

# Volumetric Survey of Lake Georgetown

May 2005 Survey



Prepared by:

The Texas Water Development Board

September 2006

# Texas Water Development Board

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Texas Water Development Board

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Prepared for:

**Brazos River Authority**

In cooperation with the

United States Army Corps of Engineers

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## **Executive Summary**

In 2005, the Texas Water Development Board (TWDB) entered into agreement with the Brazos River Authority (BRA), for the purpose of performing a volumetric survey of Lake Georgetown. The survey was performed while the reservoir was near the top of the conservation pool elevation and this information was converted into updated Elevation-Volume and Elevation-Area Tables. Secondly, the data was compared to the 1995 TWDB survey of Lake Georgetown to determine changes in volume and surface area. Additionally, cross-sections of the 1995 data and 2005 data are compared to the pre-impoundment sediment range lines established in 1978 by the United States Army Corp of Engineers (USACE).

The results for the TWDB 2005 Survey indicate Lake Georgetown currently has a volume of 36,904 acre-feet and a surface area of 1,287 acres, at conservation pool elevation, 791.0 ft. To directly compare the TWDB 2005 Survey with the TWDB 1995 Survey, the 1995 survey was revised using the boundary created from aerial photographs for the 2005 survey. The results are presented in the report. Comparison of the TWDB 2005 Survey to the original design capacity of 37,100 acre-feet and a surface area of 1,310 acres<sup>1</sup>, results in a 0.5% loss in volume, and a 1.8% loss in surface area in 2005.

A cross-sectional comparison of eleven of the seventeen USACE 1978 sediment range lines with the TWDB 2005 Survey and the TWDB 1995 Revised Survey was conducted. Sediment Range Lines SR01 through SR03 compare the TWDB 2005 Survey data with the TWDB 1995 Revised Survey data only, as the 1978 data for these lines is unavailable. The results of the cross-sectional comparisons are variable and significant differences are most likely due to the interpolation routine of the Triangular Irregular Network (TIN) Model.

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## **Lake Georgetown General Information**

Lake Georgetown and the North San Gabriel Dam were built by the USACE to control flooding and provide a water supply to the cities of Round Rock and Georgetown. The reservoir is also a popular recreation destination. See Table 1 on the following page for pertinent data about Lake Georgetown and the North San Gabriel Dam.

### **History<sup>1</sup>**

- October 23, 1962 Flood Control Act of 1962 (PL 87-874) (HD 591/87/2)  
Authorized a reservoir system consisting of Lake Georgetown, Granger, and the South Fork Lakes.
- 1968 Construction of Lake Georgetown initiated.
- March 3, 1980 Deliberate impoundment of Lake Georgetown begins.
- 1982 Lake Georgetown completed.

### **Water Rights**

- July 23, 1964 Commission Order  
Authorized the Brazos River Authority (BRA), for the purpose of system operation, to divert and use from the North Fork Reservoir 16,500 acre-feet per annum for municipal purposes, 16,500 acre-feet per annum for industrial uses, and 4,100 acre-feet per annum for irrigation purposes.
- July 16, 1968 Permit to Appropriate State Water no. 2367  
Granted the BRA the right to impound 37,100 acre-feet in the North Fork Reservoir System, and a priority right of 14,200 acre-feet of water per annum for beneficial use.
- July 17, 1968 Permit to Appropriate State Water no. 2367A- Amendment to Permit no. 2367  
Authorized the BRA to utilize the lake for recreational purposes.
- November 3, 1980 Permit to Appropriate State Water no. 2367B- Amendment to Permit no. 2367  
Authorized the BRA to convert 100 acre-feet out of the 16,500 acre-ft previously authorized for industrial uses, to mining uses.
- November 24, 1986 Certificate of Adjudication 12-5162  
Amended the priority right of the BRA to 13,610 acre-ft of water per annum from Lake Georgetown. However, for the purposes of system operation, the BRA is authorized to exceed this new priority right and charge the excess against the sum of

the amounts designated as priority rights in the other reservoirs included in the System Operation Order. The right to divert and use for municipal, irrigation, industrial, and mining uses remains the same as originally authorized and amended by Permit no. 2367B. The complete certificate is on file in the Records Division of the Texas Commission on Environmental Quality (TCEQ).

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**Table 1. Pertinent Data for Lake Georgetown and the North San Gabriel Dam<sup>1</sup>**

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**Owner of Lake Georgetown and Facilities**

United States of America

**Operator of Lake Georgetown and Facilities**

U. S. Army Corps of Engineers (USACE), Fort Worth District

**Engineer (Design)**

USACE, Fort Worth District

**Location of Dam**

River Mile 4.3 on the North Fork of the San Gabriel River, Brazos River Basin, 3.5 miles west of Georgetown, TX in Williamson County. (Figure 1)

**Drainage Area**

246 square miles

**Dam**

|                |                               |
|----------------|-------------------------------|
| Type           | Rock fill, impervious cover   |
| Length (total) | 6,700 ft (including spillway) |
| Maximum Height | 164 ft                        |
| Top Width      | 30 ft                         |

**Spillway**

|                 |              |
|-----------------|--------------|
| Type            | Broadcrested |
| Length          | 1000 ft      |
| Crest elevation | 834.0 ft msl |
| Control         | None         |

**Outlet Works**

|                  |  |
|------------------|--|
| Type             | 1 gate controlled conduit                      |
| Dimension        | 11 ft diameter                                 |
| Control          | 2- 5 ft x 11 ft hydraulic operated slide gates |
| Invert Elevation | 720.0 ft msl                                   |

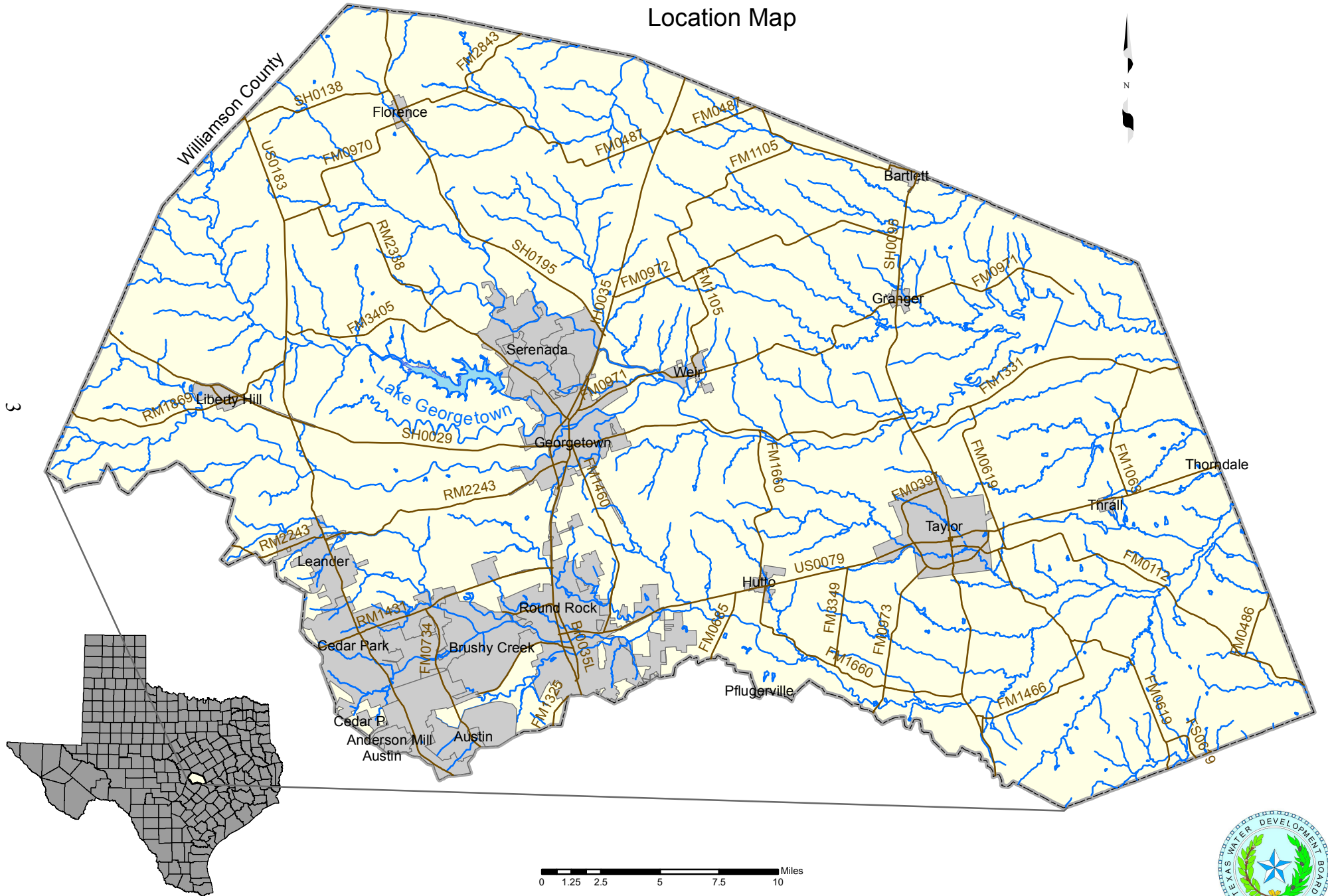
**Reservoir Data** (Based on TWDB 2005 volumetric survey)

| <b>Feature</b>                                  | <b>Elevation<br/>(ft above msl)</b> | <b>Capacity<br/>(Acre-feet)</b> | <b>Area<br/>(Acres)</b> |
|---|-------------------------------------|---------------------------------|-------------------------|
| Top of Dam                                      | 861.0                               | N/A                             | N/A                     |
| Top of Flood Control Pool<br>And Spillway Crest | 834.0                               | N/A                             | N/A                     |
| Top of Conservation Pool                        | 791.0                               | 36,904                          | 1,287                   |

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# Figure 1 LAKE GEORGETOWN

Location Map



# **Volumetric Survey of Lake Georgetown**

## **Introduction**

In March of 2005, the Texas Water Development Board (TWDB) entered into agreement with the Brazos River Authority, for the purpose of performing a volumetric survey of Lake Georgetown. The survey was performed while the reservoir was near the top of the conservation pool elevation, and this information was converted into updated Elevation-Volume and Elevation-Area Tables. Secondly, the data was compared to the 1995 TWDB survey of Lake Georgetown to monitor changes in volume and surface area. In addition, cross-sections of the 1995 data and 2005 data are compared to the pre-impoundment sediment range lines established in 1978 by the U.S. Army Corp of Engineers (USACE).

## **Hydrographic Survey**

Records<sup>1</sup> indicate the conservation pool elevation for Lake Georgetown is 791.0 ft above mean sea level (msl). The TWDB survey occurred on May 18th and 19th of 2005. During the TWDB 2005 survey, water levels varied between 791.33 ft and 791.34 ft msl.<sup>2</sup> The survey team used two boats equipped with depth sounders, velocity profilers, and integrated Differential Global Positioning System (DGPS) equipment. The depth sounders were calibrated each day using the velocity profilers to measure the speed of sound in the water column and a weighted tape or stadia rod to verify the depth reading. The speed of sound varied between 4,892 and 4,899 feet per second during the TWDB 2005 Survey. Depth and positional data were collected along a set of pre-plotted navigation lines, originally designed for the TWDB 1995 Survey, which were spaced approximately 500 feet apart. Additional data were collected around the water supply intake and outlet works structures near the dam. The survey team navigated approximately 50 miles of range lines and collected over 34,000 data points.

## Survey Results

The results of the TWDB 2005 Survey indicate Lake Georgetown has a capacity of 36,904 acre-feet of water and encompasses 1,287 acres at conservation pool elevation, 791.0 ft. Table 2 compares the TWDB 2005 Survey with previous surveys of Lake Georgetown completed by the TWDB and USACE.

| Feature            | USACE                        | TWDB                |        |
|--------------------|------------------------------|---------------------|--------|
|                    | Original Design <sup>1</sup> | Volumetric Survey   |        |
| Year               | N/A*                         | 1995 (Revised 2005) | 2005   |
| Area (acres)       | 1,310                        | 1,287               | 1,287  |
| Volume (acre-feet) | 37,100                       | 36,123              | 36,904 |

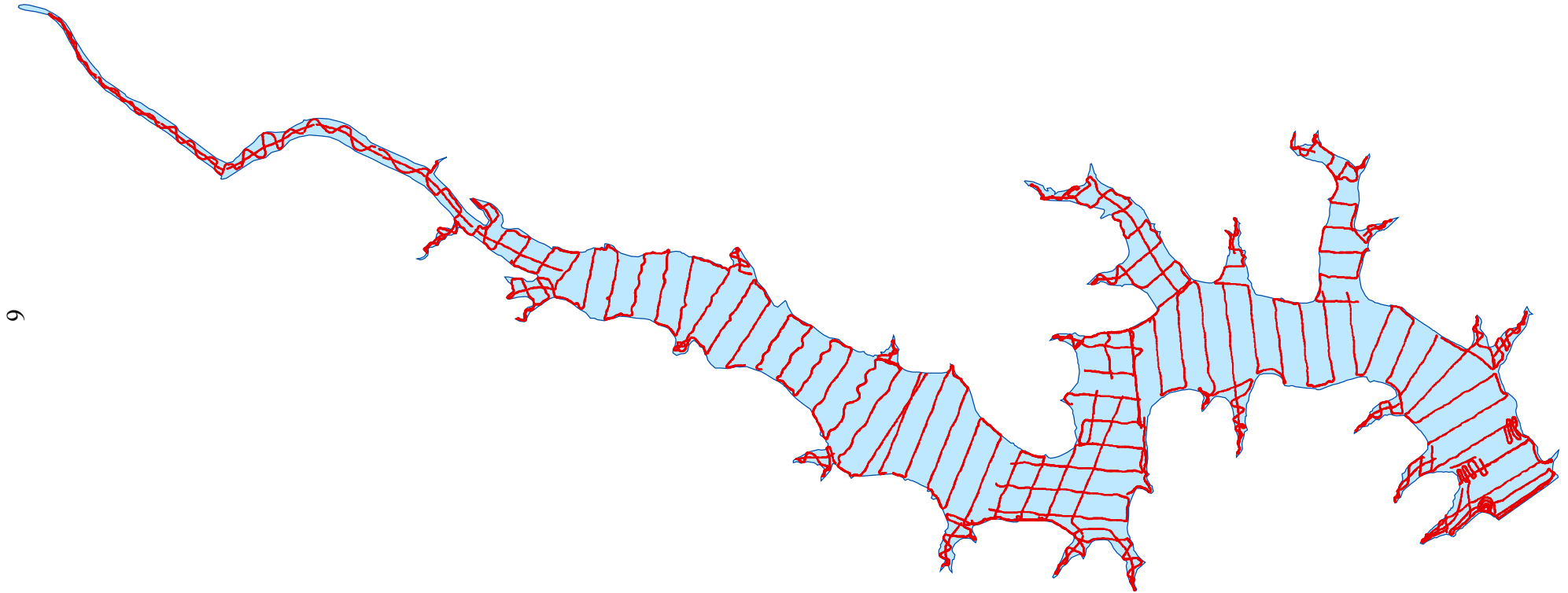
\* Deliberate impoundment began in 1980

The TWDB 1995 Survey was revised using the 2005 boundary for the purpose of directly comparing any changes in volume between 1995 and 2005. Originally, the 1995 boundary was digitized from 1:24,000 scale USGS Topographic Maps<sup>3</sup>, whereas, the 2005 boundary was digitized from 1995-1996 1:12,000 scale aerial photographs.

