SCS-34
Jan. 1958

U.S. DEPARTMENT OF AGRICULTURE — SOIL CONSERVATION SERVICE

# RESERVOIR SEDIMENTATION DATA SUMMARY

Calvalry Creek No. 1 — NAME OF RESERVOIR

50 - 14 — DATA SHEET NO.

## DAM

| | | |
|---|---|---|
| 1. OWNER Troy Orr | 2. RIVER Cloud Cr. | 3. STATE Oklahoma |
| 4. SEC. 27 TWP. 9N RANGE 16W | 5. NEAREST TOWN Cordell | 6. COUNTY Washita |
| 7. STREAM BED ELEV. 73.9* | 8. TOP OF DAM ELEV. 110.0* | 9. SPILLWAY CREST ELEV. 105.0* |

## 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 | 105.0* | 48.52 | - | 505.44 | 7-28-48 |
| b. POWER | | | | | |
| c. WATER SUPPLY | | | | | 16. DATE NORMAL OPER. BEGAN |
| d. IRRIGATION | | | | | |
| e. CONSERVATION | 97.0* | 25.05 | - | 207.79 | 7-28-48 |
| f. INACTIVE | | | | | |

17. LENGTH OF RESERVOIR 1.34 1/ MILES — AV. WIDTH OF RESERVOIR 0.06 MILES

## WATERSHED

| | | | |
|---|---|---|---|
| 18. TOTAL DRAINAGE AREA 2.19 SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 28.00 | INCHES |
| 19. NET SEDIMENT CONTRIBUTING AREA 2.15 2/ SQ. MI. | | 23. MEAN ANNUAL RUNOFF 1.42 | INCHES |
| 20. LENGTH 2.00 MILES | AV. WIDTH 1.10 MILES | 24. MEAN ANNUAL RUNOFF 75.73 | AC.-FT. |
| 21. MAX. ELEV. - | MIN. ELEV. 73.9* | 25. CLIMATIC CLASSIFICATION Sub-humid | |

## 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. |
|---|---|---|---|---|---|---|---|
| 7-28-48 | - | - | - | - | 48.52 | 505.44 | 235.1 |
| 9-18-59 | 11.15 | 11.15 | Det. Range | 10 | 48.52 | 476.57 | 221.7 |

| 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 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 |
| 9-18-59 | 23.52 (28.87) 3/ | 2.11 (2.59) | 0.98 (1.20) | 23.52 (28.87) 3/ | 2.11 (2.59) | 0.98 (1.20) |

| 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 |
| 9-18-59 | 74.47 | 1589.52 (1946.35) | 1589.52 (1946.35) | 01.02 (00.51) | 11.32 (5.71) | | |

* Assumed.

1/ Includes 0.57 mile of 3 side arms of lake.

2/ 4 drop inlets with combined total of 590 acres or 0.92 sq. mi. with est. T. E. of 65%.

3/ 5.35 ac.ft. of sediment in flood pool.

| 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 LENGH 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 |
|---|---|---|---|---|---|---|---|---|
| 105.0 | 48.52 | 505.44 | 81.0 | 3.33 | 11.28 | | | |
| 101.0 | 37.96 | 332.92 | 77.0 | 1.25 | 2.45 | | | |
| 97.0 | 25.05 | 207.79 | 73.9 | - | - | | | |
| 93.0 | 17.98 | 122.11 | | | | | | |
| 89.0 | 10.89 | 64.96 | | | | | | |
| 85.0 | 6.49 | 30.57 | | | | | | |

47. REMARKS AND REFERENCES

* Assumed elevation.
Geology - Cloud Chief formation.
C/I Ratio: = (94.88 = 1.25); (248.26 = 3.28)
Est. trap efficiency = 97%.

48. AGENCY SUPPLYING DATA — Soil Conservation Service, Stillwater, Oklahoma

49. DATE 10-29-59

RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

Cavalry Creek Site No. 1
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
14 2
50- 19a
DATA SHEET NO.

