Volumetric and Sedimentation Survey of LAKE HOUSTON

June 2018 Survey

Texas Water Development Board

May 2019

Texas Water Development Board

Prepared for:

Coastal Water Authority

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Executive summary

In January 2018, the Texas Water Development Board (TWDB) entered into an agreement with the Coastal Water Authority to perform a volumetric and sedimentation survey of Lake Houston (Harris County, Texas). Surveying was performed using a multi-frequency (208 kHz, 50 kHz, and 24 kHz), sub-bottom profiling depth sounder. Additional data was collected with a Trimble® R8-Model 4 Global Navigation Satellite System (GNSS) survey system to collect singular data points either from a shallow draft boat or by walking. The GNSS system is a Real Time Kinematic with differential GPS (RTK-GPS) system that utilizes a base station with multiple rovers to collect data. Sediment core samples were collected in select locations and correlated with the multi-frequency depth sounder signal returns to estimate sediment accumulation thicknesses and sedimentation rates.

Lake Houston Dam and Lake Houston are located on the San Jacinto River, approximately 18 miles northeast of downtown Houston, Texas. The normal/conservation pool elevation of Lake Houston is 42.38 feet (NAVD88), established from a 2018 Coastal Water Authority commissioned survey of the Lake Houston Dam's spillway. The TWDB collected bathymetric data for Lake Houston between March 19 and June 13, 2018, while daily average water surface elevations measured between 42.06 and 43.51 feet (NAVD88) at the U.S. Geological Survey gage *USGS 08072000 Lk Houston nr Sheldon, TX.*

The 2018 TWDB volumetric survey indicates Lake Houston has a total reservoir capacity of 136,119 acre-feet and encompasses 11,443 acres at normal/conservation pool elevation (42.38 feet NAVD88). Previous capacity estimates include the original design estimate of 158,553 acre-feet, a 1965 survey estimate of 146,769 acre-feet, and two TWDB surveys in 1994 and 2011. The 1994 and 2011 TWDB surveys were re-evaluated using current processing procedures resulting in updated capacity estimates of 144,812 acre-feet and 134,122 acre-feet, respectively.

The 2018 TWDB sedimentation survey indicates Lake Houston has lost capacity at an average of 384 acre-feet per year since impoundment due to sedimentation below normal/conservation pool elevation (42.38 feet NAVD88). **Long-term trends indicate that Lake Houston loses capacity at an average of 361 acre-feet per year since impoundment due to sedimentation below normal/conservation pool elevation (42.38 feet NAVD88).** To evaluate short-term influences of Hurricane Harvey and upstream dredging, the TWDB recommends that a hydrographic survey be performed on Lake Houston in 5 years.

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Note: References to brand names throughout this report do not imply endorsement by the Texas Water Development Board

Introduction

The Hydrographic Survey Program of the Texas Water Development Board (TWDB) was authorized by the 72nd Texas State Legislature in 1991. Texas Water Code Section 15.804 authorizes the TWDB to perform surveys to determine reservoir storage capacity, sedimentation levels, rates of sedimentation, and projected water supply availability.

In January 2018, the TWDB entered into an agreement with the Coastal Water Authority to perform a volumetric and sedimentation survey of Lake Houston (Texas Water Development Board, 2018). This report provides an overview of the survey methods, analysis techniques, and associated results. Also included are the following contract deliverables: (1) a shaded relief plot of the reservoir bottom (Figure 4), (2) a bottom contour map (Figure 6), (3) an estimate of sediment accumulation and location (Figure 10), and (4) an elevation-area-capacity table of the reservoir acceptable to the Texas Commission on Environmental Quality (Appendices I and J).

Lake Houston general information

Lake Houston Dam and Lake Houston are located on the San Jacinto River, approximately 18 miles northeast of downtown Houston, in Harris County, Texas (Figure 1). Lake Houston is owned and operated by the Coastal Water Authority. Construction of Lake Houston Dam began on January 21, 1952 (Texas Water Development Board, 1973). Deliberate impoundment began on April 9, 1954 (Ambursen Engineering Corporation, 1966), and Lake Houston Dam was completed on April 9, 1954 (Texas Water Development Board, 1998). Lake Houston is primarily a water supply reservoir for the City of Houston (Coastal Water Authority, 2018).

Water rights for Lake Houston have been appropriated to the City of Houston through Certificate of Adjudication No. 10-4965 and Amendment to Certificate of Adjudication No. 10-4965A. The City of Houston and San Jacinto River Authority have additional authority to divert and use water per water use permits 10-5807 and 10-5808. The complete certificates are on file in the Information Resources Division of the Texas Commission on Environmental Quality.

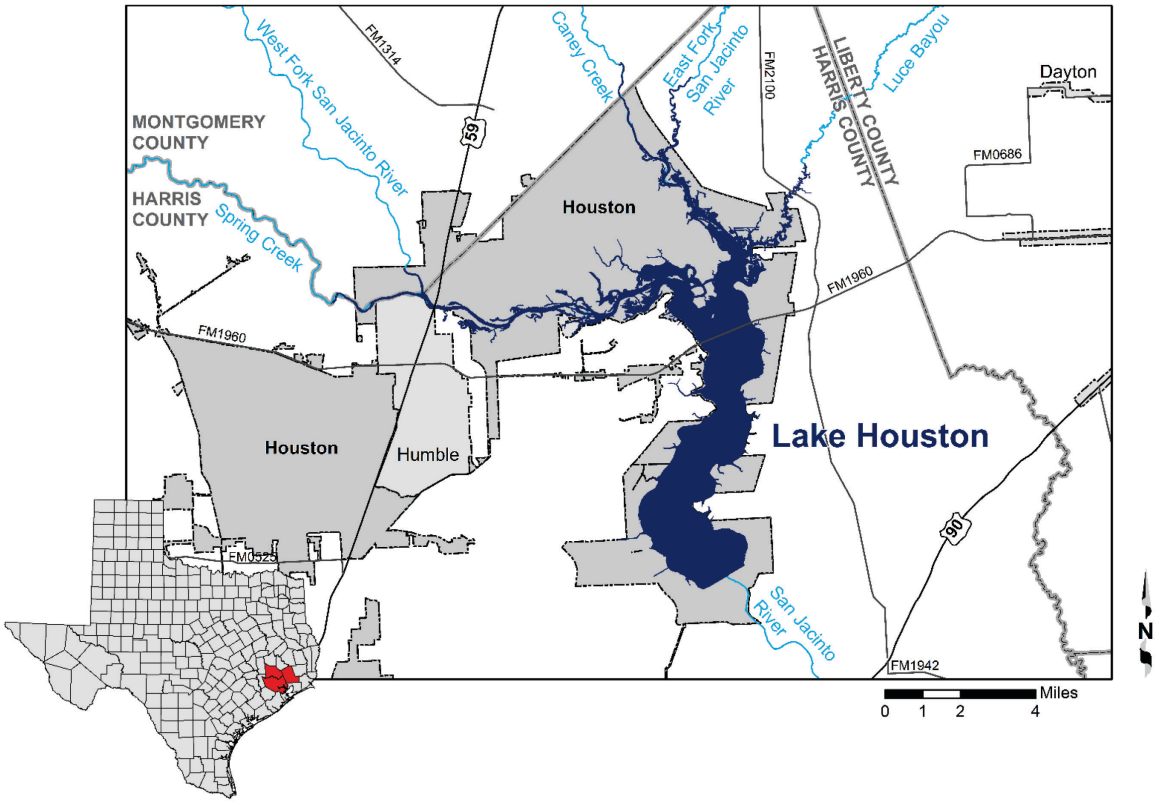


Figure 1. Location map of Lake Houston.

Results of previous surveys of Lake Houston have been reported in different vertical datums. At different times the conservation pool elevation of Lake Houston has been reported as 43.8 feet above mean sea level, 44.5 feet construction datum, or 41.73 feet NAVD88. Construction datum refers to the original datum of the U.S. Geological Survey gage and was reported to be 0.70 feet below the National Geodetic Vertical Datum 1929 (NGVD29) datum. Since October 1, 2009, water surface elevations measured by the U.S. Geological Survey gage are reported using the North American Vertical Datum 1988 (NAVD88). The current datum is 2.77 feet above the previous datum (construction datum) (U.S. Geological Survey, 2018). A survey of the Lake Houston Dam's spillway commissioned by the Coastal Water Authority in 2018 revealed the spillway is not level. The survey measured an average spillway elevation of 42.38 feet with a downdip at the west end of the uncontrolled spillway. The 2009 datum adjustment was likely a single survey measurement taken at this downdip resulting in the conservation pool elevation of 41.73 feet. However, the updated normal/conservation pool of 42.38 feet is more representative of the effective operating level of the spillway as seen in water surface elevation measurements from 2012 to 2018 (G. Olinger, written commun(s)., 2019).

Additional pertinent data about Lake Houston Dam and Lake Houston can be found in Table 1.

Table 1. Pertinent data for Lake Houston Dam and Lake Houston.

Owner	
City of Houston	
Design Engineer	
Ambursen Engineering Company (original)	
Brown & Root, Inc. (1970 erosion control)	
Location of dam	
On the San Jacinto River in Harris County, approximately 18 miles northeast of downtown Houston, Texas	
Drainage area	
2,828 square miles	
Dam	
Type	Earthfill and concrete spillway section
Length (total)	12,037 feet
Height (concrete)	45 feet
Height (earthfill)	65 feet
Top width	Varies
Spillway	
Type	Concrete slab and buttress
Length	3,160 feet
Location	Between the earthfill sections
Control for water release	2 flashboard gates, each 18 by 5 feet [a]
Top of flashboards	42.5 feet NAVD88 [a]
Top of crest and hinge pin	37.5 feet NAVD88 [a]
Location	East of the Tainter gates [a]
Control for water release	2 tainter gates, each 18 by 20.5 feet
Crest elevation of tainter gates	26.0feet NAVD88 [a]
Outlet works	
Water supply	2 conduits, each 6 feet diameter
Low-flow release	Sluice gate, 36-inch diameter (decommissioned in 2019) [a]

Reservoir data (Based on 2018 TWDB survey)

Feature	**Elevation (feet** NAVD88[b]**)**	**Capacity (acre-feet)**	**Area (acres)**
Top of dam	60.23	N/A	N/A
Top of conservation pool	42.38	136,119	11,443
Crest of tainter gates	26.0	16,053	3,225
Invert of 6-ft conduits	21.23	5,958	1,307
Invert of 3-ft sluice gate	19.23	3,801	848
Conservation storage capacity[c]	—	132,318	—

Source: (Texas Water Development Board, 1973)

[a] Source: (G. Olinger, written commun(s)., 2019)

[b] NAVD88 = North American Vertical Datum 1988

[c] Usable conservation storage equals total capacity at conservation pool elevation minus dead pool capacity. Dead pool refers to water that cannot be drained by gravity through a dam's outlet works.

Volumetric and sedimentation survey of Lake Houston

Datum

The vertical datum used during this survey is the North American Vertical Datum 1988 (NAVD88). This datum also is utilized by the United States Geological Survey (USGS) for the reservoir elevation gage *USGS 08072000 Lk Houston nr Sheldon, TX* (U.S. Geological Survey, 2018). Elevations herein are reported in feet relative to the NAVD88 datum. Volume and area calculations in this report are referenced to water levels provided by the USGS gage. The horizontal datum used for this report is North American Datum 1983 (NAD83), and the horizontal coordinate system is State Plane Texas South Central Zone (feet).

TWDB bathymetric and sedimentation data collection

The TWDB collected bathymetric data for Lake Houston between March 19 and June 13, 2018, while daily average water surface elevations measured between 42.06 and 43.51 feet (NAVD88). For data collection, the TWDB used a Specialty Devices, Inc. (SDI), single-beam, multi-frequency (208 kHz, 50 kHz, and 24 kHz) sub-bottom profiling depth sounder integrated with differential global positioning system (DGPS) equipment. Data was collected along pre-planned survey lines oriented perpendicular to the assumed location of the original river channels and spaced approximately 500 feet apart. Many of the same survey lines also were used by the TWDB for the *Volumetric and Sedimentation Survey of Lake Houston, December 2011 Survey* (Texas Water Development Board, 2013). The depth sounder was calibrated daily using a velocity profiler to measure the speed of sound in the water column and a weighted tape or stadia rod for depth reading verification.

Many areas of the West Fork San Jacinto River were too shallow for the depth sounder to work properly or too shallow to access by boat. For data collection in these areas, the TWDB used a Trimble® R8-Model 4 Global Navigation Satellite System (GNSS) survey system to collect singular data points either from a shallow draft boat or by walking. The GNSS system is a Real Time Kinematic with differential GPS (RTK-GPS) system that utilizes a base station with multiple rovers to collect data. Figure 2 shows the data collection locations for the 2018 TWDB survey.

All sounding data was collected and reviewed before sediment core sampling sites were selected. Sediment core samples were collected at regularly spaced intervals within

the reservoir or at locations where interpretation of the acoustic display would be difficult without site-specific sediment core data. After analyzing the sounding data, the TWDB selected ten locations to collect sediment core samples (Figure 2). The sediment core samples were collected on October 9-10, 2018, with a custom-coring boat and an SDI VibeCore system.

Sediment cores are collected in 3-inch diameter aluminum tubes. Analysis of the acoustic data collected during the bathymetric survey assists in determining the depth of penetration the tube must be driven during sediment sampling. A sediment core extends from the current reservoir-bottom surface, through the accumulated sediment, and into the pre-impoundment surface. After the sample is retrieved, the core tube is cut to the level of the sediment core. The tube is capped and transported to TWDB headquarters for further analysis.

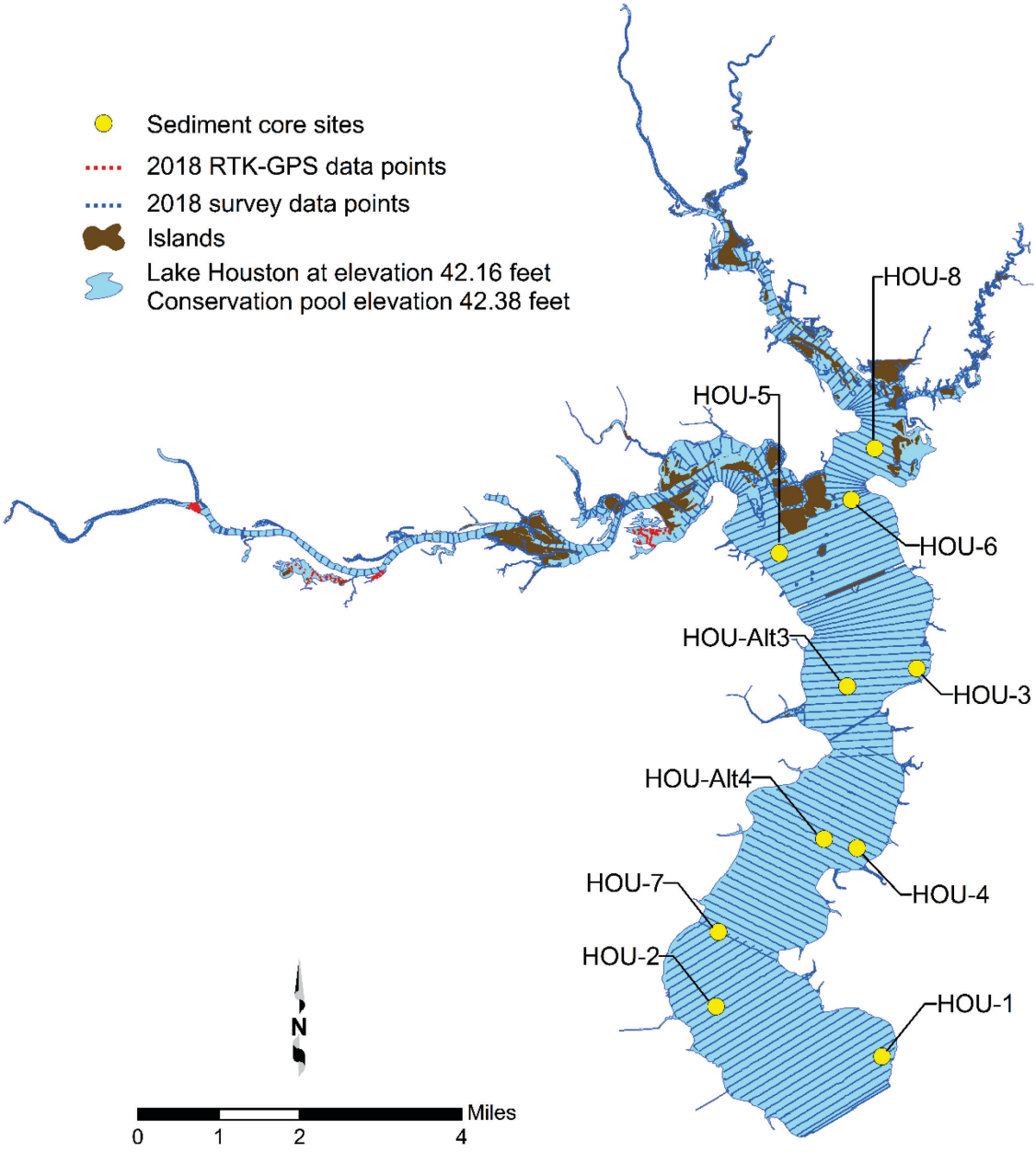


Figure 2. **2018 TWDB Lake Houston survey data (*blue dots*), 2018 RTK-GPS data (*red dots*), and sediment coring locations (*yellow circles*).**

Data processing

Model boundary

The reservoir's model boundary was digitized from aerial photographs, also known as digital orthophoto quarter-quadrangle images (DOQQs), obtained through the Texas Imagery Service. The Texas Natural Resources Information System manages the Texas Imagery Service allowing public organizations in the State of Texas to access Google Imagery as a service using Environmental Systems Research Institute's ArcGIS software (Texas Natural Resources Information System, 2018a). The quarter-quadrangles containing Lake Houston are Maedan (NE, SW, SE), Moonshine Hill (NW, NE, SW, SE), Huffman (NW, SW), Harmaston (NE, SE), and Crosby (NW, SW). The DOQQs were photographed on October 29, 2017, while the daily average water surface elevation measured 42.16 feet (NAVD88). The DOQQs have a resolution of 6 inches (Texas Natural Resources Information System, 2018b). The model boundary was digitized at the land-water interface in the 2017 photographs and assigned an elevation of 42.16 feet.

RTK-GPS post-processing

Data collected using the Trimble® GPS system was downloaded from each rover's data controller (by day) and post-processed using the Trimble® Business Center (Version 4.0) software. Post-processing entails confirming project settings (e.g. vertical and horizontal datum, horizontal coordinate system) and tying the base station coordinates to Continuously Operating Reference Stations (CORS) sites to improve the precision of the project data from each rover. CORS sites are maintained by the National Geodetic Survey (NGS), an office of the National Oceanographic and Atmospheric Administration's (NOAA) National Ocean Service (National Geodetic Survey, 2014).

Triangulated Irregular Network model

Following completion of data collection, the raw data files collected by the TWDB were edited to remove data anomalies. The reservoir's current bottom surface is automatically determined by the data acquisition software. DepthPic© software, developed by SDI, Inc., was used to display, interpret, and edit the multi-frequency data by manually removing data anomalies in the current bottom surface and manually digitizing the reservoir-bottom surface at the time of initial impoundment (*i.e.* pre-impoundment surface). For further analysis, HydroTools, software developed by TWDB

staff, was used to merge all the data into a single file including the current reservoir-bottom surface, pre-impoundment surface, and sediment thickness at each sounding location. The water surface elevation at the time of each sounding was used to convert each sounding depth to a corresponding reservoir-bottom elevation. This survey point dataset was then preconditioned by inserting a uniform grid of artificial survey points between the actual survey lines. Bathymetric elevations at these artificial points were determined using an anisotropic spatial interpolation algorithm described in the next section. This technique creates a high resolution, uniform grid of interpolated bathymetric elevation points throughout a majority of the reservoir (McEwen and others, 2011a). Finally, the point file resulting from spatial interpolation is used in conjunction with sounding and boundary data to create volumetric and sediment Triangulated Irregular Network (TIN) models utilizing the 3D Analyst Extension of ArcGIS. The 3D Analyst algorithm uses Delaunay's criteria for triangulation to create a grid composed of triangles from non-uniformly spaced points, including the boundary vertices (Environmental Systems Research Institute, 1995).

Spatial interpolation of reservoir bathymetry

Isotropic spatial interpolation techniques such as the Delaunay triangulation used by the 3D Analyst extension of ArcGIS are, in many instances, unable to suitably interpolate bathymetry between survey lines common to reservoir surveys. Reservoirs and stream channels are anisotropic morphological features where bathymetry at any particular location is more similar to upstream and downstream locations than to transverse locations. Interpolation schemes that do not consider this anisotropy lead to the creation of several types of artifacts in the final representation of the reservoir bottom surface and hence to errors in volume. These include artificially-curved contour lines extending into the reservoir where the reservoir walls are steep or the reservoir is relatively narrow, intermittent representation of submerged stream channel connectivity, and oscillations of contour lines in between survey lines. These artifacts reduce the accuracy of the resulting volumetric and sediment TIN models in areas between actual survey data.

To improve the accuracy of bathymetric representation between survey lines, the TWDB developed various anisotropic spatial interpolation techniques. Generally, the directionality of interpolation at different locations of a reservoir can be determined from

external data sources. A basic assumption is that the reservoir profile in the vicinity of a particular location has upstream and downstream similarity. In addition, the sinuosity and directionality of submerged stream channels can be determined by directly examining the survey data, or more robustly by examining scanned USGS 7.5-minute quadrangle maps (known as digital raster graphics), hypsography files (the vector format of USGS 7.5-minute quadrangle map contours), and historical aerial photographs, when available. Using the survey data, polygons are created to partition the reservoir into segments with centerlines defining directionality of interpolation within each segment. For surveys with similar spatial coverage, these interpolation definition files are, in principle, independent of the survey data and could be applied to past and future survey data of the same reservoir. In practice, minor revisions of the interpolation definition files may be needed to account for differences in spatial coverage and boundary conditions between surveys. Using the interpolation definition files and survey data, the current reservoir-bottom elevation, pre-impoundment elevation, and sediment thickness are calculated for each point in the high-resolution uniform grid of artificial survey points. The reservoir boundary, artificial survey points grid, and survey data points are used to create volumetric and sediment TIN models representing reservoir bathymetry and sediment accumulation throughout the reservoir. Specific details of this interpolation technique can be found in the HydroTools manual (McEwen and others, 2011a) and in McEwen and others (2011b).

In areas inaccessible to survey data collection, such as small coves and shallow upstream areas of the reservoir, linear interpolation is used for volumetric and sediment accumulation estimations. Linear interpolation follows a line linking the survey points file to the lake boundary file (McEwen and others, 2011a). Without linearly interpolated data, the TIN model builds flat triangles. A flat triangle is defined as a triangle where all three vertices are equal in elevation, generally the elevations of the reservoir boundary and contours. Reducing flat triangles by applying linear interpolation improves the elevation-capacity and elevation-area calculations, although it is not always possible to remove all flat triangles.

Figure 3 illustrates typical results from application of the anisotropic interpolation and linear interpolation techniques to Lake Houston. In Figure 3A, deeper channels and steep slopes indicated by surveyed cross-sections are not continuously represented in areas between survey cross-sections. This is an artifact of the TIN generation routine rather than

an accurate representation of the physical bathymetric surface. Inclusion of interpolation points in creation of the volumetric TIN model, represented in Figure 3B, directs Delaunay triangulation to better represent the reservoir bathymetry between survey cross-sections. The bathymetry shown in Figure 3C was used in computing reservoir elevation-capacity (Appendix I) and elevation-area (Appendix J) tables.

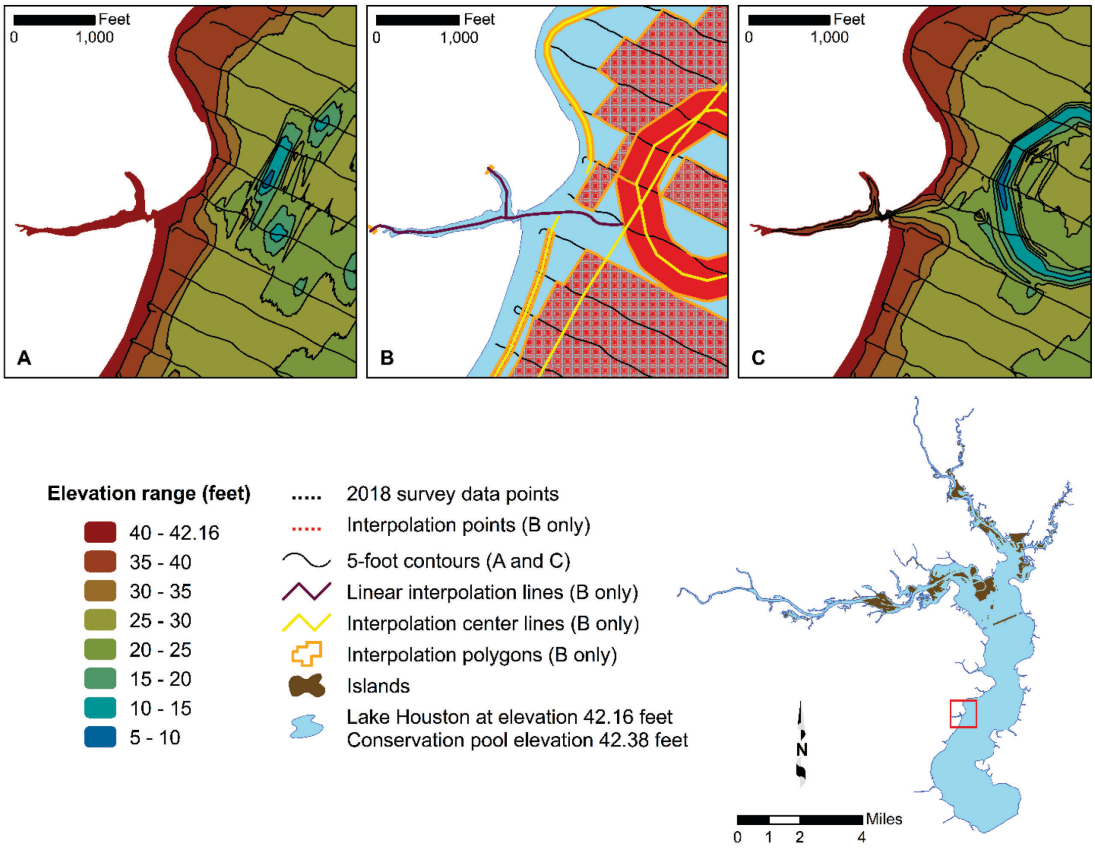


Figure 3. Anisotropic spatial interpolation and linear interpolation of Lake Houston sounding data; A) bathymetric contours without interpolated points, B) sounding points (*black*) and interpolated points (*red*), C) bathymetric contours with interpolated points.

To properly compare results from previous TWDB surveys of Lake Houston, the TWDB applied anisotropic spatial interpolation to the survey data collected in 1994 using the same interpolation definition file used for the 2011 survey, with minor edits to account for differences in data coverage and boundary conditions.

The original 1994 survey boundary was digitized from the 44.5-foot (construction datum) contour from 7.5-minute USGS quadrangle maps: Harmaston, Texas, 1982; Crosby, Texas, 1982; Moonshine Hill, Texas, 1961 (Photo-revised 1980); Huffman, Texas, 1960 (Photo-revised 1980); and Maedan, Texas, 1982, with a stated accuracy of ± ½ the contour interval (U.S. Bureau of the Budget, 1947). Additionally, survey data points

with anomalous elevations were removed from the new model. While linear interpolation was used to estimate the topography in areas without data, flat triangles led to anomalous area and volume calculations at the boundary elevation of 44.5 feet. Therefore, areas between 43.0 feet and 44.5 feet were linearly interpolated between the computed values, and volumes above 43.0 feet were calculated based on the corrected areas for the 1994 survey. (Texas Water Development Board, 2016). On October 1, 2009, the USGS converted the reservoir elevation gage *USGS 08072000 Lk Houston nr Sheldon, TX* to the NAVD88 datum from the historically used construction datum, resulting in an elevation change of -2.77 feet (U.S. Geological Survey, 2018). The 1994 re-calculated elevation-capacity table and elevation-area table are presented in Appendices A and B, respectively. The re-calculated capacity curve is presented in Appendix C, and the re-calculated area curve is presented in Appendix D. For comparative purposes, elevations in Appendices A-D have been converted to the NAVD88 datum with elevation 44.5 feet equivalent to elevation 41.73 feet. Therefore, areas above elevation 41.73 feet, up to elevation 42.38 feet, were linearly extrapolated and capacities were calculated from the extrapolated areas.

Anisotropic spatial interpolation was applied during the original analysis of the 2011 survey (Texas Water Development Board, 2013), however, the use of linear interpolation was limited. This led to flat triangles which led to anomalous area and volume calculations at the boundary elevation of 42.31 feet. At the time there was not enough evidence to support linear interpolation of the area curve. For the 2011 survey, linear interpolation potentially overestimates the capacity in the shallow areas that were not surveyed. Comparison of the 2011 area curve with the re-evaluated 1994 area curve suggested re-calculation by linear interpolation may be reasonable. Therefore, areas between 37.0 feet and 42.31 feet (NAVD88) were linearly interpolated between the computed values, and volumes above 37.0 feet were calculated based on the corrected areas for the 2011 survey (Texas Water Development Board, 2016). Comparison of the 2011 area curve with the 2018 area curve also supports linear interpolation of the 2011 area curve. The 2011 re-calculated elevation-capacity table and elevation-area table are presented in Appendices E and F, respectively. The re-calculated capacity curve is presented in Appendix G, and the re-calculated area curve is presented in Appendix H. Areas above elevation 42.31 feet, up to elevation 42.38 feet, were linearly extrapolated and capacities were calculated from the extrapolated areas.

Area, volume, and contour calculation

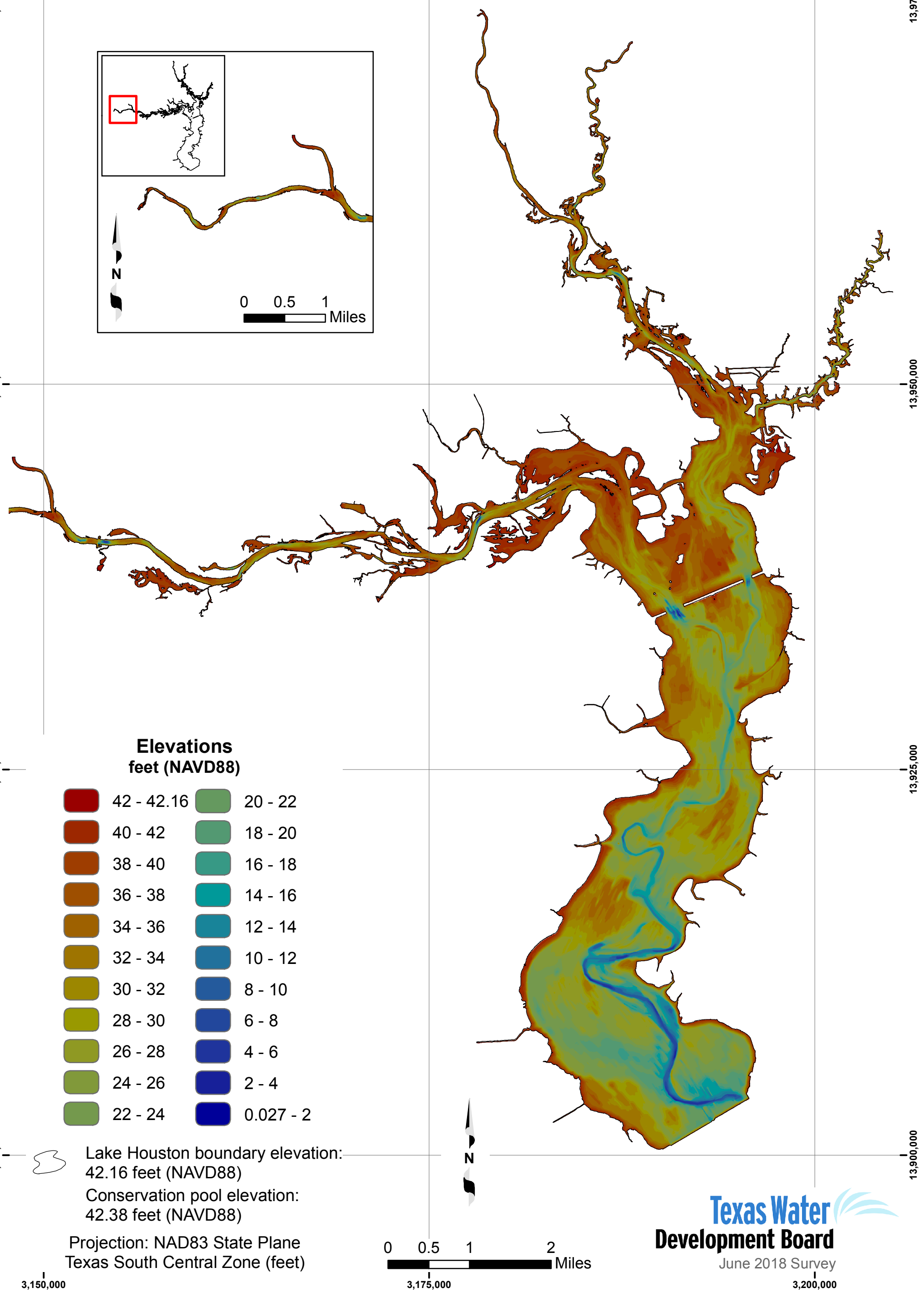
Using ArcInfo software and the volumetric TIN model, volumes and areas were computed for the entire reservoir at 0.01-foot intervals, from -0.54 to 42.16 feet. While linear interpolation was used to estimate topography in areas that were inaccessible by boat or too shallow for survey instruments to work properly, development of some flat triangles (triangles whose vertices all have the same elevation) in the TIN model are unavoidable. The flat triangles in turn lead to anomalous calculations of surface area and volume at the boundary elevation 42.16 feet. To eliminate the effects of the flat triangles on area and volume calculations, areas between elevations 41.0 and 42.16 feet were linearly interpolated between the computed values, and volumes above elevation 41.0 feet were calculated based on the corrected areas. Areas above elevation 42.16 feet, up to elevation 42.38 feet, were linearly extrapolated and capacities were calculated from the extrapolated areas. The elevation-capacity table and elevation-area table, based on the 2018 survey and analysis, are presented in Appendices I and J, respectively. The capacity curve is presented in Appendix K, and the area curve is presented in Appendix L.

