

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

Mule Creek "R"  
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE  
35 - 49  
DATA SHEET NO.

DAM	1. OWNER <b>Elden Grudle</b>			2. RIVER Trib. of Mule Cr.		3. STATE <b>Iowa</b>								
	4. SEC. <b>1</b> TWP. <b>71N</b> RANGE <b>42W</b>		5. NEAREST TOWN <b>Malvern</b>			6. COUNTY <b>Mills</b>								
	7. STREAM BED ELEV. <b>1056.8</b>			8. TOP OF DAM ELEV. <b>1097.0</b>		9. SPILLWAY CREST ELEV. <b>1094.0</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>1094.0</b>		<b>8.678</b>		<b>62.437</b>		<b>103.709</b>		<b>Oct. 1955</b>			
	b. POWER													
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION													
	e. CONSERVATION										<b>Oct. 1955</b>			
	f. INACTIVE <b>1/</b>		<b>1087.7</b>		<b>5.972</b>		<b>41.272</b>		<b>41.272</b>					
17. LENGTH OF RESERVOIR <b>0.288 2/</b> MILES					AV. WIDTH OF RESERVOIR <b>0.058</b> MILES									
WATERSHED	18. TOTAL DRAINAGE AREA <b>0.819</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>28.65</b> INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.796(0.810)</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>3.96 3/</b> INCHES									
	20. LENGTH <b>1.72</b> MILES		AV. WIDTH <b>0.476</b> MILES		24. MEAN ANNUAL RUNOFF <b>43.7 3/</b> AC.-FT.									
	21. MAX. ELEV. <b>1,220</b>			MIN. ELEV. <b>1,056.8</b>			25. CLIMATIC CLASSIFICATION <b>Sub-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.			
	<b>Oct. 1955</b>		<b>-</b>	<b>-</b>	<b>Range</b>	<b>13</b>	<b>14.7(5.97)</b>		<b>103(41.3)</b>		<b>127(50)</b>			
	<b>Oct. 1956</b>		<b>1.00</b>	<b>1.00</b>	<b>"</b>	<b>"</b>	<b>" "</b>		<b>100(38.0)</b>		<b>123(46)</b>			
	<b>Sept. 1957</b>		<b>0.92</b>	<b>1.92</b>	<b>"</b>	<b>"</b>	<b>" "</b>		<b>97.4(36.1)</b>		<b>119(44)</b>			
	<b>Sept. 1958</b>		<b>1.00</b>	<b>2.92</b>	<b>"</b>	<b>"</b>	<b>" "</b>		<b>97.2(35.5)</b>		<b>119(43)</b>			
	<b>Jan. 1960</b>		<b>1.33</b>	<b>4.25</b>	<b>"</b>	<b>"</b>	<b>" "</b>		<b>94.6(32.8)</b>		<b>116(40)</b>			
	<b>Dec. 1960</b>		<b>0.92</b>	<b>5.17</b>	<b>"</b>	<b>"</b>	<b>" "</b>		<b>93.2(31.4)</b>		<b>114(38)</b>			
	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		d. MEAN ANNUAL		b. TOTAL TO DATE	
	<b>Cal. Year</b>													
	<b>1955</b>		<b>20.91 4/</b>											
	<b>1956</b>		<b>28.56 4/</b>											
	<b>1957</b>		<b>38.80 4/</b>											
	<b>1958</b>		<b>36.15</b>											
	<b>1959</b>		<b>42.87</b>											
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					
<b>Oct. 1956</b>		<b>3.32(3.01)</b>	<b>3.32(3.31)</b>	<b>4.17(4.09)</b>	<b>3.32(3.01)</b>		<b>3.32(3.31)</b>		<b>4.17(4.09)</b>					
<b>Sept. 1957</b>		<b>2.92(1.86)</b>	<b>3.17(2.02)</b>	<b>3.98(2.49)</b>	<b>6.23(5.16)</b>		<b>3.25(2.69)</b>		<b>4.08(3.32)</b>					
<b>Sept. 1958</b>		<b>0.32(0.61)</b>	<b>0.32(0.61)</b>	<b>0.40(0.75)</b>	<b>6.55(5.77)</b>		<b>2.24(1.98)</b>		<b>2.81(2.45)</b>					
<b>Jan. 1960</b>		<b>2.53(2.71)</b>	<b>1.90(2.04)</b>	<b>2.39(2.52)</b>	<b>9.08(8.48)</b>		<b>2.14(2.00)</b>		<b>2.69(2.47)</b>					
<b>Dec. 1960</b>		<b>1.42(1.36)</b>	<b>1.54(1.47)</b>	<b>1.93(1.81)</b>	<b>10.5(9.84)</b>		<b>2.03(1.90)</b>		<b>2.55(2.35)</b>					
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
<b>Oct. 1956</b>		<b>66.4(4)</b>		<b>6.0(5.9)</b>		<b>6.0(5.9)</b>		<b>3.2(8.0)</b>		<b>3.2(8)</b>				
<b>Sept. 1957</b>		<b>64.4(3)</b>		<b>5.6(3.5)</b>		<b>5.7(4.7)</b>		<b>3.1(6.5)</b>		<b>6.0(13)</b>				
<b>Sept. 1958</b>		<b>64.8(3)</b>		<b>0.6(1.1)</b>		<b>4.0(3.5)</b>		<b>2.2(4.8)</b>		<b>6.3(14)</b>				
<b>Jan. 1960</b>		<b>55.6(3)</b>		<b>2.9(3.1)</b>		<b>3.3(3.0)</b>		<b>2.1(4.9)</b>		<b>8.8(21)</b>				
<b>Dec. 1960</b>		<b>55.7(3)</b>		<b>2.3(2.2)</b>		<b>3.1(2.9)</b>		<b>2.0(4.6)</b>		<b>10.1(24)</b>				