The addition of a shallow water boat during the TWDB 2005 Survey allowed data to be collected in shallow areas near the shore and in the upper reaches, areas inaccessible by boat during the 1995 survey. A revised Triangular Irregular Network (TIN) Model using the 1995 data with the 2005 boundary was created and compared to the 2005 model. The additional data in 2005 resulted in a better interpolation of the TIN Model around the edges and may explain the 2.2% increase in volume in the 2005 survey results. The TWDB 2005 survey data is presented in Figure 2. Figure 3 compares the data collected in 2005 to the data the TWDB collected in 1995.

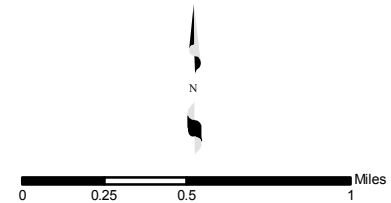
There is a 0.5% difference in volume and a 1.8% difference in surface area between the 2005 Survey and the original design, and a 2.6% difference in volume between the 1995 Revised Survey and the original design. Some differences between the original design and the TWDB surveys may be due to methodological differences used in computing the area and volume and direct comparisons are not recommended.<sup>4</sup>

**Figure 2**  
**Lake Georgetown**  
Data points collected during the TWDB 2005 Survey



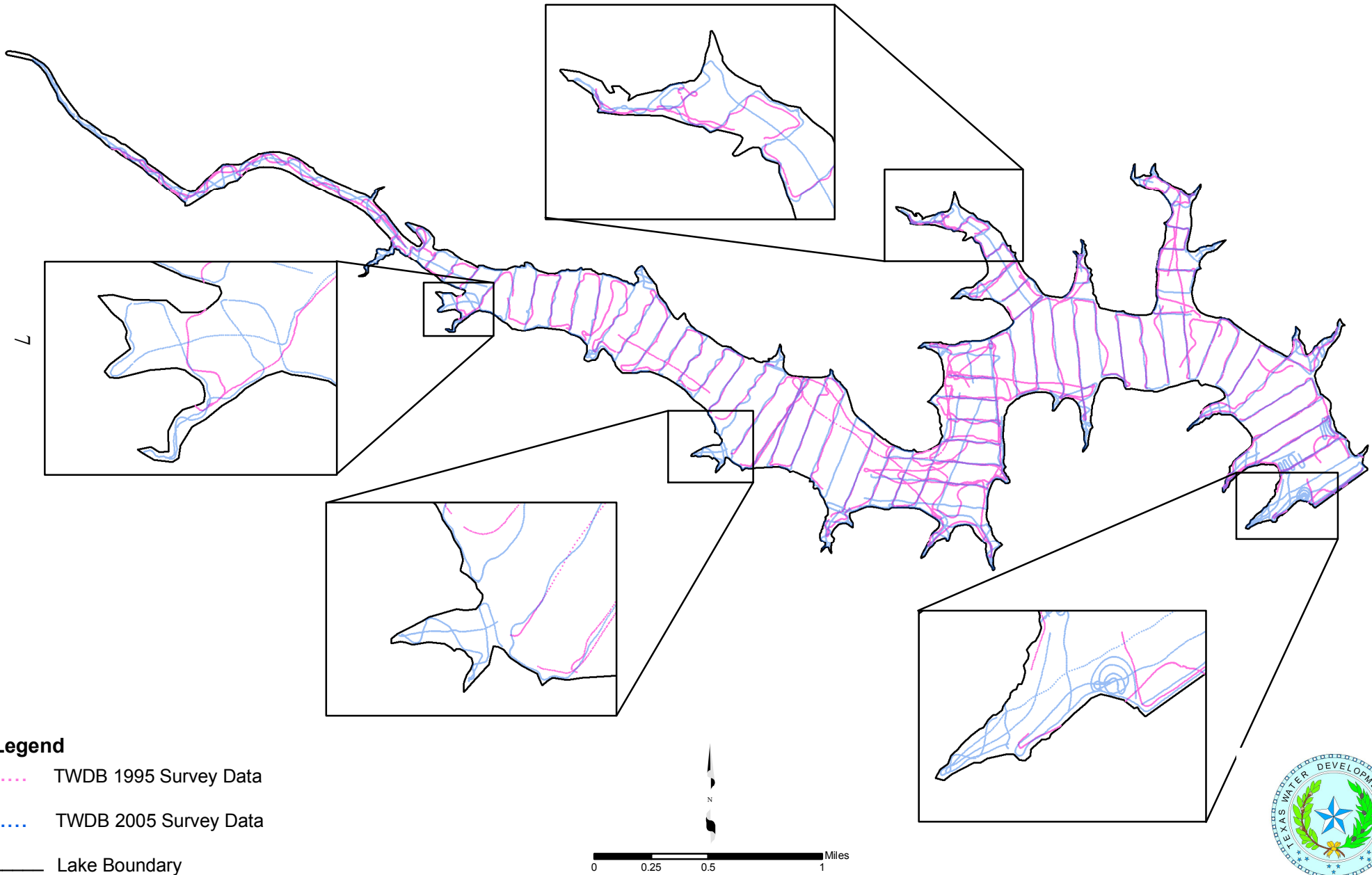
**Legend**

- ..... Data Points
- Lake Boundary



# Figure 3 Lake Georgetown

Comparison of data collected in the TWDB 1995 Survey and data collected in the TWDB 2005 Survey



## **Data Processing**

### **Datum**

The vertical datum used during this survey is that used by the United States Geological Survey (USGS) for the reservoir elevation gauge USGS 08104650 Lake Georgetown near Georgetown.<sup>2</sup> The datum for this gauge is reported as mean sea level (msl), thus elevations reported here are in feet (ft) above msl. Volume and area calculations in this report are referenced to water levels provided by the USGS gauge. The horizontal datum used for this report is NAD83 State Plane Texas Central Zone.

### **Model boundary**

The reservoir boundary was digitized from digital orthophoto quadrangle images (DOQs) using Environmental Systems Research Institute's (ESRI) ArcGIS 9.1 software. The DOQs used for Lake Georgetown were Georgetown and Leander NE, photographed between January and February of 1995. At the time of the photographs the water surface elevation varied between 784.78 and 786.81 ft, therefore staff used field observations, 1:24,000 scale hypsography (contours), and beaches and vegetation visible in the DOQs to interpret the boundary at elevation 791 ft.

VARGIS of Texas LLC produced the DOQs for the Texas Orthoimagery Program (TOP). The DOQs produced for the Department of Information Resources and the GIS Planning Council under the TOP reside in the public domain. More information can be obtained on the Internet at <http://www.tnris.state.tx.us/DigitalData/doqs.htm>.

### **Triangular Irregular Network (TIN) Model**

Upon completion of data collection, the raw data files are edited in HYPACK MAX to remove any data anomalies. The water surface elevations for each respective day are applied and the depths are converted to corresponding elevations and exported as a MASS points file. The MASS points and boundary files are used to create a Triangulated Irregular Network (TIN) model, a function of the 3D Analyst Extension of ArcGIS. The model uses Delauney's criteria for triangulation to place a triangle between three non-uniformly spaced points, including the boundary.<sup>5</sup>



Using Arc/Info software, volumes and areas are calculated from the TIN Model for the entire lake at one-tenth of a foot intervals, from elevation 706.4 ft to elevation 791.0 ft. The Elevation-Volume and Elevation-Area Tables, updated for 2005, are presented in Appendices A and B, respectively. The 1995 Revised Survey Elevation-Volume and Elevation-Area Tables are presented in Appendices C and D, respectively. An Elevation-Volume graph comparing the TWDB 2005 Survey with the 1995 TWDB Revised Survey is presented in Appendix E. An Elevation-Area graph is presented in Appendix F. A raster image of the TIN Model was used to create Figure 4, an Elevation Relief Map representing the topography of the lake bottom, Figure 5, a map showing shaded depth ranges for Lake Georgetown, and Figure 6, a 5 ft contour map.

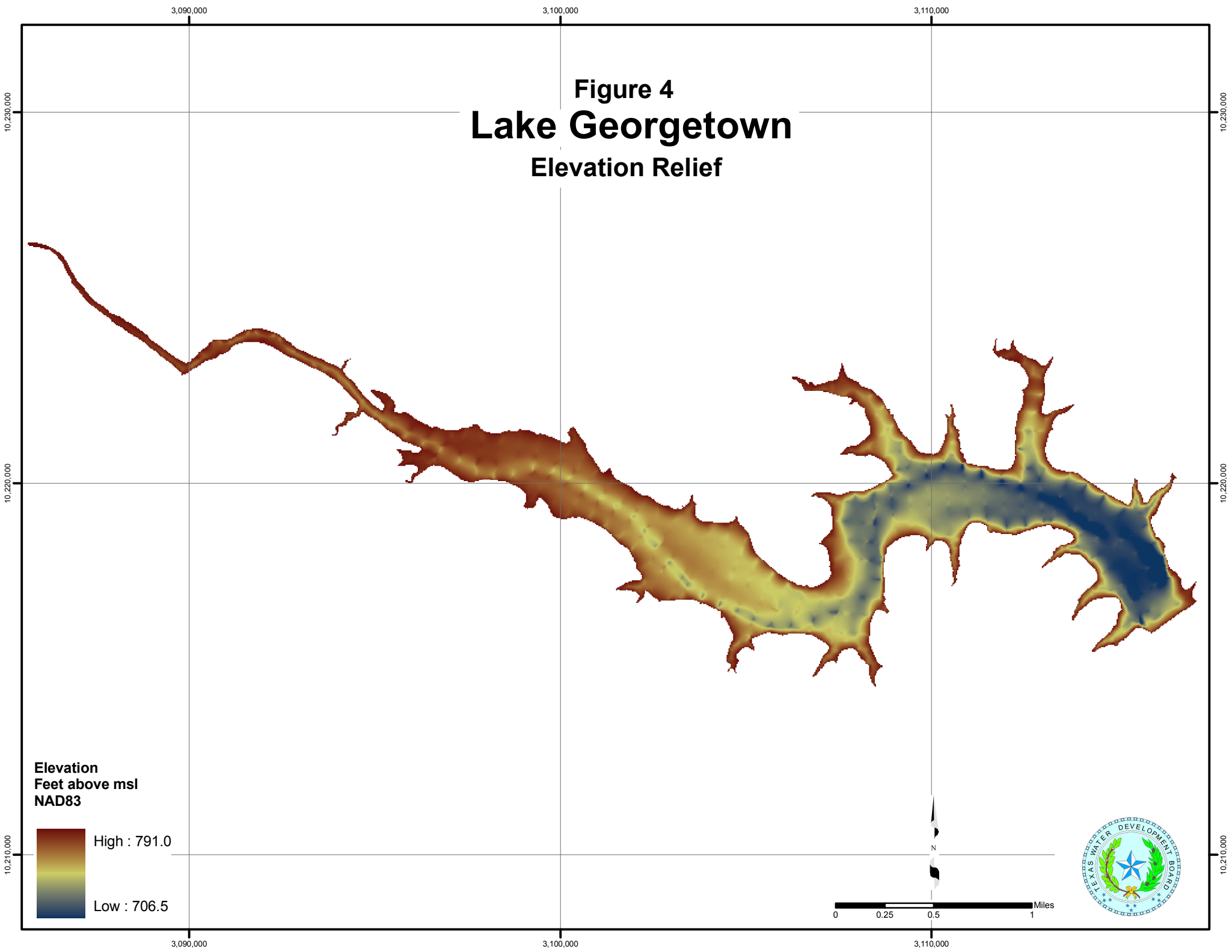
### **Sediment Range Lines**

A cross-sectional comparison of eleven of the seventeen USACE 1978 sediment range lines with the TWDB 2005 Survey and the TWDB 1995 Revised Survey is presented in Appendix G. Also presented in Appendix G are a map, depicting the historical locations of the Sediment Range Lines and Table 3, a list of the endpoint coordinates for each line. Sediment Range Lines SR01 through SR03 compare the TWDB 2005 Survey data with the TWDB 1995 Revised Survey data only, as the 1978 data for these lines is unavailable. The results of the cross-sectional comparisons are variable and significant differences are most likely due to the interpolation routine of the TIN Model.

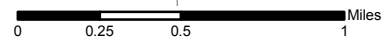
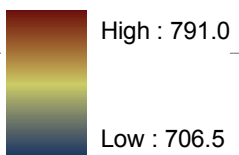
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1. United States Corps of Engineers, Fort Worth District, Reservoir Control Office. 1981. <<http://www.swf-wc.usace.army.mil/>> Reservoir Pertinent Data. 29 August 2005.
2. United States Geological Society. <http://tx.usgs.gov/>. 20 May 2005
3. Texas Water Development Board. 1995. "Volumetric Survey of Lake Georgetown."
4. Blanton III, James O. Bureau of Reclamation. 1982. "Procedures for Monitoring Reservoir Sedimentation."
5. ESRI, Environmental Systems Research Institute. 1995. ARC/INFO Surface Modeling and Display, TIN Users Guide.