**DAM**

| | | |
|---|---|---|
| 1. OWNER Troy Orr | 2. STREAM Washita | 3. STATE Oklahoma |
| 4. SEC. 27 TWP. 9N RANGE 16W | 5. NEAREST P. O. Cordell | 6. COUNTY Washita |
| 7. LAT. ° ' " LONG. ° ' " | 8. TOP OF DAM ELEVATION 110.0 1/ | 9. SPILLWAY CREST ELEV. 105.0 1/ |

**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 | 105.0 1/ | 48.52 | 297.65 | 505.44 | 7-28-48 |
| b. MULTIPLE USE | | | | | |
| c. POWER | | | | | 16. DATE NORMAL OPER. BEGAN |
| d. WATER SUPPLY | | | | | |
| e. IRRIGATION | | | | | |
| f. CONSERVATION | | | | | 7-28-48 |
| g. INACTIVE | 97.0 1/ | 25.05 | 207.79 | 207.79 | |

**WATERSHED**

| | | | |
|---|---|---|---|
| 17. LENGTH OF RESERVOIR .77 MILES | | AV. WIDTH OF RESERVOIR .06 MILES | |
| 18. TOTAL DRAINAGE AREA 2.19 SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 28.00 INCHES | |
| 19. NET SEDIMENT CONTRIBUTING AREA 2.15 SQ. MI. | | 23. MEAN ANNUAL RUNOFF 1.42 INCHES | |
| 20. LENGTH 2.00 MILES | AV. WIDTH 1.10 MILES | 24. MEAN ANNUAL RUNOFF 165.9 AC.-FT. | |
| 21. MAX. ELEV. 1600 | MIN. ELEV. 73.9 1/ | 25. ANNUAL TEMP.: MEAN | RANGE Subhumid |

**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. |
|---|---|---|---|---|---|---|---|
| ~~9-18-59~~ | - | - | Range (D) | 10 (R) | 25.1 (48.5) | 207.8 (505.4) | 1.25 (3.05) |
| 9-18-59 | 11.15 | 11.15 | Range (D) | 10 (R) | 25.1 (48.5) | 184.3 (476.6) | 1.11 (2.87) |
| 8-11-64 | 4.89 | 16.04 | Range (D) | 10 (R) | 25.1 (48.5) | 183.1 (471.8) | 1.10 (2.84) |
| 6-18-69 | 4.85 | 20.89 | Range | 10 (R) | 25.3 (47.7) | 176.2 (458.8) | 1.06 (2.77) |
| | | | Contour (D) | 2' C.I. | | | |

| 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 |
| 9-18-59 | 23.5 (28.8) | 2.1 (2.6) | 0.98 (1.20) | 23.5 (28.8) | 2.11 (2.59) | 0.98 (1.20) |
| 8-11-64 | 1.2 (4.8) | 0.3 (1.0) | 0.12 (0.46) | 24.7 (33.7) | 1.54 (2.10) | 0.72 (0.98) |
| 6-18-69 | 6.9 (13.0) | 1.42 (2.68) | 0.66 (1.25) | 31.6 (46.6) | 1.51 (2.23) | 0.70 (1.04) |

| 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 |
| 9-18-59 | 74.5 | 1590 (1946) | 1590 (1946) | 1.02 (0.51) | 11.32 (5.71) | | |
| 8-11-64 | 74.5 | 195 (746) | 1168 (1590) | 0.74 (0.42) | 11.91 (6.66) | | |
| 6-18-69 | 52 Sed P(3)<br>97 Det P(3) | 747 (1993) | 793 (1511) | 0.73 (0.44) | 15.21 (9.22) | | |

1/ Assumed Elevations. } weighted Avg. = 74 lbs/ft.³

Note: Figures in parentheses represent sediment and flood control pools.

| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 105-101 | 101-97 | | Crest 97-93 | | 93-89 | | 89-85 | | 85-81 | | 81-79 |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | |
| 8-11-64 | 16.3 | 10.3 | | 3.3 | | 12.0 | | 13.4 | | 20.4 | | 24.3 |
| 6-18-69 | 20.1 | 12.2 | | 10.8 | | 12.0 | | 7.8 | | 14.9 | | 22.2 |

| 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 2/

| ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY |
|---|---|---|---|---|---|---|---|---|
| See attached sheet | | | | | | | | |

47. REMARKS AND REFERENCES

Geology: Cloud Chief Formation, Permian Age
Land Use: Cultivation 57% Pasture-Range 42% Miscellaneous 1% 1969
Cultivation 58% Pasture-Range 41% Miscellaneous 1% 1960
Land Resource Area: Central Rolling Red Prairies
Note: Four drop inlets that control 590 acres are installed which has decreased the sediment to this site.