(Thousand Tons)

26. DATE OF SURVEY Oct. 1955	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. 1956	100%	0%										
Sept. 1957	83%	17%										
Sept. 1958	88%	12%										
Jan. 1960	93%	7%										
Dec. 1960	94%	6%										

26. DATE OF SURVEY Oct. 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. 1956	24	26	18	12	9	6	4	1	5/0	0					
Sept. 1957	18	25	18	13	9	7	6	4	0	0					
Sept. 1958	21	24	16	10	8	9	8	3	1	0					
Jan. 1960	21	25	15	10	9	9	7	3	1	0					
Dec. 1960	20	26	16	11	9	8	6	3	1	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.

- 1/ Storage used for sediment pool.
- 2/ Additional 0.108 miles of principal arm not included.
- 3/ Water years 1954-55 thru 1958-59 at gage 4.0 miles downstream.
- 4/ Amount partially estimated.
- 5/ Principal spillway elevation (1087.7) ends at 85% of total length.

48. AGENCY SUPPLYING DATA Soil Conservation Service      49. DATE January 1961

**RESERVOIR SEDIMENT  
DATA SUMMARY**  
SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Mule Creek "B"  
NAME OF RESERVOIR

35-49A  
DATA SHEET NO.

DAM	1. OWNER <u>Elden Grudle</u>			2. STREAM <u>Trib. of Mule Cr.</u>			3. STATE <u>Iowa</u>									
	4. SEC. <u>1</u> TWP. <u>71N</u> RANGE <u>12W</u>			5. NEAREST TOWN <u>Malvern</u>			6. COUNTY <u>Mills</u>									
	7. STREAM BED ELEVATION <u>1056.8</u>			8. TOP OF DAM ELEVATION <u>1097.0</u>			9. SPILLWAY CREST ELEV. <u>1094.0</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. MULTIPLE USE															
	b. FLOOD CONTROL		<u>1094.0</u>		<u>14.7</u>		<u>62.437</u>		<u>103.709</u>		<u>Oct. 1955</u>					
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT		<u>1087.7</u>		<u>5.972</u>		<u>41.272</u>		<u>41.272</u>		<u>Oct. 1955</u>					
	h. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR <u>0.288</u> <sup>1/</sup> MILES				AV. WIDTH OF RESERVOIR <u>0.058</u> MILES											
	18. TOTAL DRAINAGE AREA <u>0.819</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>28.65</u> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.796</u> (0.810) SQ. MI.				23. MEAN ANNUAL RUNOFF <u>3.96</u> <sup>2/</sup> INCHES											
	20. LENGTH <u>1.72</u> MILES		AV. WIDTH <u>0.476</u> MILES		24. MEAN ANNUAL RUNOFF <u>43.7</u> <sup>2/</sup> AC.-FT.											
	21. MAX. ELEV. <u>1,220</u>		MIN. ELEV. <u>1,056.8</u>		25. CLIMATIC CLASSIFICATION <u>Sub-humid</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/W RATIO AC.-FT. PER SQ. MI.	