The volumetric TIN model was converted to a raster representation using a cell size of 2 feet by 2 feet. The raster data then was used to produce three figures: (1) an elevation relief map representing the topography of the reservoir bottom (Figure 4); (2) a depth range map showing shaded depth ranges for Lake Houston (Figure 5); and, (3) a 5-foot contour map (Figure 6).

Figure 4

Lake Houston

Elevation relief map



Elevations
feet (NAVD88)

42 - 42.16	20 - 22
40 - 42	18 - 20
38 - 40	16 - 18
36 - 38	14 - 16
34 - 36	12 - 14
32 - 34	10 - 12
30 - 32	8 - 10
28 - 30	6 - 8
26 - 28	4 - 6
24 - 26	2 - 4
22 - 24	0.027 - 2

Lake Houston boundary elevation:
42.16 feet (NAVD88)

Conservation pool elevation:
42.38 feet (NAVD88)

Projection: NAD83 State Plane
Texas South Central Zone (feet)

N

0 0.5 1 2
Miles

Texas Water Development Board

June 2018 Survey

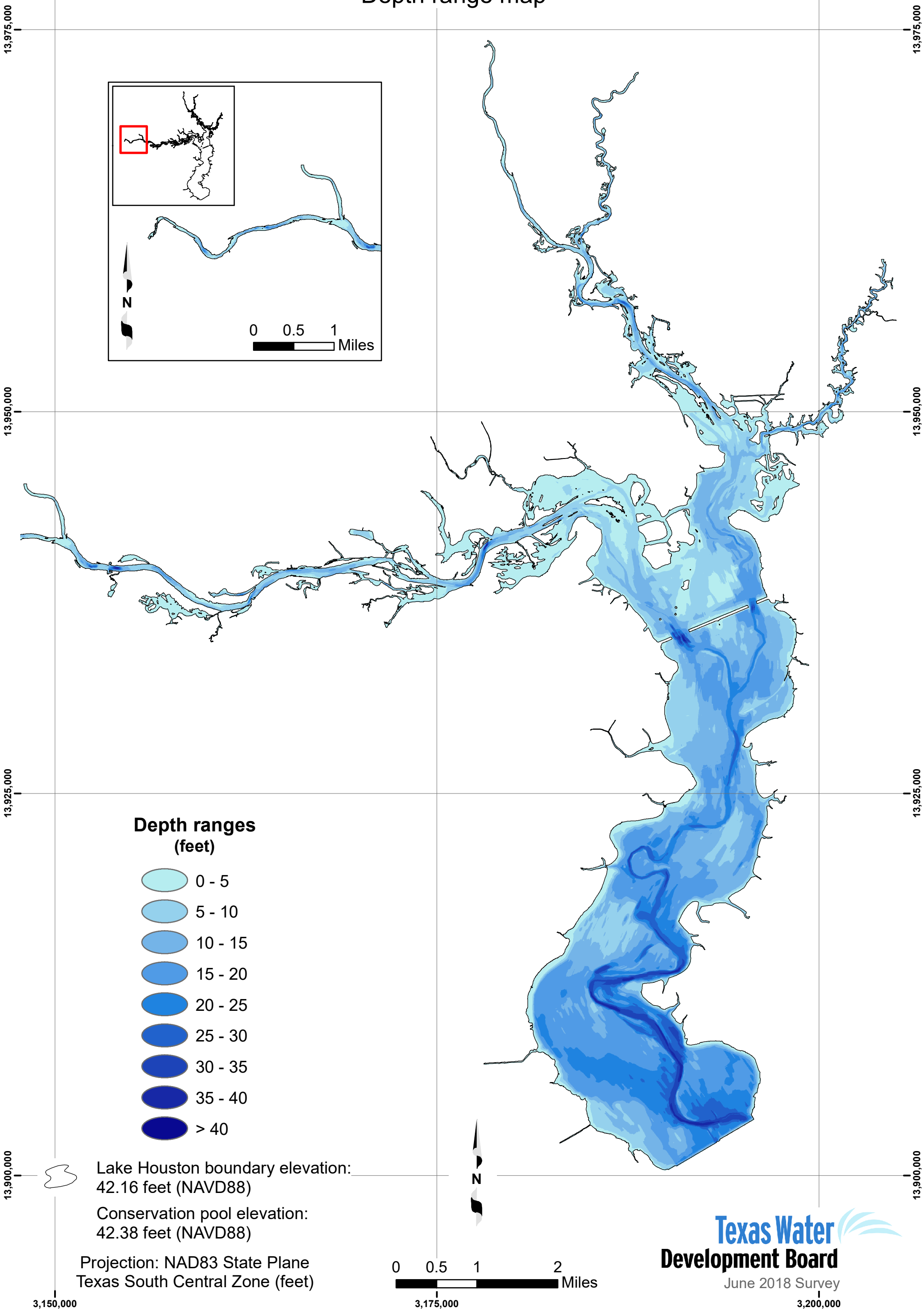
3,150,000 | 3,175,000 | 3,200,000

13,975,000 | 13,950,000 | 13,925,000 | 13,900,000

Figure 5

Lake Houston

Depth range map



Analysis of sediment data from Lake Houston

Sedimentation in Lake Houston was determined by analyzing the acoustic signal returns of all three depth sounder frequencies in the DepthPic© software. While the 208 kHz signal is used to determine the current bathymetric surface, the 208 kHz, 50 kHz, and 24 kHz, are analyzed to determine the reservoir bathymetric surface at the time of initial impoundment, *i.e.*, pre-impoundment surface. Sediment core samples collected in the reservoir are correlated with the acoustic signals in each frequency to assist in identifying the pre-impoundment surface. The difference between the current surface bathymetry and the pre-impoundment surface bathymetry yields a sediment thickness value at each sounding location.

Sediment cores were analyzed at TWDB headquarters in Austin. Each core was split longitudinally and analyzed to identify the location of the pre-impoundment surface. The pre-impoundment surface was identified within the sediment core using the following methods: (1) a visual examination of the sediment core for terrestrial materials, such as leaf litter, tree bark, twigs, intact roots, *etc.*, concentrations of which tend to occur on or just below the pre-impoundment surface; (2) recording changes in texture from well sorted, relatively fine-grained sediment to poorly sorted mixtures of coarse and fine-grained materials; and, (3) identifying variations in the physical properties of the sediment, particularly sediment water content and penetration resistance with depth (Van Metre and others, 2004). Total sediment core length, post impoundment sediment thickness, and pre-impoundment thickness were recorded. Physical characteristics of the sediment core, such as Munsell soil color, texture, relative water content, and presence of organic materials were recorded (Table 2).

Table 2. Sediment core sample analysis data for Lake Houston.

Sediment core sample	Easting[a] (feet)	Northing[a] (feet)	Total core sample/ post-impoundment sediment	Sediment core description		Munsell soil color
HOU-1	3195186.45	13905626.06	115.5”/66.0”	post-impoundment	0.0–39.0” pudding like, high water content, smooth texture, organic material present	2.5Y 3/1 very dark gray
					39.0–43.0” high water content, predominantly sand/silt mixture, organic material present (woody debris)	2.5Y 4/1 dark gray
					43.0–48.0” high water content, smooth/uniform texture and consistency throughout	2.5Y 4/1 dark gray
					48.0–66.0” moderate water content, compacted sand, uniform color and consistency, organic material present	2.5Y 5/2 grayish brown
				pre-impoundment	66.0–90.0” low water content, predominantly sand with clay mixture, malleable, gritty and sticky, uniform color and consistency throughout	2.5Y 5/2 grayish brown
					90.0–104.0” very low water content, malleable (similar to playdough), predominantly clay with sand mixture	2.5Y 5/2 grayish brown
					104.0–115.5” minimal/no water content, clay, high density material	10Y/R 4/4 dark yellowish brown
HOU-2	3184366.27	13908888.63	88.5”/38.0”	post-impoundment	0.0–38.0” high silt, high water content, pudding like, uniform consistency and color throughout, limited organic material present	2.5Y 4/2 dark grayish brown
				pre-impoundment	38.0–74.0” moderate water content, uniform consistency (peanut butter), higher sand to clay ratio	2.5Y 4/1 dark gray
					74.0–88.5” minimal water content, malleable (retains shape), high occurrence of organic material (roots throughout layer), high clay content	2.5Y 5/3 light olive brown
HOU-3	3197459.03	13930929.34	35.0”/32.0”	post-impoundment	0–2.0” high water content, silt, smooth texture	2.5Y 4/2 dark grayish brown
					2.0–32.0” moderate water content, sand consistency at the top of the layer transitioning to pudding like, uniform color	2.5Y 3/2 very dark grayish brown
				pre-impoundment	32.0–35.0” very low water content, malleable consistency, organic material present at the top of the layer	2.5Y 2.5/1 black

[a] Coordinates are based on NAD83 State Plane Texas South Central System (feet)

Table 2. Sediment core sample analysis data for Lake Houston (continued).

Sediment core sample	Easting[a] (feet)	Northing[a] (feet)	Total core sample/ post-impoundment sediment	Sediment core description		Munsell soil color
HOU-Alt3	3192920.15	13929758.87	22.0”/14.0”	post-impoundment	0–14.0” High water content, silty, pudding like consistency, uniform color throughout	2.5Y 4/2 dark grayish brown
				pre-impoundment	14.0–22.0” minimal water content, organic material (small sticks, leaves) present, gritty/sandy texture, malleable consistency	2.5Y 3/1 very dark gray
HOU-4	3193562.62	13919217.24	97.25”/33.0”	post-impoundment	0.0–18.0” smooth uniform consistency and color, high moisture content, pudding like	2.5Y 4/2 dark grayish brown
					18.0–21.0” texture change (more sand present), small/fine rocks, high water content	2.5Y 4/2 dark grayish brown
					21.0–33.0” smooth, pudding like, uniform color and consistency throughout, high water content, similar in color and texture as layer 1	2.5Y 3/2 very dark grayish brown
				pre-impoundment	33.0–38.0” moderate water content, sticky, mixture of silt/sand, gritty, small amounts of organic material present (bits of shell), uniform consistency	2.5Y 4/1 dark gray
					38.0–97.25” compacted sand, organic material present (roots, crushed rock mixed throughout), low water content	2.5Y 5/2 grayish brown
HOU-Alt4	3191408.16	13919811.17	55.0”/N/A	post-impoundment	0.0–2.0” silty, smooth consistency, high water content	2.5Y 5/2 grayish brown
					2.0–55.0” sand, uniform consistency, low moisture content, no color change	2.5Y 5/2 grayish brown
HOU-5	3188488.98	13938444.74	40.25”/36.0”	post-impoundment	0.0–3.0” high water content, silt, smooth, pudding like consistency	2.5Y 4/2 dark grayish brown
					3.0–13.0” compacted sand, minimal to no water content	2Y 5/2 grayish brown
					13.0–36.0” smooth, moderate water content, high silt to clay ratio moving down through the layer	2.5Y 4/1 dark gray
				pre-impoundment	36.0–40.25” low water content, malleable (retains shape), predominately clay, organic material present (small woody debris/twigs), smooth consistency	2.5Y 4/1 dark gray

[a] Coordinates are based on NAD83 State Plane Texas South Central System (feet)

Table 2. Sediment core sample analysis data for Lake Houston (continued).

Sediment core sample	Easting[a] (feet)	Northing[a] (feet)	Total core sample/ post-impoundment sediment	Sediment core description		Munsell soil color
HOU-6	3193188.50	13941936.32	42.0”/32.0”	post-impoundment	0.0–2.0” high water content, smooth, silt, light/fluffy consistency	N/A
					2.0–16.0” less water content, smooth, pudding like consistency, gritty and more dense at transition/bottom of layer	2.5Y 4/2 dark grayish brown
					16.0–32.0” moderate water content, clay/silt mixture, smooth consistency, malleable	2.5Y 4/2 dark grayish brown
				pre-impoundment	32.0–42.0” organic material present (roots, woody debris, leaves), less water content, clay/silt mixture, smooth consistency, no sand	2.5Y 4/2 dark grayish brown
HOU-7	3184518.22	13913751.33	54.25”/11.0”	post-impoundment	0.0–2.0” high water content, grainy, pudding like consistency, silt	2.5Y 4/2 dark grayish brown
					2.0–11.0” low water content, compacted sand, organic material present (detritus)	2.5Y 3/2 very dark grayish brown
				pre-impoundment	11.0–50.0” minimal water content (feels dry), compacted sand, organic material present (woody debris[bark/twigs])	2.5Y 5/3 light olive brown
					50.0–54.25” predominantly mottled/marbled clay with sand mixture, malleable consistency, no organic material present	2.5YR 3/4 dark reddish brown and 2.5Y 5/2 grayish brown
HOU-8	3194714.36	13945284.50	36.75”/34.0”	post-impoundment	0.0–2.0” high water content, smooth/gritty consistency, sand present	2.5Y 4/2 dark grayish brown
					2.0–6.0” moderate water content, predominantly sand, uniform color, compacted	2.5Y 4/1 dark gray
					6.0–21.0” sticky/smooth consistency, moderate water content, higher clay content than layer above, malleable;	2.5Y 4/1 dark gray
					21.0–34.0” less water than above, smooth, high clay consistency, very minimal sand, sticky	2.5Y 4/2 dark grayish brown
				pre-impoundment	34.0–36.75” decreased water content from above, clay mixture throughout, organic matter present, large piece of wood plugging core tube	2.5Y 4/2 dark grayish brown

[a] Coordinates are based on NAD83 State Plane Texas South Central System (feet)

A photograph of sediment core HOU-5 (for location, refer to Figure 2) is shown in Figure 7 and is representative of sediment cores sampled from Lake Houston. The base of the sample is denoted by the blue line. The pre-impoundment boundary (right most yellow line) was evident within this sediment core sample at 36.0 inches and identified by the change in color, texture, moisture, porosity, and structure. Identification of the pre-impoundment surface for the other nine sediment cores followed a similar procedure.

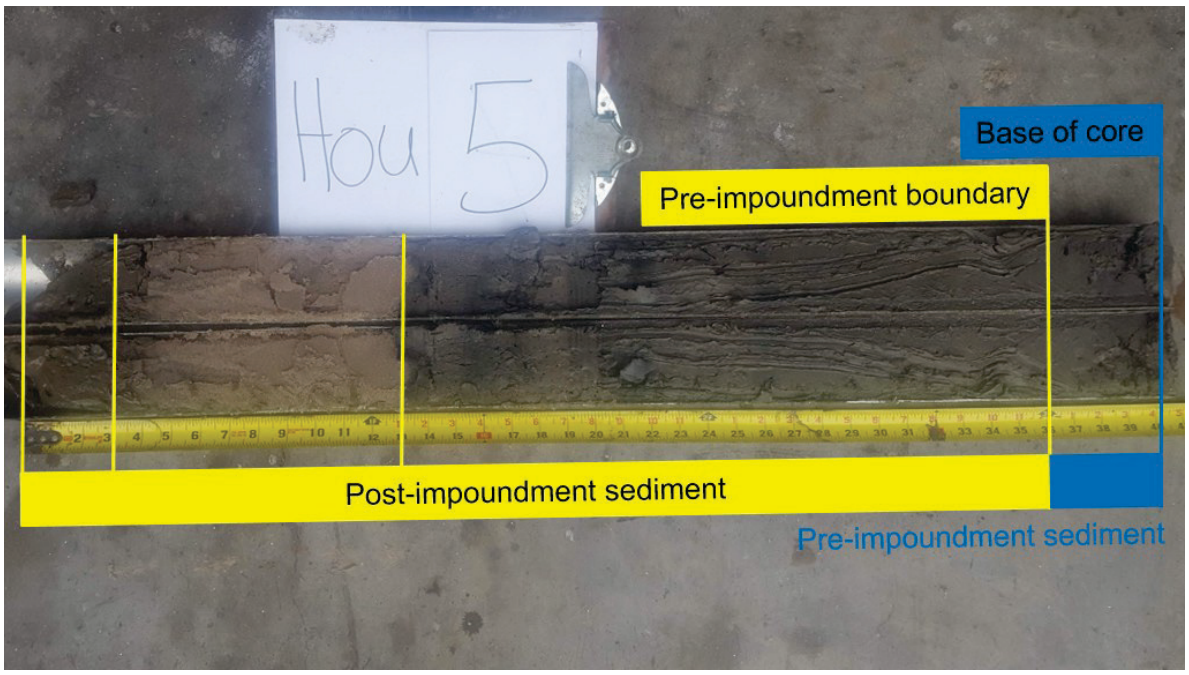


Figure 7. Sediment core HOU-5 from Lake Houston. Post-impoundment sediment layers occur in the top 36.0 inches of this sediment core (identified by the yellow box). Pre-impoundment sediment layers were identified and are defined by the blue box.

Figures 8 and 9 illustrate how measurements from sediment core samples are used with sonar data to help identify the post- and pre-impoundment layers in the acoustic signal. Figure 8 compares sediment core sample HOU-5 with the acoustic signals for each frequency combined (8A, 8A'), and the individual frequencies: 208 kHz (8B, 8B'), 50 kHz (8C, 8C'), and 24 kHz (8D, 8D'). Within DepthPic©, the current bathymetric surface is automatically determined based on signal returns from the 208 kHz transducer as represented by the top black line in Figure 8A' and red line in Figures 8B', 8C', and 8D'. The pre-impoundment surface is identified by comparing boundaries observed in the 208 kHz, 50 kHz, and 24 kHz signals to the location of the pre-impoundment surface as determined by the sediment core sample analysis. Many layers of sediment may be identified during core analysis based on changes in observed characteristics, such as water

content, organic matter content, and sediment particle size, and each layer is classified as either post-impoundment or pre-impoundment. Each layer of sediment identified in the sediment core sample during analysis (Table 2) is represented in Figures 8 and 9 by a yellow or blue box. A yellow box represents post-impoundment sediments. A blue box indicates pre-impoundment sediments.

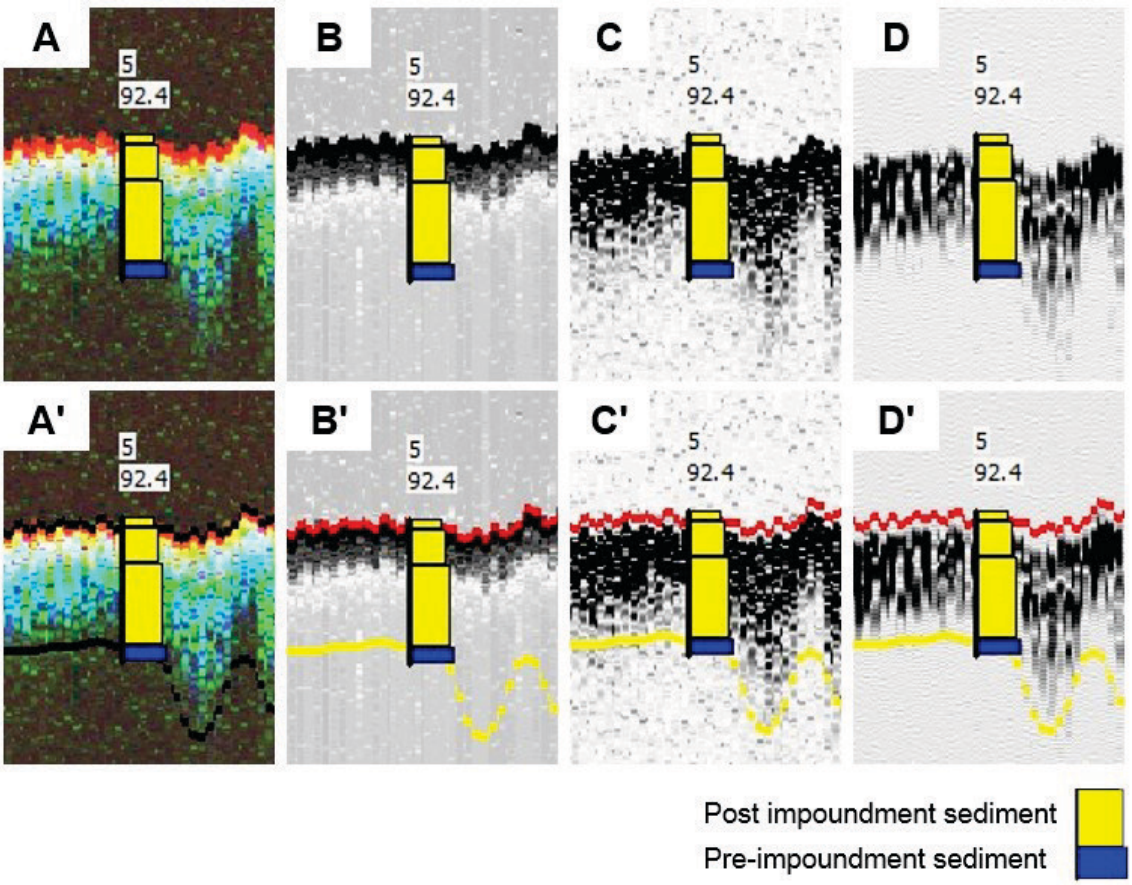


Figure 8. Comparison of sediment core HOU-5 with acoustic signal returns A, A') combined acoustic signal returns, B, B') 208 kHz frequency, C, C') 50 kHz frequency, and D, D') 24 kHz frequency.

In this case, the pre-impoundment boundary as identified from the pre-impoundment interface of the sediment core sample was most visible in the 50 kHz acoustic signal returns; therefore, the 50 kHz acoustic signal returns were used to locate the pre-impoundment surface (yellow line in Figure 8). Figure 9 shows sediment core sample HOU-5 correlated with the 50 kHz acoustic signal returns of the nearest surveyed cross-section. The pre-impoundment surface was first identified along cross-sections for which sediment core samples have been collected. This information was then used as a

guide for identifying the pre-impoundment surface along cross-sections where sediment core samples were not collected.

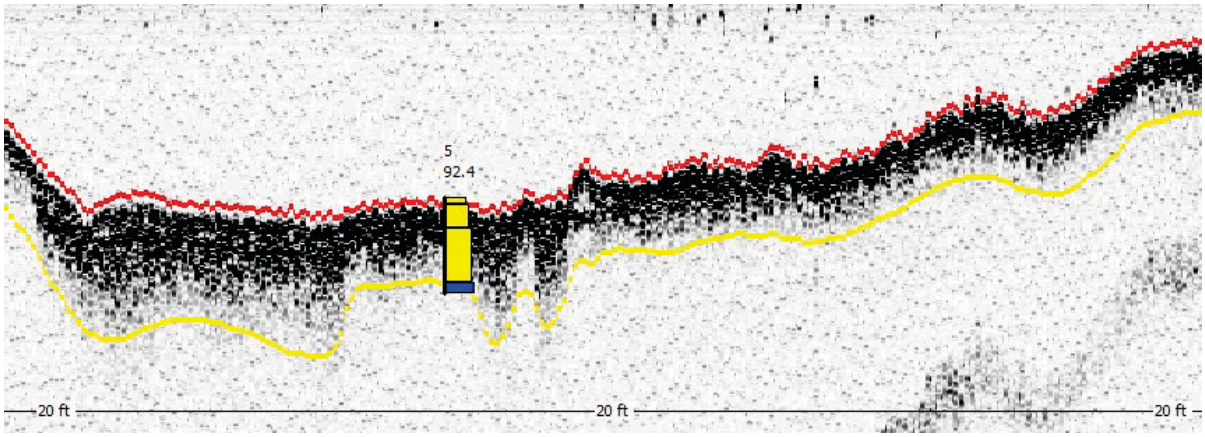


Figure 9. Cross-section of data collected during the 2018 survey, displayed in DepthPic© (50 kHz acoustic signal returns), correlated with sediment core sample HOU-5 and showing the current surface as the red line, and pre-impoundment surface as the yellow line.

After the pre-impoundment surface for all cross-sections was identified, a pre-impoundment TIN model and a sediment thickness TIN model were created following standard GIS techniques (Furnans and Austin, 2007). Pre-impoundment elevations and sediment thicknesses were interpolated between surveyed cross-sections using HydroTools with the same interpolation definition file used for bathymetric interpolation. For the purposes of TIN model creation, the TWDB assumed the sediment thickness at the reservoir boundary was 0 feet (defined as the 42.16-foot elevation contour). The sediment thickness TIN model was converted to a raster representation using a cell size of 5 feet by 5 feet and was used to produce a sediment thickness map of Lake Houston (Figure 10). Using ArcInfo software, the pre-impoundment TIN model was used to compute elevation-capacity and elevation-area tables for the purpose of calculating the total volume of accumulated sediment.

Although linear interpolation was used to estimate topography in areas inaccessible by boat or too shallow for the instruments to work properly, development of some flat triangles (triangles whose vertices all have the same elevation) in the pre-impoundment TIN model are unavoidable. The flat triangles in turn lead to anomalous calculations of surface area and volume at the boundary elevation 42.16 feet. To eliminate the effects of the flat triangles on area and volume calculations, areas between elevations 41.0 and 42.16 feet were linearly interpolated between the computed values, and volumes above elevation 41.0 feet were calculated based on the corrected areas. Areas above

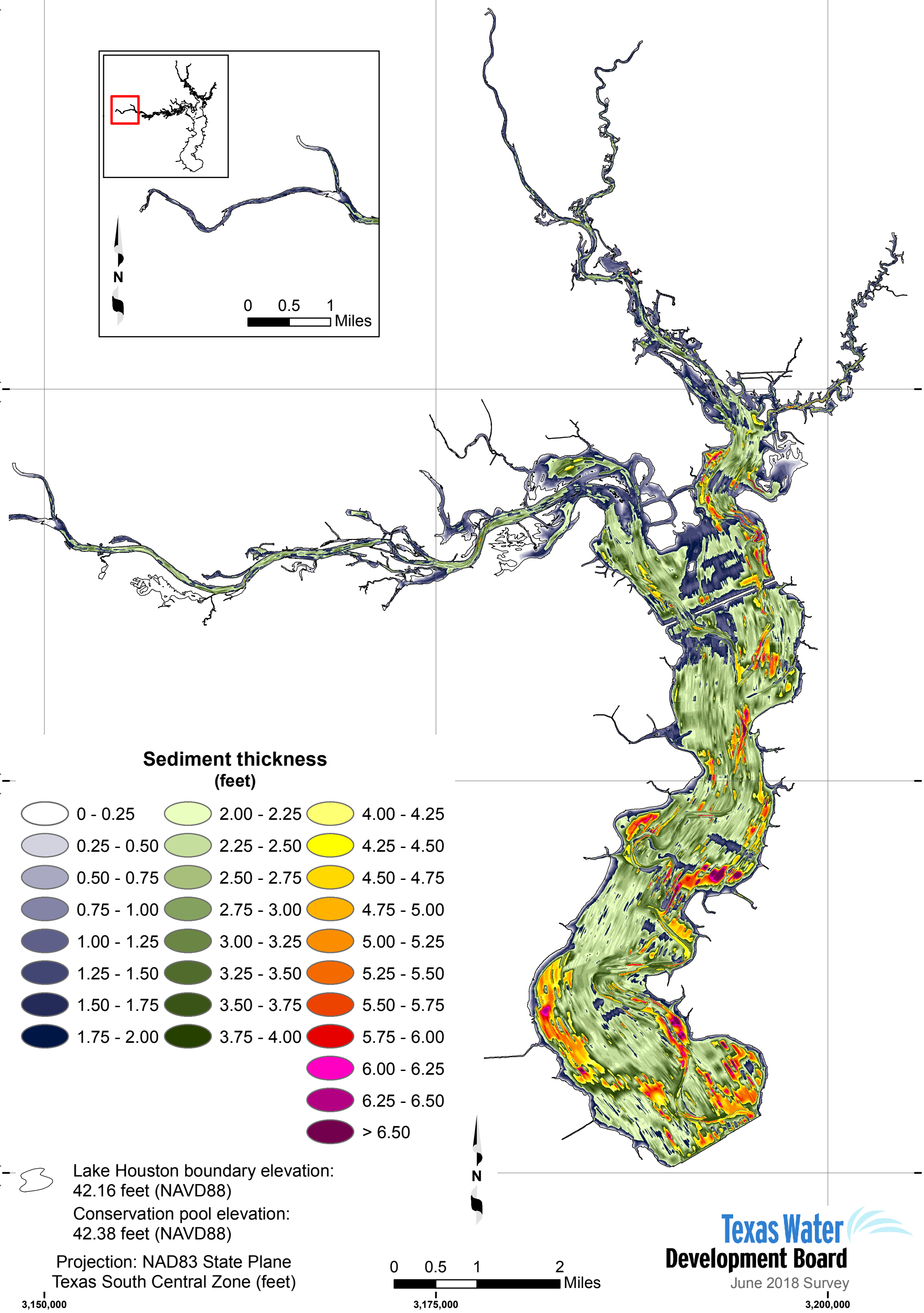
elevation 42.16 feet, up to elevation 42.38 feet, were linearly extrapolated and capacities were calculated from the extrapolated areas.

Identification of the pre-impoundment surface in Lake Houston is immensely challenging due to the dynamic nature of the reservoir and sediment characteristics. Frequent flooding moves sands and other sediments around. Compressive stresses on the sediments may increase the sediment density, inhibiting the measurement of the original, pre-impoundment surface. Density stratification in the sediment layers can also scatter and attenuate acoustic return signals of the multi-frequency depth sounder (U.S. Army Corps of Engineers, 2013). These physical conditions are present in Lake Houston, as identified in sediment core sample HOU-5, and can lead to identification of a false pre-impoundment. For example, sediments measured near the area where the West Fork San Jacinto River makes a sharp right turn into Lake Houston, just upstream from where sediment core sample HOU-5 was collected, are inconsistent with bottom elevation changes between the 2018 and 2011 TWDB surveys. Additionally, planform changes of the river channel between surveys adds to the challenges associated with identifying pre-impoundment sediments and directly comparing different surveys. Despite these challenges, sedimentation rate estimates derived from this TWDB survey and past surveys cannot be discredited. The 2018 sedimentation survey represents the second sedimentation survey completed on Lake Houston. TWDB previously completed a sedimentation survey in 2011. The 2018 sedimentation survey results estimate a pre-impoundment capacity approximately 4.2 percent greater than in 2011, further illustrating the challenges of identifying the pre-impoundment surface.