# Figure 4 Lake Georgetown Elevation Relief



Elevation  
Feet above msl  
NAD83



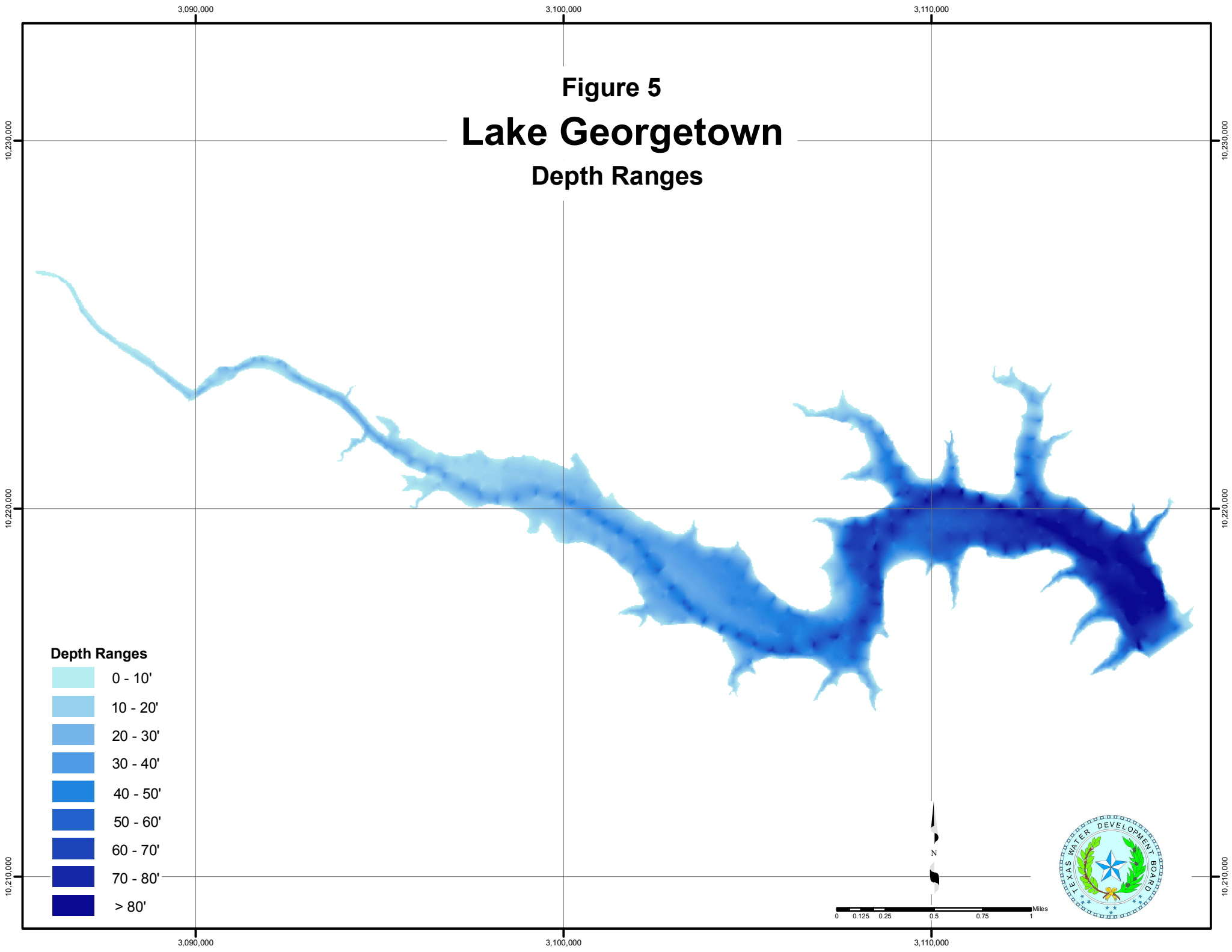
N



# Figure 5

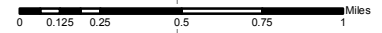
## Lake Georgetown

### Depth Ranges



**Depth Ranges**

|          |
|----------|
| 0 - 10'  |
| 10 - 20' |
| 20 - 30' |
| 30 - 40' |
| 40 - 50' |
| 50 - 60' |
| 60 - 70' |
| 70 - 80' |
| > 80'    |



Appendix A  
**Lake Georgetown**  
**RESERVOIR VOLUME TABLE**

TEXAS WATER DEVELOPMENT BOARD

MAY 2005 SURVEY

Conservation Pool Elevation 791.0'

| ELEVATION<br>in Feet | VOLUME IN ACRE-FEET |        |        |        |        |        |        |        |        |        |
|----------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      | 0.0                 | 0.1    | 0.2    | 0.3    | 0.4    | 0.5    | 0.6    | 0.7    | 0.8    | 0.9    |
| 706                  |                     |        |        |        | 0      | 0      | 0      | 0      | 0      | 0      |
| 707                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 708                  | 0                   | 0      | 0      | 0      | 1      | 1      | 1      | 1      | 1      | 1      |
| 709                  | 1                   | 1      | 2      | 2      | 2      | 2      | 2      | 2      | 3      | 3      |
| 710                  | 3                   | 3      | 3      | 4      | 4      | 4      | 4      | 5      | 5      | 5      |
| 711                  | 5                   | 6      | 6      | 6      | 7      | 7      | 7      | 8      | 8      | 8      |
| 712                  | 8                   | 9      | 9      | 9      | 10     | 10     | 11     | 11     | 11     | 12     |
| 713                  | 12                  | 13     | 13     | 14     | 14     | 15     | 15     | 16     | 16     | 17     |
| 714                  | 17                  | 18     | 19     | 19     | 20     | 20     | 21     | 22     | 22     | 23     |
| 715                  | 24                  | 24     | 25     | 26     | 27     | 27     | 28     | 29     | 30     | 31     |
| 716                  | 31                  | 32     | 33     | 34     | 35     | 36     | 37     | 38     | 39     | 40     |
| 717                  | 41                  | 42     | 43     | 44     | 45     | 46     | 48     | 49     | 50     | 51     |
| 718                  | 52                  | 54     | 55     | 56     | 58     | 59     | 60     | 62     | 63     | 64     |
| 719                  | 66                  | 67     | 69     | 70     | 72     | 73     | 75     | 76     | 78     | 80     |
| 720                  | 81                  | 83     | 84     | 86     | 88     | 90     | 91     | 93     | 95     | 97     |
| 721                  | 98                  | 100    | 102    | 104    | 106    | 108    | 110    | 112    | 114    | 116    |
| 722                  | 118                 | 120    | 122    | 125    | 127    | 129    | 131    | 134    | 136    | 138    |
| 723                  | 141                 | 143    | 146    | 148    | 151    | 153    | 156    | 158    | 161    | 164    |
| 724                  | 166                 | 169    | 172    | 175    | 178    | 181    | 183    | 187    | 190    | 193    |
| 725                  | 197                 | 200    | 204    | 208    | 212    | 216    | 220    | 225    | 229    | 234    |
| 726                  | 239                 | 244    | 249    | 254    | 259    | 264    | 269    | 275    | 280    | 286    |
| 727                  | 291                 | 297    | 303    | 309    | 315    | 321    | 327    | 334    | 340    | 346    |
| 728                  | 353                 | 360    | 367    | 374    | 381    | 388    | 396    | 403    | 411    | 419    |
| 729                  | 427                 | 435    | 444    | 452    | 461    | 469    | 478    | 488    | 497    | 506    |
| 730                  | 516                 | 525    | 535    | 545    | 555    | 565    | 575    | 585    | 596    | 606    |
| 731                  | 617                 | 627    | 638    | 649    | 660    | 671    | 682    | 694    | 705    | 716    |
| 732                  | 728                 | 740    | 752    | 764    | 776    | 788    | 800    | 812    | 825    | 837    |
| 733                  | 850                 | 862    | 875    | 888    | 901    | 914    | 928    | 941    | 954    | 968    |
| 734                  | 982                 | 995    | 1,009  | 1,023  | 1,037  | 1,051  | 1,065  | 1,080  | 1,094  | 1,109  |
| 735                  | 1,123               | 1,138  | 1,153  | 1,168  | 1,183  | 1,199  | 1,214  | 1,229  | 1,245  | 1,261  |
| 736                  | 1,277               | 1,292  | 1,309  | 1,325  | 1,341  | 1,357  | 1,374  | 1,390  | 1,407  | 1,424  |
| 737                  | 1,441               | 1,458  | 1,475  | 1,493  | 1,510  | 1,528  | 1,546  | 1,564  | 1,582  | 1,600  |
| 738                  | 1,619               | 1,637  | 1,656  | 1,675  | 1,694  | 1,713  | 1,732  | 1,752  | 1,772  | 1,791  |
| 739                  | 1,811               | 1,832  | 1,852  | 1,872  | 1,893  | 1,914  | 1,935  | 1,956  | 1,977  | 1,998  |
| 740                  | 2,020               | 2,041  | 2,063  | 2,085  | 2,107  | 2,129  | 2,152  | 2,174  | 2,197  | 2,220  |
| 741                  | 2,243               | 2,266  | 2,289  | 2,312  | 2,336  | 2,359  | 2,383  | 2,407  | 2,431  | 2,455  |
| 742                  | 2,479               | 2,504  | 2,528  | 2,553  | 2,578  | 2,603  | 2,628  | 2,653  | 2,679  | 2,704  |
| 743                  | 2,730               | 2,756  | 2,782  | 2,808  | 2,834  | 2,860  | 2,887  | 2,914  | 2,940  | 2,967  |
| 744                  | 2,994               | 3,022  | 3,049  | 3,076  | 3,104  | 3,132  | 3,160  | 3,188  | 3,216  | 3,245  |
| 745                  | 3,273               | 3,302  | 3,331  | 3,360  | 3,389  | 3,419  | 3,448  | 3,478  | 3,508  | 3,538  |
| 746                  | 3,569               | 3,599  | 3,630  | 3,661  | 3,692  | 3,723  | 3,754  | 3,785  | 3,817  | 3,848  |
| 747                  | 3,880               | 3,912  | 3,944  | 3,976  | 4,009  | 4,041  | 4,074  | 4,107  | 4,140  | 4,173  |
| 748                  | 4,206               | 4,240  | 4,273  | 4,307  | 4,341  | 4,375  | 4,409  | 4,444  | 4,478  | 4,513  |
| 749                  | 4,547               | 4,582  | 4,618  | 4,653  | 4,688  | 4,724  | 4,759  | 4,795  | 4,831  | 4,867  |
| 750                  | 4,904               | 4,940  | 4,977  | 5,014  | 5,051  | 5,088  | 5,125  | 5,163  | 5,200  | 5,238  |
| 751                  | 5,276               | 5,314  | 5,352  | 5,391  | 5,429  | 5,468  | 5,507  | 5,546  | 5,585  | 5,624  |
| 752                  | 5,663               | 5,703  | 5,743  | 5,782  | 5,822  | 5,862  | 5,903  | 5,943  | 5,983  | 6,024  |
| 753                  | 6,064               | 6,105  | 6,146  | 6,187  | 6,228  | 6,270  | 6,311  | 6,353  | 6,394  | 6,436  |
| 754                  | 6,478               | 6,520  | 6,562  | 6,604  | 6,647  | 6,690  | 6,732  | 6,775  | 6,818  | 6,861  |
| 755                  | 6,905               | 6,948  | 6,992  | 7,035  | 7,079  | 7,124  | 7,168  | 7,212  | 7,257  | 7,302  |
| 756                  | 7,346               | 7,391  | 7,437  | 7,482  | 7,528  | 7,573  | 7,619  | 7,666  | 7,712  | 7,758  |
| 757                  | 7,805               | 7,852  | 7,899  | 7,946  | 7,994  | 8,041  | 8,089  | 8,137  | 8,185  | 8,234  |
| 758                  | 8,282               | 8,331  | 8,380  | 8,429  | 8,479  | 8,528  | 8,578  | 8,628  | 8,678  | 8,728  |
| 759                  | 8,779               | 8,829  | 8,880  | 8,931  | 8,982  | 9,034  | 9,085  | 9,137  | 9,189  | 9,241  |
| 760                  | 9,293               | 9,346  | 9,399  | 9,452  | 9,505  | 9,558  | 9,612  | 9,666  | 9,719  | 9,774  |
| 761                  | 9,828               | 9,883  | 9,937  | 9,992  | 10,047 | 10,103 | 10,158 | 10,214 | 10,270 | 10,326 |
| 762                  | 10,382              | 10,439 | 10,496 | 10,553 | 10,610 | 10,667 | 10,725 | 10,783 | 10,841 | 10,899 |



Appendix B  
**Lake Georgetown**  
**RESERVOIR AREA TABLE**

TEXAS WATER DEVELOPMENT BOARD

MAY 2005 SURVEY

Conservation Pool Elevation 791.0'

| ELEVATION<br>in Feet | AREA IN ACRES |     |     |     |     |     |     |     |     |     |
|----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                      | 0.0           | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 706                  |               |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   |
| 707                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 708                  | 0             | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 709                  | 1             | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| 710                  | 2             | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 3   | 3   |
| 711                  | 3             | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 712                  | 3             | 3   | 3   | 4   | 4   | 4   | 4   | 4   | 4   | 4   |
| 713                  | 5             | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 6   | 6   |
| 714                  | 6             | 6   | 6   | 6   | 6   | 6   | 6   | 7   | 7   | 7   |
| 715                  | 7             | 7   | 7   | 7   | 7   | 8   | 8   | 8   | 8   | 8   |
| 716                  | 9             | 9   | 9   | 9   | 9   | 9   | 10  | 10  | 10  | 10  |
| 717                  | 10            | 11  | 11  | 11  | 11  | 12  | 12  | 12  | 12  | 12  |
| 718                  | 13            | 13  | 13  | 13  | 13  | 13  | 14  | 14  | 14  | 14  |
| 719                  | 14            | 15  | 15  | 15  | 15  | 15  | 15  | 16  | 16  | 16  |
| 720                  | 16            | 16  | 17  | 17  | 17  | 17  | 18  | 18  | 18  | 18  |
| 721                  | 18            | 19  | 19  | 19  | 19  | 20  | 20  | 20  | 21  | 21  |
| 722                  | 21            | 21  | 22  | 22  | 22  | 22  | 23  | 23  | 23  | 24  |
| 723                  | 24            | 24  | 25  | 25  | 25  | 26  | 26  | 26  | 27  | 27  |
| 724                  | 27            | 28  | 28  | 28  | 29  | 29  | 30  | 31  | 33  | 34  |
| 725                  | 35            | 37  | 38  | 40  | 41  | 43  | 44  | 45  | 46  | 47  |
| 726                  | 48            | 49  | 50  | 51  | 52  | 52  | 53  | 54  | 55  | 56  |
| 727                  | 57            | 58  | 59  | 60  | 61  | 62  | 63  | 64  | 65  | 66  |
| 728                  | 67            | 68  | 69  | 71  | 72  | 74  | 75  | 77  | 79  | 80  |
| 729                  | 82            | 83  | 84  | 86  | 87  | 89  | 90  | 92  | 93  | 94  |
| 730                  | 96            | 97  | 98  | 99  | 100 | 101 | 102 | 103 | 104 | 105 |
| 731                  | 106           | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 115 | 116 |
| 732                  | 117           | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 |
| 733                  | 127           | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 |
| 734                  | 137           | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 |
| 735                  | 147           | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 157 | 158 |
| 736                  | 159           | 160 | 161 | 162 | 163 | 164 | 166 | 167 | 168 | 169 |
| 737                  | 171           | 172 | 173 | 175 | 176 | 177 | 179 | 180 | 182 | 183 |
| 738                  | 185           | 186 | 188 | 190 | 191 | 193 | 195 | 196 | 198 | 199 |
| 739                  | 201           | 203 | 204 | 205 | 207 | 208 | 210 | 211 | 213 | 214 |
| 740                  | 215           | 217 | 218 | 220 | 221 | 223 | 224 | 226 | 227 | 229 |
| 741                  | 230           | 231 | 233 | 234 | 235 | 237 | 238 | 239 | 241 | 242 |
| 742                  | 244           | 245 | 247 | 248 | 249 | 251 | 252 | 253 | 255 | 256 |
| 743                  | 258           | 259 | 260 | 262 | 263 | 264 | 266 | 267 | 268 | 270 |
| 744                  | 271           | 273 | 274 | 276 | 277 | 279 | 280 | 282 | 283 | 285 |
| 745                  | 287           | 288 | 290 | 292 | 294 | 296 | 297 | 299 | 301 | 302 |
| 746                  | 304           | 306 | 307 | 309 | 310 | 312 | 313 | 315 | 316 | 317 |
| 747                  | 319           | 320 | 321 | 323 | 324 | 326 | 327 | 329 | 331 | 332 |
| 748                  | 334           | 335 | 337 | 338 | 340 | 341 | 343 | 344 | 346 | 347 |
| 749                  | 349           | 350 | 352 | 353 | 355 | 356 | 358 | 359 | 361 | 363 |
| 750                  | 364           | 366 | 367 | 369 | 371 | 372 | 374 | 375 | 377 | 379 |
| 751                  | 380           | 382 | 383 | 385 | 386 | 388 | 389 | 390 | 392 | 393 |
| 752                  | 395           | 396 | 397 | 398 | 400 | 401 | 402 | 404 | 405 | 406 |
| 753                  | 407           | 409 | 410 | 411 | 412 | 414 | 415 | 416 | 417 | 418 |
| 754                  | 420           | 421 | 422 | 424 | 425 | 426 | 428 | 429 | 431 | 432 |
| 755                  | 434           | 436 | 437 | 439 | 440 | 442 | 443 | 445 | 447 | 448 |
| 756                  | 450           | 452 | 453 | 455 | 457 | 458 | 460 | 462 | 464 | 466 |
| 757                  | 468           | 470 | 471 | 473 | 475 | 478 | 480 | 482 | 484 | 486 |
| 758                  | 487           | 489 | 491 | 493 | 495 | 496 | 498 | 500 | 502 | 503 |
| 759                  | 505           | 507 | 509 | 511 | 512 | 514 | 516 | 519 | 521 | 523 |
| 760                  | 525           | 527 | 529 | 531 | 533 | 535 | 537 | 539 | 541 | 543 |
| 761                  | 545           | 547 | 548 | 550 | 552 | 554 | 556 | 558 | 560 | 562 |





