

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

Mule Creek "C"  
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE  
35 - 47  
DATA SHEET NO.

DAM	1. OWNER <b>Plumb Estate</b>				2. RIVER <b>Trib. of Mule Cr.</b>		3. STATE <b>Iowa</b>			
	4. SEC. <b>34</b> TWP. <b>72N</b> RANGE <b>42W</b>			5. NEAREST TOWN <b>Malvern</b>		6. COUNTY <b>Mills</b>				
	7. STREAM BED ELEV. <b>1,097.0</b>			8. TOP OF DAM ELEV. <b>1,130.0</b>		9. SPILLWAY CREST ELEV. <b>1,127.2</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>1,127.2</b>	<b>10.480</b>		<b>52.962</b>	<b>76.216</b>	<b>July 1954</b>		
	b. POWER									
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE <b>1/</b>		<b>1,120.6</b>	<b>3.713</b>		<b>23,254</b>	<b>23,254</b>	<b>July 1954</b>		
17. LENGTH OF RESERVOIR <b>0.265</b>				MILES		AV. WIDTH OF RESERVOIR <b>0.084</b>		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA <b>0.916 2/ (.345)</b>				SQ. MI.	22. MEAN ANNUAL PRECIPITATION <b>28.65</b>			INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.323 (0.339)</b>				SQ. MI.	23. MEAN ANNUAL RUNOFF <b>3.96 5/</b>			INCHES	
	20. LENGTH <b>1.25 3/</b>		MILES		AV. WIDTH <b>0.733</b>		MILES		24. MEAN ANNUAL RUNOFF <b>72.9 5/</b>	AC.-FT.
	21. MAX. ELEV. <b>1,250.0</b>		MIN. ELEV. <b>1,097.0</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>July 1954</b>	<b>-</b>	<b>-</b>	<b>Range</b>	<b>10</b>	<b>14.2 (3.71)</b>	<b>76.2 (23.3)</b>	<b>3/</b>		
	<b>Oct. 1956</b>	<b>2.33</b>	<b>2.33</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>73.8 (21.1)</b>			
	<b>Sept. 1957</b>	<b>0.92</b>	<b>3.25</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>69.1 (17.1)</b>			
	<b>Oct. 1958</b>	<b>1.08</b>	<b>4.33</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>67.8 (16.2)</b>			
	<b>Jan. 1960</b>	<b>1.33</b>	<b>5.66</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>66.9 (11.8)</b>			
	<b>Dec. 1960</b>	<b>0.92</b>	<b>6.58</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>64.9 (13.8)</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	e. TOTAL TO DATE		
	<b>Cal. Year 1954</b>	<b>40.74/</b>								
	<b>1955</b>	<b>20.914/</b>								
	<b>1956</b>	<b>28.574/</b>								
	<b>1957</b>	<b>38.804/</b>								
	<b>1958</b>	<b>36.154/</b>								
	<b>1959</b>	<b>42.874/</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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR			
	<b>Oct. 1956</b>	<b>2.47 (2.14)</b>	<b>1.06 (0.92)</b>	<b>3.28 (2.71)</b>	<b>2.47 (2.14)</b>	<b>1.06 (0.92)</b>	<b>3.28 (2.71)</b>			
	<b>Sept. 1957</b>	<b>4.61 (4.00)</b>	<b>5.01 (4.35)</b>	<b>15.5 (12.8)</b>	<b>7.08 (6.14)</b>	<b>2.18 (1.89)</b>	<b>6.75 (5.58)</b>			
	<b>Oct. 1958</b>	<b>1.36 (0.95)</b>	<b>1.26 (0.88)</b>	<b>3.90 (2.60)</b>	<b>8.44 (7.09)</b>	<b>1.95 (1.64)</b>	<b>6.04 (4.84)</b>			
	<b>Jan. 1960</b>	<b>0.85 (1.41)</b>	<b>0.64 (1.06)</b>	<b>1.98 (3.13)</b>	<b>9.28 (8.50)</b>	<b>1.64 (1.50)</b>	<b>5.08 (4.43)</b>			
	<b>Dec. 1960</b>	<b>2.00 (0.93)</b>	<b>2.16 (1.01)</b>	<b>6.69 (2.98)</b>	<b>11.3 (9.43)</b>	<b>1.71 (1.43)</b>	<b>5.29 (4.22)</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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE	
	<b>Oct. 1956</b>	<b>53.9 (5)</b>		<b>3.9 (3.2)</b>	<b>3.9 (3.2)</b>	<b>1.4 (4.0)</b>	<b>3.2 (10)</b>			
	<b>Sept. 1957</b>	<b>66.1 (3)</b>		<b>22.3 (18.5)</b>	<b>9.7 (8.0)</b>	<b>2.9 (8.1)</b>	<b>9.3 (26)</b>			
<b>Oct. 1958</b>	<b>59.8 (3)</b>		<b>5.1 (3.4)</b>	<b>7.9 (6.3)</b>	<b>2.6 (7.1)</b>	<b>11.1 (30)</b>				
<b>Jan. 1960</b>	<b>61.9 (3)</b>		<b>2.7 (4.2)</b>	<b>6.9 (6.0)</b>	<b>2.2 (6.5)</b>	<b>12.2 (37)</b>				
<b>Dec. 1960</b>	<b>55.2 (3)</b>		<b>8.0 (3.6)</b>	<b>6.4 (5.1)</b>	<b>2.2 (6.2)</b>	<b>14.8 (41)</b>				