Figure 10

Lake Houston

Sediment thickness map



Sediment thickness
(feet)

- 0 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.25
- 1.25 - 1.50
- 1.50 - 1.75
- 1.75 - 2.00
- 2.00 - 2.25
- 2.25 - 2.50
- 2.50 - 2.75
- 2.75 - 3.00
- 3.00 - 3.25
- 3.25 - 3.50
- 3.50 - 3.75
- 3.75 - 4.00
- 4.00 - 4.25
- 4.25 - 4.50
- 4.50 - 4.75
- 4.75 - 5.00
- 5.00 - 5.25
- 5.25 - 5.50
- 5.50 - 5.75
- 5.75 - 6.00
- 6.00 - 6.25
- 6.25 - 6.50
- > 6.50

Lake Houston boundary elevation:
42.16 feet (NAVD88)

Conservation pool elevation:
42.38 feet (NAVD88)

Projection: NAD83 State Plane
Texas South Central Zone (feet)

Texas Water Development Board

June 2018 Survey

Survey results

Volumetric survey

The 2018 TWDB volumetric survey indicates that Lake Houston has a total reservoir capacity of 136,119 acre-feet and encompasses 11,443 acres at normal\conservation pool elevation (42.38 feet NAVD88). Previous capacity estimates include the original design estimate of 158,553 acre-feet. A survey conducted in 1965 indicates Lake Houston had a total reservoir capacity of 146,769 acre-feet and encompassed 12,236 acres (Ambursen Engineering Corporation, 1966). Re-evaluation of the 1994 and 2011 surveys resulted in updated capacity estimates of 144,812 acre-feet and 134,122 acre-feet, respectively (Table 3). Differences in surface area are most likely attributable to differences in reservoir boundary delineation methods. Because of differences in past and present survey methodologies, direct comparison of volumetric surveys to others to estimate loss of area and capacity can be unreliable.

Table 3. Current and previous survey capacity and surface area estimates for Lake Houston.

Top of normal\conservation pool elevation (42.38 feet NAVD88)			
Survey	**Surface area (acres)**	**Total capacity (acre-feet)**	**Source**
Original design[a]	12,764	158,553	Texas Water Development Board, 1973
1965[a]	12,236	146,769	Ambursen Engineering Corporation, 1966
TWDB 1994 (re-calculated)	12,482	144,812	Texas Water Development Board, 2016
TWDB 2011 (re-calculated)	11,282	134,122	Texas Water Development Board, 2016
TWDB 2018	11,443	136,119	Texas Water Development Board, 2019

[a] Source: (Ambursen Engineering Corporation, 1966).

Sedimentation survey

The 2018 TWDB sedimentation survey indicates Lake Houston has lost capacity at an average of 384 acre-feet per year since impoundment due to sedimentation below normal\conservation pool elevation (42.38 feet NAVD88). **Long-term trends indicate that Lake Houston loses capacity at an average of 361 acre-feet per year since impoundment due to sedimentation below normal\conservation pool elevation (42.38 feet NAVD88).** The sedimentation survey indicates sediment accumulation is occurring throughout the reservoir. Comparison of capacity estimates of Lake Houston derived using differing methodologies are provided in Table 4 for sedimentation rate calculation.

Table 4. Average annual capacity loss comparisons for Lake Houston.

Survey	Volume comparisons at top of normal/conservation pool elevation 42.38 feet NAVD88 (acre-feet)				
Original design[a]	158,553	<>	<>	<>	<>
1965[a]	<>	146,769	<>	<>	
TWDB 1994 (re-calculated)	<>	<>	144,812	<>	<>
TWDB 2011 (re-calculated)	<>	<>	<>	134,122	<>
TWDB pre-impoundment estimate based on 2018 survey	<>	<>	<>	<>	160,716
2018 volumetric survey	136,119	136,119	136,119	136,119	136,119
Volume difference (acre-feet)	22,434 (14.1%)	10,650 (7.3%)	8,693 (6.0%)	-1,997 (-1.5%)	24.597 (15.3%)
Number of years	64	53	24	7	64
Capacity loss rate (acre-feet/year)	351	201	362	-285	384
Capacity loss rate (acre-feet/square mile of drainage area of 2,828[a] square miles /year)	0.12	0.07	0.13	-0.10	0.14

[a] Source: (Ambursen Engineering Corporation, 1966), note: Lake Houston Dam was completed, and deliberate impoundment began on April 9, 1954.

The results of the 2018 TWDB survey show a capacity increase of 1,997 acre-feet since the 2011 TWDB survey, a finding that is contrary to the typical sedimentary processes in dammed reservoirs. In August 2017, rainfall from Hurricane Harvey produced record-breaking flows passing over the Lake Houston spillway. The flow was

estimated to be 425,000 cubic feet per second at the peak of the event (Harris County Flood Control District, 2018). While extraordinarily high flows through a reservoir, such as those experienced during the Hurricane Harvey event in August 2017, can mobilize sediment and transport it downstream, the results of this survey do not confirm that all or any of the additional capacity found in the reservoir is a result of the Harvey flows. Among other potential explanations for the increased capacity finding are a significant increase in data coverage during the TWDB 2018 survey, as compared to the previous 2011 TWDB survey, and improved boundary identification due to higher resolution imagery used in the digitization process.

To account for short-term variances in sedimentation rate, the TWDB generated a trend line utilizing the pre-impoundment value identified in the 2018 survey and the previous volumetric estimates generated in 1954, 1965, 1994, 2011, and 2018 to show the sedimentation rate trend since impoundment. Results show a 361 acre-feet per year sedimentation rate and are shown in Figure 11.

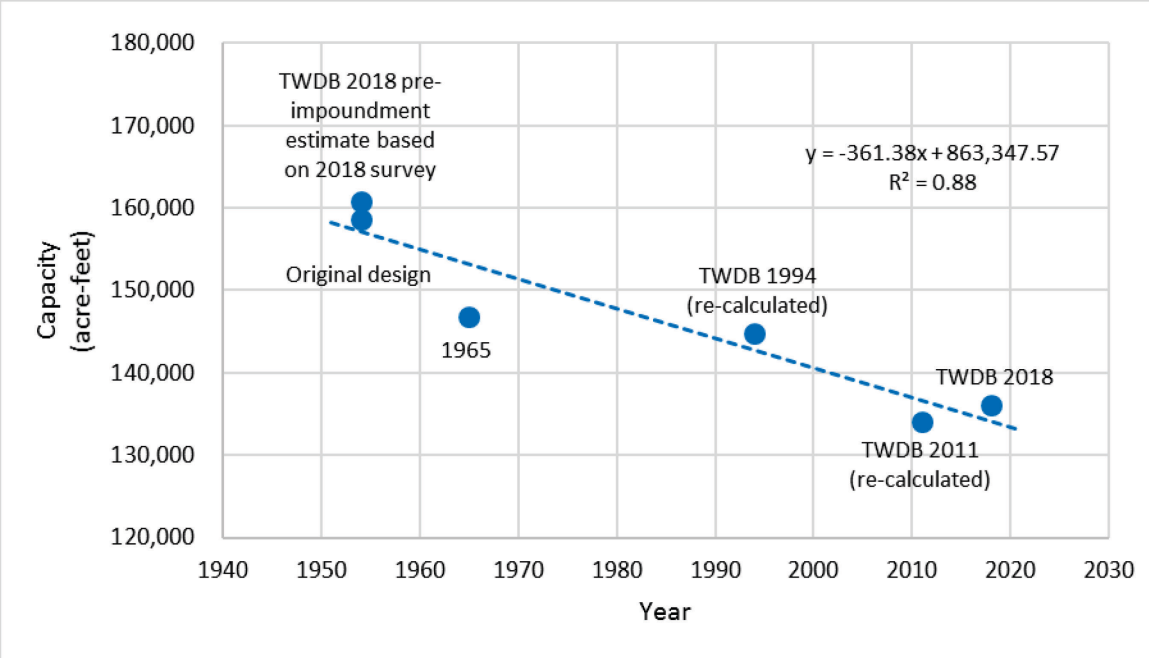


Figure 11. Plot of current and previous capacity estimates (acre-feet) for Lake Houston. Capacity estimates for each survey plotted as blue dots. The blue trend line illustrates the total average loss of capacity through 2018.

Sediment range lines

In 1943, the City of Houston established forty-five sediment range lines throughout Lake Houston to measure sediment accumulation over time (Ambursen Engineering Corporation, 1966). The locations of the range lines are shown on a map in the 1965 survey report, but endpoint coordinates are not available (Ambursen Engineering Corporation, 1966). From this map, the TWDB approximated twelve range lines and cross-sectional comparisons of the current bottom surface from the 2018 TWDB survey, the 2011 TWDB re-calculated survey, and the 1994 TWDB re-calculated survey are presented in Appendix M. Also presented in Appendix M are a map depicting the TWDB locations of the sediment range lines and Table M1, a list of the endpoint coordinates for each line. Some differences in the cross-sections may be a result of spatial interpolation and the interpolation routine of the TIN Model.

Recommendations

The TWDB recommends a hydrographic survey of Lake Houston within a 5-year time-frame or after a major flood event to assess changes in lake capacity and to further improve estimates of sediment accumulation rates.

TWDB contact information

More information about the Hydrographic Survey Program can be found at:
http://www.twdb.texas.gov/surfacewater/surveys/index.asp
Any questions regarding the TWDB Hydrographic Survey Program may be addressed to:
Hydrosurvey@twdb.texas.gov

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Appendix A

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD
CAPACITY IN ACRE-FEET
ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

February 1994 Survey re-calculated October 2016
Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION in Feet	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
-5.1	0	0	0	0	0	0	0	0	0	0
-5	0	0	0	0	0	0	0	0	0	0
-4.9	0	0	0	0	0	0	0	0	0	0
-4.8	0	0	0	0	0	0	0	0	0	0
-4.7	0	0	0	0	0	0	0	0	0	0
-4.6	0	0	0	0	0	0	0	0	0	0
-4.5	0	0	0	0	0	0	0	0	0	0
-4.4	0	0	0	0	0	0	0	0	0	0
-4.3	0	0	0	0	0	0	0	0	0	0
-4.2	0	0	0	0	0	0	0	0	0	0
-4.1	0	0	0	0	0	0	0	0	0	0
-4	0	0	0	0	0	0	0	0	0	0
-3.9	0	0	0	0	0	0	0	0	0	0
-3.8	0	0	0	0	0	0	0	0	0	0
-3.7	0	0	0	0	0	0	0	0	0	0
-3.6	0	0	0	0	0	0	0	0	0	0
-3.5	0	0	0	0	0	0	0	0	0	0
-3.4	0	0	0	0	0	0	0	0	0	0
-3.3	0	0	0	0	0	0	0	0	0	0
-3.2	0	0	0	0	0	0	0	0	0	0
-3.1	0	0	0	0	0	0	0	0	0	0
-3	0	0	0	0	0	0	0	0	0	0
-2.9	0	0	0	0	0	0	0	0	0	0
-2.8	0	0	0	0	0	0	0	0	0	0
-2.7	0	0	0	0	0	0	0	0	0	0
-2.6	0	0	0	0	0	0	0	0	0	0
-2.5	0	0	0	0	0	0	0	0	0	0
-2.4	0	0	0	0	0	0	0	0	0	0
-2.3	0	0	0	0	0	0	0	0	1	1
-2.2	1	1	1	1	1	1	1	1	1	1
-2.1	1	1	1	1	1	1	1	1	1	1
-2	1	1	1	1	1	1	1	1	1	1
-1.9	1	1	1	1	1	1	1	1	1	1
-1.8	1	1	1	1	1	2	2	2	2	2
-1.7	2	2	2	2	2	2	2	2	2	2
-1.6	2	2	2	2	2	2	2	2	2	2
-1.5	2	2	2	2	2	2	2	2	2	2
-1.4	3	3	3	3	3	3	3	3	3	3
-1.3	3	3	3	3	3	3	3	3	3	3
-1.2	3	3	3	3	3	3	3	3	3	3
-1.1	4	4	4	4	4	4	4	4	4	4
-1	4	4	4	4	4	4	4	4	4	4
-0.9	4	4	4	4	4	4	5	5	5	5
-0.8	5	5	5	5	5	5	5	5	5	5
-0.7	5	5	5	5	5	5	5	5	5	5
-0.6	6	6	6	6	6	6	6	6	6	6
-0.5	6	6	6	6	6	6	6	6	6	6
-0.4	6	6	7	7	7	7	7	7	7	7
-0.3	7	7	7	7	7	7	7	7	7	7
-0.2	7	7	8	8	8	8	8	8	8	8
-0.1	8	8	8	8	8	8	8	8	8	8

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD
CAPACITY IN ACRE-FEET
ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

February 1994 Survey re-calculated October 2016
Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	8	9	9	9	9	9	9	9	9	9
0.1	9	9	9	9	9	9	9	9	9	10
0.2	10	10	10	10	10	10	10	10	10	10
0.3	10	10	10	10	10	11	11	11	11	11
0.4	11	11	11	11	11	11	11	11	11	11
0.5	11	12	12	12	12	12	12	12	12	12
0.6	12	12	12	12	12	12	13	13	13	13
0.7	13	13	13	13	13	13	13	13	13	13
0.8	14	14	14	14	14	14	14	14	14	14
0.9	14	14	14	15	15	15	15	15	15	15
1	15	15	15	15	15	15	16	16	16	16
1.1	16	16	16	16	16	16	16	16	17	17
1.2	17	17	17	17	17	17	17	17	17	18
1.3	18	18	18	18	18	18	18	18	18	18
1.4	18	19	19	19	19	19	19	19	19	19
1.5	19	20	20	20	20	20	20	20	20	20
1.6	20	21	21	21	21	21	21	21	21	21
1.7	21	22	22	22	22	22	22	22	22	22
1.8	23	23	23	23	23	23	23	23	23	23
1.9	24	24	24	24	24	24	24	24	25	25
2	25	25	25	25	25	25	26	26	26	26
2.1	26	26	26	26	27	27	27	27	27	27
2.2	27	27	28	28	28	28	28	28	28	28
2.3	29	29	29	29	29	29	29	30	30	30
2.4	30	30	30	30	31	31	31	31	31	31
2.5	32	32	32	32	32	32	33	33	33	33
2.6	33	33	34	34	34	34	34	34	35	35
2.7	35	35	35	36	36	36	36	36	36	37
2.8	37	37	37	37	38	38	38	38	38	39
2.9	39	39	39	40	40	40	40	40	41	41
3	41	41	42	42	42	42	43	43	43	43
3.1	43	44	44	44	44	45	45	45	45	46
3.2	46	46	47	47	47	47	48	48	48	48
3.3	49	49	49	50	50	50	50	51	51	51
3.4	52	52	52	52	53	53	53	54	54	54
3.5	55	55	55	55	56	56	56	57	57	57
3.6	58	58	58	59	59	59	60	60	60	61
3.7	61	61	62	62	62	63	63	63	64	64
3.8	64	65	65	65	66	66	67	67	67	68
3.9	68	68	69	69	70	70	70	71	71	71
4	72	72	73	73	73	74	74	75	75	75
4.1	76	76	77	77	77	78	78	79	79	79
4.2	80	80	81	81	82	82	82	83	83	84
4.3	84	85	85	85	86	86	87	87	88	88
4.4	89	89	90	90	91	91	91	92	92	93
4.5	93	94	94	95	95	96	96	97	97	98
4.6	98	99	99	100	100	101	101	102	102	103
4.7	103	104	105	105	106	106	107	107	108	108
4.8	109	109	110	111	111	112	112	113	113	114
4.9	115	115	116	116	117	117	118	119	119	120

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD
CAPACITY IN ACRE-FEET
ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

February 1994 Survey re-calculated October 2016
Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5	120	121	122	122	123	123	124	125	125	126
5.1	127	127	128	128	129	130	130	131	132	132
5.2	133	134	134	135	136	136	137	138	138	139
5.3	140	140	141	142	142	143	144	144	145	146
5.4	146	147	148	149	149	150	151	151	152	153
5.5	154	154	155	156	157	157	158	159	160	160
5.6	161	162	163	163	164	165	166	166	167	168
5.7	169	170	170	171	172	173	174	174	175	176
5.8	177	178	178	179	180	181	182	183	183	184
5.9	185	186	187	188	188	189	190	191	192	193
6	194	194	195	196	197	198	199	200	201	201
6.1	202	203	204	205	206	207	208	209	210	210
6.2	211	212	213	214	215	216	217	218	219	220
6.3	221	222	223	224	225	226	226	227	228	229
6.4	230	231	232	233	234	235	236	237	238	239
6.5	240	241	242	244	245	246	247	248	249	250
6.6	251	252	253	254	255	256	257	258	259	260
6.7	262	263	264	265	266	267	268	269	270	271
6.8	273	274	275	276	277	278	279	280	282	283
6.9	284	285	286	287	288	290	291	292	293	294
7	295	297	298	299	300	301	303	304	305	306
7.1	307	309	310	311	312	313	315	316	317	318
7.2	320	321	322	323	325	326	327	328	330	331
7.3	332	333	335	336	337	339	340	341	342	344
7.4	345	346	348	349	350	352	353	354	356	357
7.5	358	360	361	362	364	365	366	368	369	370
7.6	372	373	375	376	377	379	380	382	383	384
7.7	386	387	389	390	391	393	394	396	397	398
7.8	400	401	403	404	406	407	409	410	411	413
7.9	414	416	417	419	420	422	423	425	426	428
8	429	431	432	434	435	437	438	440	441	443
8.1	444	446	448	449	451	452	454	455	457	458
8.2	460	462	463	465	466	468	469	471	473	474
8.3	476	477	479	481	482	484	485	487	489	490
8.4	492	494	495	497	499	500	502	504	505	507
8.5	509	510	512	514	515	517	519	520	522	524
8.6	525	527	529	530	532	534	536	537	539	541
8.7	543	544	546	548	550	551	553	555	557	558
8.8	560	562	564	565	567	569	571	573	574	576
8.9	578	580	582	583	585	587	589	591	593	594
9	596	598	600	602	604	606	607	609	611	613
9.1	615	617	619	621	622	624	626	628	630	632
9.2	634	636	638	640	642	643	645	647	649	651
9.3	653	655	657	659	661	663	665	667	669	671
9.4	673	675	677	679	681	683	685	687	689	691
9.5	693	695	697	699	701	703	705	707	709	712
9.6	714	716	718	720	722	724	726	728	730	732
9.7	735	737	739	741	743	745	747	750	752	754
9.8	756	758	760	763	765	767	769	772	774	776
9.9	778	780	783	785	787	789	792	794	796	798

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
10	801	803	805	808	810	812	815	817	819	821
10.1	824	826	829	831	833	836	838	840	843	845
10.2	847	850	852	855	857	860	862	864	867	869
10.3	872	874	877	879	882	884	887	889	891	894
10.4	896	899	902	904	907	909	912	914	917	919
10.5	922	924	927	929	932	935	937	940	942	945
10.6	948	950	953	955	958	961	963	966	969	971
10.7	974	977	979	982	985	987	990	993	995	998
10.8	1,001	1,003	1,006	1,009	1,011	1,014	1,017	1,020	1,022	1,025
10.9	1,028	1,031	1,033	1,036	1,039	1,042	1,044	1,047	1,050	1,053
11	1,056	1,058	1,061	1,064	1,067	1,070	1,072	1,075	1,078	1,081
11.1	1,084	1,087	1,089	1,092	1,095	1,098	1,101	1,104	1,107	1,109
11.2	1,112	1,115	1,118	1,121	1,124	1,127	1,130	1,133	1,136	1,139
11.3	1,141	1,144	1,147	1,150	1,153	1,156	1,159	1,162	1,165	1,168
11.4	1,171	1,174	1,177	1,180	1,183	1,186	1,189	1,192	1,195	1,198
11.5	1,201	1,204	1,207	1,210	1,213	1,216	1,219	1,222	1,225	1,229
11.6	1,232	1,235	1,238	1,241	1,244	1,247	1,250	1,253	1,256	1,260
11.7	1,263	1,266	1,269	1,272	1,275	1,278	1,282	1,285	1,288	1,291
11.8	1,294	1,297	1,301	1,304	1,307	1,310	1,313	1,317	1,320	1,323
11.9	1,326	1,330	1,333	1,336	1,339	1,343	1,346	1,349	1,353	1,356
12	1,359	1,362	1,366	1,369	1,372	1,376	1,379	1,382	1,386	1,389
12.1	1,392	1,396	1,399	1,403	1,406	1,409	1,413	1,416	1,420	1,423
12.2	1,426	1,430	1,433	1,437	1,440	1,444	1,447	1,451	1,454	1,458
12.3	1,461	1,465	1,468	1,472	1,475	1,479	1,482	1,486	1,489	1,493
12.4	1,496	1,500	1,503	1,507	1,511	1,514	1,518	1,521	1,525	1,528
12.5	1,532	1,536	1,539	1,543	1,547	1,550	1,554	1,558	1,561	1,565
12.6	1,569	1,572	1,576	1,580	1,583	1,587	1,591	1,595	1,598	1,602
12.7	1,606	1,610	1,613	1,617	1,621	1,625	1,628	1,632	1,636	1,640
12.8	1,644	1,647	1,651	1,655	1,659	1,663	1,667	1,671	1,674	1,678
12.9	1,682	1,686	1,690	1,694	1,698	1,702	1,706	1,710	1,714	1,718
13	1,722	1,725	1,729	1,733	1,737	1,741	1,745	1,749	1,753	1,757
13.1	1,761	1,765	1,770	1,774	1,778	1,782	1,786	1,790	1,794	1,798
13.2	1,802	1,806	1,810	1,814	1,818	1,823	1,827	1,831	1,835	1,839
13.3	1,843	1,847	1,852	1,856	1,860	1,864	1,868	1,873	1,877	1,881
13.4	1,885	1,889	1,894	1,898	1,902	1,906	1,911	1,915	1,919	1,923
13.5	1,928	1,932	1,936	1,941	1,945	1,949	1,954	1,958	1,962	1,967
13.6	1,971	1,975	1,980	1,984	1,988	1,993	1,997	2,002	2,006	2,011
13.7	2,015	2,019	2,024	2,028	2,033	2,037	2,042	2,046	2,051	2,055
13.8	2,060	2,064	2,069	2,073	2,078	2,082	2,087	2,091	2,096	2,101
13.9	2,105	2,110	2,114	2,119	2,123	2,128	2,133	2,137	2,142	2,147
14	2,151	2,156	2,161	2,165	2,170	2,175	2,179	2,184	2,189	2,194
14.1	2,198	2,203	2,208	2,212	2,217	2,222	2,227	2,232	2,236	2,241
14.2	2,246	2,251	2,256	2,260	2,265	2,270	2,275	2,280	2,285	2,290
14.3	2,294	2,299	2,304	2,309	2,314	2,319	2,324	2,329	2,334	2,339
14.4	2,344	2,349	2,354	2,359	2,364	2,369	2,374	2,379	2,384	2,389
14.5	2,394	2,399	2,404	2,409	2,414	2,419	2,424	2,429	2,434	2,440
14.6	2,445	2,450	2,455	2,460	2,465	2,470	2,476	2,481	2,486	2,491
14.7	2,496	2,502	2,507	2,512	2,517	2,523	2,528	2,533	2,538	2,544
14.8	2,549	2,554	2,560	2,565	2,570	2,576	2,581	2,586	2,592	2,597
14.9	2,602	2,608	2,613	2,619	2,624	2,630	2,635	2,640	2,646	2,651

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
15	2,657	2,662	2,668	2,673	2,679	2,684	2,690	2,695	2,701	2,706
15.1	2,712	2,718	2,723	2,729	2,734	2,740	2,746	2,751	2,757	2,763
15.2	2,768	2,774	2,780	2,785	2,791	2,797	2,802	2,808	2,814	2,820
15.3	2,825	2,831	2,837	2,843	2,849	2,854	2,860	2,866	2,872	2,878
15.4	2,884	2,889	2,895	2,901	2,907	2,913	2,919	2,925	2,931	2,937
15.5	2,943	2,949	2,955	2,961	2,967	2,973	2,979	2,985	2,991	2,997
15.6	3,003	3,009	3,015	3,021	3,027	3,034	3,040	3,046	3,052	3,058
15.7	3,064	3,070	3,077	3,083	3,089	3,095	3,102	3,108	3,114	3,120
15.8	3,127	3,133	3,139	3,145	3,152	3,158	3,165	3,171	3,177	3,184
15.9	3,190	3,196	3,203	3,209	3,216	3,222	3,229	3,235	3,242	3,248
16	3,255	3,261	3,268	3,274	3,281	3,287	3,294	3,301	3,307	3,314
16.1	3,321	3,327	3,334	3,341	3,347	3,354	3,361	3,367	3,374	3,381
16.2	3,388	3,394	3,401	3,408	3,415	3,421	3,428	3,435	3,442	3,449
16.3	3,456	3,462	3,469	3,476	3,483	3,490	3,497	3,504	3,511	3,518
16.4	3,525	3,532	3,539	3,546	3,553	3,560	3,567	3,574	3,581	3,588
16.5	3,595	3,602	3,609	3,617	3,624	3,631	3,638	3,645	3,653	3,660
16.6	3,667	3,674	3,681	3,689	3,696	3,703	3,711	3,718	3,725	3,733
16.7	3,740	3,747	3,755	3,762	3,770	3,777	3,784	3,792	3,799	3,807
16.8	3,814	3,822	3,829	3,837	3,845	3,852	3,860	3,867	3,875	3,883
16.9	3,890	3,898	3,906	3,913	3,921	3,929	3,937	3,944	3,952	3,960
17	3,968	3,976	3,983	3,991	3,999	4,007	4,015	4,023	4,031	4,039
17.1	4,047	4,055	4,063	4,071	4,079	4,087	4,095	4,103	4,111	4,119
17.2	4,127	4,135	4,144	4,152	4,160	4,168	4,176	4,185	4,193	4,201
17.3	4,209	4,218	4,226	4,234	4,243	4,251	4,259	4,268	4,276	4,284
17.4	4,293	4,301	4,310	4,318	4,327	4,335	4,344	4,352	4,361	4,369
17.5	4,378	4,386	4,395	4,404	4,412	4,421	4,430	4,438	4,447	4,456
17.6	4,465	4,473	4,482	4,491	4,500	4,509	4,517	4,526	4,535	4,544
17.7	4,553	4,562	4,571	4,580	4,589	4,598	4,607	4,616	4,625	4,634
17.8	4,644	4,653	4,662	4,671	4,680	4,690	4,699	4,708	4,717	4,727
17.9	4,736	4,745	4,755	4,764	4,773	4,783	4,792	4,802	4,811	4,821
18	4,830	4,840	4,850	4,859	4,869	4,878	4,888	4,898	4,907	4,917
18.1	4,927	4,937	4,947	4,956	4,966	4,976	4,986	4,996	5,006	5,016
18.2	5,026	5,036	5,046	5,056	5,066	5,076	5,086	5,096	5,106	5,116
18.3	5,126	5,137	5,147	5,157	5,167	5,178	5,188	5,198	5,208	5,219
18.4	5,229	5,240	5,250	5,260	5,271	5,281	5,292	5,302	5,313	5,323
18.5	5,334	5,345	5,355	5,366	5,377	5,387	5,398	5,409	5,419	5,430
18.6	5,441	5,452	5,462	5,473	5,484	5,495	5,506	5,517	5,528	5,539
18.7	5,550	5,561	5,572	5,583	5,594	5,605	5,616	5,627	5,638	5,650
18.8	5,661	5,672	5,683	5,694	5,706	5,717	5,728	5,740	5,751	5,763
18.9	5,774	5,785	5,797	5,808	5,820	5,831	5,843	5,854	5,866	5,878
19	5,889	5,901	5,913	5,924	5,936	5,948	5,959	5,971	5,983	5,995
19.1	6,007	6,019	6,030	6,042	6,054	6,066	6,078	6,090	6,102	6,114
19.2	6,126	6,138	6,150	6,162	6,175	6,187	6,199	6,211	6,223	6,236
19.3	6,248	6,260	6,272	6,285	6,297	6,309	6,322	6,334	6,347	6,359
19.4	6,372	6,384	6,397	6,409	6,422	6,434	6,447	6,459	6,472	6,485
19.5	6,497	6,510	6,523	6,535	6,548	6,561	6,574	6,586	6,599	6,612
19.6	6,625	6,638	6,651	6,664	6,677	6,690	6,703	6,716	6,729	6,742
19.7	6,755	6,768	6,781	6,795	6,808	6,821	6,834	6,847	6,861	6,874
19.8	6,887	6,901	6,914	6,928	6,941	6,954	6,968	6,981	6,995	7,008
19.9	7,022	7,035	7,049	7,063	7,076	7,090	7,104	7,117	7,131	7,145

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
20	7,159	7,172	7,186	7,200	7,214	7,228	7,242	7,256	7,269	7,283
20.1	7,297	7,311	7,325	7,340	7,354	7,368	7,382	7,396	7,410	7,424
20.2	7,439	7,453	7,467	7,481	7,496	7,510	7,524	7,539	7,553	7,567
20.3	7,582	7,596	7,611	7,625	7,640	7,654	7,669	7,684	7,698	7,713
20.4	7,728	7,742	7,757	7,772	7,787	7,802	7,816	7,831	7,846	7,861
20.5	7,876	7,891	7,906	7,921	7,936	7,951	7,966	7,981	7,996	8,012
20.6	8,027	8,042	8,057	8,073	8,088	8,103	8,119	8,134	8,149	8,165
20.7	8,180	8,196	8,211	8,227	8,243	8,258	8,274	8,290	8,305	8,321
20.8	8,337	8,353	8,368	8,384	8,400	8,416	8,432	8,448	8,464	8,480
20.9	8,496	8,512	8,528	8,545	8,561	8,577	8,593	8,610	8,626	8,642
21	8,659	8,675	8,691	8,708	8,724	8,741	8,757	8,774	8,791	8,807
21.1	8,824	8,841	8,858	8,874	8,891	8,908	8,925	8,942	8,959	8,976
21.2	8,993	9,010	9,027	9,044	9,061	9,079	9,096	9,113	9,130	9,148
21.3	9,165	9,183	9,200	9,217	9,235	9,252	9,270	9,288	9,305	9,323
21.4	9,341	9,358	9,376	9,394	9,412	9,430	9,448	9,466	9,484	9,502
21.5	9,520	9,538	9,556	9,574	9,592	9,610	9,629	9,647	9,665	9,684
21.6	9,702	9,721	9,739	9,758	9,776	9,795	9,814	9,832	9,851	9,870
21.7	9,889	9,908	9,927	9,946	9,965	9,984	10,003	10,022	10,041	10,060
21.8	10,080	10,099	10,118	10,138	10,157	10,177	10,196	10,216	10,235	10,255
21.9	10,274	10,294	10,314	10,334	10,354	10,373	10,393	10,413	10,433	10,453
22	10,473	10,493	10,514	10,534	10,554	10,574	10,594	10,615	10,635	10,656
22.1	10,676	10,696	10,717	10,738	10,758	10,779	10,799	10,820	10,841	10,862
22.2	10,882	10,903	10,924	10,945	10,966	10,987	11,008	11,029	11,050	11,072
22.3	11,093	11,114	11,135	11,157	11,178	11,199	11,221	11,242	11,264	11,285
22.4	11,307	11,328	11,350	11,372	11,393	11,415	11,437	11,459	11,481	11,502
22.5	11,524	11,546	11,568	11,590	11,613	11,635	11,657	11,679	11,701	11,724
22.6	11,746	11,768	11,791	11,813	11,836	11,858	11,881	11,904	11,926	11,949
22.7	11,972	11,994	12,017	12,040	12,063	12,086	12,109	12,132	12,155	12,178
22.8	12,201	12,224	12,248	12,271	12,294	12,318	12,341	12,364	12,388	12,411
22.9	12,435	12,459	12,482	12,506	12,530	12,554	12,578	12,601	12,625	12,649
23	12,673	12,698	12,722	12,746	12,770	12,794	12,819	12,843	12,867	12,892
23.1	12,916	12,941	12,965	12,990	13,015	13,039	13,064	13,089	13,114	13,138
23.2	13,163	13,188	13,213	13,238	13,263	13,288	13,314	13,339	13,364	13,389
23.3	13,415	13,440	13,465	13,491	13,516	13,542	13,567	13,593	13,619	13,644
23.4	13,670	13,696	13,721	13,747	13,773	13,799	13,825	13,851	13,877	13,903
23.5	13,929	13,955	13,982	14,008	14,034	14,060	14,087	14,113	14,140	14,166
23.6	14,193	14,219	14,246	14,272	14,299	14,326	14,353	14,380	14,406	14,433
23.7	14,460	14,487	14,514	14,541	14,569	14,596	14,623	14,650	14,678	14,705
23.8	14,732	14,760	14,787	14,815	14,843	14,870	14,898	14,926	14,953	14,981
23.9	15,009	15,037	15,065	15,093	15,121	15,149	15,178	15,206	15,234	15,262
24	15,291	15,319	15,348	15,376	15,405	15,433	15,462	15,491	15,519	15,548
24.1	15,577	15,606	15,635	15,664	15,693	15,722	15,751	15,780	15,809	15,838
24.2	15,867	15,897	15,926	15,955	15,985	16,014	16,044	16,073	16,103	16,132
24.3	16,162	16,192	16,221	16,251	16,281	16,311	16,341	16,371	16,401	16,431
24.4	16,461	16,491	16,521	16,551	16,581	16,612	16,642	16,672	16,703	16,733
24.5	16,764	16,794	16,825	16,855	16,886	16,917	16,948	16,978	17,009	17,040
24.6	17,071	17,102	17,133	17,164	17,195	17,226	17,258	17,289	17,320	17,351
24.7	17,383	17,414	17,446	17,477	17,509	17,540	17,572	17,604	17,635	17,667
24.8	17,699	17,731	17,763	17,795	17,827	17,859	17,891	17,923	17,955	17,987
24.9	18,020	18,052	18,084	18,117	18,149	18,182	18,214	18,247	18,279	18,312