Appendix C  
**Lake Georgetown**  
**RESERVOIR VOLUME TABLE**

TEXAS WATER DEVELOPMENT BOARD

April-May 1995 SURVEY (Revised 2005)

Conservation Pool Elevation 791.0'

| ELEVATION<br>IN FEET | VOLUME IN ACRE-FEET |        |        |        |        |        |        |        |        |        |
|----------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      | 0.0                 | 0.1    | 0.2    | 0.3    | 0.4    | 0.5    | 0.6    | 0.7    | 0.8    | 0.9    |
| 706                  |                     |        |        |        | 0      | 0      | 0      | 0      | 0      | 0      |
| 707                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 708                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 709                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 710                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 711                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 712                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 713                  | 0                   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| 714                  | 0                   | 0      | 0      | 0      | 1      | 1      | 1      | 1      | 1      | 1      |
| 715                  | 1                   | 1      | 1      | 1      | 1      | 2      | 2      | 2      | 2      | 2      |
| 716                  | 2                   | 2      | 3      | 3      | 3      | 3      | 3      | 3      | 4      | 4      |
| 717                  | 4                   | 4      | 5      | 5      | 5      | 5      | 6      | 6      | 6      | 7      |
| 718                  | 7                   | 7      | 8      | 8      | 8      | 9      | 9      | 10     | 10     | 11     |
| 719                  | 11                  | 12     | 12     | 13     | 13     | 14     | 15     | 15     | 16     | 17     |
| 720                  | 17                  | 18     | 19     | 20     | 21     | 22     | 22     | 23     | 24     | 25     |
| 721                  | 26                  | 27     | 29     | 30     | 31     | 32     | 33     | 34     | 36     | 37     |
| 722                  | 38                  | 40     | 41     | 43     | 44     | 46     | 47     | 49     | 50     | 52     |
| 723                  | 53                  | 55     | 57     | 59     | 60     | 62     | 64     | 66     | 68     | 70     |
| 724                  | 72                  | 74     | 76     | 78     | 80     | 82     | 85     | 87     | 89     | 91     |
| 725                  | 94                  | 96     | 99     | 101    | 104    | 106    | 109    | 112    | 114    | 117    |
| 726                  | 121                 | 124    | 127    | 131    | 135    | 138    | 142    | 146    | 150    | 154    |
| 727                  | 159                 | 163    | 168    | 173    | 177    | 182    | 187    | 192    | 197    | 203    |
| 728                  | 208                 | 213    | 219    | 225    | 230    | 236    | 242    | 248    | 254    | 261    |
| 729                  | 267                 | 274    | 281    | 287    | 295    | 302    | 309    | 316    | 324    | 332    |
| 730                  | 340                 | 348    | 356    | 365    | 374    | 382    | 391    | 400    | 410    | 419    |
| 731                  | 429                 | 439    | 449    | 459    | 469    | 480    | 490    | 501    | 512    | 523    |
| 732                  | 534                 | 545    | 557    | 568    | 580    | 591    | 603    | 615    | 627    | 640    |
| 733                  | 652                 | 664    | 677    | 690    | 702    | 715    | 728    | 741    | 755    | 768    |
| 734                  | 781                 | 795    | 808    | 822    | 836    | 850    | 864    | 878    | 892    | 907    |
| 735                  | 921                 | 936    | 951    | 965    | 980    | 996    | 1,011  | 1,026  | 1,042  | 1,057  |
| 736                  | 1,073               | 1,089  | 1,105  | 1,121  | 1,137  | 1,154  | 1,170  | 1,187  | 1,204  | 1,221  |
| 737                  | 1,238               | 1,255  | 1,273  | 1,290  | 1,308  | 1,326  | 1,344  | 1,362  | 1,381  | 1,399  |
| 738                  | 1,418               | 1,437  | 1,456  | 1,475  | 1,494  | 1,514  | 1,533  | 1,553  | 1,573  | 1,593  |
| 739                  | 1,613               | 1,634  | 1,654  | 1,675  | 1,696  | 1,717  | 1,738  | 1,759  | 1,780  | 1,802  |
| 740                  | 1,823               | 1,845  | 1,867  | 1,889  | 1,911  | 1,933  | 1,955  | 1,978  | 2,000  | 2,023  |
| 741                  | 2,045               | 2,068  | 2,091  | 2,114  | 2,138  | 2,161  | 2,184  | 2,208  | 2,232  | 2,256  |
| 742                  | 2,279               | 2,304  | 2,328  | 2,352  | 2,377  | 2,401  | 2,426  | 2,451  | 2,476  | 2,501  |
| 743                  | 2,526               | 2,551  | 2,576  | 2,602  | 2,628  | 2,653  | 2,679  | 2,706  | 2,732  | 2,758  |
| 744                  | 2,784               | 2,811  | 2,838  | 2,865  | 2,892  | 2,919  | 2,946  | 2,974  | 3,001  | 3,029  |
| 745                  | 3,057               | 3,085  | 3,113  | 3,142  | 3,170  | 3,199  | 3,228  | 3,257  | 3,286  | 3,315  |
| 746                  | 3,345               | 3,375  | 3,405  | 3,435  | 3,465  | 3,495  | 3,526  | 3,557  | 3,588  | 3,619  |
| 747                  | 3,650               | 3,681  | 3,713  | 3,744  | 3,776  | 3,808  | 3,840  | 3,872  | 3,905  | 3,937  |
| 748                  | 3,970               | 4,003  | 4,035  | 4,068  | 4,102  | 4,135  | 4,168  | 4,202  | 4,236  | 4,270  |
| 749                  | 4,304               | 4,338  | 4,372  | 4,407  | 4,442  | 4,476  | 4,511  | 4,546  | 4,582  | 4,617  |
| 750                  | 4,652               | 4,688  | 4,724  | 4,760  | 4,796  | 4,832  | 4,868  | 4,905  | 4,942  | 4,979  |
| 751                  | 5,016               | 5,053  | 5,090  | 5,128  | 5,165  | 5,203  | 5,241  | 5,279  | 5,317  | 5,356  |
| 752                  | 5,394               | 5,433  | 5,472  | 5,511  | 5,550  | 5,589  | 5,629  | 5,669  | 5,708  | 5,748  |
| 753                  | 5,788               | 5,828  | 5,869  | 5,909  | 5,950  | 5,991  | 6,031  | 6,072  | 6,114  | 6,155  |
| 754                  | 6,196               | 6,238  | 6,280  | 6,322  | 6,364  | 6,406  | 6,449  | 6,491  | 6,534  | 6,577  |
| 755                  | 6,620               | 6,663  | 6,706  | 6,750  | 6,794  | 6,837  | 6,881  | 6,925  | 6,970  | 7,014  |
| 756                  | 7,059               | 7,103  | 7,148  | 7,193  | 7,238  | 7,284  | 7,329  | 7,375  | 7,421  | 7,467  |
| 757                  | 7,513               | 7,560  | 7,607  | 7,653  | 7,701  | 7,748  | 7,796  | 7,844  | 7,892  | 7,940  |
| 758                  | 7,989               | 8,038  | 8,087  | 8,136  | 8,186  | 8,235  | 8,285  | 8,335  | 8,385  | 8,436  |
| 759                  | 8,486               | 8,537  | 8,588  | 8,640  | 8,691  | 8,743  | 8,794  | 8,846  | 8,898  | 8,951  |
| 760                  | 9,003               | 9,056  | 9,109  | 9,162  | 9,215  | 9,269  | 9,322  | 9,376  | 9,430  | 9,484  |
| 761                  | 9,539               | 9,593  | 9,648  | 9,703  | 9,759  | 9,814  | 9,870  | 9,925  | 9,981  | 10,038 |
| 762                  | 10,094              | 10,150 | 10,207 | 10,264 | 10,321 | 10,378 | 10,436 | 10,493 | 10,551 | 10,609 |



Appendix D  
**Lake Georgetown**  
**RESERVOIR AREA TABLE**

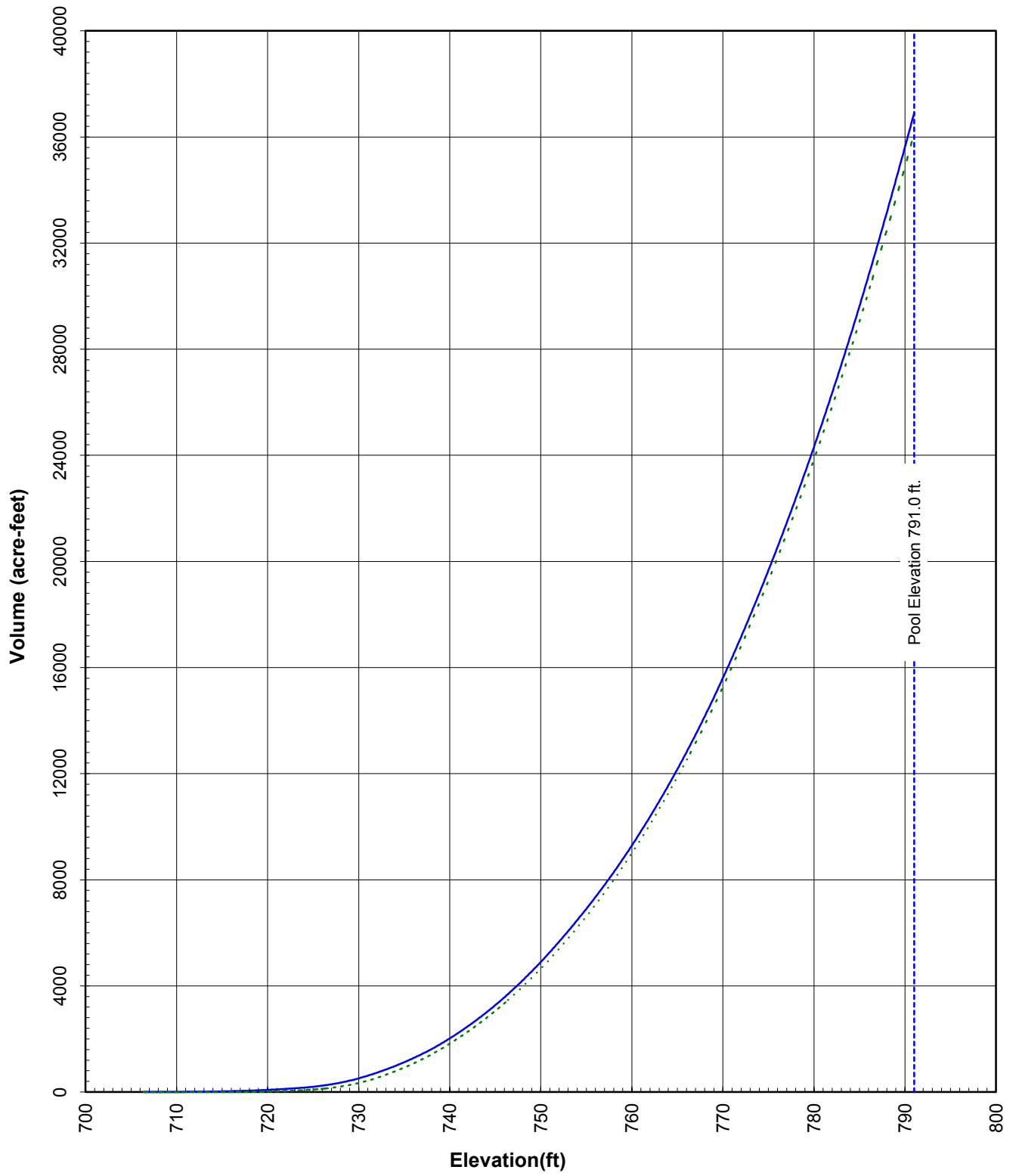
TEXAS WATER DEVELOPMENT BOARD

April-May 1995 SURVEY (Revised 2005)

Conservation Pool Elevation 791.0'