	Feb. 1962		1.17		6.33		Range(D)		13		14.7(5.97)		90.8(30.5)		111	
	Jan. 1963		0.92		7.25		"		"		" "		88.7(29.0)		108	
	Jan. 1964		1.0		8.25		"		"		-----		-----		---	
	Jan. 1965		1.0		9.25		"		"		" "		86.0(26.9)		105	
	Jan. 1966		1.0		10.25		"		"		" "		80.5(21.4)		98	
	26. DATE OF SURVEY cal. yr.		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE-FEET				36. WATER INFL. TO DATE AC.-FT.							
	1960		<u>34.84</u> <sup>3/</sup>													
	1961		<u>34.03</u> <sup>4/</sup>													
	1962		<u>29.71</u> <sup>5/</sup>													
	1963		<u>25.17</u> <sup>6/</sup>													
	1964		<u>38.24</u> <sup>6/</sup>													
	1965		<u>47.31</u> <sup>6/</sup>													
	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			
Feb. 1962		2.43(0.93)		2.08(0.79)		2.61(0.98)		12.9(10.8)		2.03(1.70)		2.55(2.10)				
Jan. 1963		3.08(1.55)		3.35(1.68)		4.21(2.07)		15.01(12.32)		2.07(1.70)		2.60(2.10)				
Jan. 1964		-1.61(0.24)		-1.61(0.24)		-2.02(0.29)		13.40(12.56)		1.62(1.52)		2.04(1.88)				
Jan. 1965		4.34(1.81)		4.34(1.81)		5.46(2.23)		17.74(14.36)		1.92(1.55)		2.41(1.92)				
Jan. 1966		5.46(5.52)		5.46(5.52)		6.86(6.81)		23.20(19.88)		2.26(1.94)		2.84(2.40)				
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. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE				
Feb. 1962		<u>55.7</u> (3) <sup>7/</sup>		3.2(1.2)		3.1(2.5)		2.0(4.1)		12.4(26)						
Jan. 1963		<u>59.4</u> (3)		5.4(2.7)		3.4(2.7)		" "		14.5(29.9)						
Jan. 1964		<u>51.1</u> (3)		-2.2(.32)		2.3(2.1)		1.6(3.7)		12.9(30.4)						
Jan. 1965		<u>49.9</u> (3)		5.9(2.4)		2.6(2.1)		1.8(3.8)		17.1(34.8)						
Jan. 1966		<u>49.9</u> (3)		7.5(7.4)		3.1(2.6)		2.2(4.7)		22.4(48.2)						

(Thousand Tons)

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION																
	Sediment				F.S. Pool												
	Pool PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION																
Feb. 1962														83%		17%	
Jan. 1963														82%		18%	
Jan. 1964														94%		6%	
Jan. 1965														81%		19%	
Jan. 1966														86%		14%	

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														
Feb. 1962	21	23	15	12	11	9	6	2	1	0					
Jan. 1963	24	23	15	11	10	9	6	2	0	0					
Jan. 1964	23	24	15	11	10	8	5	2	1	1					
Jan. 1965	18.8	20.4	15.8	12.3	12.2	10.4	6.5	2.2	1.0	0.4					
Jan. 1966	25.0	24.3	15.7	11.1	9.5	7.6	4.3	1.5	0.7	0.3					

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 parentheses (except item 39) refer to amounts in the sediment pool only.