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
25	18,345	18,378	18,410	18,443	18,476	18,509	18,542	18,575	18,608	18,641
25.1	18,675	18,708	18,741	18,774	18,808	18,841	18,875	18,908	18,942	18,975
25.2	19,009	19,042	19,076	19,110	19,144	19,178	19,212	19,246	19,280	19,314
25.3	19,348	19,382	19,416	19,451	19,485	19,519	19,554	19,588	19,623	19,657
25.4	19,692	19,727	19,761	19,796	19,831	19,866	19,901	19,936	19,971	20,006
25.5	20,041	20,077	20,112	20,147	20,183	20,218	20,254	20,289	20,325	20,360
25.6	20,396	20,432	20,468	20,504	20,539	20,575	20,611	20,648	20,684	20,720
25.7	20,756	20,792	20,829	20,865	20,902	20,938	20,975	21,011	21,048	21,085
25.8	21,121	21,158	21,195	21,232	21,269	21,306	21,343	21,380	21,417	21,454
25.9	21,491	21,529	21,566	21,603	21,641	21,678	21,716	21,753	21,791	21,829
26	21,866	21,904	21,942	21,980	22,018	22,056	22,094	22,132	22,170	22,208
26.1	22,246	22,285	22,323	22,361	22,400	22,438	22,477	22,515	22,554	22,592
26.2	22,631	22,670	22,709	22,747	22,786	22,825	22,864	22,903	22,942	22,981
26.3	23,020	23,059	23,099	23,138	23,177	23,217	23,256	23,295	23,335	23,374
26.4	23,414	23,454	23,493	23,533	23,573	23,612	23,652	23,692	23,732	23,772
26.5	23,812	23,852	23,892	23,932	23,972	24,013	24,053	24,093	24,133	24,174
26.6	24,214	24,255	24,295	24,336	24,376	24,417	24,458	24,498	24,539	24,580
26.7	24,621	24,662	24,703	24,744	24,785	24,826	24,867	24,908	24,949	24,990
26.8	25,032	25,073	25,114	25,156	25,197	25,238	25,280	25,321	25,363	25,405
26.9	25,446	25,488	25,530	25,572	25,613	25,655	25,697	25,739	25,781	25,823
27	25,865	25,907	25,949	25,992	26,034	26,076	26,119	26,161	26,203	26,246
27.1	26,288	26,331	26,373	26,416	26,459	26,501	26,544	26,587	26,630	26,673
27.2	26,716	26,759	26,802	26,845	26,888	26,931	26,974	27,017	27,061	27,104
27.3	27,147	27,191	27,234	27,278	27,321	27,365	27,408	27,452	27,496	27,539
27.4	27,583	27,627	27,671	27,715	27,758	27,802	27,846	27,890	27,935	27,979
27.5	28,023	28,067	28,111	28,156	28,200	28,244	28,289	28,333	28,378	28,422
27.6	28,467	28,512	28,556	28,601	28,646	28,690	28,735	28,780	28,825	28,870
27.7	28,915	28,960	29,005	29,050	29,096	29,141	29,186	29,231	29,277	29,322
27.8	29,368	29,413	29,459	29,504	29,550	29,595	29,641	29,687	29,733	29,778
27.9	29,824	29,870	29,916	29,962	30,008	30,054	30,100	30,146	30,193	30,239
28	30,285	30,332	30,378	30,424	30,471	30,517	30,564	30,610	30,657	30,704
28.1	30,750	30,797	30,844	30,891	30,938	30,985	31,032	31,079	31,126	31,173
28.2	31,220	31,267	31,314	31,362	31,409	31,456	31,504	31,551	31,599	31,646
28.3	31,694	31,742	31,789	31,837	31,885	31,933	31,980	32,028	32,076	32,124
28.4	32,172	32,220	32,268	32,316	32,365	32,413	32,461	32,509	32,558	32,606
28.5	32,655	32,703	32,752	32,800	32,849	32,897	32,946	32,995	33,043	33,092
28.6	33,141	33,190	33,239	33,288	33,337	33,386	33,435	33,484	33,533	33,582
28.7	33,632	33,681	33,730	33,779	33,829	33,878	33,928	33,977	34,027	34,077
28.8	34,126	34,176	34,226	34,275	34,325	34,375	34,425	34,475	34,525	34,575
28.9	34,625	34,675	34,725	34,775	34,826	34,876	34,926	34,976	35,027	35,077
29	35,128	35,178	35,229	35,279	35,330	35,381	35,431	35,482	35,533	35,584
29.1	35,635	35,686	35,737	35,788	35,839	35,890	35,941	35,992	36,043	36,095
29.2	36,146	36,197	36,249	36,300	36,351	36,403	36,454	36,506	36,558	36,609
29.3	36,661	36,713	36,764	36,816	36,868	36,920	36,972	37,024	37,076	37,128
29.4	37,180	37,232	37,284	37,337	37,389	37,441	37,493	37,546	37,598	37,651
29.5	37,703	37,756	37,808	37,861	37,914	37,966	38,019	38,072	38,125	38,178
29.6	38,231	38,284	38,337	38,390	38,443	38,496	38,549	38,602	38,656	38,709
29.7	38,762	38,816	38,869	38,923	38,976	39,030	39,084	39,137	39,191	39,245
29.8	39,299	39,353	39,407	39,461	39,515	39,569	39,623	39,677	39,732	39,786
29.9	39,840	39,895	39,949	40,004	40,058	40,113	40,167	40,222	40,277	40,332

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
30	40,387	40,442	40,497	40,552	40,607	40,662	40,717	40,772	40,828	40,883
30.1	40,938	40,994	41,049	41,105	41,160	41,216	41,272	41,327	41,383	41,439
30.2	41,495	41,551	41,607	41,663	41,719	41,775	41,831	41,887	41,943	41,999
30.3	42,056	42,112	42,168	42,225	42,281	42,337	42,394	42,451	42,507	42,564
30.4	42,621	42,677	42,734	42,791	42,848	42,905	42,962	43,019	43,076	43,133
30.5	43,190	43,247	43,304	43,362	43,419	43,476	43,534	43,591	43,649	43,706
30.6	43,764	43,821	43,879	43,937	43,995	44,052	44,110	44,168	44,226	44,284
30.7	44,342	44,400	44,458	44,517	44,575	44,633	44,691	44,750	44,808	44,867
30.8	44,925	44,984	45,042	45,101	45,160	45,218	45,277	45,336	45,395	45,454
30.9	45,513	45,572	45,631	45,690	45,749	45,809	45,868	45,927	45,987	46,046
31	46,106	46,165	46,225	46,285	46,344	46,404	46,464	46,524	46,584	46,643
31.1	46,703	46,763	46,823	46,884	46,944	47,004	47,064	47,124	47,185	47,245
31.2	47,305	47,366	47,426	47,487	47,547	47,608	47,669	47,729	47,790	47,851
31.3	47,912	47,973	48,034	48,094	48,156	48,217	48,278	48,339	48,400	48,461
31.4	48,523	48,584	48,645	48,707	48,768	48,830	48,892	48,953	49,015	49,077
31.5	49,138	49,200	49,262	49,324	49,386	49,448	49,510	49,572	49,634	49,697
31.6	49,759	49,821	49,883	49,946	50,008	50,071	50,133	50,196	50,258	50,321
31.7	50,384	50,446	50,509	50,572	50,635	50,698	50,761	50,824	50,887	50,950
31.8	51,013	51,076	51,140	51,203	51,266	51,330	51,393	51,457	51,520	51,584
31.9	51,647	51,711	51,775	51,839	51,902	51,966	52,030	52,094	52,158	52,222
32	52,286	52,351	52,415	52,479	52,543	52,608	52,672	52,737	52,801	52,866
32.1	52,930	52,995	53,060	53,125	53,189	53,254	53,319	53,384	53,449	53,514
32.2	53,580	53,645	53,710	53,776	53,841	53,906	53,972	54,037	54,103	54,169
32.3	54,234	54,300	54,366	54,432	54,498	54,564	54,630	54,696	54,762	54,828
32.4	54,895	54,961	55,027	55,094	55,160	55,227	55,293	55,360	55,427	55,493
32.5	55,560	55,627	55,694	55,761	55,828	55,895	55,962	56,029	56,097	56,164
32.6	56,231	56,299	56,366	56,434	56,501	56,569	56,636	56,704	56,772	56,840
32.7	56,908	56,975	57,043	57,111	57,179	57,248	57,316	57,384	57,452	57,520
32.8	57,589	57,657	57,726	57,794	57,863	57,931	58,000	58,068	58,137	58,206
32.9	58,275	58,344	58,412	58,481	58,550	58,619	58,689	58,758	58,827	58,896
33	58,965	59,035	59,104	59,173	59,243	59,312	59,382	59,452	59,521	59,591
33.1	59,661	59,731	59,801	59,871	59,941	60,011	60,081	60,151	60,221	60,291
33.2	60,361	60,432	60,502	60,572	60,643	60,713	60,784	60,855	60,925	60,996
33.3	61,067	61,137	61,208	61,279	61,350	61,421	61,492	61,563	61,634	61,705
33.4	61,777	61,848	61,919	61,991	62,062	62,133	62,205	62,276	62,348	62,420
33.5	62,491	62,563	62,635	62,706	62,778	62,850	62,922	62,994	63,066	63,138
33.6	63,210	63,282	63,355	63,427	63,499	63,571	63,644	63,716	63,789	63,861
33.7	63,934	64,007	64,079	64,152	64,225	64,298	64,370	64,443	64,516	64,589
33.8	64,662	64,735	64,808	64,882	64,955	65,028	65,101	65,175	65,248	65,322
33.9	65,395	65,469	65,542	65,616	65,690	65,763	65,837	65,911	65,985	66,059
34	66,133	66,207	66,281	66,355	66,429	66,503	66,577	66,651	66,726	66,800
34.1	66,875	66,949	67,023	67,098	67,173	67,247	67,322	67,397	67,471	67,546
34.2	67,621	67,696	67,771	67,846	67,921	67,996	68,071	68,146	68,221	68,297
34.3	68,372	68,447	68,523	68,598	68,674	68,749	68,825	68,901	68,976	69,052
34.4	69,128	69,204	69,279	69,355	69,431	69,507	69,583	69,659	69,735	69,811
34.5	69,888	69,964	70,040	70,116	70,193	70,269	70,345	70,422	70,498	70,575
34.6	70,651	70,728	70,804	70,881	70,958	71,034	71,111	71,188	71,265	71,342
34.7	71,419	71,496	71,573	71,650	71,727	71,804	71,881	71,958	72,035	72,113
34.8	72,190	72,267	72,345	72,422	72,499	72,577	72,654	72,732	72,810	72,887
34.9	72,965	73,043	73,121	73,198	73,276	73,354	73,432	73,510	73,588	73,666

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
35	73,744	73,822	73,900	73,979	74,057	74,135	74,213	74,292	74,370	74,449
35.1	74,527	74,605	74,684	74,763	74,841	74,920	74,999	75,077	75,156	75,235
35.2	75,314	75,393	75,472	75,551	75,630	75,709	75,788	75,867	75,946	76,025
35.3	76,105	76,184	76,263	76,343	76,422	76,501	76,581	76,660	76,740	76,820
35.4	76,899	76,979	77,059	77,139	77,219	77,298	77,378	77,458	77,538	77,618
35.5	77,699	77,779	77,859	77,939	78,019	78,100	78,180	78,260	78,341	78,421
35.6	78,502	78,582	78,663	78,743	78,824	78,905	78,985	79,066	79,147	79,228
35.7	79,309	79,390	79,471	79,552	79,633	79,714	79,795	79,876	79,957	80,039
35.8	80,120	80,201	80,283	80,364	80,445	80,527	80,608	80,690	80,772	80,853
35.9	80,935	81,017	81,098	81,180	81,262	81,344	81,426	81,508	81,590	81,672
36	81,754	81,836	81,918	82,000	82,082	82,164	82,247	82,329	82,411	82,494
36.1	82,576	82,659	82,741	82,824	82,906	82,989	83,071	83,154	83,237	83,319
36.2	83,402	83,485	83,568	83,651	83,733	83,816	83,899	83,982	84,065	84,149
36.3	84,232	84,315	84,398	84,481	84,564	84,648	84,731	84,814	84,898	84,981
36.4	85,065	85,148	85,232	85,315	85,399	85,483	85,566	85,650	85,734	85,818
36.5	85,902	85,985	86,069	86,153	86,237	86,321	86,406	86,490	86,574	86,658
36.6	86,742	86,827	86,911	86,995	87,080	87,164	87,249	87,333	87,418	87,502
36.7	87,587	87,672	87,756	87,841	87,926	88,011	88,096	88,181	88,265	88,350
36.8	88,436	88,521	88,606	88,691	88,776	88,861	88,947	89,032	89,117	89,203
36.9	89,288	89,374	89,459	89,545	89,631	89,716	89,802	89,888	89,973	90,059
37	90,145	90,231	90,317	90,403	90,489	90,575	90,662	90,748	90,834	90,921
37.1	91,007	91,093	91,180	91,266	91,353	91,439	91,526	91,613	91,700	91,786
37.2	91,873	91,960	92,047	92,134	92,221	92,308	92,395	92,483	92,570	92,657
37.3	92,744	92,832	92,919	93,006	93,094	93,181	93,269	93,357	93,444	93,532
37.4	93,620	93,708	93,795	93,883	93,971	94,059	94,147	94,235	94,323	94,412
37.5	94,500	94,588	94,676	94,765	94,853	94,942	95,030	95,119	95,207	95,296
37.6	95,384	95,473	95,562	95,651	95,740	95,828	95,917	96,006	96,095	96,184
37.7	96,274	96,363	96,452	96,541	96,630	96,720	96,809	96,899	96,988	97,078
37.8	97,167	97,257	97,346	97,436	97,526	97,615	97,705	97,795	97,885	97,975
37.9	98,065	98,155	98,245	98,335	98,425	98,515	98,606	98,696	98,786	98,877
38	98,967	99,057	99,148	99,239	99,329	99,420	99,510	99,601	99,692	99,783
38.1	99,873	99,964	100,055	100,146	100,237	100,328	100,419	100,510	100,602	100,693
38.2	100,784	100,875	100,967	101,058	101,150	101,241	101,333	101,424	101,516	101,608
38.3	101,699	101,791	101,883	101,975	102,066	102,158	102,250	102,342	102,434	102,527
38.4	102,619	102,711	102,803	102,895	102,988	103,080	103,173	103,265	103,357	103,450
38.5	103,543	103,635	103,728	103,821	103,914	104,006	104,099	104,192	104,285	104,378
38.6	104,471	104,564	104,658	104,751	104,844	104,937	105,031	105,124	105,218	105,311
38.7	105,405	105,499	105,592	105,686	105,780	105,874	105,967	106,061	106,155	106,249
38.8	106,344	106,438	106,532	106,626	106,720	106,815	106,909	107,004	107,098	107,193
38.9	107,288	107,382	107,477	107,572	107,667	107,762	107,857	107,952	108,047	108,143
39	108,238	108,333	108,429	108,524	108,620	108,715	108,811	108,907	109,003	109,099
39.1	109,195	109,291	109,387	109,483	109,579	109,676	109,772	109,869	109,965	110,062
39.2	110,158	110,255	110,352	110,448	110,545	110,642	110,739	110,836	110,933	111,030
39.3	111,127	111,225	111,322	111,419	111,517	111,614	111,712	111,809	111,907	112,004
39.4	112,102	112,200	112,298	112,395	112,493	112,591	112,689	112,787	112,886	112,984
39.5	113,082	113,180	113,279	113,377	113,475	113,574	113,672	113,771	113,870	113,968
39.6	114,067	114,166	114,265	114,364	114,463	114,562	114,661	114,760	114,859	114,958
39.7	115,058	115,157	115,257	115,356	115,456	115,555	115,655	115,754	115,854	115,954
39.8	116,054	116,154	116,254	116,354	116,454	116,554	116,654	116,754	116,855	116,955
39.9	117,056	117,156	117,257	117,357	117,458	117,559	117,659	117,760	117,861	117,962

Appendix A (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
40	118,063	118,164	118,265	118,366	118,467	118,569	118,670	118,771	118,873	118,974
40.1	119,076	119,177	119,279	119,381	119,482	119,584	119,686	119,788	119,890	119,992
40.2	120,094	120,196	120,298	120,400	120,503	120,605	120,708	120,810	120,913	121,016
40.3	121,119	121,222	121,325	121,428	121,532	121,635	121,739	121,842	121,946	122,050
40.4	122,154	122,258	122,362	122,467	122,571	122,676	122,780	122,885	122,990	123,095
40.5	123,200	123,305	123,410	123,515	123,621	123,726	123,832	123,938	124,044	124,150
40.6	124,256	124,362	124,468	124,575	124,681	124,788	124,895	125,001	125,108	125,215
40.7	125,323	125,430	125,537	125,645	125,752	125,860	125,968	126,075	126,183	126,292
40.8	126,400	126,508	126,616	126,725	126,834	126,942	127,051	127,160	127,269	127,378
40.9	127,487	127,597	127,706	127,816	127,925	128,035	128,145	128,255	128,365	128,475
41	128,586	128,696	128,806	128,917	129,028	129,139	129,249	129,360	129,472	129,583
41.1	129,694	129,806	129,917	130,029	130,141	130,252	130,364	130,476	130,589	130,701
41.2	130,813	130,926	131,038	131,151	131,264	131,377	131,490	131,603	131,716	131,830
41.3	131,943	132,056	132,170	132,284	132,398	132,512	132,626	132,740	132,854	132,969
41.4	133,083	133,198	133,312	133,427	133,542	133,657	133,772	133,887	134,003	134,118
41.5	134,234	134,349	134,465	134,581	134,697	134,813	134,929	135,045	135,162	135,278
41.6	135,395	135,512	135,628	135,745	135,862	135,979	136,097	136,214	136,331	136,449
41.7	136,566	136,684	136,802	136,920	137,038	137,156	137,274	137,393	137,511	137,630
41.8	137,749	137,867	137,986	138,105	138,224	138,344	138,463	138,582	138,702	138,821
41.9	138,941	139,061	139,181	139,301	139,421	139,541	139,662	139,782	139,903	140,023
42	140,144	140,265	140,386	140,507	140,628	140,750	140,871	140,993	141,114	141,236
42.1	141,358	141,480	141,602	141,724	141,846	141,969	142,091	142,214	142,336	142,459
42.2	142,582	142,705	142,828	142,951	143,074	143,198	143,321	143,445	143,569	143,692
42.3	143,816	143,940	144,065	144,189	144,313	144,438	144,562	144,687	144,812	

Note: Capacities above elevation 40.23 feet calculated from interpolated areas and extrapolated areas

Appendix B

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
-5.1	0	0	0	0	0	0	0	0	0	0
-5.0	0	0	0	0	0	0	0	0	0	0
-4.9	0	0	0	0	0	0	0	0	0	0
-5	0	0	0	0	0	0	0	0	0	0
-4.7	0	0	0	0	0	0	0	0	0	0
-4.6	0	0	0	0	0	0	0	0	0	0
-4.5	0	0	0	0	0	0	0	0	0	0
-4.4	0	0	0	0	0	0	0	0	0	0
-4.3	0	0	0	0	0	0	0	0	0	0
-4.2	0	0	0	0	0	0	0	0	0	0
-4.1	0	0	0	0	0	0	0	0	0	0
-4.0	0	0	0	0	0	0	0	0	0	0
-3.9	0	0	0	0	0	0	0	0	0	0
-4	0	0	0	0	0	0	0	0	0	0
-3.7	0	0	0	0	0	0	0	0	0	0
-3.6	0	0	0	0	0	0	0	0	0	0
-3.5	0	0	0	0	0	0	0	0	0	0
-3.4	0	0	0	0	0	0	0	0	0	0
-3.3	0	0	0	0	0	0	0	0	0	0
-3.2	0	0	0	0	0	0	0	0	0	0
-3.1	0	0	0	0	0	0	0	0	0	0
-3.0	0	0	0	0	0	0	0	0	0	0
-2.9	0	0	0	0	0	0	0	0	0	0
-3	0	0	0	0	0	0	0	0	0	0
-2.7	0	0	0	0	0	0	0	1	1	1
-2.6	1	1	1	1	1	1	1	1	1	1
-2.5	1	1	1	1	1	1	1	1	1	1
-2.4	1	1	1	1	1	1	1	1	1	1
-2.3	1	1	1	1	1	2	2	2	2	2
-2.2	2	2	2	2	2	2	2	2	2	2
-2.1	2	2	2	2	2	2	2	2	2	2
-2.0	2	2	2	2	2	2	2	2	2	2
-1.9	2	2	2	2	2	2	2	2	2	2
-2	3	3	3	3	3	3	3	3	3	3
-1.7	3	3	3	3	3	3	3	3	3	3
-1.6	3	3	3	3	3	3	3	3	3	3
-1.5	3	3	3	3	3	3	3	3	3	3
-1.4	3	3	3	3	3	3	3	3	3	3
-1.3	3	3	3	3	3	3	3	3	3	3
-1.2	3	3	3	3	4	4	4	4	4	4
-1.1	4	4	4	4	4	4	4	4	4	4
-1.0	4	4	4	4	4	4	4	4	4	4
-0.9	4	4	4	4	4	4	4	4	4	4
-1	4	4	4	4	4	4	4	4	4	4
-0.7	4	4	4	4	4	4	4	4	4	4
-0.6	4	4	4	4	4	4	4	4	5	5
-0.5	5	5	5	5	5	5	5	5	5	5
-0.4	5	5	5	5	5	5	5	5	5	5
-0.3	5	5	5	5	5	5	5	5	5	5
-0.2	5	5	5	5	5	5	5	5	5	5
-0.1	5	5	5	5	5	5	5	5	5	5

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	6	6	6	6	6	6	6	6	6	6
0.1	6	6	6	6	6	6	6	6	6	6
0.2	6	6	6	6	6	6	6	6	6	6
0.3	6	6	6	6	6	6	6	6	6	6
0.4	6	6	6	6	6	6	6	6	7	7
0.5	7	7	7	7	7	7	7	7	7	7
0.6	7	7	7	7	7	7	7	7	7	7
0.7	7	7	7	7	7	7	7	7	7	7
0.8	7	7	7	7	7	7	7	8	8	8
0.9	8	8	8	8	8	8	8	8	8	8
1	8	8	8	8	8	8	8	8	8	8
1.1	8	8	8	8	8	8	8	8	8	8
1.2	9	9	9	9	9	9	9	9	9	9
1.3	9	9	9	9	9	9	9	9	9	9
1.4	9	9	9	9	9	9	9	10	10	10
1.5	10	10	10	10	10	10	10	10	10	10
1.6	10	10	10	10	10	10	10	10	10	10
1.7	10	10	10	11	11	11	11	11	11	11
1.8	11	11	11	11	11	11	11	11	11	11
1.9	11	11	11	12	12	12	12	12	12	12
2	12	12	12	12	12	12	12	12	12	12
2.1	12	13	13	13	13	13	13	13	13	13
2.2	13	13	13	13	13	13	13	14	14	14
2.3	14	14	14	14	14	14	14	14	14	14
2.4	15	15	15	15	15	15	15	15	15	16
2.5	16	16	16	16	16	16	17	17	17	17
2.6	17	17	17	17	18	18	18	18	18	18
2.7	18	19	19	19	19	19	19	19	19	20
2.8	20	20	20	20	20	20	21	21	21	21
2.9	21	21	22	22	22	22	22	22	23	23
3	23	23	23	23	24	24	24	24	24	24
3.1	25	25	25	25	25	25	25	26	26	26
3.2	26	26	26	27	27	27	27	27	27	27
3.3	28	28	28	28	28	28	29	29	29	29
3.4	29	29	29	30	30	30	30	30	30	31
3.5	31	31	31	31	31	31	32	32	32	32
3.6	32	32	33	33	33	33	33	33	33	34
3.7	34	34	34	34	34	34	35	35	35	35
3.8	35	35	36	36	36	36	36	36	37	37
3.9	37	37	37	37	38	38	38	38	38	38
4	39	39	39	39	39	39	40	40	40	40
4.1	40	40	41	41	41	41	41	42	42	42
4.2	42	42	43	43	43	43	43	44	44	44
4.3	44	44	45	45	45	45	45	46	46	46
4.4	46	46	47	47	47	47	47	48	48	48
4.5	48	48	49	49	49	49	49	50	50	50
4.6	50	51	51	51	51	52	52	52	52	53
4.7	53	53	53	54	54	54	54	54	55	55
4.8	55	55	56	56	56	56	57	57	57	57
4.9	58	58	58	58	59	59	59	59	60	60

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5	60	60	61	61	61	61	62	62	62	62
5.1	63	63	63	63	64	64	64	64	65	65
5.2	65	65	66	66	66	66	67	67	67	67
5.3	68	68	68	68	69	69	69	69	70	70
5.4	70	70	71	71	71	72	72	72	72	73
5.5	73	73	73	74	74	74	74	75	75	75
5.6	75	76	76	76	77	77	77	78	78	78
5.7	79	79	79	79	80	80	80	80	81	81
5.8	81	81	82	82	82	83	83	83	83	84
5.9	84	84	84	85	85	85	85	86	86	86
6	86	87	87	87	88	88	88	88	89	89
6.1	89	89	90	90	90	91	91	91	91	92
6.2	92	92	93	93	93	93	94	94	94	95
6.3	95	95	96	96	96	97	97	97	98	98
6.4	99	99	99	100	100	100	101	101	102	102
6.5	102	103	103	104	104	104	104	105	105	105
6.6	106	106	106	106	107	107	107	108	108	108
6.7	108	109	109	109	110	110	110	110	111	111
6.8	111	112	112	112	113	113	113	113	114	114
6.9	114	115	115	115	116	116	116	117	117	117
7	118	118	118	118	119	119	119	120	120	121
7.1	121	121	122	122	122	123	123	123	124	124
7.2	124	125	125	125	126	126	126	126	127	127
7.3	127	128	128	128	129	129	129	130	130	130
7.4	131	131	131	132	132	132	133	133	133	133
7.5	134	134	134	135	135	135	136	136	136	137
7.6	137	137	138	138	138	139	139	139	140	140
7.7	140	141	141	141	142	142	142	143	143	143
7.8	144	144	144	144	145	145	145	146	146	146
7.9	147	147	147	148	148	148	149	149	149	150
8	150	150	151	151	152	152	152	153	153	153
8.1	154	154	154	155	155	155	156	156	156	157
8.2	157	157	157	158	158	158	159	159	159	160
8.3	160	160	161	161	161	162	162	162	163	163
8.4	163	164	164	164	165	165	165	166	166	166
8.5	167	167	167	168	168	169	169	169	170	170
8.6	170	171	171	171	172	172	172	173	173	173
8.7	174	174	175	175	175	176	176	176	177	177
8.8	177	178	178	178	179	179	179	180	180	180
8.9	181	181	181	182	182	183	183	183	184	184
9	184	185	185	185	186	186	186	187	187	187
9.1	188	188	188	189	189	190	190	190	191	191
9.2	191	192	192	193	193	193	194	194	194	195
9.3	195	196	196	196	197	197	198	198	198	199
9.4	199	200	200	200	201	201	202	202	203	203
9.5	203	204	204	205	205	206	206	207	207	208
9.6	208	209	209	209	210	210	211	211	212	212
9.7	213	213	213	214	214	215	216	216	217	217
9.8	218	218	219	219	220	220	221	222	222	223
9.9	223	224	224	225	225	226	226	227	227	228

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
10	228	229	229	230	230	231	231	232	233	233
10.1	234	234	235	235	236	237	237	238	238	239
10.2	239	240	241	241	242	242	243	243	244	244
10.3	245	246	246	247	247	248	248	249	250	250
10.4	251	251	252	252	253	253	254	254	255	255
10.5	256	256	257	257	258	258	259	259	260	260
10.6	260	261	261	262	262	263	263	264	264	265
10.7	265	266	266	267	267	268	268	269	269	269
10.8	270	270	271	271	272	272	273	273	274	274
10.9	275	275	276	276	276	277	277	278	278	279
11	279	280	280	281	281	282	282	282	283	283
11.1	284	284	285	285	286	286	287	287	288	288
11.2	288	289	289	290	290	291	291	292	292	293
11.3	293	294	294	295	295	296	296	297	297	298
11.4	298	299	299	300	300	301	301	302	302	303
11.5	303	304	304	305	305	306	306	307	307	307
11.6	308	308	309	309	310	310	311	311	312	313
11.7	313	314	314	315	315	316	316	317	317	318
11.8	319	319	320	320	321	321	322	323	323	324
11.9	324	325	325	326	327	327	328	328	329	330
12	330	331	331	332	333	333	334	334	335	336
12.1	336	337	338	338	339	340	340	341	342	342
12.2	343	344	344	345	345	346	347	347	348	349
12.3	349	350	350	351	352	352	353	354	354	355
12.4	355	356	357	357	358	359	359	360	360	361
12.5	362	362	363	364	364	365	366	367	367	368
12.6	369	369	370	371	371	372	373	373	374	375
12.7	375	376	377	377	378	379	379	380	381	381
12.8	382	383	383	384	385	386	387	387	388	389
12.9	389	390	391	391	392	393	393	394	395	395
13	396	397	397	398	399	399	400	401	401	402
13.1	402	403	404	404	405	406	406	407	408	408
13.2	409	410	410	411	412	412	413	414	414	415
13.3	416	416	417	418	418	419	420	420	421	422
13.4	422	423	424	424	425	426	427	427	428	429
13.5	429	430	431	431	432	433	433	434	435	435
13.6	436	437	438	438	439	440	440	441	442	443
13.7	443	444	445	445	446	447	448	448	449	450
13.8	451	451	452	453	454	454	455	456	457	457
13.9	458	459	460	460	461	462	463	463	464	465
14	466	466	467	468	469	470	470	471	472	473
14.1	473	474	475	476	477	477	478	479	480	480
14.2	481	482	483	483	484	485	486	486	487	488
14.3	489	489	490	491	492	493	493	494	495	496
14.4	497	497	498	499	500	501	501	502	503	504
14.5	505	506	506	507	508	509	510	511	511	512
14.6	513	514	515	516	517	517	518	519	520	521
14.7	522	523	524	524	525	526	527	528	529	530
14.8	530	531	532	533	534	535	536	536	537	538
14.9	539	540	541	542	542	543	544	545	546	547

