

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Site No. 9, Lower San Saba River

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

53-46

DATA SHEET NO.

| DAM  | 1. OWNER <b>T. N. Woods</b>                            |                                     |                                       | 2. STREAM <b>Colorado River</b>          |  | 3. STATE <b>Texas</b>             |                                  |                         |                                     |  |                             |  |
|--|--|-------------------------------------|---------------------------------------|--|--|-----------------------------------|----------------------------------|-------------------------|-------------------------------------|--|-----------------------------|--|
|  | 4. SEC. TWP. RANGE                                     |                                     | 5. NEAREST P.O. <b>San Saba</b>       |  | 6. COUNTY <b>San Saba</b>                                  |                                   |                                  |                         |                                     |  |                             |  |
|  | 7. LAT. <b>98° 53'</b> " LONG. <b>30° 48'</b> "        |                                     | 8. TOP OF DAM ELEVATION <b>1350.1</b> |  | 9. SPILLWAY CREST ELEV. <b>1345.8</b>                      |                                   |                                  |                         |                                     |  |                             |  |
| 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                                       |                                     | 1345.8 1/                             |  | 97.76  |                                   | 551.12                           |                         | 645.79                              |  | 1-14-60                     |  |
|  | b. MULTIPLE USE  |                                     |                                       |  |  |                                   |                                  |                         |                                     |  |                             |  |
|  | c. POWER   |                                     |                                       |  |  |                                   |                                  |                         |                                     |  |                             |  |
|  | d. WATER SUPPLY  |                                     |                                       |  |  |                                   |                                  |                         |                                     |  |                             |  |
|  | e. IRRIGATION  |                                     |                                       |  |  |                                   |                                  |                         |                                     |  | 16. DATE NORMAL OPER. BEGAN |  |
|  | f. CONSERVATION  |                                     |                                       |  |  |                                   |                                  |                         |                                     |  |                             |  |
|  | g. INACTIVE  |                                     | 1335.7 2/                             |  | 23.59  |                                   | 94.67                            |                         | 94.67                               |  | 1-14-60                     |  |
| 17. LENGTH OF RESERVOIR <b>1.33 3/</b> MILES |  |                                     |                                       | AV. WIDTH OF RESERVOIR <b>0.11</b> MILES |  |                                   |                                  |                         |                                     |  |                             |  |
| WATERSHED                                    | 18. TOTAL DRAINAGE AREA <b>3.03</b> SQ. MI.            |                                     |                                       |  | 22. MEAN ANNUAL PRECIPITATION <b>25.93(17)</b> INCHES      |                                   |                                  |                         |                                     |  |                             |  |
|  | 19. NET SEDIMENT CONTRIBUTING AREA <b>2.88</b> SQ. MI. |                                     |                                       |  | 23. MEAN ANNUAL RUNOFF <b>2.50</b> INCHES                  |                                   |                                  |                         |                                     |  |                             |  |
|  | 20. LENGTH <b>2.86</b> MILES                           |                                     | AV. WIDTH <b>1.06</b> MILES           |  | 24. MEAN ANNUAL RUNOFF <b>403.97</b> AC.-FT.               |                                   |                                  |                         |                                     |  |                             |  |
|  | 21. MAX. ELEV.   |                                     | MIN. ELEV. <b>1322.0</b>              |  | 25. ANNUAL TEMP: MEAN <b>66°F</b> RANGE <b>49°F - 82°F</b> |                                   |                                  |                         |                                     |  |                             |  |
|  | 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. |  |                             |  |
| 1-14-60                                      |  | -                                   | -                                     |  |  | 97.76                             | 645.79                           | 1.60                    |                                     |  |                             |  |
| 9-14-67                                      |  | 7.67                                | 7.67                                  | Range-                                   | 31 R   | 97.76                             | 635.49                           | 1.57                    |                                     |  |                             |  |
| 1-14-60                                      |  | -                                   | -                                     | Contour                                  | 2' CI  | 23.59                             | 94.67                            | -                       |                                     |  |                             |  |
| 9-14-67                                      |  | 7.67                                | 7.67                                  | (D)                                      |  | 23.07                             | 86.46                            | -                       |                                     |  |                             |  |
| 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              |                         |                                     |  |                             |  |
| 1/ 9-14-67                                   |  | 10.30                               | 1.34                                  | 0.46                                     | 10.30  | 1.34                              | 0.46                             |                         |                                     |  |                             |  |
| 2/ 9-14-67                                   |  | 8.21                                | 1.07                                  | 0.37                                     | 8.21   | 1.07                              | 0.37                             |                         |                                     |  |                             |  |
| 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. ANN.  | b. TOT. TO DATE                   | a. PERIOD                        | b. TOT. TO DATE         |                                     |  |                             |  |
| 2/ 9-14-67                                   |  | 68.05                               | 548                                   | 548                                      | 0.21   | 1.59                              | -                                | -                       |                                     |  |                             |  |
| 4/ 9-14-67                                   |  | 91.75                               | 175                                   | 175                                      | -  | -                                 | -                                | -                       |                                     |  |                             |  |
| 1/ 9-14-67                                   |  | -                                   | 723                                   | 723                                      | 1.13   | 8.67                              | -                                | -                       |                                     |  |                             |  |