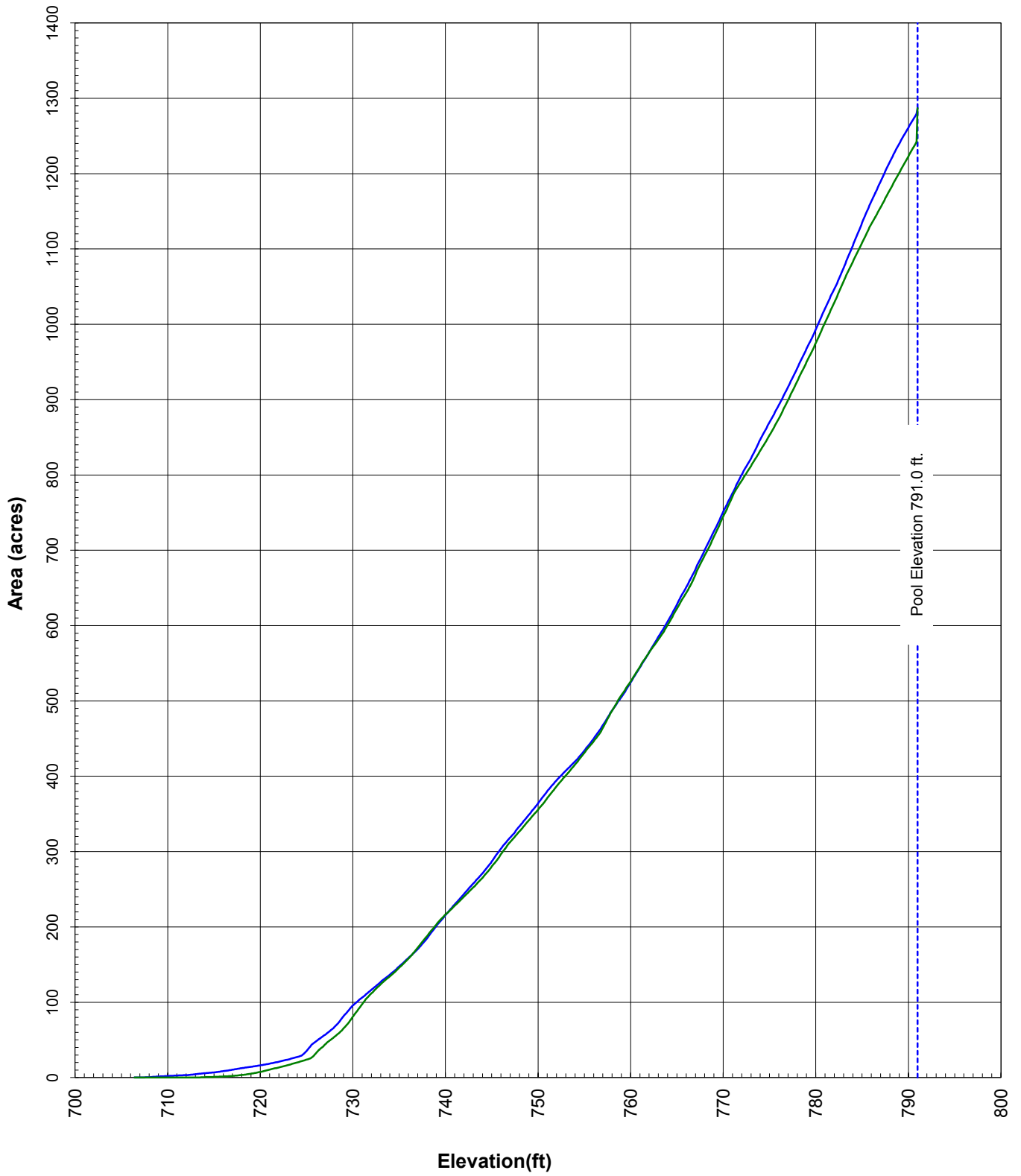
| ELEVATION<br>IN FEET | AREA IN ACRES |     |     |     |     |     |     |     |     |     |
|----------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                      | 0.0           | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 706                  |               |     |     |     | 0   | 0   | 0   | 0   | 0   | 0   |
| 707                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 708                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 709                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 710                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 711                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 712                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 713                  | 0             | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| 714                  | 1             | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 715                  | 1             | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 716                  | 1             | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| 717                  | 2             | 2   | 2   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 718                  | 3             | 4   | 4   | 4   | 4   | 4   | 4   | 5   | 5   | 5   |
| 719                  | 5             | 5   | 6   | 6   | 6   | 6   | 6   | 7   | 7   | 7   |
| 720                  | 8             | 8   | 8   | 8   | 9   | 9   | 9   | 10  | 10  | 10  |
| 721                  | 10            | 11  | 11  | 11  | 12  | 12  | 12  | 13  | 13  | 13  |
| 722                  | 14            | 14  | 14  | 14  | 15  | 15  | 15  | 16  | 16  | 16  |
| 723                  | 17            | 17  | 17  | 18  | 18  | 18  | 19  | 19  | 19  | 20  |
| 724                  | 20            | 20  | 21  | 21  | 22  | 22  | 22  | 23  | 23  | 23  |
| 725                  | 24            | 24  | 25  | 25  | 25  | 26  | 27  | 28  | 29  | 31  |
| 726                  | 32            | 34  | 35  | 36  | 37  | 38  | 39  | 40  | 41  | 43  |
| 727                  | 44            | 45  | 46  | 47  | 48  | 49  | 50  | 51  | 52  | 53  |
| 728                  | 54            | 55  | 56  | 57  | 58  | 59  | 60  | 61  | 63  | 64  |
| 729                  | 65            | 67  | 68  | 69  | 71  | 72  | 74  | 75  | 77  | 79  |
| 730                  | 81            | 83  | 84  | 86  | 88  | 89  | 91  | 92  | 94  | 96  |
| 731                  | 97            | 99  | 101 | 102 | 104 | 105 | 107 | 108 | 109 | 111 |
| 732                  | 112           | 113 | 114 | 115 | 117 | 118 | 119 | 120 | 122 | 123 |
| 733                  | 124           | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 |
| 734                  | 134           | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 |
| 735                  | 146           | 147 | 148 | 149 | 151 | 152 | 153 | 154 | 155 | 157 |
| 736                  | 158           | 159 | 161 | 162 | 163 | 165 | 166 | 168 | 169 | 171 |
| 737                  | 172           | 174 | 176 | 177 | 179 | 180 | 182 | 183 | 185 | 186 |
| 738                  | 188           | 189 | 191 | 192 | 194 | 195 | 197 | 198 | 200 | 201 |
| 739                  | 203           | 204 | 206 | 207 | 209 | 210 | 211 | 213 | 214 | 215 |
| 740                  | 216           | 217 | 219 | 220 | 221 | 222 | 223 | 224 | 226 | 227 |
| 741                  | 228           | 229 | 230 | 232 | 233 | 234 | 235 | 236 | 238 | 239 |
| 742                  | 240           | 241 | 243 | 244 | 245 | 246 | 247 | 249 | 250 | 251 |
| 743                  | 252           | 254 | 255 | 256 | 257 | 259 | 260 | 261 | 263 | 264 |
| 744                  | 265           | 267 | 268 | 270 | 271 | 272 | 274 | 275 | 277 | 278 |
| 745                  | 280           | 282 | 283 | 285 | 286 | 288 | 289 | 291 | 293 | 295 |
| 746                  | 297           | 298 | 300 | 302 | 303 | 305 | 307 | 308 | 310 | 311 |
| 747                  | 313           | 314 | 316 | 317 | 319 | 320 | 321 | 323 | 324 | 326 |
| 748                  | 327           | 328 | 330 | 331 | 333 | 334 | 336 | 337 | 339 | 340 |
| 749                  | 341           | 343 | 344 | 346 | 347 | 349 | 350 | 351 | 353 | 354 |
| 750                  | 356           | 357 | 359 | 360 | 361 | 363 | 364 | 366 | 368 | 369 |
| 751                  | 371           | 372 | 374 | 376 | 377 | 379 | 380 | 382 | 383 | 385 |
| 752                  | 387           | 388 | 390 | 391 | 393 | 394 | 396 | 397 | 398 | 400 |
| 753                  | 401           | 402 | 404 | 405 | 407 | 408 | 410 | 411 | 413 | 414 |
| 754                  | 416           | 417 | 419 | 420 | 422 | 423 | 425 | 427 | 428 | 430 |
| 755                  | 431           | 433 | 434 | 436 | 437 | 439 | 440 | 442 | 443 | 445 |
| 756                  | 446           | 448 | 449 | 451 | 453 | 454 | 456 | 458 | 460 | 462 |
| 757                  | 464           | 466 | 469 | 471 | 474 | 476 | 478 | 481 | 483 | 485 |
| 758                  | 487           | 489 | 491 | 493 | 495 | 498 | 500 | 502 | 504 | 506 |
| 759                  | 507           | 509 | 511 | 513 | 515 | 517 | 519 | 520 | 522 | 524 |
| 760                  | 526           | 528 | 530 | 532 | 534 | 536 | 538 | 539 | 541 | 543 |
| 761                  | 545           | 547 | 549 | 551 | 553 | 555 | 557 | 559 | 561 | 563 |
| 762                  | 564           | 566 | 568 | 570 | 571 | 573 | 575 | 576 | 578 | 580 |





----- Pool Elevation 791.0'    
 ————— Volume 2005    
 ----- Volume 1995 (Revised 2005)

**Lake Georgetown**  
 May 2005  
 Prepared by: TWDB



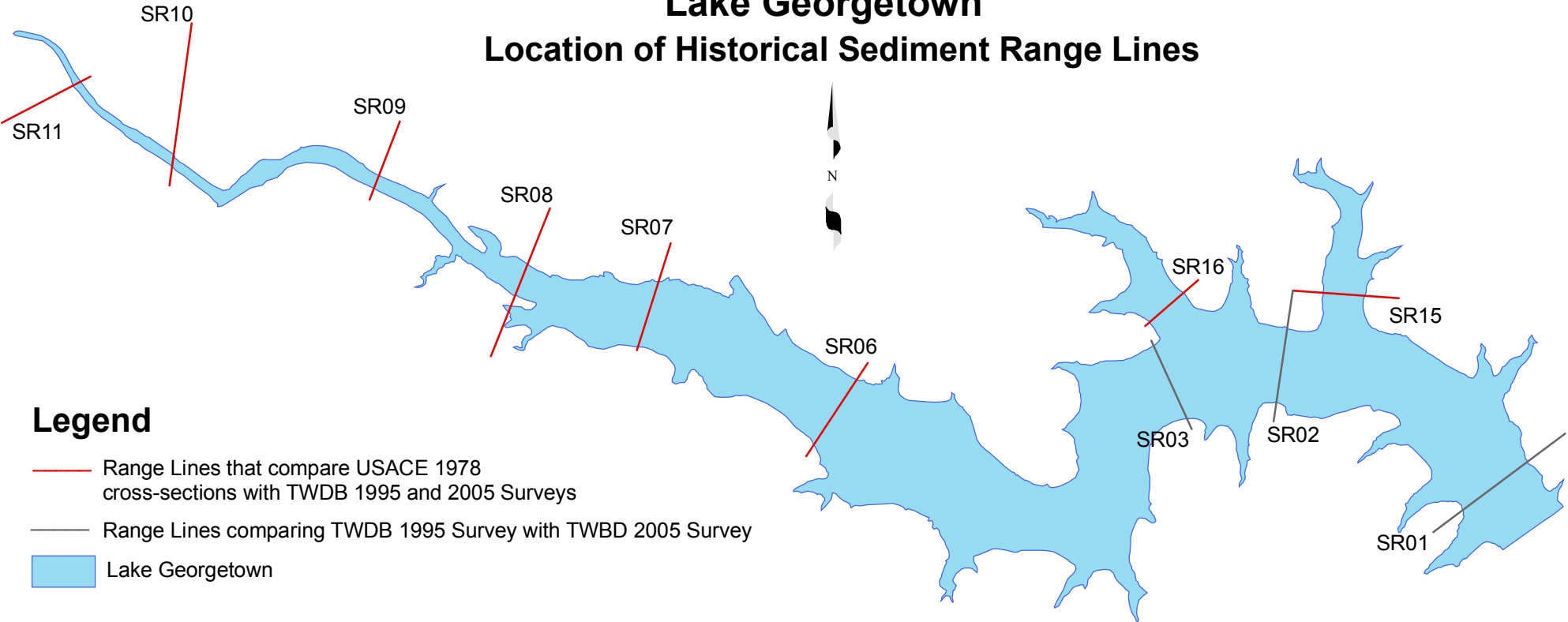
----- Pool Elevation 791.0'
 ——— Area 2005
 ——— Area 1995 (Revised 2005)

**Lake Georgetown**  
 May 2005  
 Prepared by: TWDB

# Appendix G

## Lake Georgetown

### Location of Historical Sediment Range Lines



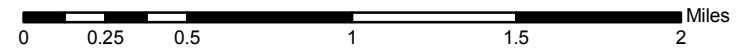
#### Legend

- Range Lines that compare USACE 1978 cross-sections with TWDB 1995 and 2005 Surveys
- Range Lines comparing TWDB 1995 Survey with TWDB 2005 Survey
- Lake Georgetown