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
15	548	549	550	550	551	552	553	554	555	556
15.1	557	558	559	560	561	562	563	564	565	566
15.2	567	568	569	570	571	572	573	574	575	576
15.3	577	578	579	580	581	582	583	584	585	586
15.4	587	588	589	590	591	592	593	594	595	596
15.5	597	598	599	600	601	602	603	604	605	606
15.6	607	608	609	610	611	612	613	614	615	617
15.7	618	619	620	621	622	623	624	625	626	628
15.8	629	630	631	632	633	635	636	637	638	640
15.9	641	642	643	644	645	647	648	649	650	651
16	652	654	655	656	657	658	660	661	662	663
16.1	664	665	666	668	669	670	671	672	673	674
16.2	675	677	678	679	680	681	682	683	684	685
16.3	686	688	689	690	691	692	693	694	696	697
16.4	698	699	701	702	703	704	705	707	708	709
16.5	710	712	713	714	715	717	718	719	721	722
16.6	723	725	726	727	729	730	731	733	734	736
16.7	737	738	740	741	743	744	746	747	749	750
16.8	752	753	754	756	757	759	760	762	763	765
16.9	766	768	769	771	773	775	776	778	780	781
17	783	784	786	787	789	791	793	794	796	797
17.1	799	800	802	803	804	806	807	809	810	812
17.2	813	814	816	817	819	820	822	823	824	826
17.3	827	829	830	832	833	835	836	837	839	840
17.4	842	843	845	846	848	849	851	853	854	856
17.5	858	860	862	863	865	867	869	871	873	874
17.6	876	878	880	882	884	885	888	890	892	893
17.7	895	897	899	901	903	905	907	909	911	912
17.8	914	916	918	920	922	924	926	928	930	932
17.9	934	936	938	940	942	944	946	948	950	952
18	954	957	959	961	963	965	967	970	973	975
18.1	977	979	981	983	985	987	989	991	993	995
18.2	997	999	1,001	1,003	1,005	1,007	1,010	1,012	1,014	1,016
18.3	1,018	1,020	1,022	1,024	1,026	1,028	1,030	1,032	1,035	1,037
18.4	1,039	1,040	1,042	1,044	1,046	1,048	1,050	1,052	1,054	1,056
18.5	1,058	1,060	1,062	1,064	1,066	1,068	1,070	1,072	1,074	1,076
18.6	1,078	1,080	1,082	1,084	1,086	1,089	1,091	1,093	1,095	1,097
18.7	1,099	1,102	1,104	1,106	1,108	1,110	1,113	1,115	1,117	1,119
18.8	1,121	1,123	1,126	1,128	1,130	1,132	1,134	1,136	1,138	1,141
18.9	1,143	1,145	1,147	1,149	1,151	1,153	1,156	1,158	1,160	1,162
19	1,164	1,166	1,168	1,170	1,172	1,174	1,176	1,178	1,180	1,182
19.1	1,184	1,186	1,188	1,191	1,193	1,195	1,197	1,199	1,202	1,204
19.2	1,206	1,208	1,210	1,212	1,214	1,216	1,219	1,221	1,223	1,225
19.3	1,227	1,229	1,231	1,233	1,235	1,237	1,239	1,241	1,243	1,245
19.4	1,247	1,249	1,251	1,253	1,255	1,257	1,259	1,261	1,263	1,265
19.5	1,267	1,269	1,272	1,274	1,276	1,278	1,280	1,282	1,284	1,287
19.6	1,289	1,292	1,294	1,296	1,298	1,301	1,303	1,305	1,307	1,310
19.7	1,312	1,314	1,316	1,319	1,321	1,323	1,325	1,328	1,330	1,332
19.8	1,334	1,336	1,339	1,341	1,343	1,345	1,347	1,349	1,351	1,354
19.9	1,356	1,358	1,360	1,362	1,364	1,367	1,369	1,371	1,373	1,376

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
20	1,378	1,380	1,382	1,384	1,387	1,389	1,391	1,393	1,395	1,397
20.1	1,400	1,402	1,404	1,406	1,408	1,411	1,413	1,415	1,418	1,420
20.2	1,422	1,424	1,427	1,429	1,431	1,434	1,436	1,438	1,441	1,443
20.3	1,446	1,449	1,451	1,453	1,456	1,458	1,461	1,463	1,465	1,468
20.4	1,470	1,473	1,475	1,477	1,480	1,482	1,485	1,487	1,490	1,493
20.5	1,495	1,498	1,500	1,503	1,506	1,508	1,511	1,514	1,516	1,519
20.6	1,522	1,525	1,528	1,530	1,533	1,536	1,539	1,541	1,544	1,547
20.7	1,550	1,553	1,555	1,558	1,561	1,564	1,567	1,570	1,573	1,576
20.8	1,579	1,582	1,585	1,588	1,591	1,594	1,597	1,600	1,603	1,606
20.9	1,609	1,612	1,615	1,618	1,621	1,624	1,627	1,629	1,633	1,636
21	1,639	1,642	1,646	1,649	1,652	1,656	1,659	1,662	1,666	1,669
21.1	1,672	1,675	1,678	1,682	1,685	1,688	1,691	1,695	1,698	1,701
21.2	1,705	1,708	1,711	1,715	1,718	1,722	1,725	1,729	1,732	1,735
21.3	1,739	1,742	1,745	1,749	1,752	1,755	1,759	1,762	1,765	1,769
21.4	1,772	1,775	1,779	1,782	1,786	1,789	1,792	1,796	1,799	1,803
21.5	1,807	1,810	1,814	1,818	1,822	1,826	1,830	1,834	1,838	1,842
21.6	1,847	1,851	1,855	1,859	1,863	1,867	1,871	1,875	1,879	1,883
21.7	1,887	1,891	1,895	1,899	1,903	1,907	1,911	1,915	1,919	1,923
21.8	1,928	1,932	1,936	1,940	1,944	1,949	1,953	1,957	1,961	1,965
21.9	1,969	1,973	1,977	1,981	1,985	1,989	1,993	1,996	2,000	2,004
22	2,008	2,011	2,015	2,019	2,023	2,027	2,031	2,035	2,039	2,042
22.1	2,046	2,050	2,053	2,057	2,061	2,065	2,068	2,072	2,076	2,080
22.2	2,084	2,088	2,091	2,095	2,099	2,102	2,106	2,110	2,113	2,117
22.3	2,121	2,125	2,128	2,132	2,136	2,139	2,143	2,147	2,151	2,154
22.4	2,158	2,162	2,166	2,169	2,173	2,177	2,181	2,185	2,189	2,193
22.5	2,197	2,201	2,205	2,209	2,213	2,217	2,221	2,225	2,229	2,233
22.6	2,237	2,240	2,244	2,248	2,252	2,256	2,260	2,263	2,267	2,271
22.7	2,275	2,279	2,283	2,287	2,291	2,295	2,300	2,304	2,308	2,312
22.8	2,316	2,320	2,325	2,329	2,334	2,339	2,343	2,348	2,353	2,357
22.9	2,362	2,366	2,370	2,374	2,379	2,383	2,387	2,392	2,397	2,402
23	2,406	2,410	2,415	2,419	2,424	2,428	2,433	2,437	2,441	2,446
23.1	2,450	2,454	2,459	2,463	2,467	2,471	2,476	2,480	2,484	2,488
23.2	2,492	2,496	2,500	2,504	2,508	2,512	2,517	2,521	2,525	2,529
23.3	2,533	2,537	2,541	2,545	2,549	2,553	2,557	2,561	2,565	2,569
23.4	2,573	2,577	2,581	2,585	2,589	2,593	2,597	2,601	2,605	2,609
23.5	2,613	2,617	2,621	2,625	2,629	2,634	2,638	2,642	2,646	2,650
23.6	2,655	2,659	2,664	2,668	2,673	2,677	2,682	2,686	2,691	2,695
23.7	2,699	2,703	2,708	2,712	2,716	2,720	2,725	2,729	2,734	2,738
23.8	2,743	2,748	2,753	2,758	2,763	2,768	2,773	2,778	2,783	2,788
23.9	2,792	2,797	2,802	2,807	2,812	2,816	2,821	2,825	2,830	2,835
24	2,839	2,844	2,849	2,853	2,858	2,863	2,867	2,871	2,876	2,880
24.1	2,884	2,888	2,892	2,896	2,901	2,905	2,909	2,913	2,917	2,921
24.2	2,925	2,929	2,933	2,937	2,941	2,945	2,949	2,953	2,958	2,962
24.3	2,966	2,970	2,975	2,979	2,983	2,988	2,992	2,996	3,000	3,004
24.4	3,008	3,012	3,016	3,021	3,025	3,029	3,034	3,038	3,043	3,047
24.5	3,052	3,056	3,060	3,065	3,069	3,073	3,078	3,082	3,086	3,091
24.6	3,095	3,099	3,104	3,108	3,112	3,117	3,121	3,126	3,130	3,135
24.7	3,139	3,144	3,148	3,153	3,158	3,162	3,167	3,171	3,176	3,180
24.8	3,185	3,189	3,194	3,198	3,202	3,207	3,211	3,216	3,220	3,225
24.9	3,229	3,234	3,238	3,243	3,247	3,252	3,256	3,261	3,266	3,270

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
25	3,275	3,279	3,283	3,288	3,292	3,297	3,301	3,305	3,310	3,314
25.1	3,319	3,324	3,328	3,333	3,338	3,342	3,347	3,352	3,357	3,362
25.2	3,366	3,371	3,376	3,381	3,385	3,390	3,395	3,400	3,405	3,410
25.3	3,415	3,420	3,426	3,431	3,436	3,441	3,446	3,451	3,457	3,462
25.4	3,467	3,473	3,478	3,483	3,489	3,494	3,500	3,505	3,510	3,515
25.5	3,521	3,526	3,531	3,536	3,542	3,547	3,552	3,558	3,563	3,569
25.6	3,574	3,579	3,585	3,590	3,595	3,601	3,606	3,612	3,617	3,622
25.7	3,627	3,632	3,637	3,642	3,647	3,652	3,657	3,662	3,667	3,671
25.8	3,676	3,681	3,686	3,690	3,695	3,700	3,704	3,709	3,714	3,719
25.9	3,724	3,729	3,735	3,740	3,745	3,750	3,756	3,761	3,766	3,771
26	3,776	3,781	3,786	3,791	3,795	3,800	3,805	3,810	3,814	3,819
26.1	3,824	3,828	3,833	3,838	3,842	3,847	3,852	3,856	3,861	3,865
26.2	3,870	3,875	3,879	3,883	3,888	3,892	3,897	3,901	3,905	3,910
26.3	3,914	3,919	3,923	3,928	3,932	3,936	3,941	3,946	3,950	3,954
26.4	3,959	3,963	3,968	3,972	3,976	3,981	3,985	3,989	3,993	3,998
26.5	4,002	4,006	4,011	4,015	4,019	4,024	4,028	4,032	4,037	4,041
26.6	4,045	4,049	4,053	4,057	4,062	4,066	4,070	4,074	4,078	4,082
26.7	4,086	4,090	4,094	4,098	4,102	4,107	4,111	4,115	4,119	4,123
26.8	4,127	4,131	4,135	4,139	4,144	4,148	4,152	4,156	4,160	4,164
26.9	4,168	4,172	4,176	4,181	4,185	4,189	4,193	4,198	4,202	4,206
27	4,210	4,214	4,218	4,223	4,227	4,231	4,235	4,240	4,244	4,248
27.1	4,252	4,257	4,261	4,265	4,269	4,273	4,278	4,282	4,286	4,291
27.2	4,295	4,299	4,304	4,308	4,312	4,316	4,320	4,324	4,328	4,333
27.3	4,337	4,341	4,345	4,349	4,353	4,357	4,361	4,365	4,369	4,374
27.4	4,378	4,382	4,386	4,390	4,394	4,399	4,403	4,407	4,411	4,415
27.5	4,419	4,424	4,428	4,432	4,436	4,441	4,445	4,449	4,453	4,457
27.6	4,462	4,466	4,470	4,474	4,478	4,482	4,486	4,491	4,495	4,499
27.7	4,503	4,507	4,511	4,516	4,520	4,524	4,528	4,533	4,537	4,541
27.8	4,546	4,550	4,554	4,559	4,563	4,567	4,571	4,576	4,580	4,584
27.9	4,588	4,592	4,597	4,601	4,605	4,609	4,613	4,618	4,622	4,626
28	4,630	4,635	4,639	4,643	4,648	4,652	4,656	4,661	4,665	4,670
28.1	4,675	4,679	4,683	4,687	4,692	4,696	4,701	4,705	4,709	4,713
28.2	4,718	4,722	4,727	4,731	4,735	4,740	4,744	4,748	4,752	4,757
28.3	4,761	4,765	4,769	4,773	4,778	4,782	4,786	4,790	4,794	4,798
28.4	4,803	4,807	4,811	4,815	4,820	4,824	4,828	4,832	4,836	4,841
28.5	4,845	4,849	4,853	4,857	4,861	4,865	4,869	4,873	4,877	4,881
28.6	4,885	4,889	4,893	4,897	4,901	4,905	4,909	4,913	4,917	4,921
28.7	4,925	4,930	4,934	4,938	4,942	4,946	4,950	4,955	4,959	4,963
28.8	4,967	4,971	4,976	4,980	4,984	4,988	4,992	4,996	5,000	5,004
28.9	5,008	5,012	5,016	5,020	5,024	5,028	5,032	5,036	5,040	5,044
29	5,049	5,053	5,057	5,061	5,065	5,070	5,074	5,078	5,082	5,086
29.1	5,091	5,095	5,099	5,103	5,107	5,111	5,115	5,119	5,123	5,127
29.2	5,131	5,135	5,139	5,143	5,147	5,151	5,155	5,159	5,163	5,167
29.3	5,171	5,175	5,179	5,183	5,187	5,191	5,195	5,199	5,203	5,207
29.4	5,211	5,215	5,220	5,224	5,228	5,232	5,236	5,240	5,245	5,249
29.5	5,253	5,257	5,261	5,266	5,270	5,274	5,278	5,283	5,287	5,291
29.6	5,296	5,300	5,304	5,308	5,313	5,317	5,322	5,327	5,332	5,337
29.7	5,341	5,346	5,351	5,356	5,360	5,365	5,369	5,374	5,379	5,383
29.8	5,388	5,393	5,398	5,403	5,408	5,413	5,418	5,423	5,428	5,433
29.9	5,438	5,443	5,449	5,454	5,459	5,465	5,471	5,477	5,482	5,488

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
30	5,493	5,499	5,503	5,508	5,513	5,517	5,522	5,527	5,531	5,536
30.1	5,541	5,545	5,550	5,554	5,559	5,563	5,568	5,572	5,577	5,581
30.2	5,586	5,590	5,594	5,599	5,603	5,608	5,612	5,616	5,620	5,625
30.3	5,629	5,633	5,637	5,641	5,646	5,650	5,654	5,658	5,663	5,667
30.4	5,672	5,676	5,680	5,685	5,689	5,694	5,698	5,702	5,707	5,711
30.5	5,716	5,720	5,725	5,729	5,734	5,738	5,743	5,748	5,752	5,757
30.6	5,761	5,766	5,771	5,776	5,780	5,785	5,789	5,794	5,799	5,803
30.7	5,808	5,812	5,817	5,821	5,826	5,830	5,834	5,839	5,843	5,848
30.8	5,853	5,857	5,862	5,867	5,872	5,877	5,883	5,888	5,893	5,898
30.9	5,904	5,909	5,914	5,919	5,924	5,929	5,934	5,938	5,943	5,948
31	5,953	5,958	5,962	5,967	5,972	5,976	5,981	5,985	5,990	5,994
31.1	5,998	6,002	6,007	6,011	6,015	6,019	6,024	6,028	6,032	6,037
31.2	6,041	6,045	6,050	6,054	6,059	6,063	6,068	6,073	6,077	6,082
31.3	6,086	6,091	6,096	6,101	6,105	6,110	6,115	6,119	6,124	6,129
31.4	6,133	6,138	6,143	6,147	6,152	6,157	6,162	6,167	6,172	6,177
31.5	6,181	6,186	6,190	6,195	6,199	6,204	6,208	6,212	6,217	6,221
31.6	6,226	6,230	6,235	6,240	6,244	6,249	6,254	6,258	6,263	6,267
31.7	6,272	6,276	6,281	6,286	6,290	6,295	6,299	6,304	6,308	6,313
31.8	6,318	6,323	6,327	6,332	6,337	6,342	6,347	6,352	6,357	6,362
31.9	6,367	6,372	6,377	6,381	6,386	6,391	6,395	6,400	6,405	6,410
32	6,415	6,419	6,424	6,429	6,434	6,439	6,444	6,449	6,455	6,460
32.1	6,465	6,471	6,477	6,482	6,487	6,493	6,498	6,504	6,509	6,515
32.2	6,520	6,525	6,531	6,536	6,542	6,547	6,553	6,558	6,564	6,570
32.3	6,575	6,581	6,586	6,592	6,597	6,602	6,608	6,613	6,618	6,623
32.4	6,629	6,634	6,640	6,646	6,651	6,657	6,662	6,668	6,673	6,679
32.5	6,684	6,689	6,694	6,699	6,704	6,710	6,715	6,721	6,726	6,731
32.6	6,737	6,742	6,747	6,752	6,757	6,762	6,767	6,772	6,778	6,783
32.7	6,788	6,793	6,798	6,803	6,808	6,813	6,817	6,822	6,827	6,831
32.8	6,836	6,841	6,845	6,850	6,855	6,859	6,864	6,869	6,874	6,878
32.9	6,883	6,888	6,892	6,897	6,902	6,906	6,911	6,916	6,921	6,925
33	6,930	6,935	6,940	6,945	6,950	6,955	6,960	6,965	6,970	6,975
33.1	6,980	6,985	6,990	6,996	7,001	7,006	7,010	7,015	7,020	7,024
33.2	7,029	7,034	7,039	7,043	7,048	7,053	7,058	7,062	7,067	7,072
33.3	7,077	7,081	7,086	7,090	7,095	7,100	7,104	7,109	7,114	7,118
33.4	7,123	7,127	7,132	7,136	7,141	7,145	7,150	7,154	7,159	7,164
33.5	7,168	7,173	7,177	7,182	7,186	7,190	7,195	7,199	7,204	7,208
33.6	7,213	7,217	7,222	7,227	7,231	7,236	7,241	7,246	7,251	7,256
33.7	7,261	7,266	7,270	7,275	7,279	7,284	7,288	7,293	7,297	7,302
33.8	7,306	7,311	7,316	7,320	7,325	7,329	7,334	7,338	7,343	7,347
33.9	7,352	7,356	7,361	7,365	7,369	7,374	7,378	7,383	7,387	7,392
34	7,397	7,401	7,406	7,410	7,415	7,419	7,424	7,428	7,433	7,438
34.1	7,442	7,447	7,452	7,456	7,460	7,465	7,469	7,474	7,478	7,483
34.2	7,487	7,492	7,496	7,500	7,505	7,509	7,514	7,519	7,525	7,529
34.3	7,534	7,539	7,543	7,548	7,553	7,557	7,561	7,566	7,570	7,574
34.4	7,578	7,582	7,586	7,590	7,594	7,598	7,602	7,606	7,609	7,613
34.5	7,617	7,621	7,625	7,629	7,632	7,636	7,640	7,644	7,648	7,652
34.6	7,655	7,659	7,663	7,667	7,670	7,674	7,678	7,682	7,686	7,689
34.7	7,693	7,697	7,701	7,705	7,709	7,713	7,717	7,721	7,725	7,729
34.8	7,732	7,736	7,740	7,744	7,748	7,752	7,756	7,760	7,764	7,767
34.9	7,771	7,775	7,779	7,783	7,786	7,790	7,794	7,798	7,802	7,806

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
35	7,810	7,813	7,817	7,821	7,825	7,829	7,833	7,837	7,841	7,845
35.1	7,849	7,852	7,856	7,860	7,864	7,868	7,872	7,875	7,879	7,883
35.2	7,887	7,891	7,896	7,900	7,904	7,908	7,912	7,916	7,920	7,924
35.3	7,928	7,932	7,936	7,940	7,945	7,949	7,953	7,958	7,962	7,966
35.4	7,970	7,974	7,978	7,983	7,987	7,991	7,995	7,999	8,003	8,007
35.5	8,011	8,016	8,020	8,024	8,028	8,032	8,036	8,039	8,043	8,047
35.6	8,051	8,055	8,059	8,063	8,067	8,071	8,075	8,079	8,083	8,087
35.7	8,091	8,095	8,100	8,104	8,108	8,112	8,116	8,120	8,123	8,127
35.8	8,131	8,135	8,139	8,142	8,146	8,150	8,154	8,157	8,161	8,165
35.9	8,169	8,173	8,176	8,180	8,184	8,188	8,191	8,195	8,199	8,203
36	8,206	8,210	8,214	8,217	8,221	8,224	8,228	8,232	8,235	8,239
36.1	8,243	8,246	8,250	8,253	8,257	8,260	8,263	8,267	8,270	8,274
36.2	8,277	8,281	8,285	8,288	8,292	8,295	8,299	8,302	8,306	8,309
36.3	8,313	8,316	8,320	8,324	8,328	8,332	8,335	8,339	8,343	8,346
36.4	8,350	8,354	8,357	8,361	8,364	8,368	8,372	8,376	8,380	8,383
36.5	8,387	8,391	8,395	8,399	8,403	8,407	8,411	8,415	8,419	8,423
36.6	8,427	8,431	8,435	8,438	8,442	8,446	8,450	8,454	8,458	8,462
36.7	8,466	8,470	8,474	8,478	8,482	8,486	8,490	8,494	8,498	8,503
36.8	8,507	8,511	8,515	8,519	8,523	8,527	8,531	8,535	8,540	8,544
36.9	8,548	8,553	8,557	8,561	8,565	8,569	8,574	8,578	8,583	8,588
37	8,593	8,598	8,602	8,607	8,612	8,617	8,621	8,626	8,631	8,635
37.1	8,640	8,644	8,649	8,654	8,659	8,664	8,669	8,674	8,679	8,683
37.2	8,688	8,692	8,697	8,701	8,706	8,710	8,715	8,719	8,724	8,728
37.3	8,733	8,737	8,742	8,746	8,751	8,755	8,760	8,764	8,769	8,773
37.4	8,777	8,782	8,786	8,791	8,796	8,800	8,805	8,810	8,814	8,819
37.5	8,824	8,828	8,833	8,837	8,842	8,846	8,850	8,855	8,859	8,864
37.6	8,868	8,873	8,877	8,882	8,887	8,891	8,896	8,900	8,905	8,909
37.7	8,914	8,918	8,922	8,927	8,931	8,935	8,940	8,944	8,949	8,953
37.8	8,957	8,962	8,966	8,970	8,975	8,979	8,983	8,987	8,991	8,995
37.9	9,000	9,004	9,008	9,013	9,017	9,022	9,026	9,030	9,034	9,038
38	9,043	9,047	9,051	9,055	9,059	9,064	9,068	9,072	9,076	9,081
38.1	9,085	9,089	9,094	9,098	9,102	9,107	9,111	9,115	9,120	9,124
38.2	9,129	9,133	9,138	9,142	9,147	9,151	9,155	9,160	9,164	9,169
38.3	9,173	9,177	9,182	9,186	9,191	9,195	9,199	9,204	9,208	9,212
38.4	9,217	9,221	9,226	9,230	9,235	9,239	9,244	9,249	9,253	9,258
38.5	9,263	9,268	9,272	9,277	9,282	9,287	9,292	9,296	9,301	9,306
38.6	9,311	9,316	9,321	9,326	9,331	9,336	9,340	9,345	9,350	9,355
38.7	9,361	9,365	9,370	9,376	9,381	9,386	9,391	9,396	9,402	9,407
38.8	9,413	9,418	9,424	9,430	9,436	9,442	9,447	9,453	9,459	9,465
38.9	9,471	9,477	9,483	9,489	9,496	9,502	9,508	9,514	9,521	9,527
39	9,534	9,540	9,547	9,554	9,560	9,567	9,574	9,581	9,589	9,599
39.1	9,605	9,611	9,618	9,624	9,629	9,635	9,641	9,647	9,652	9,658
39.2	9,664	9,669	9,675	9,681	9,687	9,693	9,698	9,704	9,709	9,715
39.3	9,720	9,725	9,731	9,736	9,742	9,747	9,752	9,757	9,762	9,767
39.4	9,773	9,778	9,783	9,788	9,794	9,799	9,804	9,809	9,814	9,820
39.5	9,825	9,830	9,836	9,841	9,847	9,852	9,857	9,863	9,868	9,873
39.6	9,879	9,884	9,890	9,895	9,901	9,906	9,912	9,917	9,923	9,928
39.7	9,934	9,939	9,945	9,951	9,956	9,962	9,967	9,972	9,978	9,983
39.8	9,989	9,995	10,000	10,006	10,011	10,017	10,022	10,028	10,033	10,039
39.9	10,045	10,050	10,056	10,062	10,067	10,073	10,078	10,084	10,090	10,095

Appendix B (continued)

Lake Houston

RESERVOIR AREA TABLE

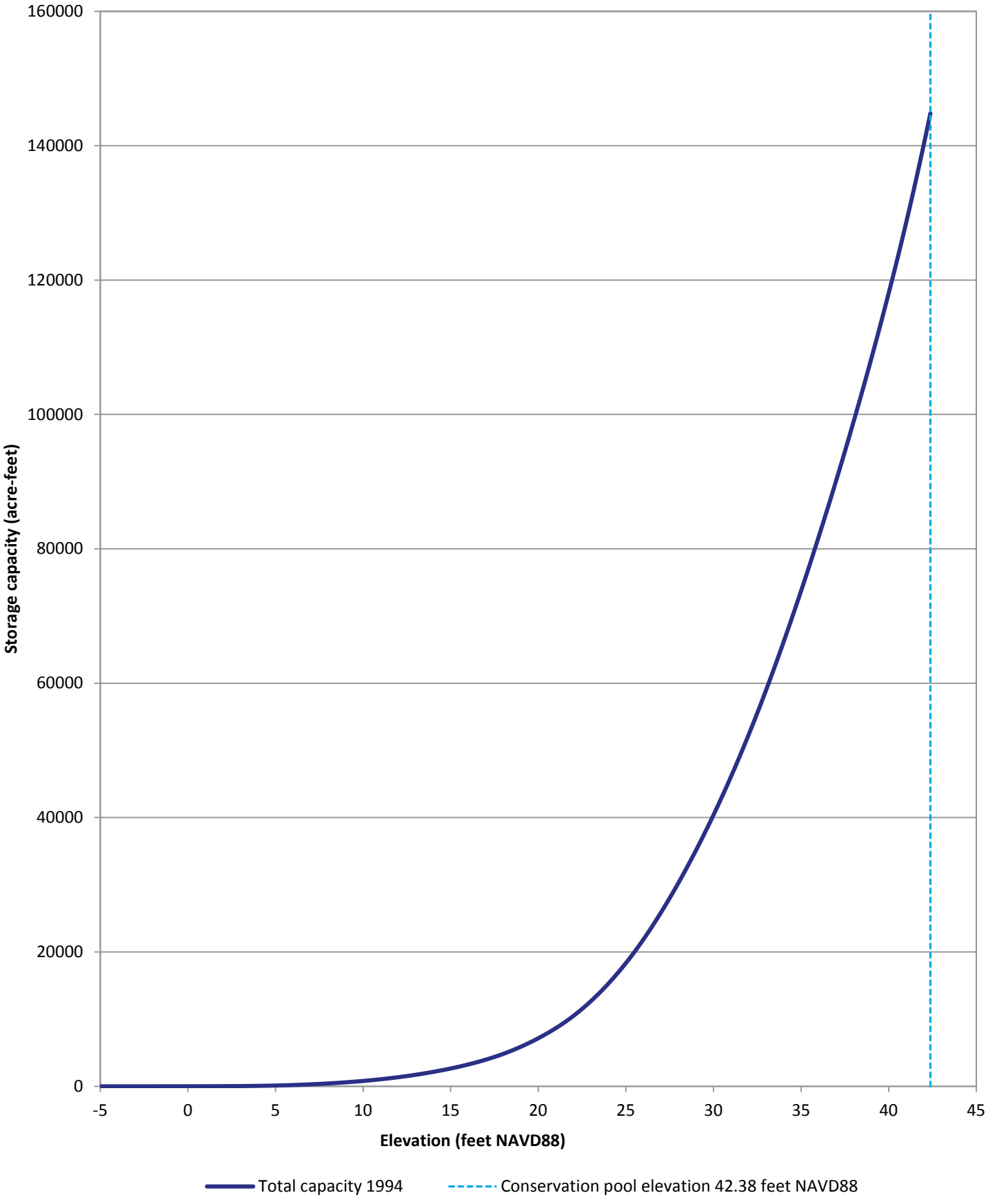
TEXAS WATER DEVELOPMENT BOARD — February 1994 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

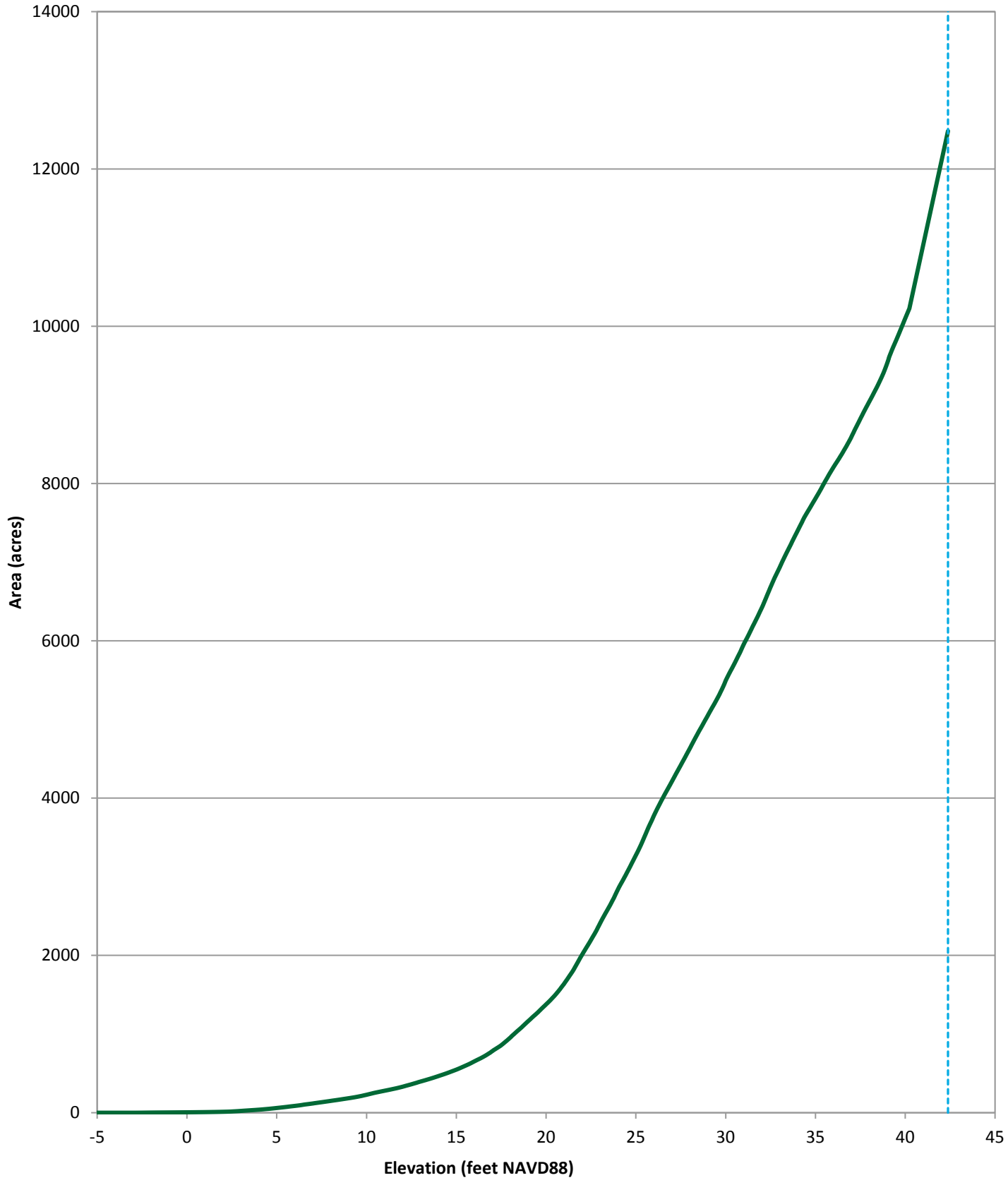
ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
40	10,101	10,106	10,112	10,117	10,122	10,128	10,133	10,139	10,144	10,150
40.1	10,155	10,161	10,166	10,171	10,177	10,182	10,188	10,193	10,199	10,204
40.2	10,210	10,215	10,221	10,226	10,237	10,247	10,257	10,268	10,278	10,289
40.3	10,299	10,310	10,320	10,331	10,341	10,352	10,362	10,373	10,383	10,394
40.4	10,404	10,415	10,425	10,436	10,446	10,457	10,467	10,478	10,488	10,499
40.5	10,509	10,520	10,530	10,541	10,551	10,562	10,572	10,583	10,593	10,604
40.6	10,614	10,625	10,635	10,646	10,656	10,667	10,677	10,688	10,698	10,709
40.7	10,719	10,730	10,740	10,751	10,761	10,772	10,782	10,793	10,803	10,814
40.8	10,824	10,835	10,845	10,856	10,866	10,877	10,887	10,898	10,908	10,919
40.9	10,929	10,940	10,950	10,961	10,971	10,982	10,992	11,003	11,013	11,024
41	11,034	11,044	11,055	11,065	11,076	11,086	11,097	11,107	11,118	11,128
41.1	11,139	11,149	11,160	11,170	11,181	11,191	11,202	11,212	11,223	11,233
41.2	11,244	11,254	11,265	11,275	11,286	11,296	11,307	11,317	11,328	11,338
41.3	11,349	11,359	11,370	11,380	11,391	11,401	11,412	11,422	11,433	11,443
41.4	11,454	11,464	11,475	11,485	11,496	11,506	11,517	11,527	11,538	11,548
41.5	11,559	11,569	11,580	11,590	11,601	11,611	11,622	11,632	11,643	11,653
41.6	11,664	11,674	11,685	11,695	11,706	11,716	11,727	11,737	11,748	11,758
41.7	11,769	11,779	11,790	11,800	11,811	11,821	11,832	11,842	11,852	11,863
41.8	11,873	11,884	11,894	11,905	11,915	11,926	11,936	11,947	11,957	11,968
41.9	11,978	11,989	11,999	12,010	12,020	12,031	12,041	12,052	12,062	12,073
42	12,083	12,094	12,104	12,115	12,125	12,136	12,146	12,157	12,167	12,178
42.1	12,188	12,199	12,209	12,220	12,230	12,241	12,251	12,262	12,272	12,283
42.2	12,293	12,304	12,314	12,325	12,335	12,346	12,356	12,367	12,377	12,388
42.3	12,398	12,409	12,419	12,430	12,440	12,451	12,461	12,472	12,482	