1/ additional 0.108 miles of principal arm not included. 2/ water years 1954-55 thru 1958-59 at gage 4.0 miles downstream. 3/ Station - Malvern LW, partially estimated. 4/ Station - Malvern LW. 5/ Station - Glenwood 8SSE. 6/ Station - Glenwood 2N. 7/ based on December 1960 sample.

48. AGENCY MAKING SURVEY Soil Conservation Service  
 49. AGENCY SUPPLYING DATA Soil Conservation Service  
 50. DATE March 1966

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Mule Creek "R"  
NAME OF RESERVOIR

35-49b  
DATA SHEET NO.

DAM	1. OWNER			2. STREAM Trib. of Nishna			3. STATE Iowa							
	4. SEC. 1 TWP. 71N RANGE 42W			5. NEAREST P. O. Malvern			6. COUNTY Mills							
	7. LAT. 40° 59' 5" LONG. 95° 37' 48"			8. TOP OF DAM ELEVATION 1097.0			9. SPILLWAY CREST ELEV. 1094.0							
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		1094.0		8.678		62.133		103.422		Oct. 1955			
	b. MULTIPLE USE													
	c. POWER										16. DATE NORMAL OPER. BEGAN			
	d. WATER SUPPLY													
	e. IRRIGATION													
	f. CONSERVATION										Oct. 1955			
	g. INACTIVE 1/		1087.7		5.972		41.289		41.289					
WATERSHED	17. LENGTH OF RESERVOIR 0.288 MILES				AV. WIDTH OF RESERVOIR 0.058 MILES									
	18. TOTAL DRAINAGE AREA 0.819 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 28.65 INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA .796 (.810) SQ. MI.				23. MEAN ANNUAL RUNOFF 3.96 INCHES									
	20. LENGTH 1.72 MILES		AV. WIDTH 0.476 MILES		24. MEAN ANNUAL RUNOFF 173 AC.-FT.									
	21. MAX. ELEV. 1220		MIN. ELEV. 1056.8		25. ANNUAL TEMP: MEAN RANGE									
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.		
	Feb. 1969		1.08	13.33	Range (D)		13	8.678 (5.97)		73.867 (16.480)		.423		
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET				36. WATER INFL. TO DATE, AC.-FT.					
	Cal. Yr. 1968		32.96 <sup>6/</sup>											
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET		38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET									
	Feb. 1969		0.907 (0.987)		0.840 (0.914)		1.055 (1.128)		29.555 (24.809)		2.217 (1.861)		2.785 (2.298)	
	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					
	Feb. 1969		66.29 1969 Gamma probe weight		13.419 (11.360)		4.021 (3.318)		2.144 (4.507)		28.577 (60.086)			

(thousand tons)

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												
	Inactive F.C. Pool												
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Feb. 1969		84		16									

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														
Feb. 1969	22.1	23.6	16.6	12.9	10.6	7.4	4.0	1.6	0.9	0.3					

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/ Storage used for sediment pool.

6/ Station - Glenwood 2N NW

NOTE: Lower figures in parenthesis are for the reservoir area below the principal spillway.