**Table 3: Lake Georgetown Sediment Range Lines Endpoints Est. 1978 USACE**

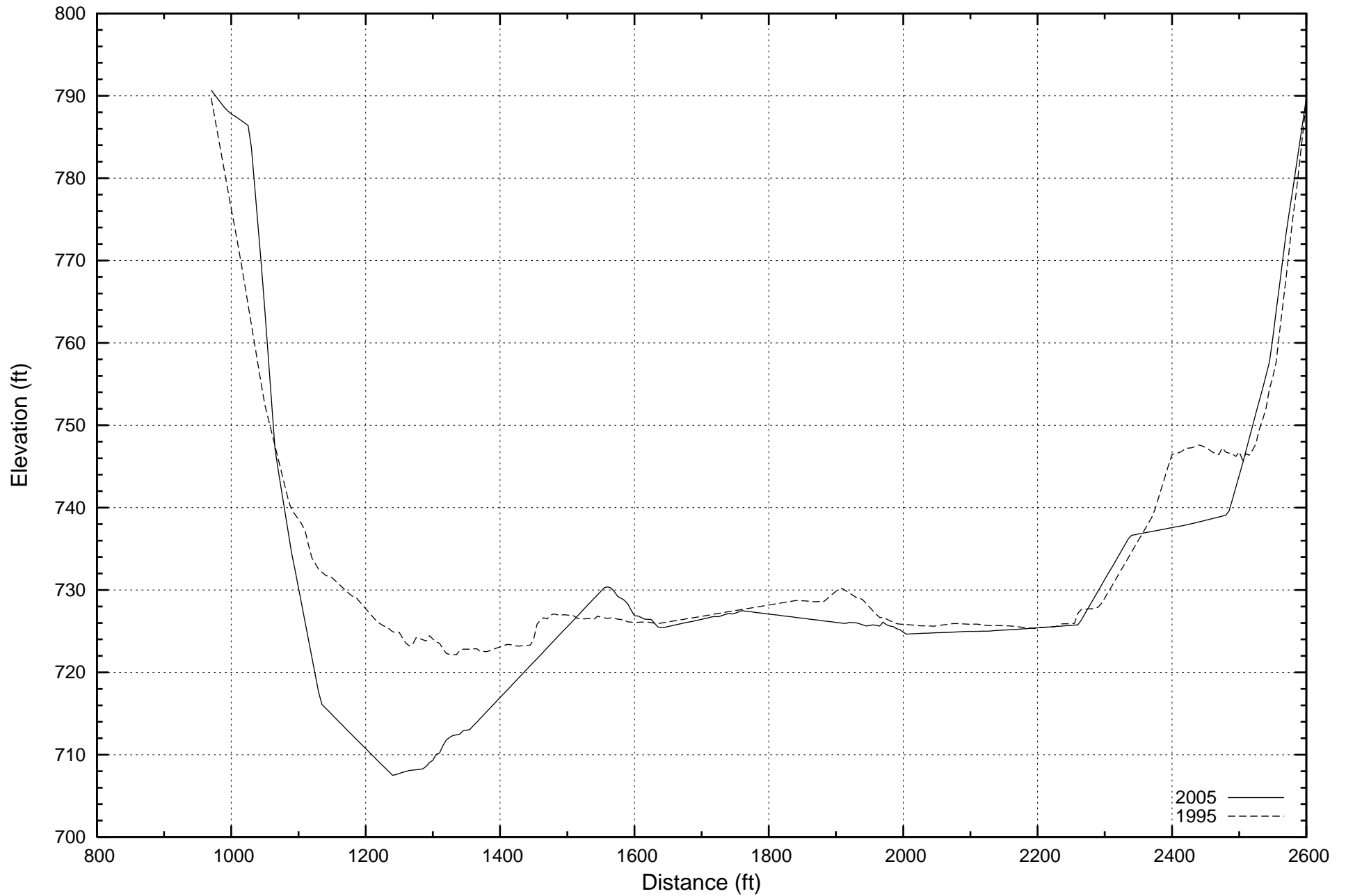
| Sediment Range Line | X <sub>L</sub> | Y <sub>L</sub> | X <sub>R</sub> | Y <sub>R</sub> |
|---------------------|----------------|----------------|----------------|----------------|
| SR01                | 2,820,695.56   | 375,734.64     | 2,818,009.32   | 373,728.01     |
| SR02                | 2,815,159.06   | 378,640.20     | 2,814,763.21   | 375,972.37     |
| SR03                | 2,812,284.95   | 377,623.70     | 2,813,104.96   | 375,818.84     |
| SR06                | 2,806,525.87   | 377,172.58     | 2,805,271.62   | 375,271.97     |
| SR07                | 2,802,524.41   | 379,602.24     | 2,801,834.00   | 377,422.96     |
| SR08                | 2,800,070.01   | 380,304.86     | 2,798,862.10   | 377,297.99     |
| SR09                | 2,797,015.27   | 382,073.51     | 2,796,402.25   | 380,480.53     |
| SR10                | 2,792,793.12   | 384,063.081    | 2,792,334.69   | 380,773.05     |
| SR11                | 2,790,740.85   | 382,988.09     | 2,788,934.00   | 382,041.33     |
| SR15                | 2,817,312.71   | 378,482.72     | 2,815,159.06   | 378,640.29     |
| SR16                | 2,813,234.28   | 378,853.61     | 2,812,163.85   | 377,917.39     |

XY: Lambert Grid Coordinates North American Datum 1927 L= Left End Pt R= Right End Pt