48. AGENCY MAKING SURVEY: Oklahoma Watershed Planning Staff
49. AGENCY SUPPLYING DATA: S.C.S. U.S.D.A.
50. DATE: 12-5-69

USDA-SCS-HYATTSVILLE, MD 1966
April 1966

2/ 1959- Elevation-Area-Capacity data not available.

ELEVATION-AREA-CAPACITY DATA

| Elevation | Area | Capacity | Elevation | Area | Capacity |
|---|---|---|---|---|---|
| | Original Capacity | | | | |
| 105.0 | 48.52 | 505.44 | 85.0 | 5.03 | 15.50 |
| 101.0 | 37.96 | 332.92 | 83.0 | 2.91 | 7.61 |
| 97.0 | 25.05 | 207.79 | 81.0 | 1.65 | 3.09 |
| 93.0 | 17.98 | 122.11 | 79.0 | 0.91 | 0.56 |
| 89.0 | 10.98 | 64.96 | | 1969 Capacity | |
| 85.0 | 6.49 | 30.57 | 105.0 | 47.73 | 458.78 |
| 81.0 | 3.33 | 11.28 | 103.0 | 40.46 | 370.69 |
| 77.0 | 1.25 | 2.45 | 101.0 | 34.61 | 295.69 |
| 73.7 | 0.00 | 0.00 | 99.0 | 29.85 | 231.29 |
| | 1964 Capacity | | 97.0 | 25.28 | 176.23 |
| 105.0 | 48.52 | 471.78 | 95.0 | 20.19 | 130.85 |
| 101.0 | 35.56 | 304.71 | 93.0 | 15.18 | 95.60 |
| 99.0 | 30.30 | 238.59 | 91.0 | 13.12 | 67.32 |
| 97.0 | 25.05 | 183.05 | 89.0 | 10.23 | 44.03 |
| 95.0 | 21.47 | 136.34 | 87.0 | 7.69 | 26.17 |
| 93.0 | 16.31 | 98.49 | 85.0 | 5.28 | 13.28 |
| 91.0 | 13.00 | 69.10 | 83.0 | 2.91 | 5.21 |
| 89.0 | 10.63 | 45.39 | 81.0 | 1.43 | 0.95 |
| 87.0 | 7.13 | 27.66 | 79.0 | 0.00 | 0.00 |

RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Cavalry Creek Site #1
NAME OF RESERVOIR

50-14b
DATA SHEET NO.

**DAM**

| | | |
|---|---|---|
| 1. OWNER Troy Orr | 2. STREAM Washita | 3. STATE Oklahoma |
| 4. SEC. 27 TWP. 9N RANGE 16W | 5. NEAREST P.O. Cordell | 6. COUNTY Washita |
| 7. LAT. 35° 20 '40 " LONG. 99° 53 '30 " | 8. TOP OF DAM ELEVATION 110.0 1/ | 9. SPILLWAY CREST ELEV. 105.0 1/ |

**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 | 105.0 1/ | 48.52 | 297.65 | 505.44 | 7-28-48 |
| b. MULTIPLE USE | | | | | |
| c. POWER | | | | | 16. DATE NORMAL OPER. BEGAN |
| d. WATER SUPPLY | | | | | |
| e. IRRIGATION | | | | | |
| f. CONSERVATION | | | | | 7-28-48 |
| g. INACTIVE 2/ | 97.0 1/ | 25.05 | 207.79 | 207.79 | |

**WATERSHED**

| | | | |
|---|---|---|---|
| 17. LENGTH OF RESERVOIR .77 MILES | | AV. WIDTH OF RESERVOIR .098 MILES | |
| 18. TOTAL DRAINAGE AREA 2.19 SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 28.00 INCHES | |
| 19. NET SEDIMENT CONTRIBUTING AREA 2.11 SQ. MI. | | 23. MEAN ANNUAL RUNOFF 1.42 INCHES | |
| 20. LENGTH 2.00 MILES | AV. WIDTH 1.10 MILES | 24. MEAN ANNUAL RUNOFF 165.9 AC.-FT. | |
| 21. MAX. ELEV. 1600 | MIN. ELEV. 73.9 1/ | 25. ANNUAL TEMP.: MEAN 61° RANGE -12° to 115° | |