Note: Areas between elevations 40.23 and 41.73 linearly interpolated, areas above elevation 41.73 feet linearly extrapolated



Lake Houston
February 1994 Survey
re-calculated October 2016
Prepared by: TWDB

Appendix C: Capacity curve



Lake Houston
February 1994 Survey
re-calculated October 2016
Prepared by: TWDB

Appendix D: Area curve

Appendix E

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
-0.3	0	0	0	0	0	0	0	0	0	0
-0.2	0	0	0	0	0	0	0	0	0	0
-0.1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	0	0	0	0	0	0	0	0	0	0
0.1	0	0	0	0	0	0	0	0	0	0
0.2	0	0	0	0	0	0	0	0	0	0
0.3	0	0	0	0	0	0	0	0	0	0
0.4	0	0	0	0	0	0	0	0	0	0
0.5	0	0	0	0	0	0	0	0	0	0
0.6	0	0	0	0	0	0	0	0	0	0
0.7	0	0	0	0	0	0	0	0	0	0
0.8	0	0	0	0	0	0	0	0	0	0
0.9	0	0	0	0	0	0	0	0	0	0
1.0	0	0	0	0	0	0	0	0	0	0
1.1	0	0	0	0	0	0	0	0	0	0
1.2	0	0	0	0	0	0	0	0	0	1
1.3	1	1	1	1	1	1	1	1	1	1
1.4	1	1	1	1	1	1	1	1	1	1
1.5	1	1	1	1	1	1	1	1	1	1
1.6	1	1	1	1	1	1	1	1	1	1
1.7	2	2	2	2	2	2	2	2	2	2
1.8	2	2	2	2	2	2	2	2	2	2
1.9	2	2	2	2	2	3	3	3	3	3
2.0	3	3	3	3	3	3	3	3	3	3
2.1	3	3	3	3	3	3	4	4	4	4
2.2	4	4	4	4	4	4	4	4	4	4
2.3	4	4	4	4	4	5	5	5	5	5
2.4	5	5	5	5	5	5	5	5	5	5
2.5	5	5	5	6	6	6	6	6	6	6
2.6	6	6	6	6	6	6	6	6	6	7
2.7	7	7	7	7	7	7	7	7	7	7
2.8	7	7	7	7	8	8	8	8	8	8
2.9	8	8	8	8	8	8	8	8	9	9
3.0	9	9	9	9	9	9	9	9	9	9
3.1	10	10	10	10	10	10	10	10	10	10
3.2	10	10	11	11	11	11	11	11	11	11
3.3	11	11	11	12	12	12	12	12	12	12
3.4	12	12	12	13	13	13	13	13	13	13
3.5	13	13	13	14	14	14	14	14	14	14
3.6	14	14	15	15	15	15	15	15	15	15
3.7	15	16	16	16	16	16	16	16	16	16
3.8	17	17	17	17	17	17	17	17	17	18
3.9	18	18	18	18	18	18	18	19	19	19
4	19	19	19	19	19	20	20	20	20	20
4.1	20	20	21	21	21	21	21	21	21	21
4.2	22	22	22	22	22	22	23	23	23	23
4.3	23	23	23	24	24	24	24	24	24	24
4.4	25	25	25	25	25	25	26	26	26	26
4.5	26	26	27	27	27	27	27	27	28	28
4.6	28	28	28	28	29	29	29	29	29	30
4.7	30	30	30	30	30	31	31	31	31	31
4.8	32	32	32	32	32	32	33	33	33	33
4.9	33	34	34	34	34	34	35	35	35	35

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5	35	36	36	36	36	37	37	37	37	37
5.1	38	38	38	38	38	39	39	39	39	40
5.2	40	40	40	40	41	41	41	41	42	42
5.3	42	42	42	43	43	43	43	44	44	44
5.4	44	45	45	45	45	45	46	46	46	46
5.5	47	47	47	47	48	48	48	48	49	49
5.6	49	49	50	50	50	50	51	51	51	52
5.7	52	52	52	53	53	53	53	54	54	54
5.8	54	55	55	55	56	56	56	56	57	57
5.9	57	58	58	58	58	59	59	59	60	60
6	60	60	61	61	61	62	62	62	63	63
6.1	63	63	64	64	64	65	65	65	66	66
6.2	66	67	67	67	68	68	68	69	69	69
6.3	70	70	70	71	71	72	72	72	73	73
6.4	73	74	74	74	75	75	76	76	76	77
6.5	77	78	78	78	79	79	80	80	80	81
6.6	81	82	82	82	83	83	84	84	85	85
6.7	85	86	86	87	87	88	88	88	89	89
6.8	90	90	91	91	92	92	92	93	93	94
6.9	94	95	95	96	96	97	97	98	98	99
7	99	100	100	101	101	101	102	102	103	103
7.1	104	104	105	105	106	106	107	108	108	109
7.2	109	110	110	111	111	112	112	113	113	114
7.3	114	115	116	116	117	117	118	118	119	119
7.4	120	121	121	122	122	123	124	124	125	125
7.5	126	127	127	128	128	129	130	130	131	131
7.6	132	133	133	134	135	135	136	137	137	138
7.7	139	139	140	141	141	142	143	143	144	145
7.8	145	146	147	147	148	149	150	150	151	152
7.9	152	153	154	155	155	156	157	158	158	159
8	160	160	161	162	163	163	164	165	166	167
8.1	167	168	169	170	170	171	172	173	174	174
8.2	175	176	177	178	178	179	180	181	182	182
8.3	183	184	185	186	186	187	188	189	190	191
8.4	192	192	193	194	195	196	197	197	198	199
8.5	200	201	202	203	204	204	205	206	207	208
8.6	209	210	211	211	212	213	214	215	216	217
8.7	218	219	220	221	221	222	223	224	225	226
8.8	227	228	229	230	231	232	233	234	235	236
8.9	236	237	238	239	240	241	242	243	244	245
9	246	247	248	249	250	251	252	253	254	255
9.1	256	257	258	259	260	261	262	263	264	265
9.2	266	267	269	270	271	272	273	274	275	276
9.3	277	278	279	280	281	282	283	284	286	287
9.4	288	289	290	291	292	293	294	295	297	298
9.5	299	300	301	302	303	304	305	307	308	309
9.6	310	311	312	313	315	316	317	318	319	320
9.7	321	323	324	325	326	327	329	330	331	332
9.8	333	334	336	337	338	339	340	342	343	344
9.9	345	347	348	349	350	351	353	354	355	356

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
10	358	359	360	361	363	364	365	366	368	369
10.1	370	372	373	374	375	377	378	379	381	382
10.2	383	384	386	387	388	390	391	392	394	395
10.3	396	398	399	400	402	403	404	406	407	409
10.4	410	411	413	414	415	417	418	420	421	422
10.5	424	425	427	428	430	431	432	434	435	437
10.6	438	440	441	442	444	445	447	448	450	451
10.7	453	454	456	457	459	460	462	463	465	466
10.8	468	469	471	472	474	475	477	478	480	482
10.9	483	485	486	488	489	491	493	494	496	497
11	499	501	502	504	505	507	509	510	512	513
11.1	515	517	518	520	522	523	525	527	528	530
11.2	532	533	535	537	538	540	542	544	545	547
11.3	549	550	552	554	556	557	559	561	563	564
11.4	566	568	570	572	573	575	577	579	581	582
11.5	584	586	588	590	592	593	595	597	599	601
11.6	603	605	607	608	610	612	614	616	618	620
11.7	622	624	626	628	630	632	633	635	637	639
11.8	641	643	645	647	649	651	653	655	657	659
11.9	661	663	666	668	670	672	674	676	678	680
12	682	684	686	688	690	692	694	697	699	701
12.1	703	705	707	709	711	713	716	718	720	722
12.2	724	726	728	731	733	735	737	739	742	744
12.3	746	748	750	753	755	757	759	761	764	766
12.4	768	770	773	775	777	779	782	784	786	788
12.5	791	793	795	797	800	802	804	807	809	811
12.6	814	816	818	821	823	825	828	830	833	835
12.7	837	840	842	845	847	849	852	854	857	859
12.8	861	864	866	869	871	874	876	879	881	884
12.9	886	889	891	894	896	899	901	904	906	909
13	911	914	916	919	921	924	927	929	932	934
13.1	937	939	942	945	947	950	952	955	958	960
13.2	963	966	968	971	973	976	979	981	984	987
13.3	989	992	995	998	1,000	1,003	1,006	1,008	1,011	1,014
13.4	1,017	1,019	1,022	1,025	1,027	1,030	1,033	1,036	1,039	1,041
13.5	1,044	1,047	1,050	1,052	1,055	1,058	1,061	1,064	1,066	1,069
13.6	1,072	1,075	1,078	1,081	1,083	1,086	1,089	1,092	1,095	1,098
13.7	1,101	1,104	1,106	1,109	1,112	1,115	1,118	1,121	1,124	1,127
13.8	1,130	1,133	1,136	1,138	1,141	1,144	1,147	1,150	1,153	1,156
13.9	1,159	1,162	1,165	1,168	1,171	1,174	1,177	1,180	1,183	1,186
14	1,189	1,192	1,195	1,199	1,202	1,205	1,208	1,211	1,214	1,217
14.1	1,220	1,223	1,226	1,230	1,233	1,236	1,239	1,242	1,245	1,249
14.2	1,252	1,255	1,258	1,261	1,265	1,268	1,271	1,274	1,278	1,281
14.3	1,284	1,287	1,291	1,294	1,297	1,300	1,304	1,307	1,310	1,314
14.4	1,317	1,320	1,324	1,327	1,330	1,334	1,337	1,340	1,344	1,347
14.5	1,350	1,354	1,357	1,361	1,364	1,368	1,371	1,374	1,378	1,381
14.6	1,385	1,388	1,392	1,395	1,399	1,402	1,406	1,409	1,413	1,417
14.7	1,420	1,424	1,427	1,431	1,434	1,438	1,442	1,445	1,449	1,453
14.8	1,456	1,460	1,464	1,467	1,471	1,475	1,478	1,482	1,486	1,490
14.9	1,493	1,497	1,501	1,505	1,508	1,512	1,516	1,520	1,523	1,527

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
15	1,531	1,535	1,539	1,542	1,546	1,550	1,554	1,558	1,562	1,566
15.1	1,570	1,573	1,577	1,581	1,585	1,589	1,593	1,597	1,601	1,605
15.2	1,609	1,613	1,617	1,621	1,625	1,629	1,633	1,637	1,641	1,645
15.3	1,649	1,653	1,657	1,661	1,665	1,669	1,674	1,678	1,682	1,686
15.4	1,690	1,694	1,698	1,702	1,707	1,711	1,715	1,719	1,723	1,728
15.5	1,732	1,736	1,740	1,744	1,749	1,753	1,757	1,761	1,766	1,770
15.6	1,774	1,779	1,783	1,787	1,791	1,796	1,800	1,804	1,809	1,813
15.7	1,818	1,822	1,826	1,831	1,835	1,839	1,844	1,848	1,853	1,857
15.8	1,862	1,866	1,871	1,875	1,880	1,884	1,889	1,893	1,898	1,902
15.9	1,907	1,911	1,916	1,920	1,925	1,929	1,934	1,939	1,943	1,948
16	1,952	1,957	1,962	1,966	1,971	1,976	1,980	1,985	1,990	1,994
16.1	1,999	2,004	2,008	2,013	2,018	2,023	2,027	2,032	2,037	2,042
16.2	2,046	2,051	2,056	2,061	2,066	2,070	2,075	2,080	2,085	2,090
16.3	2,095	2,100	2,104	2,109	2,114	2,119	2,124	2,129	2,134	2,139
16.4	2,144	2,149	2,154	2,159	2,164	2,169	2,174	2,179	2,184	2,189
16.5	2,194	2,199	2,204	2,209	2,214	2,219	2,224	2,229	2,234	2,239
16.6	2,244	2,249	2,255	2,260	2,265	2,270	2,275	2,280	2,286	2,291
16.7	2,296	2,301	2,306	2,312	2,317	2,322	2,327	2,333	2,338	2,343
16.8	2,348	2,354	2,359	2,364	2,370	2,375	2,380	2,386	2,391	2,396
16.9	2,402	2,407	2,412	2,418	2,423	2,429	2,434	2,439	2,445	2,450
17	2,456	2,461	2,467	2,472	2,478	2,483	2,489	2,494	2,500	2,505
17.1	2,511	2,516	2,522	2,528	2,533	2,539	2,544	2,550	2,556	2,561
17.2	2,567	2,572	2,578	2,584	2,589	2,595	2,601	2,607	2,612	2,618
17.3	2,624	2,629	2,635	2,641	2,647	2,652	2,658	2,664	2,670	2,676
17.4	2,681	2,687	2,693	2,699	2,705	2,711	2,717	2,723	2,728	2,734
17.5	2,740	2,746	2,752	2,758	2,764	2,770	2,776	2,782	2,788	2,794
17.6	2,800	2,806	2,812	2,818	2,825	2,831	2,837	2,843	2,849	2,855
17.7	2,861	2,867	2,874	2,880	2,886	2,892	2,898	2,905	2,911	2,917
17.8	2,923	2,930	2,936	2,942	2,949	2,955	2,961	2,968	2,974	2,980
17.9	2,987	2,993	3,000	3,006	3,013	3,019	3,025	3,032	3,038	3,045
18	3,052	3,058	3,065	3,071	3,078	3,084	3,091	3,098	3,104	3,111
18.1	3,118	3,124	3,131	3,138	3,144	3,151	3,158	3,165	3,171	3,178
18.2	3,185	3,192	3,199	3,205	3,212	3,219	3,226	3,233	3,240	3,247
18.3	3,254	3,261	3,268	3,275	3,282	3,289	3,296	3,303	3,310	3,317
18.4	3,324	3,331	3,338	3,346	3,353	3,360	3,367	3,374	3,382	3,389
18.5	3,396	3,404	3,411	3,418	3,426	3,433	3,440	3,448	3,455	3,463
18.6	3,470	3,478	3,485	3,493	3,500	3,508	3,515	3,523	3,530	3,538
18.7	3,546	3,553	3,561	3,569	3,576	3,584	3,592	3,600	3,607	3,615
18.8	3,623	3,631	3,639	3,646	3,654	3,662	3,670	3,678	3,686	3,694
18.9	3,702	3,710	3,718	3,726	3,734	3,742	3,750	3,758	3,767	3,775
19	3,783	3,791	3,799	3,807	3,816	3,824	3,832	3,840	3,849	3,857
19.1	3,865	3,874	3,882	3,890	3,899	3,907	3,916	3,924	3,933	3,941
19.2	3,950	3,958	3,967	3,975	3,984	3,993	4,001	4,010	4,018	4,027
19.3	4,036	4,045	4,053	4,062	4,071	4,080	4,089	4,097	4,106	4,115
19.4	4,124	4,133	4,142	4,151	4,160	4,169	4,178	4,187	4,197	4,206
19.5	4,215	4,224	4,234	4,243	4,252	4,262	4,271	4,280	4,290	4,299
19.6	4,309	4,318	4,328	4,337	4,347	4,357	4,366	4,376	4,386	4,396
19.7	4,405	4,415	4,425	4,435	4,445	4,454	4,464	4,474	4,484	4,494
19.8	4,504	4,514	4,524	4,534	4,544	4,554	4,565	4,575	4,585	4,595
19.9	4,605	4,616	4,626	4,636	4,646	4,657	4,667	4,678	4,688	4,698

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
20	4,709	4,719	4,730	4,740	4,751	4,761	4,772	4,783	4,793	4,804
20.1	4,815	4,825	4,836	4,847	4,858	4,868	4,879	4,890	4,901	4,912
20.2	4,923	4,934	4,945	4,956	4,967	4,978	4,989	5,000	5,011	5,022
20.3	5,034	5,045	5,056	5,067	5,078	5,090	5,101	5,112	5,124	5,135
20.4	5,146	5,158	5,169	5,181	5,192	5,204	5,215	5,227	5,238	5,250
20.5	5,261	5,273	5,284	5,296	5,308	5,319	5,331	5,343	5,354	5,366
20.6	5,378	5,390	5,402	5,413	5,425	5,437	5,449	5,461	5,473	5,485
20.7	5,497	5,509	5,521	5,533	5,545	5,557	5,569	5,581	5,593	5,605
20.8	5,618	5,630	5,642	5,654	5,667	5,679	5,691	5,703	5,716	5,728
20.9	5,740	5,753	5,765	5,778	5,790	5,803	5,815	5,828	5,840	5,853
21	5,865	5,878	5,891	5,903	5,916	5,929	5,941	5,954	5,967	5,980
21.1	5,992	6,005	6,018	6,031	6,044	6,057	6,070	6,083	6,096	6,109
21.2	6,122	6,135	6,148	6,161	6,174	6,187	6,200	6,213	6,227	6,240
21.3	6,253	6,266	6,280	6,293	6,306	6,320	6,333	6,346	6,360	6,373
21.4	6,387	6,400	6,414	6,427	6,441	6,454	6,468	6,481	6,495	6,509
21.5	6,522	6,536	6,550	6,564	6,577	6,591	6,605	6,619	6,633	6,647
21.6	6,661	6,675	6,688	6,702	6,717	6,731	6,745	6,759	6,773	6,787
21.7	6,801	6,815	6,830	6,844	6,858	6,872	6,887	6,901	6,915	6,930
21.8	6,944	6,959	6,973	6,988	7,002	7,017	7,032	7,046	7,061	7,076
21.9	7,090	7,105	7,120	7,135	7,149	7,164	7,179	7,194	7,209	7,224
22	7,239	7,254	7,269	7,284	7,299	7,314	7,329	7,345	7,360	7,375
22.1	7,390	7,405	7,421	7,436	7,451	7,467	7,482	7,497	7,513	7,528
22.2	7,544	7,559	7,575	7,591	7,606	7,622	7,637	7,653	7,669	7,684
22.3	7,700	7,716	7,732	7,748	7,764	7,779	7,795	7,811	7,827	7,843
22.4	7,859	7,875	7,892	7,908	7,924	7,940	7,956	7,972	7,989	8,005
22.5	8,021	8,038	8,054	8,071	8,087	8,104	8,120	8,137	8,153	8,170
22.6	8,187	8,203	8,220	8,237	8,254	8,271	8,288	8,305	8,321	8,338
22.7	8,356	8,373	8,390	8,407	8,424	8,441	8,459	8,476	8,493	8,511
22.8	8,528	8,546	8,563	8,581	8,598	8,616	8,633	8,651	8,669	8,687
22.9	8,704	8,722	8,740	8,758	8,776	8,794	8,812	8,830	8,848	8,866
23	8,884	8,903	8,921	8,939	8,957	8,976	8,994	9,013	9,031	9,050
23.1	9,068	9,087	9,106	9,124	9,143	9,162	9,180	9,199	9,218	9,237
23.2	9,256	9,275	9,294	9,313	9,332	9,351	9,370	9,390	9,409	9,428
23.3	9,447	9,467	9,486	9,506	9,525	9,545	9,564	9,584	9,604	9,623
23.4	9,643	9,663	9,683	9,703	9,723	9,743	9,763	9,783	9,803	9,823
23.5	9,843	9,863	9,884	9,904	9,924	9,945	9,965	9,985	10,006	10,026
23.6	10,047	10,068	10,088	10,109	10,130	10,151	10,171	10,192	10,213	10,234
23.7	10,255	10,276	10,297	10,319	10,340	10,361	10,382	10,403	10,425	10,446
23.8	10,468	10,489	10,511	10,532	10,554	10,575	10,597	10,619	10,641	10,662
23.9	10,684	10,706	10,728	10,750	10,772	10,794	10,816	10,838	10,860	10,883
24	10,905	10,927	10,950	10,972	10,994	11,017	11,040	11,062	11,085	11,107
24.1	11,130	11,153	11,176	11,198	11,221	11,244	11,267	11,290	11,313	11,336
24.2	11,359	11,383	11,406	11,429	11,452	11,476	11,499	11,522	11,546	11,569
24.3	11,593	11,617	11,640	11,664	11,688	11,711	11,735	11,759	11,783	11,807
24.4	11,831	11,855	11,879	11,903	11,927	11,951	11,975	12,000	12,024	12,048
24.5	12,073	12,097	12,122	12,146	12,171	12,195	12,220	12,245	12,270	12,294
24.6	12,319	12,344	12,369	12,394	12,419	12,444	12,469	12,495	12,520	12,545
24.7	12,570	12,596	12,621	12,647	12,672	12,698	12,724	12,749	12,775	12,801
24.8	12,827	12,853	12,879	12,905	12,931	12,957	12,983	13,010	13,036	13,062
24.9	13,089	13,115	13,142	13,169	13,195	13,222	13,249	13,276	13,303	13,330

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
25	13,357	13,384	13,411	13,438	13,465	13,493	13,520	13,547	13,575	13,602
25.1	13,630	13,658	13,685	13,713	13,741	13,769	13,797	13,825	13,853	13,881
25.2	13,909	13,937	13,965	13,994	14,022	14,050	14,079	14,107	14,136	14,165
25.3	14,193	14,222	14,251	14,280	14,309	14,338	14,367	14,396	14,425	14,454
25.4	14,483	14,512	14,542	14,571	14,601	14,630	14,660	14,689	14,719	14,748
25.5	14,778	14,808	14,838	14,868	14,898	14,928	14,958	14,988	15,018	15,048
25.6	15,079	15,109	15,139	15,170	15,200	15,231	15,261	15,292	15,323	15,354
25.7	15,384	15,415	15,446	15,477	15,508	15,539	15,570	15,601	15,633	15,664
25.8	15,695	15,727	15,758	15,790	15,821	15,853	15,884	15,916	15,948	15,980
25.9	16,011	16,043	16,075	16,107	16,139	16,171	16,204	16,236	16,268	16,300
26	16,333	16,365	16,398	16,430	16,463	16,496	16,528	16,561	16,594	16,627
26.1	16,660	16,693	16,726	16,759	16,792	16,825	16,859	16,892	16,925	16,959
26.2	16,992	17,026	17,059	17,093	17,127	17,161	17,194	17,228	17,262	17,296
26.3	17,330	17,364	17,399	17,433	17,467	17,501	17,536	17,570	17,605	17,639
26.4	17,674	17,709	17,743	17,778	17,813	17,848	17,883	17,918	17,953	17,988
26.5	18,023	18,058	18,094	18,129	18,164	18,200	18,235	18,271	18,307	18,342
26.6	18,378	18,414	18,450	18,485	18,521	18,557	18,593	18,630	18,666	18,702
26.7	18,738	18,775	18,811	18,847	18,884	18,920	18,957	18,994	19,030	19,067
26.8	19,104	19,141	19,177	19,214	19,251	19,288	19,325	19,363	19,400	19,437
26.9	19,474	19,512	19,549	19,586	19,624	19,662	19,699	19,737	19,774	19,812
27	19,850	19,888	19,926	19,964	20,001	20,039	20,078	20,116	20,154	20,192
27.1	20,230	20,268	20,307	20,345	20,384	20,422	20,461	20,499	20,538	20,576
27.2	20,615	20,654	20,693	20,731	20,770	20,809	20,848	20,887	20,926	20,965
27.3	21,004	21,044	21,083	21,122	21,161	21,201	21,240	21,280	21,319	21,358
27.4	21,398	21,438	21,477	21,517	21,557	21,597	21,636	21,676	21,716	21,756
27.5	21,796	21,836	21,876	21,916	21,957	21,997	22,037	22,077	22,118	22,158
27.6	22,198	22,239	22,279	22,320	22,360	22,401	22,442	22,482	22,523	22,564
27.7	22,605	22,646	22,686	22,727	22,768	22,809	22,851	22,892	22,933	22,974
27.8	23,015	23,056	23,098	23,139	23,181	23,222	23,263	23,305	23,347	23,388
27.9	23,430	23,472	23,513	23,555	23,597	23,639	23,681	23,723	23,765	23,807
28	23,849	23,891	23,933	23,976	24,018	24,060	24,102	24,145	24,187	24,230
28.1	24,272	24,315	24,358	24,400	24,443	24,486	24,529	24,571	24,614	24,657
28.2	24,700	24,743	24,786	24,829	24,873	24,916	24,959	25,002	25,046	25,089
28.3	25,133	25,176	25,220	25,263	25,307	25,350	25,394	25,438	25,482	25,526
28.4	25,569	25,613	25,657	25,701	25,746	25,790	25,834	25,878	25,922	25,967
28.5	26,011	26,055	26,100	26,144	26,189	26,233	26,278	26,322	26,367	26,412
28.6	26,457	26,501	26,546	26,591	26,636	26,681	26,726	26,771	26,816	26,861
28.7	26,907	26,952	26,997	27,042	27,088	27,133	27,179	27,224	27,270	27,315
28.8	27,361	27,406	27,452	27,498	27,544	27,590	27,635	27,681	27,727	27,773
28.9	27,819	27,865	27,912	27,958	28,004	28,050	28,097	28,143	28,189	28,236
29	28,282	28,329	28,375	28,422	28,469	28,515	28,562	28,609	28,656	28,703
29.1	28,750	28,796	28,844	28,891	28,938	28,985	29,032	29,079	29,127	29,174
29.2	29,221	29,269	29,316	29,364	29,411	29,459	29,506	29,554	29,602	29,650
29.3	29,697	29,745	29,793	29,841	29,889	29,937	29,986	30,034	30,082	30,130
29.4	30,178	30,227	30,275	30,324	30,372	30,420	30,469	30,518	30,566	30,615
29.5	30,664	30,712	30,761	30,810	30,859	30,908	30,957	31,006	31,055	31,104
29.6	31,153	31,202	31,252	31,301	31,350	31,400	31,449	31,499	31,548	31,598
29.7	31,647	31,697	31,747	31,796	31,846	31,896	31,946	31,996	32,046	32,096
29.8	32,146	32,196	32,246	32,296	32,347	32,397	32,447	32,498	32,548	32,599
29.9	32,649	32,700	32,750	32,801	32,852	32,902	32,953	33,004	33,055	33,106

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
30	33,157	33,208	33,259	33,310	33,361	33,412	33,463	33,515	33,566	33,617
30.1	33,669	33,720	33,772	33,823	33,875	33,927	33,978	34,030	34,082	34,134
30.2	34,186	34,238	34,290	34,342	34,394	34,446	34,498	34,550	34,603	34,655
30.3	34,707	34,760	34,812	34,865	34,917	34,970	35,023	35,076	35,128	35,181
30.4	35,234	35,287	35,340	35,393	35,446	35,499	35,552	35,606	35,659	35,712
30.5	35,766	35,819	35,873	35,926	35,980	36,033	36,087	36,141	36,195	36,248
30.6	36,302	36,356	36,410	36,464	36,518	36,573	36,627	36,681	36,735	36,790
30.7	36,844	36,899	36,953	37,008	37,062	37,117	37,172	37,226	37,281	37,336
30.8	37,391	37,446	37,501	37,556	37,611	37,666	37,722	37,777	37,832	37,887
30.9	37,943	37,998	38,054	38,109	38,165	38,221	38,276	38,332	38,388	38,444
31	38,500	38,556	38,612	38,668	38,724	38,780	38,836	38,893	38,949	39,005
31.1	39,062	39,118	39,175	39,232	39,288	39,345	39,402	39,459	39,515	39,572
31.2	39,629	39,686	39,743	39,801	39,858	39,915	39,972	40,030	40,087	40,144
31.3	40,202	40,259	40,317	40,375	40,432	40,490	40,548	40,606	40,664	40,722
31.4	40,780	40,838	40,896	40,954	41,012	41,070	41,129	41,187	41,245	41,304
31.5	41,362	41,421	41,480	41,538	41,597	41,656	41,715	41,773	41,832	41,891
31.6	41,950	42,009	42,068	42,128	42,187	42,246	42,305	42,365	42,424	42,483
31.7	42,543	42,602	42,662	42,722	42,781	42,841	42,901	42,961	43,021	43,081
31.8	43,141	43,201	43,261	43,321	43,381	43,442	43,502	43,562	43,623	43,683
31.9	43,744	43,805	43,865	43,926	43,987	44,048	44,108	44,169	44,230	44,291
32	44,353	44,414	44,475	44,536	44,598	44,659	44,720	44,782	44,844	44,905
32.1	44,967	45,029	45,090	45,152	45,214	45,276	45,338	45,400	45,462	45,524
32.2	45,586	45,649	45,711	45,773	45,836	45,898	45,961	46,023	46,086	46,149
32.3	46,211	46,274	46,337	46,400	46,463	46,526	46,589	46,652	46,715	46,778
32.4	46,842	46,905	46,968	47,032	47,095	47,159	47,222	47,286	47,350	47,413
32.5	47,477	47,541	47,605	47,669	47,733	47,797	47,861	47,925	47,989	48,053
32.6	48,118	48,182	48,246	48,311	48,375	48,440	48,504	48,569	48,634	48,698
32.7	48,763	48,828	48,893	48,958	49,023	49,088	49,153	49,218	49,283	49,348
32.8	49,414	49,479	49,544	49,610	49,675	49,741	49,807	49,872	49,938	50,004
32.9	50,069	50,135	50,201	50,267	50,333	50,399	50,465	50,531	50,598	50,664
33	50,730	50,796	50,863	50,929	50,996	51,062	51,129	51,196	51,262	51,329
33.1	51,396	51,463	51,530	51,597	51,664	51,731	51,798	51,865	51,932	52,000
33.2	52,067	52,134	52,202	52,269	52,337	52,404	52,472	52,540	52,607	52,675
33.3	52,743	52,811	52,879	52,947	53,015	53,083	53,151	53,219	53,287	53,356
33.4	53,424	53,492	53,561	53,629	53,698	53,766	53,835	53,904	53,972	54,041
33.5	54,110	54,179	54,248	54,317	54,386	54,455	54,524	54,593	54,662	54,732
33.6	54,801	54,870	54,940	55,009	55,079	55,148	55,218	55,288	55,357	55,427
33.7	55,497	55,567	55,637	55,706	55,776	55,847	55,917	55,987	56,057	56,127
33.8	56,197	56,268	56,338	56,408	56,479	56,549	56,620	56,691	56,761	56,832
33.9	56,903	56,973	57,044	57,115	57,186	57,257	57,328	57,399	57,470	57,541
34	57,612	57,684	57,755	57,826	57,898	57,969	58,041	58,112	58,184	58,255
34.1	58,327	58,399	58,471	58,542	58,614	58,686	58,758	58,830	58,902	58,974
34.2	59,046	59,119	59,191	59,263	59,335	59,408	59,480	59,553	59,625	59,698
34.3	59,771	59,843	59,916	59,989	60,062	60,135	60,208	60,281	60,354	60,427
34.4	60,500	60,573	60,646	60,720	60,793	60,867	60,940	61,014	61,087	61,161
34.5	61,234	61,308	61,382	61,456	61,530	61,604	61,678	61,752	61,826	61,900
34.6	61,974	62,048	62,123	62,197	62,271	62,346	62,420	62,495	62,569	62,644
34.7	62,719	62,793	62,868	62,943	63,018	63,093	63,168	63,243	63,318	63,393
34.8	63,468	63,543	63,618	63,694	63,769	63,844	63,920	63,995	64,071	64,146
34.9	64,222	64,298	64,373	64,449	64,525	64,601	64,677	64,753	64,828	64,905