48. AGENCY MAKING SURVEY      SCS

49. AGENCY SUPPLYING DATA    SCS

50. DATE May 1970

RESERVOIR SEDIMENT DATA SUMMARY

Mule Creek "R"

35-49C (Revised)

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Elden Grudle			2. STREAM Trib. of Nishna. R.			3. STATE Iowa									
	4. SEC. 1 TWP. 71N RANGE 42W			5. NEAREST P.O. Malvern			6. COUNTY Mills									
	7. LAT. 40° 59' 5" LONG. 95° 37' 48"			8. TOP OF DAM ELEVATION 1097.0			9. SPILLWAY CREST ELEV. 1094.0									
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		1094.0		14.650		62.133		103.422		Oct. 1955					
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN					
	c. POWER										Oct. 1955					
	d. WATER SUPPLY															
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE 1/		1087.7		5.972		41.289		41.289							
WATERSHED	17. LENGTH OF RESERVOIR 0.288 2/			MILES			AV. WIDTH OF RESERVOIR 0.079			MILES						
	18. TOTAL DRAINAGE AREA 0.819			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 33.7			INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.796(0.810)			SQ. MI.			23. MEAN ANNUAL RUNOFF 3.96			INCHES						
	20. LENGTH 1.72			MILES			AV. WIDTH 0.476			MILES						
	21. MAX. ELEV. 1220			MIN. ELEV. 1056.8			25. ANNUAL TEMP.: MEAN			RANGE						
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.	
	Jan. 1967		11.25		11.25		Range (D)		13		14.65(5.97)		79.87(17.64)		0.462	
	Jan. 1968		1.00		12.25		Range (D)		13		14.65(5.97)		74.77(17.47)		0.432	
	Feb. 1969		1.08		13.33		Range (D)		13		14.65(5.97)		73.86(16.48)		0.427	
	Jan. 1974		4.92		18.25		Range (D)		13		14.65(5.97)		72.28(14.23)		0.418	
	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			
	Jan. 1967		33.05													
	Jan. 1968		37.94													
	Feb. 1969		32.96													
	Jan. 1974		35.90													
	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			
	Jan. 1967		23.55(23.65)		2.09(2.10)		2.63(2.59)		23.55(23.65)		2.09(2.10)		2.63(2.59)			
	Jan. 1968		5.10( 0.17)		5.10(0.17)		6.41(0.21)		28.65(23.82)		2.34(1.94)		2.94(2.40)			
	Feb. 1969		0.91( 0.99)		0.84(0.92)		1.06(1.14)		29.56(24.81)		2.22(1.86)		2.79(2.30)			
Jan. 1974		1.58( 2.25)		0.32(0.46)		0.40(0.57)		31.14(27.06)		1.71(1.48)		2.15(1.83)				
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		
Jan. 1967		49.9		2858( 2815)		2858(2815)		2.0(5.1)		22.8(57.3)						
Jan. 1968		49.9		6963( 228)		3195(2608)		2.3(4.7)		27.7(57.7)						
Feb. 1969		66.29 3/		13425(11554)		4028(3321)		2.1(4.5)		28.6(60.1)						
Jan. 1974		66.29		582( 815)		3104(2642)		1.7(3.6)		30.1(65.5)						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												
	Inactive	F.C.	Pool										
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Jan. 1967	100		0										
Jan. 1968	83		17										
Feb. 1969	84		16										
Jan. 1974	87		13										

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														
Jan. 1967	21.3	25.0	16.2	11.8	10.6	8.1	4.4	1.4	0.8	0.4					
Jan. 1968	23.0	23.5	16.3	12.7	10.8	7.7	3.8	1.2	0.7	0.3					
Feb. 1969	22.1	23.6	16.6	12.9	10.6	7.4	4.0	1.6	0.9	0.3					
Jan. 1974	22.4	23.6	17.1	12.4	9.6	7.1	4.5	2.1	1.1	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

1/ Storage used for sediment pool.  
 2/ Additional 0.108 miles of principal arm not included.  
 3/ Gamma probe weight.

Land Use: 91% Cropland, 2% Pasture, and 7% Other.

Notes: Figures in parentheses are for the sediment pool only (below elevation 1087.7)  
 See Data Sheets 35-49 and 35-49A for prior surveys.

48. AGENCY MAKING SURVEY Soil Conservation Service  
 49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE July 1976