**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. |
|---|---|---|---|---|---|---|---|
| 9-18-59 | - | - | Range (D) | 10 (R) | 25.1(48.5) | 207.8(505.4) | 1.25(3.05) |
| 9-18-59 | 11.15 | 11.15 | " | 10 (R) | 25.1(48.5) | 184.3(476.6) | 1.11(2.87) |
| 9-11-64 | 4.89 | 16.04 | " | 10 (R) | 25.1(48.5) | 183.1(471.8) | 1.10(2.84) |
| 6-18-69 | 4.85 | 20.89 | Range | 10 (R) | 25.3(47.7) | 176.2(458.8) | 1.06(2.77) |
| 6-24-74 | 5.02 | 25.91 | Contour (D) | 2' C.I. " | 23.6(43.2) | 163.5(436.1) | 0.99(2.63) |

| 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 |
| 9-18-59 | 23.5(28.8) | 2.1(2.6) | 0.98(1.22) | 23.5(28.8) | 2.11 (2.58) | 1.00(1.22) |
| 8-11-64 | 1.2(4.8) | 0.3(1.0) | 0.11(0.46) | 24.7(33.7) | 1.54 (2.09) | 0.73(.99) |
| 6-18-69 | 6.9(13.0) | 1.4(2.7) | 0.66(1.27) | 31.6(46.6) | 1.51(2.23) | 0.72(1.06) |
| 6-24-74 | 12.7(22.7) | 2.5(4.5) | 1.18(2.14) | 44.3(69.3) | 1.71(2.67) | 0.81(1.27) |

| 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 |
| 9-18-59 | 74.5 | 1590(1979) | 1590(1979) | 1.0(0.5) | 11.3(5.7) | | |
| 8-11-64 | 74.5 | 185(751) | 1185(1600) | 0.7(0.4) | 11.9(6.7) | | |
| 6-18-69 | 52 Sed.P(3) 97 Det.P(3) | 764(2023) | 815(1533) | 0.7(0.4) | 15.2(9.2) | | |
| 6-24-74 | 53 Sed.P(3) 91 Det.P(3) | 1449(3135) | 935(1847) | 0.8(0.5) | 21.3(13.7) | | |

1/ Assumed Elevation
2/ Sediment Pool
Note: Figures in parentheses represent sediment and flood control pools.

Crest

| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 105-101 | 101-97 | | 97-93 | | 93-89 | | 89-85 | | 85-81 | | 81-79 |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | |
| 8-11-64 | 16.3 | 10.3 | | 3.5 | | 12.0 | | 13.4 | | 20.4 | | 24.3 |
| 6-18-69 | 20.1 | 12.2 | | 10.8 | | 12.0 | | 7.8 | | 14.9 | | 22.2 |
| 6-24-74 | 20.3 | 15.9 | | 10.1 | | 15.4 | | 11.4 | | 11.9 | | 15.0 |

| 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 |
|---|---|---|---|---|---|---|---|---|
| See attached sheet | | | | | | | | |

47. REMARKS AND REFERENCES

Geology: Cloud Chief Formation, Permian Age

Land Use: Cropland 59% Pasture-Range 40 % Miscellaneous 1 % 1974
Cropland 57% Pasture-Range42% Miscellaneous 1% 1969
Cropland 58% Pasture-Range 41% Miscellaneous 1% 1960

Land Resource Area: Central Rolling Red Prairies

Note: Four drop inlets that control 590 acres are installed which has decreased the sediment to this site.

48. AGENCY MAKING SURVEY Oklahoma Watershed & River Basin Planning Staff

49. AGENCY SUPPLYING DATA SCS USDA 50. DATE 12-11-74

USDA-SCS-HYATTSVILLE, MD. 1966

April 1966

3/ 1959 Elevation-Area-Capacity Data not available.