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
35	64,981	65,057	65,133	65,209	65,285	65,362	65,438	65,514	65,591	65,667
35.1	65,744	65,820	65,897	65,973	66,050	66,127	66,204	66,280	66,357	66,434
35.2	66,511	66,588	66,665	66,742	66,819	66,896	66,973	67,051	67,128	67,205
35.3	67,282	67,360	67,437	67,515	67,592	67,670	67,747	67,825	67,903	67,980
35.4	68,058	68,136	68,214	68,292	68,370	68,448	68,526	68,604	68,682	68,760
35.5	68,838	68,916	68,994	69,073	69,151	69,229	69,308	69,386	69,465	69,543
35.6	69,622	69,700	69,779	69,858	69,936	70,015	70,094	70,173	70,252	70,331
35.7	70,410	70,489	70,568	70,647	70,726	70,805	70,884	70,963	71,043	71,122
35.8	71,201	71,281	71,360	71,440	71,519	71,599	71,678	71,758	71,838	71,917
35.9	71,997	72,077	72,157	72,237	72,317	72,397	72,477	72,557	72,637	72,717
36	72,797	72,877	72,957	73,038	73,118	73,198	73,279	73,359	73,439	73,520
36.1	73,600	73,681	73,762	73,842	73,923	74,004	74,085	74,165	74,246	74,327
36.2	74,408	74,489	74,570	74,651	74,732	74,814	74,895	74,976	75,057	75,139
36.3	75,220	75,302	75,383	75,465	75,546	75,628	75,710	75,791	75,873	75,955
36.4	76,037	76,119	76,201	76,283	76,365	76,447	76,529	76,611	76,694	76,776
36.5	76,858	76,941	77,023	77,106	77,188	77,271	77,354	77,437	77,519	77,602
36.6	77,685	77,768	77,851	77,934	78,017	78,100	78,183	78,266	78,350	78,433
36.7	78,516	78,600	78,683	78,766	78,850	78,933	79,017	79,101	79,184	79,268
36.8	79,352	79,435	79,519	79,603	79,687	79,771	79,855	79,939	80,023	80,107
36.9	80,191	80,275	80,359	80,443	80,528	80,612	80,696	80,781	80,865	80,950
37	81,034	81,119	81,203	81,288	81,373	81,457	81,542	81,627	81,712	81,797
37.1	81,882	81,967	82,052	82,137	82,223	82,308	82,393	82,479	82,564	82,650
37.2	82,735	82,821	82,907	82,992	83,078	83,164	83,250	83,336	83,422	83,508
37.3	83,594	83,680	83,766	83,852	83,939	84,025	84,111	84,198	84,284	84,371
37.4	84,457	84,544	84,631	84,718	84,804	84,891	84,978	85,065	85,152	85,239
37.5	85,326	85,414	85,501	85,588	85,675	85,763	85,850	85,938	86,025	86,113
37.6	86,201	86,288	86,376	86,464	86,552	86,640	86,728	86,816	86,904	86,992
37.7	87,080	87,168	87,257	87,345	87,433	87,522	87,610	87,699	87,787	87,876
37.8	87,965	88,054	88,142	88,231	88,320	88,409	88,498	88,587	88,676	88,766
37.9	88,855	88,944	89,033	89,123	89,212	89,302	89,391	89,481	89,571	89,660
38	89,750	89,840	89,930	90,020	90,110	90,200	90,290	90,380	90,470	90,560
38.1	90,651	90,741	90,831	90,922	91,012	91,103	91,193	91,284	91,375	91,466
38.2	91,556	91,647	91,738	91,829	91,920	92,011	92,102	92,194	92,285	92,376
38.3	92,467	92,559	92,650	92,742	92,833	92,925	93,017	93,108	93,200	93,292
38.4	93,384	93,476	93,568	93,660	93,752	93,844	93,936	94,028	94,121	94,213
38.5	94,305	94,398	94,490	94,583	94,675	94,768	94,861	94,953	95,046	95,139
38.6	95,232	95,325	95,418	95,511	95,604	95,697	95,791	95,884	95,977	96,071
38.7	96,164	96,258	96,351	96,445	96,538	96,632	96,726	96,820	96,914	97,008
38.8	97,101	97,196	97,290	97,384	97,478	97,572	97,666	97,761	97,855	97,950
38.9	98,044	98,139	98,233	98,328	98,423	98,517	98,612	98,707	98,802	98,897
39	98,992	99,087	99,182	99,277	99,373	99,468	99,563	99,659	99,754	99,849
39.1	99,945	100,041	100,136	100,232	100,328	100,424	100,519	100,615	100,711	100,807
39.2	100,903	101,000	101,096	101,192	101,288	101,385	101,481	101,577	101,674	101,770
39.3	101,867	101,964	102,060	102,157	102,254	102,351	102,448	102,545	102,642	102,739
39.4	102,836	102,933	103,030	103,128	103,225	103,322	103,420	103,517	103,615	103,712
39.5	103,810	103,908	104,006	104,103	104,201	104,299	104,397	104,495	104,593	104,691
39.6	104,790	104,888	104,986	105,084	105,183	105,281	105,380	105,478	105,577	105,675
39.7	105,774	105,873	105,972	106,071	106,170	106,268	106,367	106,467	106,566	106,665
39.8	106,764	106,863	106,963	107,062	107,162	107,261	107,361	107,460	107,560	107,660
39.9	107,759	107,859	107,959	108,059	108,159	108,259	108,359	108,459	108,559	108,659

Appendix E (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
40	108,760	108,860	108,960	109,061	109,161	109,262	109,362	109,463	109,564	109,665
40.1	109,765	109,866	109,967	110,068	110,169	110,270	110,371	110,473	110,574	110,675
40.2	110,776	110,878	110,979	111,081	111,182	111,284	111,385	111,487	111,589	111,691
40.3	111,793	111,894	111,996	112,098	112,201	112,303	112,405	112,507	112,609	112,712
40.4	112,814	112,916	113,019	113,122	113,224	113,327	113,429	113,532	113,635	113,738
40.5	113,841	113,944	114,047	114,150	114,253	114,356	114,459	114,563	114,666	114,769
40.6	114,873	114,976	115,080	115,183	115,287	115,391	115,494	115,598	115,702	115,806
40.7	115,910	116,014	116,118	116,222	116,326	116,431	116,535	116,639	116,744	116,848
40.8	116,953	117,057	117,162	117,266	117,371	117,476	117,581	117,685	117,790	117,895
40.9	118,000	118,105	118,210	118,316	118,421	118,526	118,631	118,737	118,842	118,948
41	119,053	119,159	119,265	119,370	119,476	119,582	119,688	119,794	119,900	120,006
41.1	120,112	120,218	120,324	120,430	120,536	120,643	120,749	120,856	120,962	121,069
41.2	121,175	121,282	121,389	121,495	121,602	121,709	121,816	121,923	122,030	122,137
41.3	122,244	122,351	122,458	122,566	122,673	122,780	122,888	122,995	123,103	123,210
41.4	123,318	123,426	123,533	123,641	123,749	123,857	123,965	124,073	124,181	124,289
41.5	124,397	124,506	124,614	124,722	124,831	124,939	125,047	125,156	125,265	125,373
41.6	125,482	125,591	125,699	125,808	125,917	126,026	126,135	126,244	126,353	126,463
41.7	126,572	126,681	126,790	126,900	127,009	127,119	127,228	127,338	127,447	127,557
41.8	127,667	127,777	127,887	127,996	128,106	128,216	128,326	128,437	128,547	128,657
41.9	128,767	128,878	128,988	129,098	129,209	129,319	129,430	129,541	129,651	129,762
42	129,873	129,984	130,095	130,206	130,317	130,428	130,539	130,650	130,761	130,872
42.1	130,984	131,095	131,207	131,318	131,430	131,541	131,653	131,764	131,876	131,988
42.2	132,100	132,212	132,324	132,436	132,548	132,660	132,772	132,884	132,997	133,109
42.3	133,221	133,334	133,446	133,559	133,671	133,784	133,897	134,009	134,122	

Note: Capacities above elevation 37.00 feet calculated from interpolated areas and extrapolated areas

Appendix F

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
-0.3	0	0	0	0	0	0	0	0	0	0
-0.2	0	0	0	0	0	0	0	0	0	0
-0.1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	0	0	0	0	0	0	0	0	0	0
0.1	0	0	0	0	0	0	0	0	0	0
0.2	0	0	0	0	0	0	0	0	0	0
0.3	0	0	0	0	0	0	0	0	0	0
0.4	0	0	0	0	0	0	0	0	0	0
0.5	0	0	0	0	0	0	0	0	0	0
0.6	0	0	0	0	0	0	0	0	0	0
0.7	0	0	0	0	0	0	0	0	0	0
0.8	0	0	0	0	0	0	0	0	1	1
0.9	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1
1.1	1	1	1	1	1	1	1	1	1	1
1.2	1	1	1	1	1	1	1	1	1	1
1.3	1	1	1	1	2	2	2	2	2	2
1.4	2	2	2	2	2	2	2	2	2	3
1.5	3	3	3	3	3	3	3	3	3	3
1.6	3	3	3	3	3	3	3	3	3	4
1.7	4	4	4	4	4	4	4	4	4	4
1.8	4	4	4	4	4	4	4	4	4	4
1.9	4	4	4	4	4	4	4	4	4	5
2	5	5	5	5	5	5	5	5	5	5
2.1	5	5	5	5	5	5	5	5	5	5
2.2	5	5	5	5	5	5	5	5	5	5
2.3	5	5	5	5	5	6	6	6	6	6
2.4	6	6	6	6	6	6	6	6	6	6
2.5	6	6	6	6	6	6	6	6	6	6
2.6	6	6	6	6	6	6	6	6	6	6
2.7	6	6	6	6	6	7	7	7	7	7
2.8	7	7	7	7	7	7	7	7	7	7
2.9	7	7	7	7	8	8	8	8	8	8
3	8	8	8	8	8	8	8	8	8	8
3.1	8	8	8	9	9	9	9	9	9	9
3.2	9	9	9	9	9	9	9	9	9	9
3.3	9	9	9	9	10	10	10	10	10	10
3.4	10	10	10	10	10	10	10	10	10	10
3.5	10	10	10	10	10	10	11	11	11	11
3.6	11	11	11	11	11	11	11	11	11	11
3.7	11	11	11	11	11	11	11	12	12	12
3.8	12	12	12	12	12	12	12	12	12	12
3.9	12	12	12	12	12	12	12	12	13	13
4	13	13	13	13	13	13	13	13	13	13
4.1	13	13	14	14	14	14	14	14	14	14
4.2	14	14	14	14	15	15	15	15	15	15
4.3	15	15	15	15	15	15	15	16	16	16
4.4	16	16	16	16	16	16	16	16	16	16
4.5	17	17	17	17	17	17	17	17	17	17
4.6	17	17	17	18	18	18	18	18	18	18
4.7	18	18	18	18	18	18	18	19	19	19
4.8	19	19	19	19	19	19	19	19	19	20
4.9	20	20	20	20	20	20	20	20	20	20

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5	21	21	21	21	21	21	21	21	21	21
5.1	21	21	21	22	22	22	22	22	22	22
5.2	22	22	22	22	22	22	22	23	23	23
5.3	23	23	23	23	23	23	23	23	23	23
5.4	24	24	24	24	24	24	24	24	24	24
5.5	25	25	25	25	25	25	25	25	25	25
5.6	26	26	26	26	26	26	26	26	26	26
5.7	26	27	27	27	27	27	27	27	27	27
5.8	27	27	28	28	28	28	28	28	28	28
5.9	28	28	29	29	29	29	29	29	29	29
6	29	29	30	30	30	30	30	31	31	31
6.1	31	31	32	32	32	32	32	32	33	33
6.2	33	33	33	33	34	34	34	34	34	34
6.3	35	35	35	35	35	36	36	36	36	37
6.4	37	37	37	38	38	38	38	39	39	39
6.5	39	39	40	40	40	40	40	41	41	41
6.6	41	41	42	42	42	42	42	43	43	43
6.7	43	43	43	44	44	44	44	44	44	45
6.8	45	45	45	45	45	46	46	46	46	46
6.9	46	47	47	47	47	47	47	48	48	48
7	48	48	48	49	49	49	49	49	50	50
7.1	50	50	51	51	51	51	51	52	52	52
7.2	52	52	53	53	53	53	54	54	54	54
7.3	55	55	55	56	56	56	56	57	57	57
7.4	58	58	58	59	59	59	59	60	60	60
7.5	60	61	61	61	62	62	62	62	63	63
7.6	63	63	64	64	64	64	65	65	65	66
7.7	66	66	66	67	67	68	68	68	69	69
7.8	69	70	70	70	71	71	71	71	72	72
7.9	72	72	73	73	73	73	74	74	74	74
8	75	75	75	75	76	76	76	76	77	77
8.1	77	77	78	78	78	78	78	79	79	79
8.2	79	80	80	80	80	81	81	81	81	82
8.3	82	82	82	83	83	83	83	84	84	84
8.4	84	85	85	85	85	85	86	86	86	86
8.5	86	87	87	87	87	88	88	88	88	88
8.6	89	89	89	89	90	90	90	90	91	91
8.7	91	91	91	92	92	92	92	93	93	93
8.8	93	94	94	94	94	95	95	95	96	96
8.9	96	97	97	97	97	98	98	98	98	99
9	99	99	99	99	100	100	100	100	101	101
9.1	101	101	102	102	102	102	103	103	103	103
9.2	103	104	104	104	105	105	105	106	106	106
9.3	106	107	107	107	107	108	108	108	108	109
9.4	109	109	109	110	110	110	110	111	111	111
9.5	111	111	112	112	112	112	113	113	113	113
9.6	114	114	114	115	115	115	115	116	116	116
9.7	116	117	117	117	118	118	118	118	119	119
9.8	119	119	120	120	120	121	121	121	121	122
9.9	122	122	122	123	123	123	123	124	124	124

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
10	125	125	125	126	126	126	126	127	127	127
10.1	128	128	128	128	129	129	129	129	130	130
10.2	130	131	131	131	132	132	132	133	133	134
10.3	134	134	135	135	135	136	136	136	137	137
10.4	137	138	138	138	139	139	139	140	140	141
10.5	141	141	142	142	142	143	143	144	144	144
10.6	145	145	145	146	146	146	147	147	147	148
10.7	148	149	149	149	150	150	150	151	151	151
10.8	152	152	153	153	153	154	154	155	155	155
10.9	156	156	157	157	157	158	158	158	159	159
11	160	160	161	161	162	162	162	163	163	164
11.1	164	164	165	165	166	166	166	167	167	168
11.2	168	168	169	170	170	170	171	171	172	172
11.3	173	173	174	174	174	175	175	176	176	177
11.4	177	178	178	179	179	180	180	181	181	182
11.5	183	183	184	184	185	185	186	186	187	187
11.6	188	188	189	189	190	190	191	191	192	193
11.7	193	194	194	195	195	196	197	197	198	198
11.8	199	199	199	200	200	201	201	202	202	202
11.9	203	203	204	204	204	205	205	206	206	207
12	207	207	208	208	209	209	209	210	210	211
12.1	211	211	212	212	213	213	214	214	214	215
12.2	215	216	216	217	217	217	218	218	219	219
12.3	220	220	221	221	221	222	222	223	223	223
12.4	224	224	224	225	225	226	226	226	227	227
12.5	228	228	229	230	230	231	231	232	233	233
12.6	234	234	235	235	236	236	237	237	238	238
12.7	239	239	240	240	241	241	242	242	243	243
12.8	244	244	245	245	246	246	246	247	247	248
12.9	249	249	250	250	251	251	252	252	253	253
13	254	254	255	255	256	256	257	257	257	258
13.1	258	259	259	260	260	261	262	262	262	263
13.2	263	264	264	265	265	266	266	267	267	268
13.3	268	269	269	270	270	271	271	271	272	272
13.4	273	273	274	274	275	275	276	276	277	277
13.5	278	278	279	279	280	280	281	281	282	282
13.6	283	283	284	284	285	285	286	286	287	287
13.7	288	288	289	289	290	290	291	291	292	292
13.8	293	293	294	294	295	295	296	296	297	297
13.9	298	299	299	300	301	302	302	303	304	304
14	305	306	307	308	308	309	310	310	311	312
14.1	312	313	314	314	315	316	316	317	318	318
14.2	319	320	320	321	322	322	323	324	324	325
14.3	325	326	327	327	328	329	329	330	331	331
14.4	332	333	333	334	335	336	336	337	338	339
14.5	340	341	342	342	343	344	345	346	347	347
14.6	348	349	350	351	351	352	353	354	355	356
14.7	357	358	359	360	361	362	363	364	364	365
14.8	366	367	367	368	369	370	371	371	372	373
14.9	374	374	375	376	377	377	378	379	380	380

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
15	381	382	383	384	385	386	386	387	388	389
15.1	390	391	391	392	393	394	394	395	396	397
15.2	397	398	399	400	401	401	402	403	404	405
15.3	405	406	407	408	409	410	410	411	412	413
15.4	414	414	415	416	417	417	418	419	420	420
15.5	421	422	423	424	424	425	426	427	427	428
15.6	429	430	431	431	432	433	434	434	435	436
15.7	437	438	438	439	440	441	442	443	444	444
15.8	445	446	447	448	449	450	450	451	452	453
15.9	454	455	456	456	457	458	459	460	460	461
16	462	463	464	465	465	466	467	468	469	469
16.1	470	471	472	473	473	474	475	476	477	478
16.2	478	479	480	481	482	482	483	484	485	486
16.3	486	487	488	489	490	490	491	492	493	494
16.4	495	495	496	497	498	499	500	501	501	502
16.5	503	504	505	506	506	507	508	509	510	511
16.6	512	513	514	515	515	516	517	518	519	520
16.7	521	521	522	523	524	525	525	526	527	528
16.8	529	529	530	531	532	533	533	534	535	536
16.9	537	538	538	539	540	541	542	543	544	545
17	546	547	548	549	550	551	551	552	553	554
17.1	555	556	557	558	559	560	561	561	562	563
17.2	564	565	566	567	568	569	569	570	571	572
17.3	573	574	575	576	577	578	579	580	581	582
17.4	583	584	585	586	587	588	590	591	592	593
17.5	594	595	596	597	598	599	600	602	603	604
17.6	605	606	607	608	609	610	611	613	614	615
17.7	616	617	618	619	620	622	623	624	625	626
17.8	627	629	630	631	632	633	635	636	638	639
17.9	640	642	643	644	645	647	648	650	651	652
18	653	655	656	657	659	660	661	663	664	666
18.1	667	668	670	671	672	674	675	677	678	680
18.2	681	682	684	685	687	688	689	691	693	694
18.3	696	697	699	701	702	704	706	708	710	711
18.4	713	715	716	718	720	721	723	725	726	728
18.5	730	731	733	735	736	738	740	741	743	745
18.6	746	748	750	751	753	755	757	758	760	762
18.7	764	766	768	770	771	773	775	777	779	781
18.8	782	784	786	787	789	791	792	794	796	798
18.9	800	801	803	805	807	808	810	812	813	815
19	817	819	820	822	824	826	827	829	831	833
19.1	834	836	838	840	841	843	845	847	849	851
19.2	852	854	856	858	860	862	863	865	867	869
19.3	871	873	875	878	880	882	885	887	890	892
19.4	895	898	901	904	907	910	913	916	918	921
19.5	924	927	930	932	935	938	940	943	946	949
19.6	951	954	956	959	962	965	967	970	972	975
19.7	977	979	982	984	986	989	991	993	996	998
19.8	1,000	1,003	1,005	1,008	1,010	1,012	1,014	1,017	1,019	1,021
19.9	1,023	1,026	1,028	1,030	1,032	1,034	1,037	1,039	1,041	1,043

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
20	1,046	1,048	1,051	1,053	1,056	1,058	1,060	1,063	1,065	1,067
20.1	1,070	1,072	1,075	1,077	1,080	1,082	1,085	1,087	1,090	1,092
20.2	1,095	1,097	1,100	1,102	1,105	1,107	1,109	1,112	1,114	1,116
20.3	1,118	1,120	1,122	1,124	1,126	1,128	1,130	1,132	1,134	1,136
20.4	1,138	1,140	1,142	1,144	1,146	1,148	1,150	1,152	1,154	1,156
20.5	1,158	1,160	1,162	1,164	1,166	1,168	1,170	1,172	1,174	1,176
20.6	1,178	1,180	1,182	1,184	1,186	1,188	1,190	1,192	1,194	1,196
20.7	1,198	1,200	1,202	1,204	1,206	1,208	1,210	1,212	1,214	1,216
20.8	1,218	1,220	1,222	1,225	1,227	1,229	1,231	1,233	1,235	1,237
20.9	1,239	1,241	1,243	1,245	1,247	1,249	1,251	1,253	1,255	1,257
21	1,260	1,262	1,264	1,266	1,268	1,271	1,273	1,275	1,277	1,279
21.1	1,281	1,283	1,286	1,288	1,290	1,292	1,295	1,297	1,299	1,301
21.2	1,303	1,306	1,308	1,310	1,312	1,314	1,316	1,318	1,321	1,323
21.3	1,325	1,327	1,329	1,331	1,333	1,335	1,338	1,340	1,342	1,344
21.4	1,346	1,349	1,351	1,353	1,355	1,358	1,360	1,362	1,364	1,367
21.5	1,369	1,372	1,374	1,377	1,379	1,382	1,384	1,387	1,389	1,392
21.6	1,394	1,397	1,399	1,401	1,404	1,406	1,408	1,411	1,413	1,415
21.7	1,418	1,420	1,423	1,426	1,429	1,432	1,435	1,438	1,441	1,444
21.8	1,446	1,449	1,452	1,455	1,457	1,460	1,462	1,465	1,468	1,471
21.9	1,473	1,476	1,478	1,481	1,484	1,486	1,489	1,491	1,494	1,497
22	1,499	1,502	1,504	1,507	1,510	1,512	1,515	1,517	1,520	1,522
22.1	1,525	1,527	1,530	1,532	1,535	1,537	1,540	1,542	1,545	1,548
22.2	1,550	1,553	1,556	1,558	1,561	1,564	1,566	1,569	1,572	1,574
22.3	1,577	1,580	1,583	1,585	1,588	1,591	1,594	1,597	1,600	1,603
22.4	1,606	1,609	1,612	1,614	1,617	1,620	1,623	1,626	1,629	1,632
22.5	1,636	1,639	1,642	1,646	1,649	1,653	1,656	1,660	1,663	1,667
22.6	1,670	1,674	1,678	1,681	1,685	1,689	1,692	1,696	1,700	1,704
22.7	1,707	1,711	1,715	1,719	1,722	1,726	1,730	1,734	1,737	1,741
22.8	1,744	1,748	1,752	1,755	1,759	1,762	1,766	1,770	1,773	1,777
22.9	1,781	1,784	1,788	1,792	1,796	1,800	1,804	1,808	1,812	1,816
23	1,819	1,823	1,827	1,831	1,835	1,839	1,843	1,847	1,851	1,854
23.1	1,858	1,862	1,866	1,870	1,874	1,877	1,881	1,885	1,888	1,892
23.2	1,896	1,899	1,903	1,907	1,911	1,915	1,919	1,922	1,926	1,930
23.3	1,935	1,939	1,943	1,948	1,952	1,957	1,962	1,966	1,970	1,974
23.4	1,978	1,982	1,987	1,991	1,995	1,999	2,003	2,007	2,012	2,016
23.5	2,020	2,024	2,028	2,032	2,036	2,040	2,044	2,048	2,052	2,056
23.6	2,061	2,065	2,069	2,074	2,078	2,082	2,086	2,090	2,095	2,099
23.7	2,103	2,107	2,111	2,115	2,119	2,123	2,127	2,131	2,136	2,140
23.8	2,145	2,149	2,153	2,158	2,162	2,166	2,170	2,174	2,178	2,182
23.9	2,186	2,191	2,195	2,199	2,203	2,208	2,212	2,217	2,221	2,225
24	2,229	2,234	2,238	2,242	2,247	2,251	2,255	2,260	2,264	2,269
24.1	2,273	2,277	2,281	2,286	2,290	2,294	2,298	2,302	2,306	2,310
24.2	2,314	2,318	2,322	2,327	2,331	2,335	2,339	2,344	2,348	2,352
24.3	2,356	2,361	2,365	2,369	2,373	2,378	2,382	2,386	2,391	2,395
24.4	2,399	2,404	2,408	2,412	2,416	2,421	2,425	2,429	2,434	2,438
24.5	2,442	2,447	2,451	2,456	2,460	2,465	2,469	2,474	2,479	2,483
24.6	2,488	2,492	2,497	2,502	2,507	2,511	2,516	2,521	2,526	2,531
24.7	2,536	2,542	2,547	2,553	2,558	2,564	2,569	2,575	2,580	2,586
24.8	2,591	2,597	2,603	2,608	2,614	2,620	2,625	2,631	2,637	2,643
24.9	2,649	2,655	2,660	2,666	2,672	2,678	2,684	2,690	2,695	2,701

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
25	2,707	2,712	2,718	2,723	2,729	2,734	2,739	2,745	2,750	2,755
25.1	2,761	2,766	2,772	2,777	2,783	2,789	2,794	2,800	2,805	2,811
25.2	2,816	2,822	2,827	2,833	2,839	2,844	2,850	2,855	2,861	2,867
25.3	2,872	2,877	2,883	2,888	2,893	2,899	2,904	2,909	2,914	2,919
25.4	2,925	2,930	2,935	2,941	2,946	2,951	2,957	2,962	2,967	2,973
25.5	2,978	2,983	2,989	2,994	2,999	3,004	3,010	3,015	3,020	3,025
25.6	3,030	3,035	3,040	3,046	3,051	3,056	3,062	3,067	3,073	3,078
25.7	3,084	3,089	3,094	3,100	3,105	3,110	3,115	3,120	3,125	3,130
25.8	3,135	3,140	3,146	3,151	3,156	3,161	3,166	3,171	3,176	3,182
25.9	3,187	3,193	3,198	3,203	3,209	3,214	3,219	3,225	3,230	3,236
26	3,241	3,247	3,252	3,258	3,264	3,269	3,275	3,280	3,286	3,291
26.1	3,297	3,302	3,308	3,313	3,319	3,324	3,330	3,336	3,341	3,347
26.2	3,353	3,359	3,364	3,370	3,376	3,381	3,387	3,393	3,398	3,404
26.3	3,409	3,414	3,420	3,426	3,431	3,437	3,442	3,448	3,453	3,459
26.4	3,464	3,469	3,475	3,481	3,487	3,492	3,498	3,504	3,509	3,515
26.5	3,520	3,526	3,532	3,537	3,543	3,548	3,554	3,559	3,564	3,570
26.6	3,576	3,581	3,587	3,592	3,597	3,602	3,608	3,613	3,618	3,624
26.7	3,629	3,634	3,639	3,644	3,649	3,654	3,660	3,665	3,670	3,675
26.8	3,681	3,686	3,691	3,696	3,701	3,707	3,712	3,717	3,722	3,727
26.9	3,732	3,736	3,741	3,746	3,751	3,756	3,761	3,766	3,770	3,775
27	3,780	3,784	3,789	3,794	3,798	3,803	3,807	3,812	3,817	3,821
27.1	3,826	3,831	3,835	3,840	3,845	3,849	3,854	3,858	3,863	3,867
27.2	3,872	3,876	3,880	3,885	3,889	3,893	3,898	3,902	3,906	3,911
27.3	3,915	3,919	3,923	3,928	3,932	3,936	3,940	3,945	3,949	3,954
27.4	3,958	3,963	3,967	3,972	3,976	3,980	3,985	3,989	3,993	3,998
27.5	4,002	4,006	4,011	4,015	4,019	4,023	4,027	4,031	4,035	4,039
27.6	4,043	4,047	4,051	4,055	4,060	4,064	4,068	4,072	4,076	4,080
27.7	4,084	4,088	4,092	4,096	4,100	4,105	4,109	4,113	4,117	4,121
27.8	4,125	4,130	4,134	4,138	4,142	4,147	4,151	4,156	4,160	4,164
27.9	4,169	4,173	4,177	4,182	4,186	4,191	4,195	4,200	4,204	4,208
28	4,213	4,217	4,221	4,226	4,230	4,234	4,239	4,243	4,247	4,252
28.1	4,256	4,260	4,265	4,269	4,273	4,278	4,283	4,287	4,292	4,297
28.2	4,301	4,306	4,311	4,315	4,319	4,324	4,328	4,333	4,337	4,342
28.3	4,346	4,351	4,356	4,360	4,365	4,369	4,374	4,378	4,383	4,387
28.4	4,392	4,396	4,401	4,405	4,409	4,414	4,418	4,422	4,427	4,431
28.5	4,435	4,439	4,444	4,448	4,452	4,457	4,461	4,466	4,470	4,474
28.6	4,479	4,483	4,487	4,491	4,496	4,500	4,504	4,509	4,513	4,517
28.7	4,522	4,526	4,530	4,534	4,539	4,543	4,547	4,551	4,555	4,559
28.8	4,564	4,568	4,573	4,577	4,581	4,585	4,590	4,594	4,598	4,602
28.9	4,607	4,611	4,615	4,620	4,624	4,629	4,633	4,637	4,642	4,646
29	4,651	4,655	4,660	4,664	4,668	4,673	4,677	4,682	4,686	4,691
29.1	4,695	4,699	4,704	4,708	4,712	4,717	4,721	4,726	4,730	4,735
29.2	4,739	4,744	4,749	4,753	4,758	4,763	4,768	4,772	4,777	4,782
29.3	4,787	4,791	4,796	4,800	4,805	4,809	4,814	4,818	4,822	4,827
29.4	4,831	4,835	4,840	4,844	4,849	4,853	4,857	4,862	4,866	4,870
29.5	4,875	4,879	4,883	4,887	4,892	4,896	4,900	4,904	4,909	4,913
29.6	4,918	4,922	4,927	4,931	4,936	4,940	4,945	4,949	4,954	4,958
29.7	4,963	4,968	4,972	4,977	4,982	4,986	4,991	4,995	5,000	5,004
29.8	5,009	5,013	5,018	5,023	5,027	5,032	5,036	5,040	5,045	5,049
29.9	5,053	5,058	5,062	5,067	5,071	5,076	5,080	5,085	5,090	5,094

