

0.20

RESERVOIR SEDIMENTATION
DATA SUMMARY

Upper Pine

25-2

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <u>State of Iowa</u>			2. RIVER <u>Pine Creek</u>			3. STATE <u>Iowa</u>					
	4. SEC. <u>3,4</u> TWP. <u>87N</u> RANGE <u>19W</u>			5. NEAREST TOWN <u>Eldora</u>			6. COUNTY <u>Hardin</u>					
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. <u>994.4</u>					
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					May 1934						
	b. POWER											
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION											
	e. CONSERVATION	<u>994.4</u>	<u>69.9</u>	<u>660</u>	<u>660</u>	May 1934						
	f. INACTIVE											
17. LENGTH OF RESERVOIR		MILES		AV. WIDTH OF RESERVOIR		MILES						
WATERSHED	18. TOTAL DRAINAGE AREA <u>13.9</u>			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA <u>13.8</u>			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF <u>327/sq.mi.*</u>		AC-FT.	
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION					
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.				
	<u>May 1934</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>69.9</u>	<u>660</u>	<u>47.5</u>				
	<u>Sept. 1947</u>	<u>13.3</u>	<u>13.3</u>	<u>Range Detailed</u>	<u>7</u>	<u>57.6</u>	<u>452</u>	<u>32.5</u>				
SURVEY DATA	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>Sept. 1947</u>		<u>342 per sq. mi.*</u>			<u>342 per sq. mi.*</u>						
SURVEY DATA	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR					
	<u>Sept. 1947</u>	<u>208</u>	<u>15.7</u>	<u>1.14</u>	<u>208</u>	<u>15.7</u>	<u>1.14</u>					
SURVEY DATA	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
	<u>Sept. 1947</u>	<u>60*</u>	<u>1,490*</u>	<u>1,490*</u>	<u>2.38</u>	<u>31.5</u>	<u>4,400*</u>	<u>4,400*</u>				

* Estimated

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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.																	
1. Brune, G.M., Rates of sediment production in Midwestern United States, SCS-TP-65, Soil Conservation Service, Milwaukee, Wisconsin, Dec. 1948.																	
Region 3, Soil Conservation Service U. S. Dept. of Agriculture																	
48. AGENCY SUPPLYING DATA Milwaukee, Wisconsin																	
49. DATE June 1950																	