# Lake Georgetown

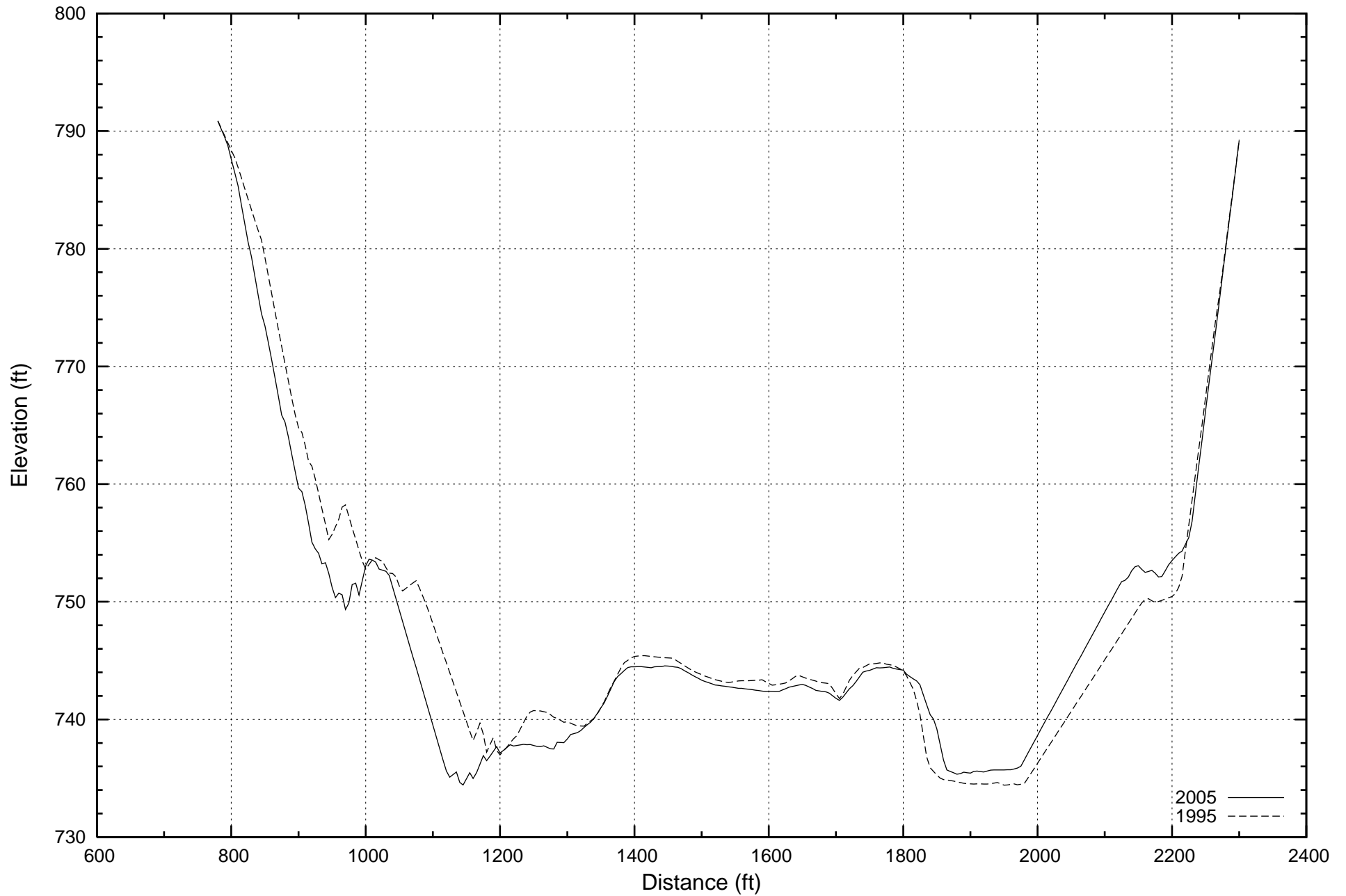
## Range Line SR01





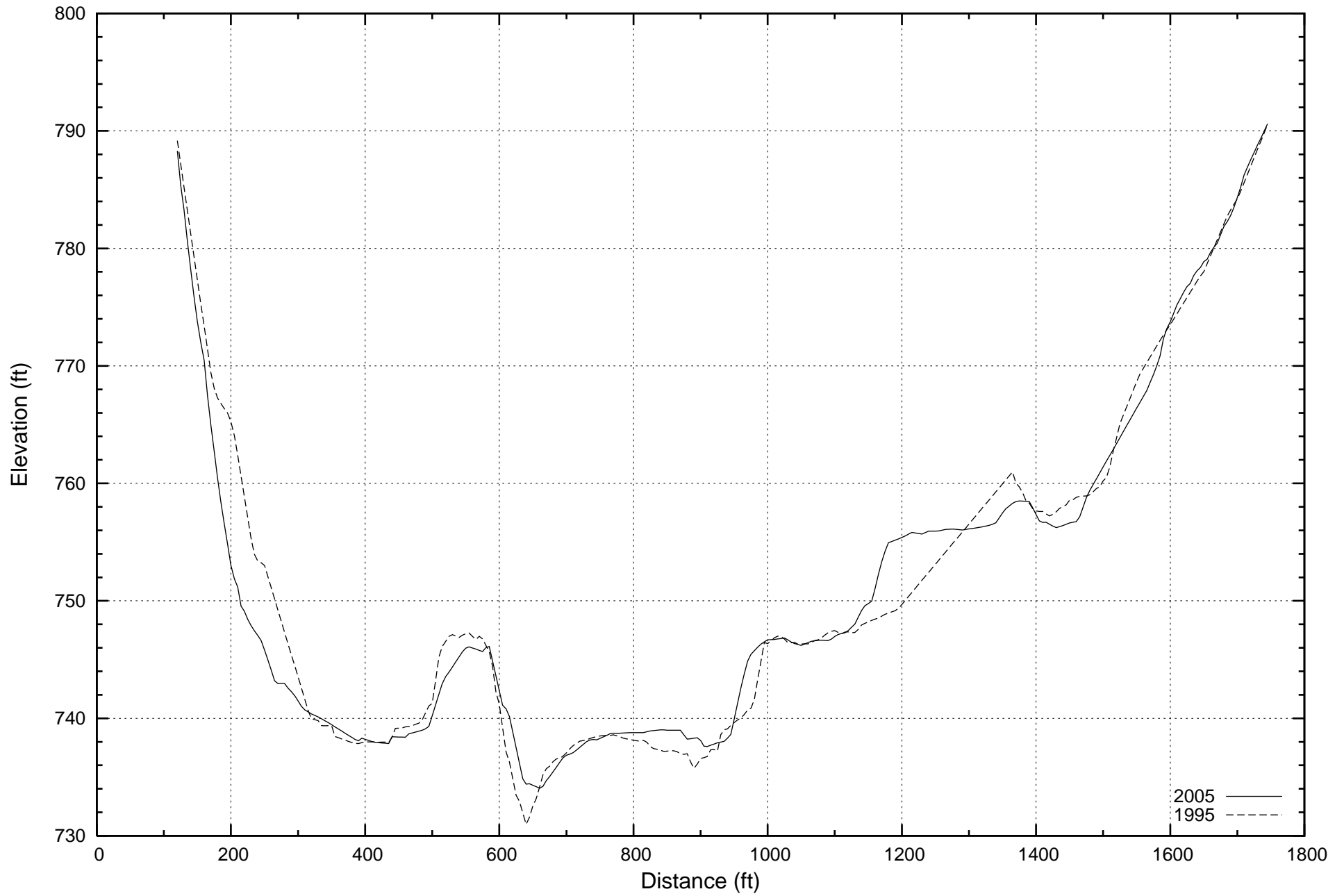
# Lake Georgetown

## Range Line SR02



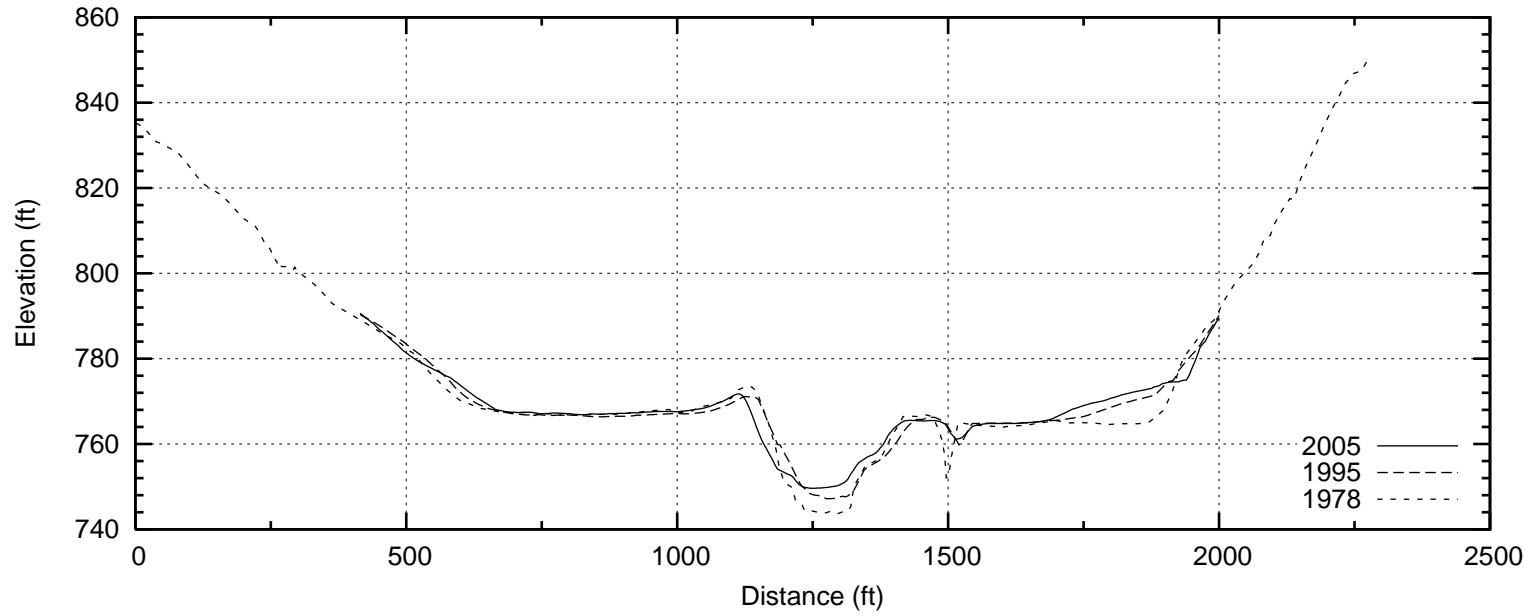
# Lake Georgetown

## Range Line SR03

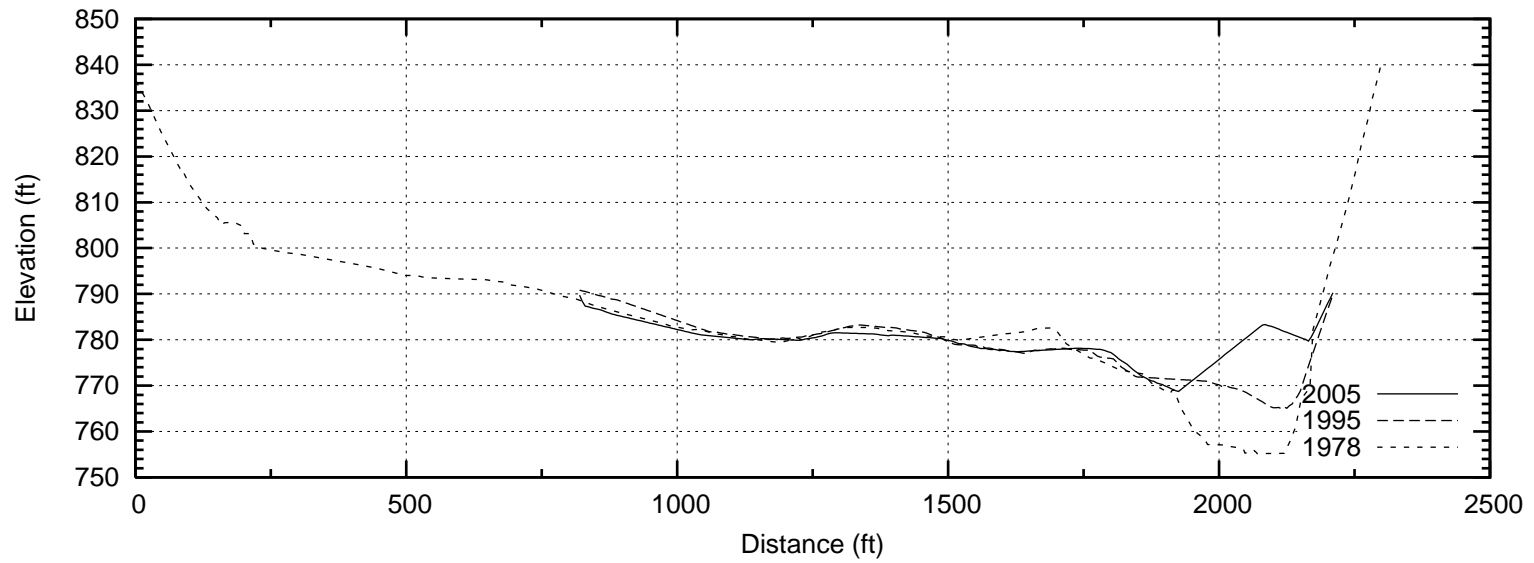


# Lake Georgetown

## Range Line SR06

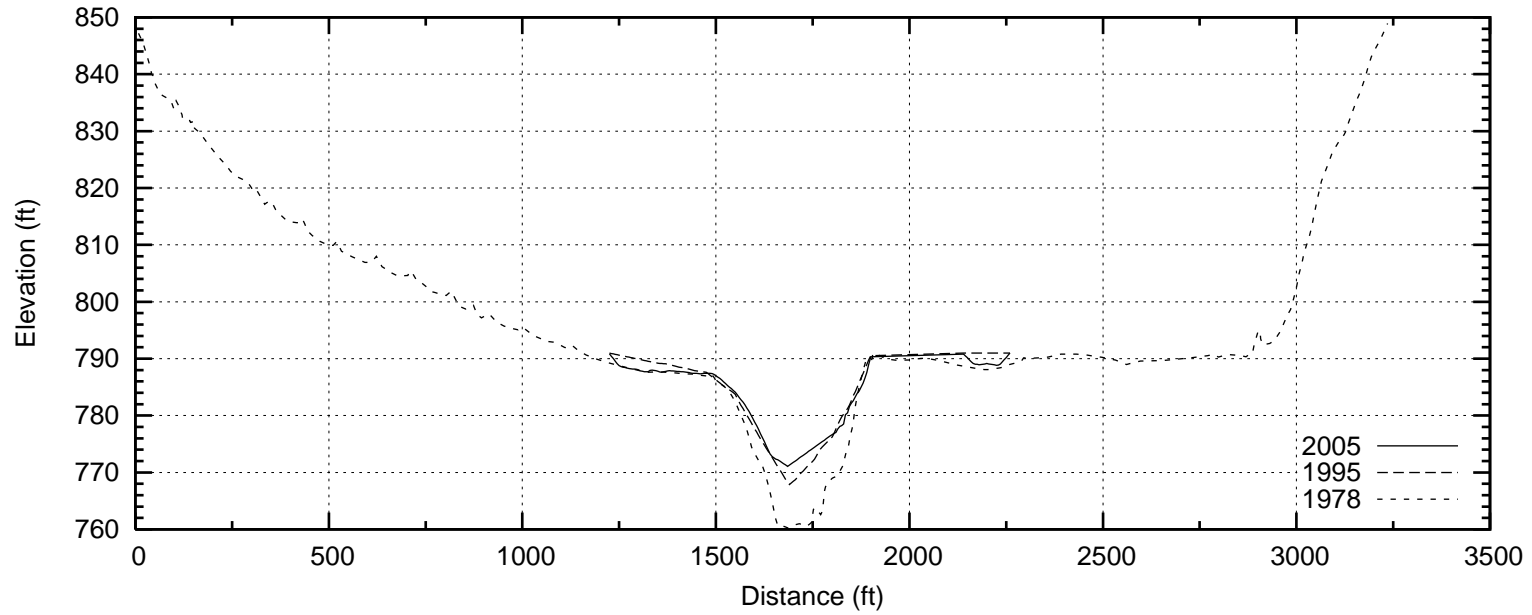


## Range Line SR07

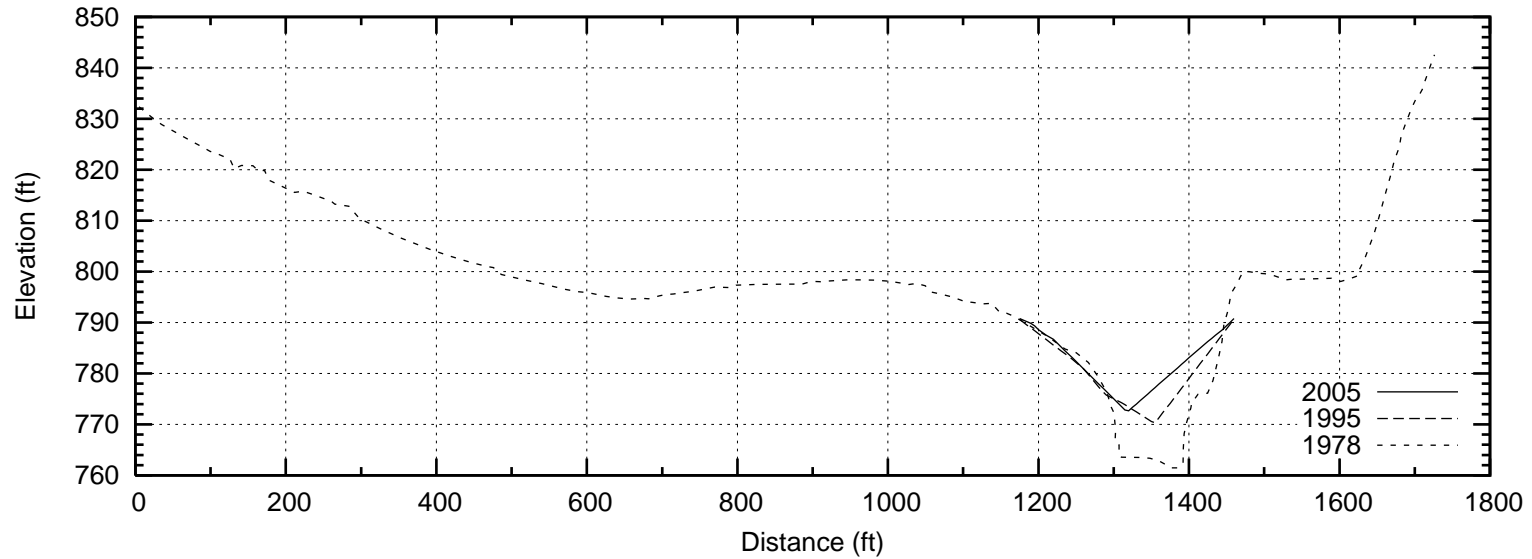


# Lake Georgetown

## Range Line SR08

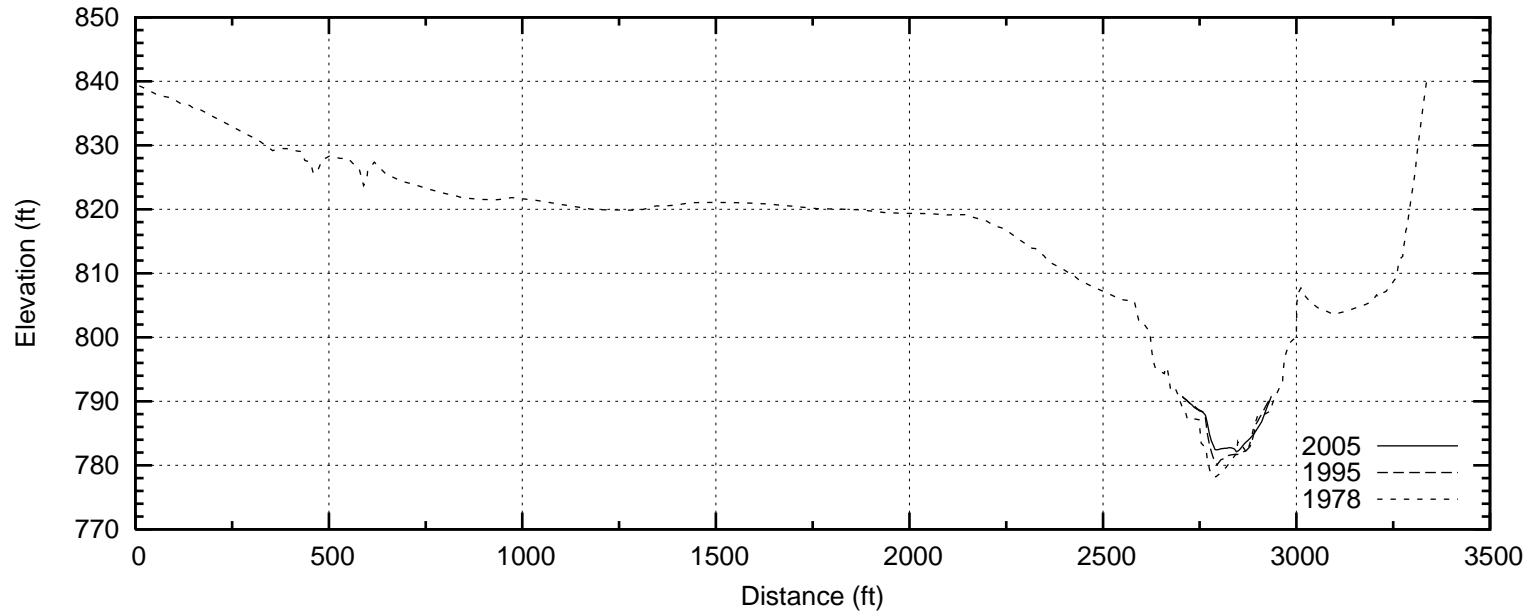


## Range Line SR09

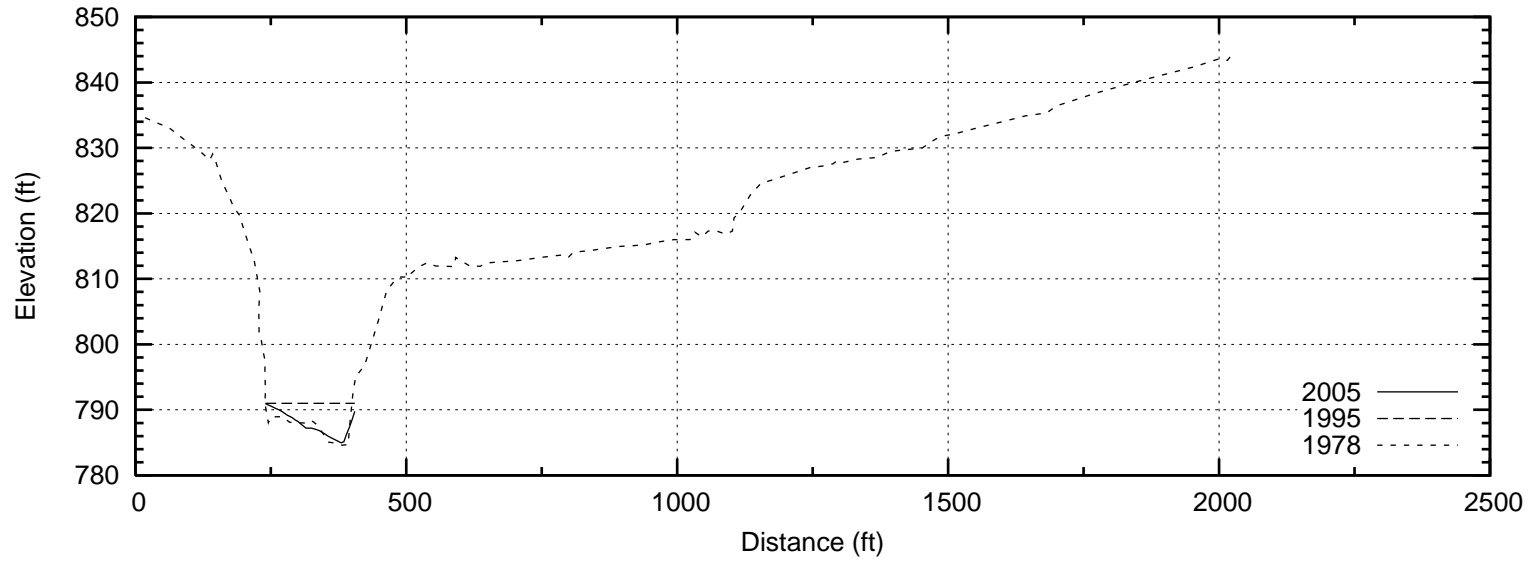


# Lake Georgetown

## Range Line SR10

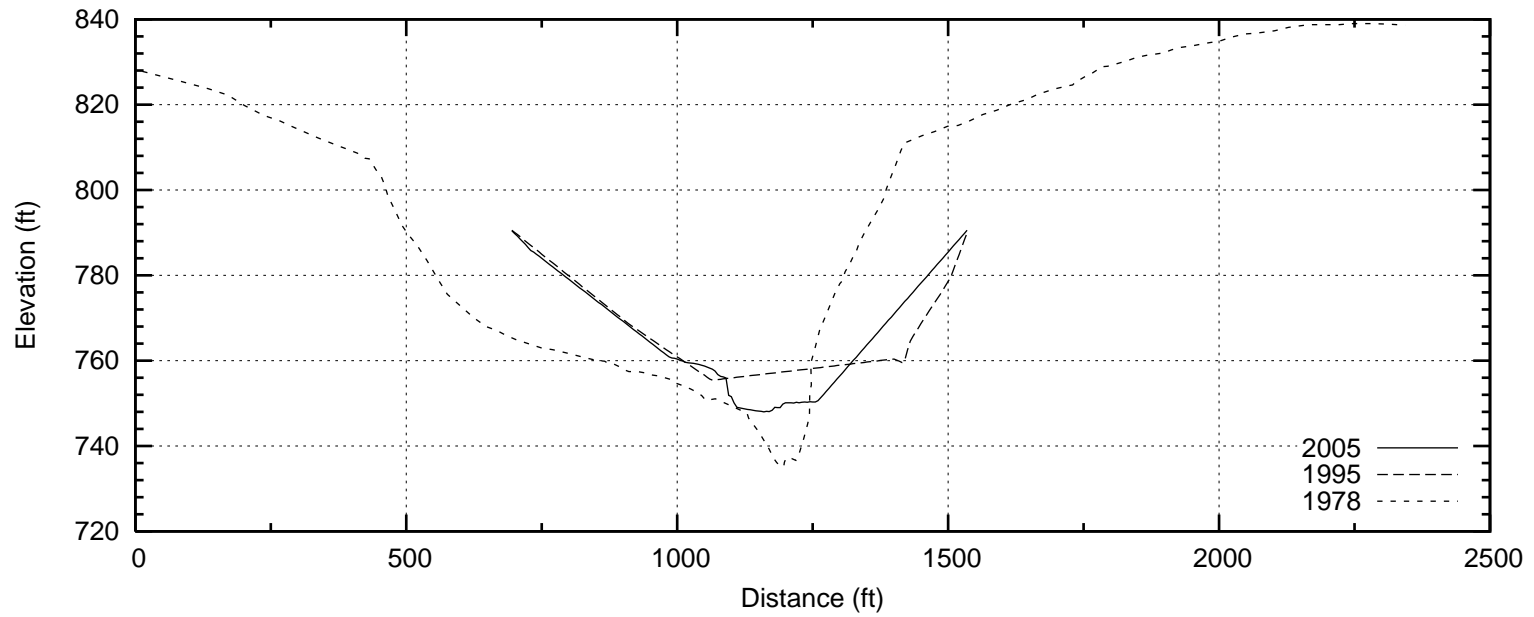


## Range Line SR11



# Lake Georgetown

## Range Line SR15



## Range Line SR16

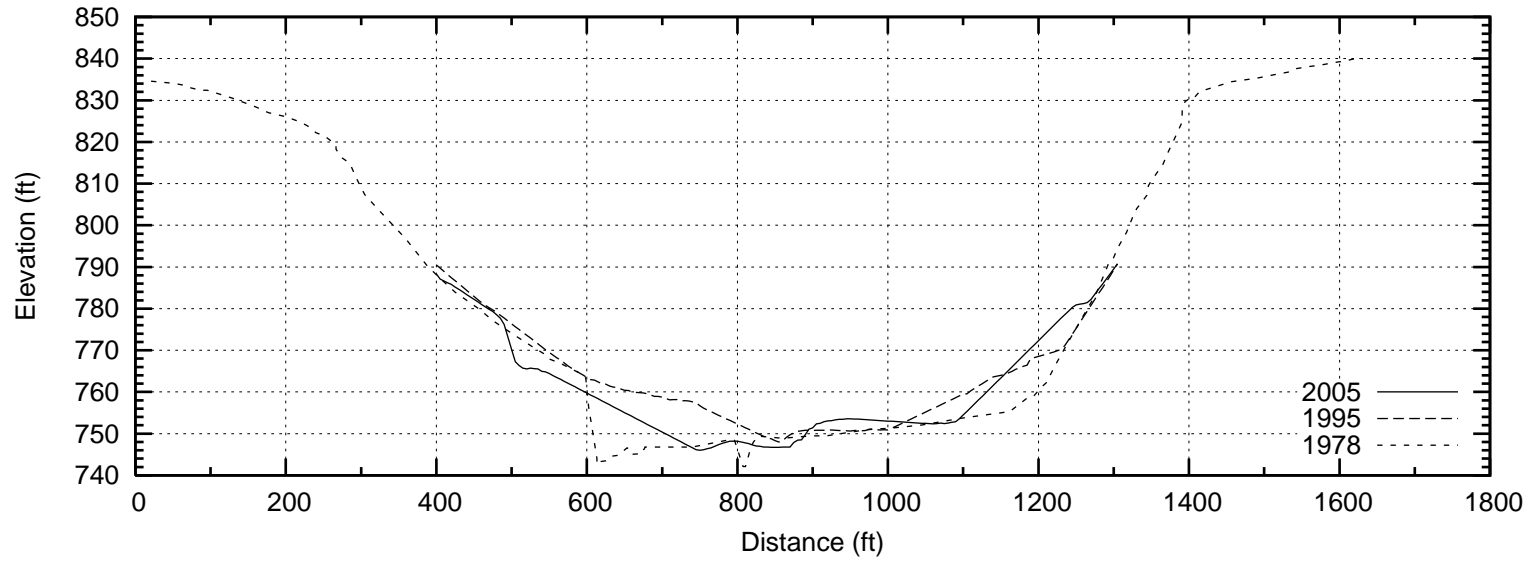


Figure 6

CONTOURS

710

715

