							
	b. MULTIPLE USE															
	c. POWER										<u>12/65</u>					
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE		<u>501.0</u>		<u>1.74</u>		<u>7.49</u>		<u>7.49</u>		<u>12/65</u>					
WATERSHED	17. LENGTH OF RESERVOIR				<u>.156</u> MILES		AV. WIDTH OF RESERVOIR				<u>.054</u> MILES					
	18. TOTAL DRAINAGE AREA				<u>.50</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION				<u>43</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				<u>.49</u> SQ. MI.		23. MEAN ANNUAL RUNOFF				<u>20</u> INCHES					
	20. LENGTH <u>1.4</u> MILES		AV. WIDTH <u>.36</u> MILES		24. MEAN ANNUAL RUNOFF				<u>533</u> AC.-FT.							
	21. MAX. ELEV. <u>1510</u>				MIN. ELEV. <u>500</u>		25. ANNUAL TEMP.: MEAN <u>51°F</u> RANGE <u>40°-62°F</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>5/67^{3/}</u> <u>(12/65 storage)</u>		<u>1.5</u>		<u>1.5</u>		<u>Range D^{1/}</u>		<u>9 R</u>		<u>1.74</u>		<u>7.49</u>		<u>0.13</u>	
	<u>9/75</u>		<u>9.75</u>		<u>11.25</u>		<u>Range D^{2/}</u>		<u>11 R</u>		<u>5.39</u>		<u>69.18</u>		<u>0.13</u>	
	<u>9/75</u>		<u>9.75</u>		<u>11.25</u>		<u>Range <u>1/</u></u>		<u>8 R</u>		<u>1.74</u>		<u>6.46</u>		<u>0.13</u>	
	<u>9/75</u>		<u>9.75</u>		<u>11.25</u>		<u>Range <u>2/</u></u>		<u>13 R</u>		<u>5.39</u>		<u>68.15</u>		<u>0.13</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			
	<u>5/67</u> <u>9/75</u>		<u>-</u> <u>50.3</u>													
	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>5/67</u> <u>9/75</u>		<u>0.0</u> <u>1.03</u>		<u>0.0</u> <u>0.11</u>		<u>0.0</u> <u>0.22</u>		<u>0.0</u> <u>1.03</u>		<u>0.0</u> <u>0.11</u>		<u>0.0</u> <u>0.22</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>5/67</u> <u>9/75</u>		<u>-</u> <u>57.7</u>		<u>0.00</u> <u>276.5</u>		<u>0.0</u> <u>276.5</u>		<u>0.0</u> <u>1.47^{1/}</u> <u>.16^{2/}</u>		<u>0.0</u> <u>13.75^{1/}</u> <u>1.49^{2/}</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	-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 <u>1/</u> Sediment pool only <u>2/</u> At emergency spillway crest <u>3/</u> Original survey made 1 - 1/2 years after storage began: amount of sediment deposited negligible.															
48. AGENCY MAKING SURVEY				Soil Conservation Service				50. DATE <u>2/76</u>							
49. AGENCY SUPPLYING DATA															