|                    |   |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| 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. 1967 ELEVATION-AREA-CAPACITY DATA |      |          |           |       |          |           |       |          |
|---------------------------------------|------|----------|-----------|-------|----------|-----------|-------|----------|
| ELEVATION                             | AREA | CAPACITY | ELEVATION | AREA  | CAPACITY | ELEVATION | AREA  | CAPACITY |
| 1324                                  | 1.81 | 1.21     | 1334      | 16.25 | 53.21    | 1344      | 76.96 | 478.63   |
| 1326                                  | 2.67 | 5.66     | 1335.7    | 23.07 | 86.46    | 1345.8    | 97.76 | 635.49   |
| 1328                                  | 3.27 | 11.59    | 1338      | 34.51 | 152.24   |           |       |          |
| 1330                                  | 4.34 | 19.17    | 1340      | 46.65 | 233.09   |           |       |          |
| 1332                                  | 7.09 | 30.49    | 1342      | 61.28 | 340.69   |           |       |          |

47. REMARKS AND REFERENCES

1/ Total reservoir below crest elevation (1345.8).  
 2/ Sediment pool only.  
 3/ Northwest arm is 0.72 miles long. North arm is 0.61 miles long.  
 4/ Detention pool only.

RESERVOIR SEDIMENT

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DATA SUMMARY

Site No.9, Lower San Saba River

CS-34 Rev. 6-66

NAME OF RESERVOIR

53 - 46 a

DATA SHEET NO.

|                    |                                       |                                    |                                     |                                     |  |                        |   |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|--------------------|---------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|--|------------------------|---|----------------------|-----------------------------------|-----------------|-----------------------------|-----------|-------------------------|-----------------|-------------------------------------|--|
| DAM                | 1. OWNER T.N. Woods                   |                                    |                                     | 2. STREAM Colorado River            |  |                        | 3. STATE Texas                                  |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | 4. SEC. TWP. RANGE                    |                                    |                                     | 5. NEAREST P.O. San Saba            |  |                        | 6. COUNTY San Saba                              |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | 7. LAT. 31° 17' 08" LONG. 98° 53' 24" |                                    |                                     | 8. TOP OF DAM ELEVATION 1350.1      |  |                        | 9. SPILLWAY CREST ELEV. 1345.8                  |                      |                                   |                 |                             |           |                         |                 |                                     |  |
| 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                      |                                    | 1/ 1345.8                           |                                     | 97.76  |                        | 551.12  |                      | 645.79                            |                 | 1-14-60                     |           |                         |                 |                                     |  |
|                    | b. MULTIPLE USE                       |                                    |                                     |                                     |  |                        |   |                      |                                   |                 | 16. DATE NORMAL OPER. BEGAN |           |                         |                 |                                     |  |
|                    | c. POWER                              |                                    |                                     |                                     |  |                        |   |                      |                                   |                 | 1-14-60                     |           |                         |                 |                                     |  |
|                    | d. WATER SUPPLY                       |                                    |                                     |                                     |  |                        |   |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | e. IRRIGATION                         |                                    |                                     |                                     |  |                        |   |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | f. CONSERVATION                       |                                    |                                     |                                     |  |                        |   |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | g. INACTIVE                           |                                    | 2/ 1335.7                           |                                     | 23.59  |                        | 94.67   |                      | 94.67                             |                 |                             |           |                         |                 |                                     |  |
| WATERSHED          | 17. LENGTH OF RESERVOIR 3/            |                                    |                                     |                                     | 1.33 MILES                                     |                        | AV. WIDTH OF RESERVOIR 0.11 MILES               |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | 18. TOTAL DRAINAGE AREA               |                                    |                                     |                                     | 3.03 SQ. MI.                                   |                        | 22. MEAN ANNUAL PRECIPITATION 27.54 (30) INCHES |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | 19. NET SEDIMENT CONTRIBUTING AREA    |                                    |                                     |                                     | 2.88 SQ. MI.                                   |                        | 23. MEAN ANNUAL RUNOFF 2.50 INCHES              |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | 20. LENGTH 2.86 MILES                 |                                    | AV. WIDTH 1.06 MILES                |                                     | 24. MEAN ANNUAL RUNOFF 403.97 AC.-FT.          |                        |   |                      |                                   |                 |                             |           |                         |                 |                                     |  |
|                    | 21. MAX. ELEV.                        |                                    | MIN. ELEV. 13.22                    |                                     | 25. ANNUAL TEMP.: MEAN 66° F RANGE 49° - 82° F |                        |   |                      |                                   |                 |                             |           |                         |                 |                                     |  |
| 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. |  |
|                    | 1/ 1-14-60                            |                                    | -                                   |                                     | -  |                        | Range-  |                      | 31 R                              |                 | 97.76                       |           | 645.79                  |                 | 1.60                                |  |
|                    | 1/ 9-14-67                            |                                    | 7.67                                |                                     | 7.67   |                        | Contour   |                      | 2' CI                             |                 | 97.76                       |           | 635.49                  |                 | 1.57                                |  |
|                    | 1/ 7-15-77                            |                                    | 9.83                                |                                     | 17.50  |                        | (D)   |                      |                                   |                 | 97.76                       |           | 626.75                  |                 | 1.55                                |  |
|                    | 2/ 1-14-60                            |                                    | -                                   |                                     | -  |                        |   |                      |                                   |                 | 23.59                       |           | 94.67                   |                 |                                     |  |
|                    | 2/ 9-14-67                            |                                    | 7.67                                |                                     | 7.67   |                        |   |                      |                                   |                 | 23.07                       |           | 86.46                   |                 |                                     |  |
|                    | 2/ 7-15-77                            |                                    | 9.83                                |                                     | 17.50  |                        |   |                      |                                   |                 | 22.51                       |           | 84.81                   |                 |                                     |  |
|                    | 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     |                 |                                     |  |
|                    | 1/ 7-15-77                            |                                    | 8.74                                |                                     | 0.89   |                        | 0.31  |                      | 19.04                             |                 | 1.09                        |           | 0.38                    |                 |                                     |  |
|                    | 2/ 7-15-77                            |                                    | 1.65                                |                                     | 0.17   |                        | 0.06  |                      | 9.86                              |                 | 0.56                        |           | 0.20                    |                 |                                     |  |
| 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. ANN.          |                                   | b. TOT. TO DATE |                             | a. PERIOD |                         | b. TOT. TO DATE |                                     |  |
| 1/ 7-15-77         |                                       | -                                  |                                     | 601.65                              |  | 664.09                 |   | 0.17                 |                                   | 2.95            |                             |           |                         |                 |                                     |  |
| 2/ 7-15-77         |                                       | Sed P 66.25                        |                                     | 72.73                               |  | 288.59                 |   | 0.59                 |                                   | 10.42           |                             |           |                         |                 |                                     |  |
| 4/ 7-15-77         |                                       | Det P 95.78                        |                                     | 528.92                              |  | 375.50                 |   |                      |                                   |                 |                             |           |                         |                 |                                     |  |