720

725

730

735

740

745

750

755

760

765

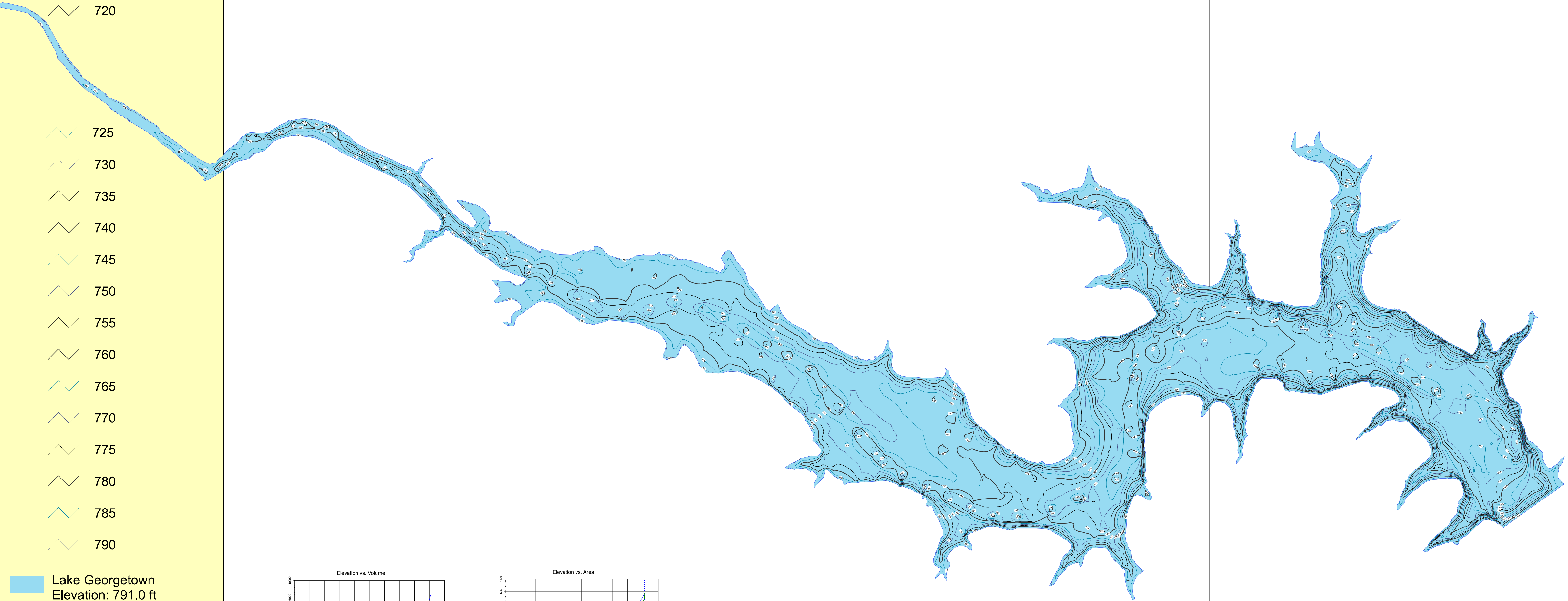
770

775

780

785

790



Lake Georgetown Elevation: 791.0 ft  
Williamson County

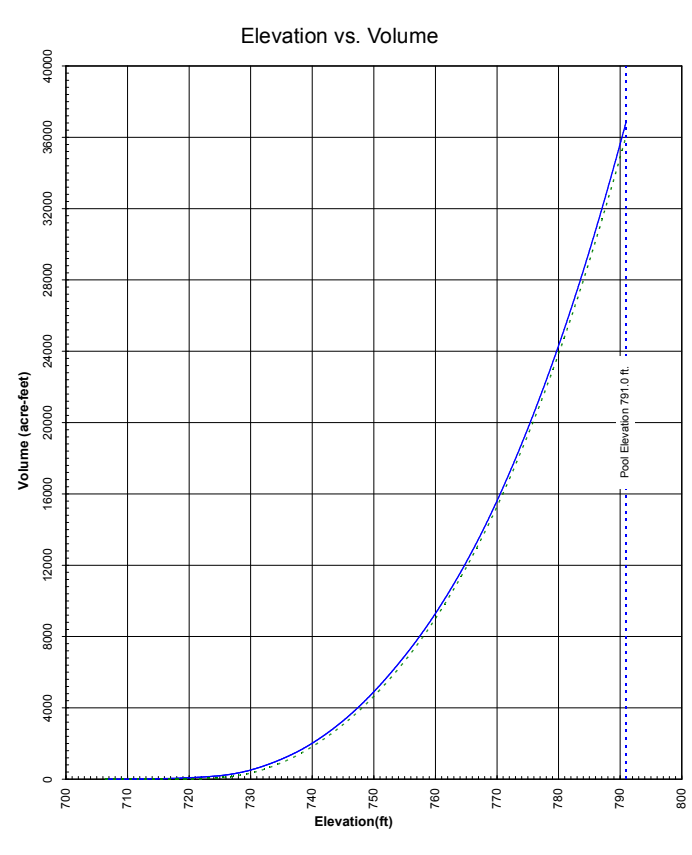
NAD83  
State Plane  
Texas Central Zone



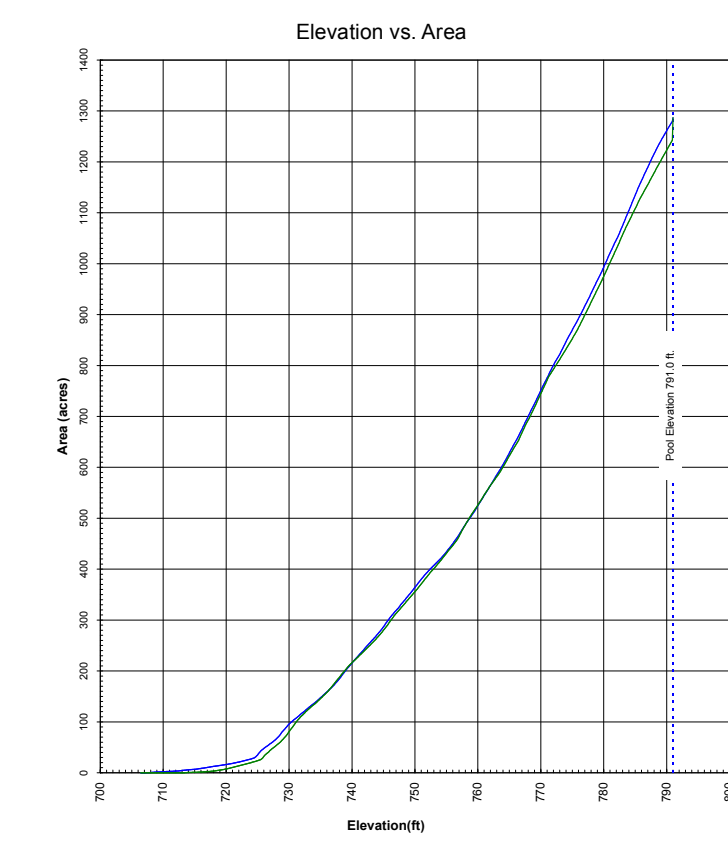
This map is the product of a survey conducted by the Texas Water Development Board's Hydrographic Survey Program to determine the capacity of Lake Georgetown. The Texas Water Development Board makes no representation or assumes any liability.

# LAKE GEORGETOWN

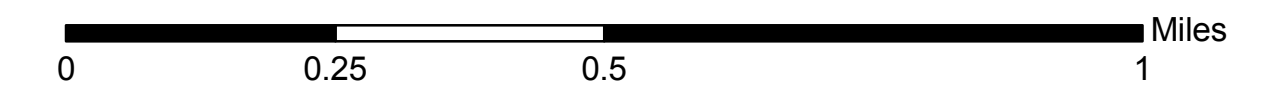
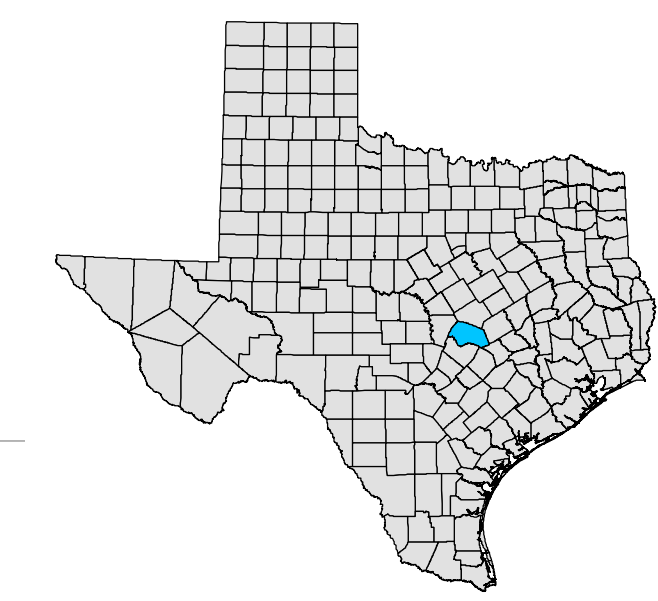
## 5' - Contour Map



Lake Georgetown May 2005 Presented by TWDB



Lake Georgetown May 2005 Presented by TWDB



Prepared by : TEXAS WATER DEVELOPMENT BOARD MAY 2005 SURVEY