(Thousand Tons)

26. DATE OF SURVEY July 1954	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	87%		13%										
Sept. 1957	87%		13%										
Oct. 1958	84%		16%										
Jan. 1960	92%		8%										
Dec. 1960	84%		16%										

26. DATE OF SURVEY July 1954	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	15	25	28	6/17	6	3	1	2	2	1					
Sept. 1957	28	30	22	11	4	2	1	1	1	0					
Oct. 1958	29	30	20	12	4	2	1	1	1	0					
Jan. 1960	30	30	21	10	4	2	1	1	1	0					
Dec. 1960	28	28	21	13	5	1	1	1	1	1					

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

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/ Includes upstream structures
- 3/ Omitted because of upstream structures.
- 4/ Amount partially estimated.
- 5/ Water years 1954-55 thru 1958-59 to gage 4.7 miles downstream.
- 6/ Principal spillway elevation (1,120.6) ends at 39% 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 "C"  
NAME OF RESERVOIR

35-47A

DATA SHEET NO.

<b>DAM</b>	1. OWNER Plumb Estate				2. STREAM Trib.- Nishnabotna		3. STATE Iowa								
	4. SEC. 34 TWP. 72N RANGE 42W			5. NEAREST TOWN Malvern		6. COUNTY Mills									
	7. STREAM BED ELEVATION				8. TOP OF DAM ELEVATION 1130.0		9. SPILLWAY CREST ELEV. 1127.2								
<b>RESERVOIR</b>	10. STORAGE ALLLOCATION		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		1127.2		14.2		52.962		76.216		July 1954				
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION														
	f. CONSERVATION														
	g. SEDIMENT		1120.6		3.713		23.254		23.254		July 1954				
h. INACTIVE															
17. LENGTH OF RESERVOIR 0.265 MILES				AV. WIDTH OF RESERVOIR 0.084 MILES											
<b>WATERSHED</b>	18. TOTAL DRAINAGE AREA 0.9161/ (0.345) SQ. MI.				22. MEAN ANNUAL PRECIPITATION 28.65 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 0.323 SQ. MI.				23. MEAN ANNUAL RUNOFF 3.962/ INCHES										
	20. LENGTH 1.251/ MILES		AV. WIDTH 0.733 MILES		24. MEAN ANNUAL RUNOFF 72.92/ AC. FT.										
	21. MAX. ELEV. 1250.0		MIN. ELEV. 1097.0		25. CLIMATIC CLASSIFICATION Sub-humid										
	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS OF SURVEY		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		1.003/		7.583/		Range(D)		10		14.2 (3.71)		64.1 (13.4)		omitted, upstream structures	
Jan. 1963		0.92		8.5		"		10		"		61.6 (11.4)			
Jan. 1964		1.0		9.5		"		10		"		83.59 (12.10)			
Jan. 1965		1.0		10.5		"		10		"		59.88 (8.12)			
Jan. 1966		1.0		11.5		"		10		"		59.18 (5.64)			
<b>SURVEY DATA</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		a. MEAN ANNUAL		b. TOTAL TO DATE		
	1961		34.035/												
	1962		29.716/												
	1963		25.177/												
	1964		38.247/												
	1965		47.317/												
	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		0.84(0.43)		0.84(0.43)		2.60(1.33)		12.11(9.86)		1.60(1.30)		4.95(4.02)		
Jan. 1963		2.5 (2.0)		2.72(2.2)		8.42(6.81)		14.6(11.9)		1.72(1.40)		5.33(4.33)			
Jan. 1964		-2.0(-0.70)		-2.0(-0.70)		-6.19(-2.17)		12.6(11.2)		1.33(1.18)		4.12(3.65)			
Jan. 1965		3.71(3.98)		3.71(3.98)		11.49(12.32)		16.3(15.2)		1.55(1.45)		4.80(4.49)			
Jan. 1966		0.70(2.48)		0.70(2.48)		2.17(7.68)		17.0(17.7)		1.48(1.54)		4.58(4.77)			
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. 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		55.2(3)8/		3120(1600)		5950(4830)		2.1(5.6)		15.9(42.4)					
Jan. 1963		58.0(3)		10640(8600)		6730(5470)		2.3(6.0)		19.2(51.2)					
Jan. 1964		57.8(3)		---		---		1.7(5.1)		16.5(48.2)					
Jan. 1965		68.8(3)		17220(18460)		7190(6730)		2.0(6.2)		21.4(65.4)					
Jan. 1966		68.8(3)		3250(11510)		6860(7150)		1.9(6.6)		22.3(76.1)					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	Sediment			F.C. Pool									
	Pool PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Feb. 1962	81%			19%									
Jan. 1963	81%			19%									
Jan. 1964	90%			10%									
Jan. 1965	94%			6%									
Jan. 1966	63%			37%									