|   |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |
|---|---|------------|-----------------|------------|------------|------------|-----------------|----------|-------|--------|------|------|------|------|------|
| 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. 1977 ELEVATION-AREA-CAPACITY DATA   |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |
| ELEVATION   | AREA  | CAPACITY   | ELEVATION       | AREA       | CAPACITY   | ELEVATION  | AREA            | CAPACITY |       |        |      |      |      |      |      |
| 1324  | 1.58  | 1.05       | 1335.7          | 22.51      | 84.81      |            |                 |          |       |        |      |      |      |      |      |
| 1326  | 2.54  | 5.13       | 1338            | 34.51      | 149.84     |            |                 |          |       |        |      |      |      |      |      |
| 1328  | 3.20  | 10.85      | 1340            | 46.65      | 230.61     |            |                 |          |       |        |      |      |      |      |      |
| 1330  | 4.25  | 18.27      | 1342            | 59.72      | 336.61     |            |                 |          |       |        |      |      |      |      |      |
| 1332  | 7.09  | 29.48      | 1344            | 75.43      | 471.32     |            |                 |          |       |        |      |      |      |      |      |
| 1334  | 16.18   | 52.11      | 1345.8          | 97.76      | 626.75     |            |                 |          |       |        |      |      |      |      |      |
| 47. REMARKS AND REFERENCES  |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |
| <u>1/</u> Total reservoir below crest elevation (1345.8).<br><u>2/</u> Sediment pool only.<br><u>3/</u> Northwest arm is 0.72 miles long. North arm is 0.61 miles long.<br><u>4/</u> Detention pool only. |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |
| Land Resource Area: Central Rolling Red Prairies.   |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |
| 48. AGENCY MAKING SURVEY SCS, Temple, Texas   |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |
| 49. AGENCY SUPPLYING DATA SCS, Temple, Texas  |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |
| 50. DATE 1-78   |   |            |                 |            |            |            |                 |          |       |        |      |      |      |      |      |