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	29	29	21	9	5	3	2	1	1	0					
Jan. 1963	30	30	22	8	4	3	2	1	0	0					
Jan. 1964	28	33	20	7	5	3	2	1	1	0					
Jan. 1965	27.6	28.0	22.6	11.7	6.1	1.3	1.2	0.7	0.5	0.3					
Jan. 1966	31.2	31.1	22.9	8.8	3.8	0.6	0.7	0.4	0.2	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 Quantities shown in parentheses (except item 39) refer to amounts in the inactive pool only.

1/ includes upstream structures. 2/ water years 1954-55 thru 1958-59 to gage 4.7 miles downstream. 3/ adjusted to correct previous years error. 4/ Station - Malvern 4W, partially estimated. 5/ Station - Malvern 4W. 6/ Station - Glenwood 8SSE. 7/ Station - Glenwood 2N. 8/ based on December 1960 sample.

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

Revised 11/71

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Mule Creek "C"

NAME OF RESERVOIR

35-47 b

DATA SHEET NO.

SCS-34 Rev. 6-66

DAM	1. OWNER <u>Plumb Estate</u>			2. STREAM <u>Trib-Nishnabotna</u>			3. STATE <u>Iowa</u>									
	4. SEC. <u>34</u> TWP. <u>72N</u> RANGE <u>42W</u>			5. NEAREST P.O. <u>Malvern</u>			6. COUNTY <u>Mills</u>									
	7. LAT. " LONG. "			8. TOP OF DAM ELEVATION <u>1130.0</u>			9. SPILLWAY CREST ELEV. <u>1127.2</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>1127.2</u>		<u>14.2</u>		<u>53.375</u>		<u>76.606</u>		July 1954					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
g. INACTIVE		<u>1120.6</u>		<u>3.713</u>		<u>23.254</u>		<u>23.254</u>		July 1954						
WATERSHED	17. LENGTH OF RESERVOIR <u>0.265</u> MILES				AV. WIDTH OF RESERVOIR <u>0.084</u> MILES											
	18. TOTAL DRAINAGE AREA <u>0.9161</u> ( <u>0.345</u> ) SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>28.65</u> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.323</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>3.962</u> INCHES											
	20. LENGTH <u>1.251</u> MILES		AV. WIDTH <u>0.733</u> MILES		24. MEAN ANNUAL RUNOFF <u>72.92</u> AC.-FT.											
	21. MAX. ELEV. <u>1250.0</u>		MIN. ELEV. <u>1097.0</u>		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. 1962		<u>1.003</u>		<u>7.583</u>		Range (D)		10		<u>14.2 (3.71)</u>		<u>64.1 (13.4)</u>		omitted, upstream structures	
	Jan. 1963		<u>0.92</u>		<u>8.5</u>		"		10		"		<u>61.6 (11.4)</u>			
	Jan. 1964		<u>1.0</u>		<u>9.5</u>		"		10		"		<u>63.59 (12.10)</u>			
	Jan. 1965		<u>1.0</u>		<u>10.5</u>		"		10		"		<u>59.88 (8.12)</u>			
	Mar. 1969		<u>4.17</u>		<u>14.67</u>		"		10		"		<u>57.58 (5.62)</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			
	1961		<u>34.035</u>													
	1962		<u>29.716</u>													
1963		<u>25.177</u>														
1964		<u>38.247</u>														
1965		<u>47.317</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				
Feb. 1962		<u>0.84 (0.43)</u>		<u>0.84 (0.43)</u>		<u>2.60 (1.33)</u>		<u>12.11 (9.86)</u>		<u>1.60 (1.30)</u>		<u>4.95 (4.02)</u>				
Jan. 1963		<u>2.5 (2.0)</u>		<u>2.72 (2.2)</u>		<u>8.42 (6.81)</u>		<u>14.6 (11.9)</u>		<u>1.72 (1.40)</u>		<u>5.33 (4.33)</u>				
Jan. 1964		<u>-2.0 (-0.70)</u>		<u>-2.0 (-0.70)</u>		<u>-6.19 (-2.17)</u>		<u>12.6 (11.2)</u>		<u>1.33 (1.18)</u>		<u>4.12 (3.65)</u>				
Jan. 1965		<u>3.71 (3.98)</u>		<u>3.71 (3.98)</u>		<u>11.49 (12.32)</u>		<u>16.3 (15.2)</u>		<u>1.55 (1.45)</u>		<u>4.80 (4.49)</u>				
Mar. 1969		<u>2.3 (2.5)</u>		<u>0.55 (0.60)</u>		<u>1.71 (1.86)</u>		<u>18.6 (17.7)</u>		<u>1.27 (1.21)</u>		<u>3.92 (3.56)</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		
Feb. 1962		<u>55.2 (3)8</u>		<u>3120 (1600)</u>		<u>5950 (4830)</u>		<u>2.1 (5.6)</u>		<u>15.9 (42.4)</u>						
Jan. 1963		<u>58.0 (3)</u>		<u>10640 (8600)</u>		<u>6730 (5470)</u>		<u>2.3 (6.0)</u>		<u>19.2 (51.2)</u>						
Jan. 1964		<u>57.8 (3)</u>		---		---		<u>1.7 (5.1)</u>		<u>16.5 (48.2)</u>						
Jan. 1965		<u>65.44 Gamma</u>		<u>1048 (1075)</u>		<u>6841 (6400)</u>		<u>2.0 (6.2)</u>		<u>21.4 (65.4)</u>						
Mar. 1969		<u>65.44 probe</u>		<u>112 (121)</u>		<u>5587 (5074)</u>		<u>1.66 (5.196)</u>		<u>24.28 (76.2)</u>						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	Sediment		F.C.		Pool							
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Feb. 1962		81%				19%						
Jan. 1963		81%				19%						
Jan. 1964		90%				10%						
Jan. 1965		94%				6%						
Jan. 1966		63%				37%						

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	29	29	21	9	5	3	2	1	1	0					
Jan. 1963	30	30	22	8	4	3	2	1	0	0					
Jan. 1964	28	33	20	7	5	3	2	1	1	0					
Jan. 1965	27.6	28.0	22.6	11.7	6.1	1.3	1.2	0.7	0.5	0.3					
Jan. 1966	31.2	31.1	22.9	8.8	3.8	0.6	0.7	0.4	0.2	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 Quantities shown in parentheses (except item 39) refer to amounts in the inactive pool only.

1/ includes upstream structures. 2/ water years 1954-55 thru 1958-59 to gage 4.7 miles downstream. 3/ adjusted to correct previous years error. 4/ Station - Malvern 4W, partially estimated. 5/ Station - Malvern 4W. 6/ Station - Glenwood 8SSE. 7/ Station - Glenwood 2N. 8/ based on December 1960 sample.

48. AGENCY MAKING SURVEY Soil Conservation Service

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE November 1971