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
30	5,099	5,104	5,108	5,113	5,118	5,122	5,127	5,132	5,136	5,141
30.1	5,145	5,150	5,155	5,160	5,164	5,169	5,174	5,178	5,183	5,188
30.2	5,192	5,197	5,202	5,207	5,211	5,216	5,221	5,226	5,231	5,236
30.3	5,241	5,246	5,251	5,256	5,261	5,266	5,271	5,276	5,281	5,286
30.4	5,291	5,296	5,301	5,306	5,311	5,316	5,321	5,327	5,332	5,337
30.5	5,342	5,347	5,352	5,356	5,361	5,366	5,371	5,376	5,381	5,386
30.6	5,391	5,397	5,402	5,407	5,412	5,417	5,423	5,428	5,433	5,438
30.7	5,444	5,449	5,454	5,459	5,464	5,470	5,475	5,480	5,484	5,489
30.8	5,494	5,499	5,504	5,508	5,513	5,518	5,523	5,529	5,534	5,539
30.9	5,544	5,549	5,554	5,559	5,564	5,569	5,574	5,579	5,584	5,589
31	5,594	5,600	5,605	5,610	5,616	5,621	5,627	5,632	5,638	5,644
31.1	5,649	5,654	5,659	5,664	5,669	5,675	5,680	5,685	5,690	5,695
31.2	5,700	5,705	5,710	5,716	5,721	5,726	5,731	5,736	5,741	5,746
31.3	5,751	5,756	5,761	5,767	5,772	5,777	5,782	5,787	5,792	5,798
31.4	5,803	5,808	5,813	5,818	5,823	5,828	5,833	5,838	5,843	5,848
31.5	5,853	5,858	5,863	5,868	5,873	5,878	5,883	5,888	5,893	5,898
31.6	5,903	5,907	5,912	5,917	5,922	5,927	5,932	5,937	5,942	5,947
31.7	5,953	5,958	5,963	5,968	5,973	5,978	5,983	5,988	5,994	5,999
31.8	6,005	6,010	6,015	6,021	6,026	6,031	6,036	6,042	6,047	6,053
31.9	6,059	6,065	6,070	6,076	6,081	6,087	6,093	6,098	6,104	6,109
32	6,115	6,120	6,126	6,131	6,137	6,142	6,148	6,153	6,159	6,164
32.1	6,169	6,175	6,180	6,186	6,191	6,197	6,202	6,207	6,213	6,218
32.2	6,223	6,229	6,234	6,239	6,245	6,250	6,255	6,261	6,266	6,271
32.3	6,276	6,282	6,287	6,292	6,298	6,303	6,308	6,313	6,318	6,323
32.4	6,328	6,333	6,339	6,344	6,349	6,354	6,359	6,365	6,369	6,374
32.5	6,379	6,384	6,389	6,394	6,399	6,404	6,409	6,415	6,420	6,425
32.6	6,430	6,435	6,440	6,445	6,450	6,456	6,461	6,466	6,471	6,476
32.7	6,481	6,486	6,491	6,496	6,501	6,506	6,511	6,516	6,521	6,526
32.8	6,531	6,536	6,541	6,546	6,551	6,557	6,562	6,567	6,572	6,577
32.9	6,582	6,587	6,592	6,597	6,601	6,606	6,612	6,617	6,622	6,627
33	6,632	6,637	6,642	6,647	6,652	6,658	6,663	6,668	6,673	6,679
33.1	6,684	6,689	6,695	6,700	6,705	6,710	6,716	6,721	6,726	6,731
33.2	6,737	6,742	6,747	6,752	6,757	6,762	6,767	6,771	6,776	6,781
33.3	6,786	6,791	6,795	6,800	6,805	6,810	6,815	6,820	6,825	6,829
33.4	6,834	6,839	6,844	6,849	6,854	6,859	6,864	6,869	6,874	6,879
33.5	6,884	6,890	6,895	6,900	6,905	6,910	6,915	6,920	6,925	6,930
33.6	6,935	6,939	6,944	6,949	6,954	6,958	6,963	6,968	6,973	6,978
33.7	6,983	6,988	6,992	6,997	7,002	7,006	7,011	7,015	7,020	7,024
33.8	7,029	7,033	7,038	7,043	7,047	7,052	7,056	7,061	7,066	7,070
33.9	7,075	7,080	7,084	7,089	7,094	7,098	7,103	7,108	7,113	7,117
34	7,122	7,127	7,131	7,136	7,141	7,146	7,151	7,156	7,161	7,166
34.1	7,170	7,175	7,180	7,184	7,189	7,193	7,198	7,203	7,208	7,212
34.2	7,217	7,222	7,226	7,231	7,236	7,241	7,247	7,252	7,257	7,263
34.3	7,268	7,273	7,278	7,283	7,288	7,293	7,298	7,303	7,309	7,314
34.4	7,320	7,325	7,330	7,335	7,340	7,345	7,351	7,356	7,361	7,366
34.5	7,371	7,376	7,381	7,386	7,391	7,396	7,400	7,405	7,410	7,415
34.6	7,420	7,426	7,431	7,435	7,440	7,446	7,451	7,455	7,460	7,465
34.7	7,470	7,474	7,479	7,484	7,489	7,493	7,498	7,503	7,507	7,512
34.8	7,517	7,521	7,526	7,531	7,536	7,540	7,545	7,550	7,554	7,559
34.9	7,564	7,568	7,573	7,578	7,582	7,587	7,592	7,596	7,601	7,605

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
35	7,609	7,614	7,618	7,622	7,627	7,631	7,635	7,640	7,644	7,648
35.1	7,652	7,657	7,661	7,665	7,669	7,673	7,677	7,681	7,686	7,690
35.2	7,694	7,699	7,703	7,707	7,711	7,715	7,719	7,723	7,727	7,732
35.3	7,736	7,740	7,744	7,748	7,752	7,757	7,761	7,765	7,769	7,773
35.4	7,777	7,781	7,786	7,790	7,794	7,798	7,802	7,806	7,810	7,814
35.5	7,818	7,822	7,826	7,831	7,835	7,839	7,843	7,847	7,851	7,855
35.6	7,859	7,863	7,867	7,871	7,875	7,879	7,883	7,887	7,891	7,894
35.7	7,898	7,902	7,906	7,910	7,914	7,918	7,922	7,926	7,930	7,934
35.8	7,938	7,942	7,946	7,950	7,954	7,957	7,961	7,965	7,969	7,974
35.9	7,978	7,982	7,986	7,990	7,994	7,997	8,001	8,005	8,009	8,012
36	8,016	8,020	8,024	8,028	8,032	8,035	8,039	8,043	8,047	8,051
36.1	8,055	8,060	8,064	8,068	8,072	8,077	8,081	8,085	8,089	8,094
36.2	8,098	8,102	8,107	8,111	8,116	8,120	8,125	8,129	8,133	8,139
36.3	8,144	8,148	8,153	8,157	8,162	8,167	8,172	8,176	8,181	8,186
36.4	8,191	8,196	8,200	8,205	8,210	8,215	8,220	8,225	8,230	8,235
36.5	8,241	8,246	8,251	8,257	8,262	8,267	8,272	8,277	8,281	8,286
36.6	8,290	8,295	8,299	8,303	8,308	8,312	8,316	8,320	8,324	8,329
36.7	8,333	8,337	8,341	8,345	8,349	8,353	8,357	8,361	8,365	8,369
36.8	8,373	8,377	8,381	8,385	8,389	8,393	8,397	8,401	8,405	8,409
36.9	8,413	8,417	8,421	8,425	8,429	8,433	8,437	8,441	8,445	8,449
37	8,453	8,458	8,463	8,469	8,474	8,479	8,485	8,490	8,495	8,500
37.1	8,506	8,511	8,516	8,521	8,527	8,532	8,537	8,542	8,548	8,553
37.2	8,558	8,563	8,569	8,574	8,579	8,584	8,590	8,595	8,600	8,605
37.3	8,611	8,616	8,621	8,627	8,632	8,637	8,642	8,648	8,653	8,658
37.4	8,663	8,669	8,674	8,679	8,684	8,690	8,695	8,700	8,705	8,711
37.5	8,716	8,721	8,726	8,732	8,737	8,742	8,747	8,753	8,758	8,763
37.6	8,769	8,774	8,779	8,784	8,790	8,795	8,800	8,805	8,811	8,816
37.7	8,821	8,826	8,832	8,837	8,842	8,847	8,853	8,858	8,863	8,868
37.8	8,874	8,879	8,884	8,889	8,895	8,900	8,905	8,911	8,916	8,921
37.9	8,926	8,932	8,937	8,942	8,947	8,953	8,958	8,963	8,968	8,974
38	8,979	8,984	8,989	8,995	9,000	9,005	9,010	9,016	9,021	9,026
38.1	9,031	9,037	9,042	9,047	9,053	9,058	9,063	9,068	9,074	9,079
38.2	9,084	9,089	9,095	9,100	9,105	9,110	9,116	9,121	9,126	9,131
38.3	9,137	9,142	9,147	9,152	9,158	9,163	9,168	9,173	9,179	9,184
38.4	9,189	9,195	9,200	9,205	9,210	9,216	9,221	9,226	9,231	9,237
38.5	9,242	9,247	9,252	9,258	9,263	9,268	9,273	9,279	9,284	9,289
38.6	9,294	9,300	9,305	9,310	9,315	9,321	9,326	9,331	9,336	9,342
38.7	9,347	9,352	9,358	9,363	9,368	9,373	9,379	9,384	9,389	9,394
38.8	9,400	9,405	9,410	9,415	9,421	9,426	9,431	9,436	9,442	9,447
38.9	9,452	9,457	9,463	9,468	9,473	9,478	9,484	9,489	9,494	9,500
39	9,505	9,510	9,515	9,521	9,526	9,531	9,536	9,542	9,547	9,552
39.1	9,557	9,563	9,568	9,573	9,578	9,584	9,589	9,594	9,599	9,605
39.2	9,610	9,615	9,620	9,626	9,631	9,636	9,642	9,647	9,652	9,657
39.3	9,663	9,668	9,673	9,678	9,684	9,689	9,694	9,699	9,705	9,710
39.4	9,715	9,720	9,726	9,731	9,736	9,741	9,747	9,752	9,757	9,762
39.5	9,768	9,773	9,778	9,784	9,789	9,794	9,799	9,805	9,810	9,815
39.6	9,820	9,826	9,831	9,836	9,841	9,847	9,852	9,857	9,862	9,868
39.7	9,873	9,878	9,883	9,889	9,894	9,899	9,904	9,910	9,915	9,920
39.8	9,926	9,931	9,936	9,941	9,947	9,952	9,957	9,962	9,968	9,973
39.9	9,978	9,983	9,989	9,994	9,999	10,004	10,010	10,015	10,020	10,025

Appendix F (continued)

Lake Houston

RESERVOIR AREA TABLE

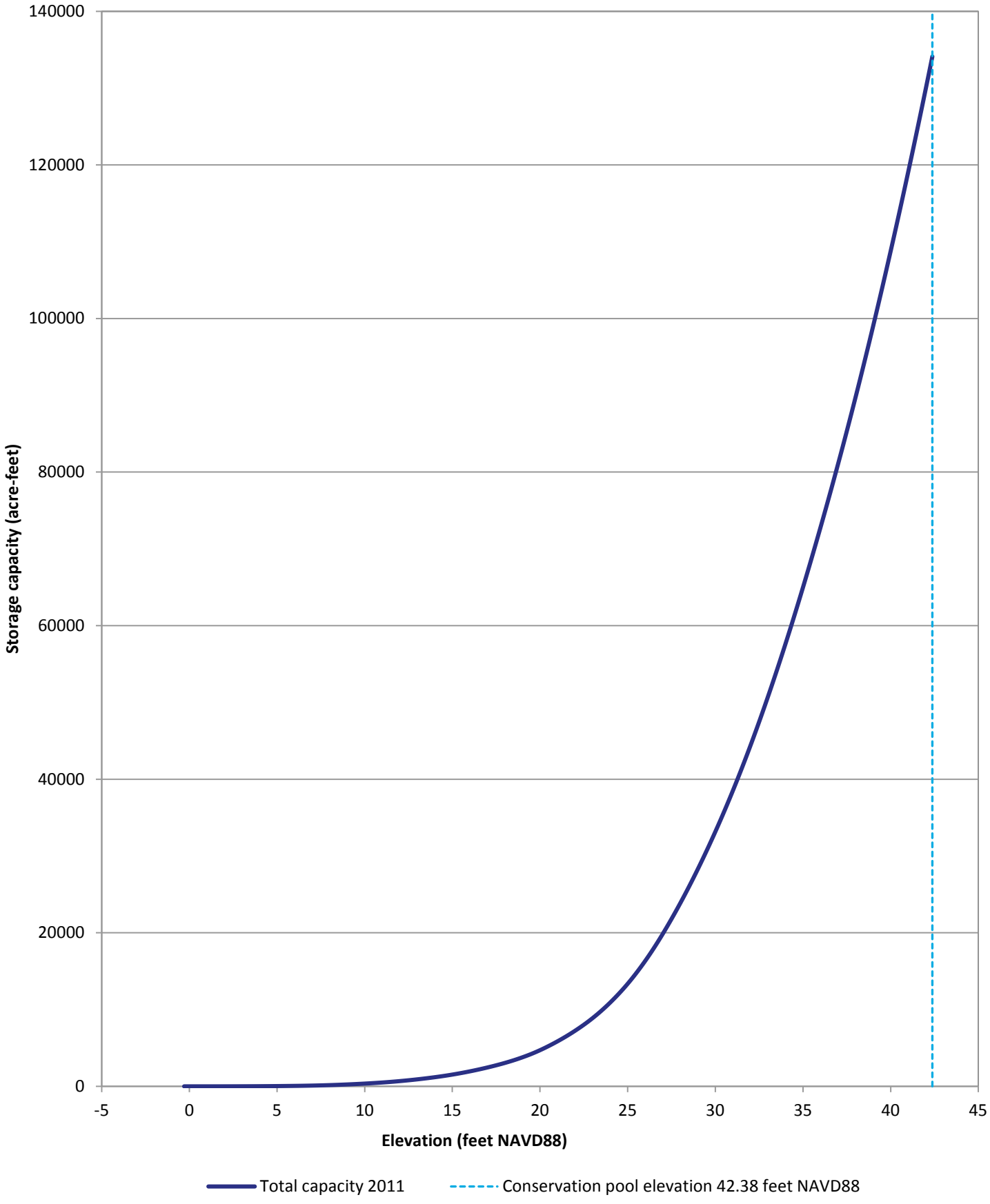
TEXAS WATER DEVELOPMENT BOARD — December 2011 Survey re-calculated October 2016

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

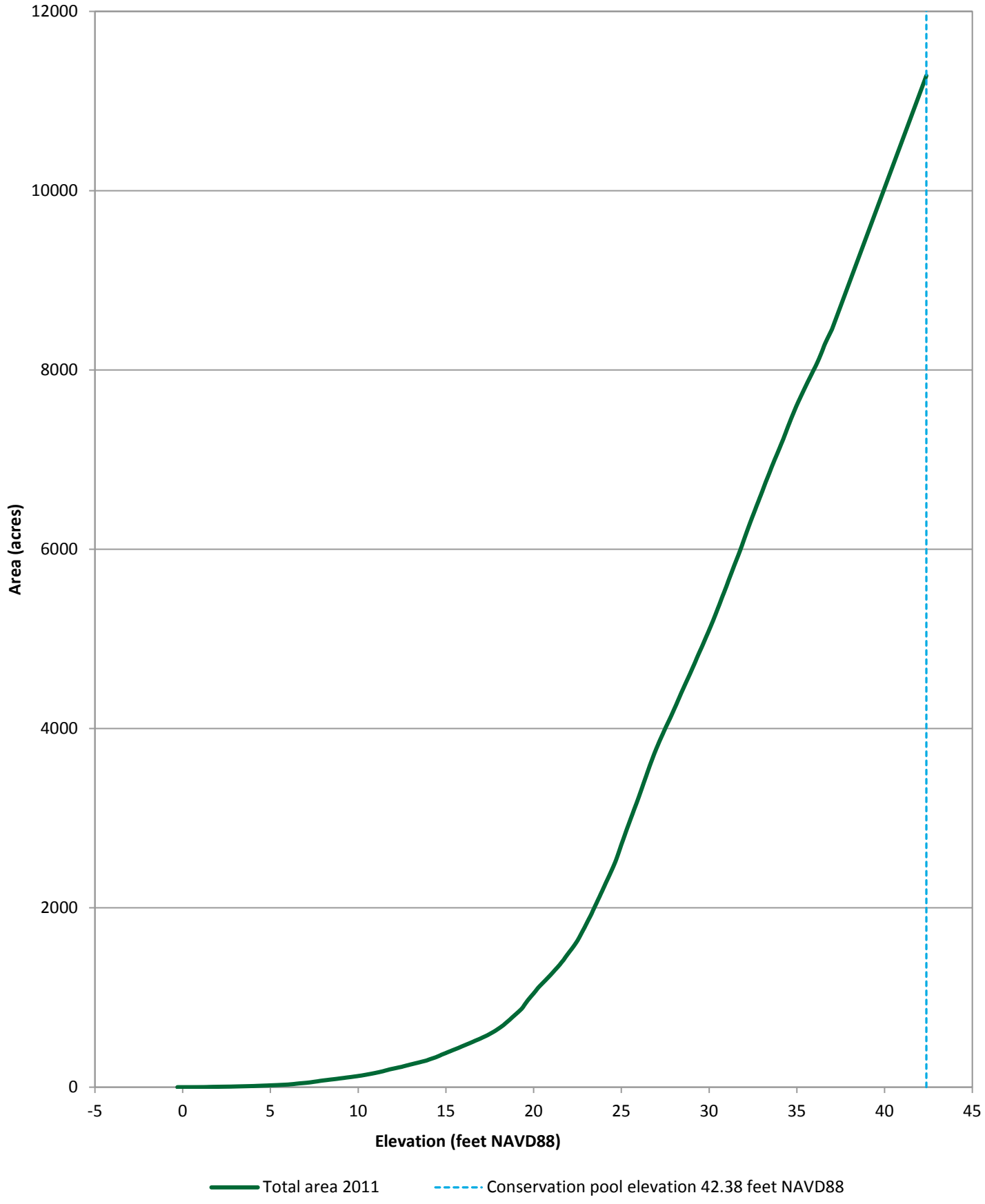
ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
40	10,031	10,036	10,041	10,046	10,052	10,057	10,062	10,068	10,073	10,078
40.1	10,083	10,089	10,094	10,099	10,104	10,110	10,115	10,120	10,125	10,131
40.2	10,136	10,141	10,146	10,152	10,157	10,162	10,167	10,173	10,178	10,183
40.3	10,188	10,194	10,199	10,204	10,209	10,215	10,220	10,225	10,231	10,236
40.4	10,241	10,246	10,252	10,257	10,262	10,267	10,273	10,278	10,283	10,288
40.5	10,294	10,299	10,304	10,309	10,315	10,320	10,325	10,330	10,336	10,341
40.6	10,346	10,351	10,357	10,362	10,367	10,373	10,378	10,383	10,388	10,394
40.7	10,399	10,404	10,409	10,415	10,420	10,425	10,430	10,436	10,441	10,446
40.8	10,451	10,457	10,462	10,467	10,472	10,478	10,483	10,488	10,493	10,499
40.9	10,504	10,509	10,515	10,520	10,525	10,530	10,536	10,541	10,546	10,551
41	10,557	10,562	10,567	10,572	10,578	10,583	10,588	10,593	10,599	10,604
41.1	10,609	10,614	10,620	10,625	10,630	10,635	10,641	10,646	10,651	10,657
41.2	10,662	10,667	10,672	10,678	10,683	10,688	10,693	10,699	10,704	10,709
41.3	10,714	10,720	10,725	10,730	10,735	10,741	10,746	10,751	10,756	10,762
41.4	10,767	10,772	10,777	10,783	10,788	10,793	10,799	10,804	10,809	10,814
41.5	10,820	10,825	10,830	10,835	10,841	10,846	10,851	10,856	10,862	10,867
41.6	10,872	10,877	10,883	10,888	10,893	10,898	10,904	10,909	10,914	10,919
41.7	10,925	10,930	10,935	10,940	10,946	10,951	10,956	10,962	10,967	10,972
41.8	10,977	10,983	10,988	10,993	10,998	11,004	11,009	11,014	11,019	11,025
41.9	11,030	11,035	11,040	11,046	11,051	11,056	11,061	11,067	11,072	11,077
42	11,082	11,088	11,093	11,098	11,104	11,109	11,114	11,119	11,125	11,130
42.1	11,135	11,140	11,146	11,151	11,156	11,161	11,167	11,172	11,177	11,182
42.2	11,188	11,193	11,198	11,203	11,209	11,214	11,219	11,224	11,230	11,235
42.3	11,240	11,246	11,251	11,256	11,261	11,267	11,272	11,277	11,282	

Note: Areas between elevations 37.00 and 42.31 linearly interpolated, areas above elevation 42.31 feet linearly extrapolated



Lake Houston
December 2011 Survey
re-calculated October 2016
Prepared by: TWDB

Appendix G: Capacity curve



Lake Houston
December 2011 Survey
re-calculated October 2016
Prepared by: TWDB

Appendix H: Area curve

Appendix I

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
-1	0	0	0	0	0	0	0	0	0	0
-0.9	0	0	0	0	0	0	0	0	0	0
-0.8	0	0	0	0	0	0	0	0	0	0
-0.7	0	0	0	0	0	0	0	0	0	0
-0.6	0	0	0	0	0	0	0	0	0	0
-0.5	0	0	0	0	0	0	0	0	0	0
-0.4	0	0	0	0	0	0	0	0	0	0
-0.3	0	0	0	0	0	0	0	0	0	0
-0.2	0	0	0	0	0	0	0	0	0	0
-0.1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	0	0	0	0	0	0	0	0	0	0
0.1	0	0	0	0	0	0	0	0	0	0
0.2	0	0	0	0	0	0	0	0	0	0
0.3	0	0	0	0	0	0	0	0	0	0
0.4	0	0	0	0	0	0	0	0	0	0
0.5	0	0	0	0	0	0	0	0	0	0
0.6	0	0	0	0	0	0	0	0	0	0
0.7	0	0	0	0	0	0	0	0	0	0
0.8	0	0	0	0	0	0	0	0	0	0
0.9	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0
1.1	0	0	0	0	0	0	0	0	0	0
1.2	0	0	0	0	0	0	0	0	0	0
1.3	0	0	0	0	0	0	0	0	0	0
1.4	0	0	0	0	0	0	0	0	0	0
1.5	0	0	0	0	0	0	0	0	0	0
1.6	0	0	0	0	0	0	0	0	0	0
1.7	0	0	0	0	0	0	0	0	0	0
1.8	0	0	0	0	0	0	0	0	0	0
1.9	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
2.1	0	0	0	0	0	0	0	0	0	0
2.2	0	0	0	0	0	0	0	0	0	0
2.3	0	0	0	0	0	0	0	0	0	0
2.4	0	0	0	0	0	0	0	0	0	0
2.5	0	0	0	0	0	0	0	0	0	0
2.6	0	0	0	0	0	0	0	0	0	0
2.7	0	0	0	0	0	0	0	0	0	0
2.8	0	0	0	0	0	0	0	0	0	0
2.9	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1
3.1	1	1	1	1	1	1	1	1	1	1
3.2	1	1	1	1	1	1	1	1	1	1
3.3	1	1	1	1	1	1	1	1	1	1
3.4	1	1	1	1	1	1	1	1	1	1
3.5	1	1	1	1	1	1	1	1	1	2
3.6	2	2	2	2	2	2	2	2	2	2
3.7	2	2	2	2	2	2	2	2	2	2
3.8	2	2	2	2	2	2	2	2	2	2
3.9	2	2	2	2	2	2	2	2	2	3

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
4	3	3	3	3	3	3	3	3	3	3
4.1	3	3	3	3	3	3	3	3	3	3
4.2	3	3	3	3	3	4	4	4	4	4
4.3	4	4	4	4	4	4	4	4	4	4
4.4	4	5	5	5	5	5	5	5	5	5
4.5	5	5	5	5	5	6	6	6	6	6
4.6	6	6	6	6	6	6	6	7	7	7
4.7	7	7	7	7	7	7	7	7	8	8
4.8	8	8	8	8	8	8	8	8	9	9
4.9	9	9	9	9	9	9	9	9	10	10
5	10	10	10	10	10	10	10	11	11	11
5.1	11	11	11	11	11	12	12	12	12	12
5.2	12	12	12	13	13	13	13	13	13	13
5.3	14	14	14	14	14	14	14	15	15	15
5.4	15	15	15	15	16	16	16	16	16	16
5.5	17	17	17	17	17	17	18	18	18	18
5.6	18	18	19	19	19	19	19	19	20	20
5.7	20	20	20	20	21	21	21	21	21	22
5.8	22	22	22	22	23	23	23	23	23	24
5.9	24	24	24	24	25	25	25	25	25	26
6	26	26	26	26	27	27	27	27	28	28
6.1	28	28	28	29	29	29	29	30	30	30
6.2	30	30	31	31	31	31	32	32	32	32
6.3	33	33	33	33	34	34	34	34	35	35
6.4	35	35	36	36	36	36	37	37	37	37
6.5	38	38	38	39	39	39	39	40	40	40
6.6	40	41	41	41	42	42	42	42	43	43
6.7	43	44	44	44	44	45	45	45	46	46
6.8	46	47	47	47	47	48	48	48	49	49
6.9	49	50	50	50	51	51	51	52	52	52
7	53	53	53	54	54	54	55	55	55	56
7.1	56	56	57	57	57	58	58	58	59	59
7.2	60	60	60	61	61	61	62	62	63	63
7.3	63	64	64	65	65	65	66	66	66	67
7.4	67	68	68	69	69	69	70	70	71	71
7.5	71	72	72	73	73	74	74	74	75	75
7.6	76	76	77	77	78	78	79	79	79	80
7.7	80	81	81	82	82	83	83	84	84	85
7.8	85	86	86	87	87	88	88	89	89	90
7.9	90	91	91	92	92	93	93	94	94	95
8	95	96	96	97	97	98	99	99	100	100
8.1	101	101	102	102	103	104	104	105	105	106
8.2	107	107	108	108	109	110	110	111	111	112
8.3	113	113	114	115	115	116	116	117	118	118
8.4	119	120	120	121	122	122	123	124	124	125
8.5	126	127	127	128	129	129	130	131	131	132
8.6	133	134	134	135	136	137	137	138	139	140
8.7	140	141	142	143	143	144	145	146	146	147
8.8	148	149	150	150	151	152	153	154	154	155
8.9	156	157	158	158	159	160	161	162	163	163

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
9	164	165	166	167	168	169	169	170	171	172
9.1	173	174	175	176	176	177	178	179	180	181
9.2	182	183	184	185	185	186	187	188	189	190
9.3	191	192	193	194	195	196	197	198	199	199
9.4	200	201	202	203	204	205	206	207	208	209
9.5	210	211	212	213	214	215	216	217	218	219
9.6	220	221	222	223	224	225	226	227	228	229
9.7	230	232	233	234	235	236	237	238	239	240
9.8	241	242	243	244	245	246	248	249	250	251
9.9	252	253	254	255	256	257	259	260	261	262
10	263	264	265	266	268	269	270	271	272	273
10.1	274	276	277	278	279	280	281	283	284	285
10.2	286	287	288	290	291	292	293	294	296	297
10.3	298	299	300	302	303	304	305	307	308	309
10.4	310	312	313	314	315	317	318	319	320	322
10.5	323	324	325	327	328	329	331	332	333	334
10.6	336	337	338	340	341	342	344	345	346	348
10.7	349	350	352	353	354	356	357	358	360	361
10.8	362	364	365	367	368	369	371	372	373	375
10.9	376	378	379	380	382	383	385	386	388	389
11	390	392	393	395	396	398	399	400	402	403
11.1	405	406	408	409	411	412	414	415	417	418
11.2	420	421	423	424	426	427	429	430	432	433
11.3	435	436	438	439	441	442	444	445	447	449
11.4	450	452	453	455	456	458	460	461	463	464
11.5	466	467	469	471	472	474	476	477	479	480
11.6	482	484	485	487	489	490	492	494	495	497
11.7	499	501	502	504	506	507	509	511	513	514
11.8	516	518	520	521	523	525	527	528	530	532
11.9	534	536	538	539	541	543	545	547	549	550
12	552	554	556	558	560	562	563	565	567	569
12.1	571	573	575	577	579	581	583	584	586	588
12.2	590	592	594	596	598	600	602	604	606	608
12.3	610	612	614	616	618	620	622	624	626	628
12.4	631	633	635	637	639	641	643	645	647	649
12.5	651	654	656	658	660	662	664	666	668	671
12.6	673	675	677	679	682	684	686	688	690	693
12.7	695	697	699	702	704	706	708	711	713	715
12.8	717	720	722	724	726	729	731	733	736	738
12.9	740	743	745	747	750	752	755	757	759	762
13	764	766	769	771	774	776	778	781	783	786
13.1	788	791	793	796	798	800	803	805	808	810
13.2	813	815	818	820	823	825	828	830	833	836
13.3	838	841	843	846	848	851	853	856	859	861
13.4	864	866	869	872	874	877	880	882	885	887
13.5	890	893	895	898	901	903	906	909	912	914
13.6	917	920	922	925	928	931	933	936	939	942
13.7	945	947	950	953	956	959	961	964	967	970
13.8	973	976	978	981	984	987	990	993	996	999
13.9	1,002	1,005	1,008	1,010	1,013	1,016	1,019	1,022	1,025	1,028

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
14	1,031	1,034	1,037	1,040	1,043	1,046	1,049	1,053	1,056	1,059
14.1	1,062	1,065	1,068	1,071	1,074	1,077	1,080	1,083	1,086	1,090
14.2	1,093	1,096	1,099	1,102	1,105	1,108	1,112	1,115	1,118	1,121
14.3	1,124	1,128	1,131	1,134	1,137	1,140	1,144	1,147	1,150	1,153
14.4	1,157	1,160	1,163	1,166	1,170	1,173	1,176	1,180	1,183	1,186
14.5	1,190	1,193	1,196	1,200	1,203	1,206	1,210	1,213	1,216	1,220
14.6	1,223	1,227	1,230	1,234	1,237	1,240	1,244	1,247	1,251	1,254
14.7	1,258	1,261	1,265	1,268	1,272	1,275	1,279	1,282	1,286	1,290
14.8	1,293	1,297	1,300	1,304	1,307	1,311	1,315	1,318	1,322	1,326
14.9	1,329	1,333	1,337	1,340	1,344	1,348	1,351	1,355	1,359	1,363
15	1,366	1,370	1,374	1,378	1,381	1,385	1,389	1,393	1,397	1,400
15.1	1,404	1,408	1,412	1,416	1,420	1,424	1,427	1,431	1,435	1,439
15.2	1,443	1,447	1,451	1,455	1,459	1,463	1,467	1,471	1,475	1,479
15.3	1,483	1,487	1,491	1,495	1,499	1,503	1,507	1,511	1,515	1,519
15.4	1,523	1,528	1,532	1,536	1,540	1,544	1,548	1,552	1,557	1,561
15.5	1,565	1,569	1,573	1,577	1,582	1,586	1,590	1,594	1,599	1,603
15.6	1,607	1,611	1,616	1,620	1,624	1,629	1,633	1,637	1,642	1,646
15.7	1,650	1,655	1,659	1,663	1,668	1,672	1,677	1,681	1,686	1,690
15.8	1,694	1,699	1,703	1,708	1,712	1,717	1,721	1,726	1,730	1,735
15.9	1,739	1,744	1,748	1,753	1,757	1,762	1,767	1,771	1,776	1,780
16	1,785	1,790	1,794	1,799	1,804	1,808	1,813	1,818	1,822	1,827
16.1	1,832	1,836	1,841	1,846	1,851	1,855	1,860	1,865	1,870	1,874
16.2	1,879	1,884	1,889	1,894	1,899	1,903	1,908	1,913	1,918	1,923
16.3	1,928	1,933	1,937	1,942	1,947	1,952	1,957	1,962	1,967	1,972
16.4	1,977	1,982	1,987	1,992	1,997	2,002	2,007	2,012	2,017	2,022
16.5	2,027	2,032	2,037	2,042	2,047	2,052	2,057	2,062	2,067	2,073
16.6	2,078	2,083	2,088	2,093	2,098	2,103	2,109	2,114	2,119	2,124
16.7	2,129	2,134	2,140	2,145	2,150	2,155	2,161	2,166	2,171	2,176
16.8	2,182	2,187	2,192	2,198	2,203	2,208	2,214	2,219	2,224	2,230
16.9	2,235	2,240	2,246	2,251	2,257	2,262	2,267	2,273	2,278	2,284
17	2,289	2,295	2,300	2,306	2,311	2,317	2,322	2,328	2,333	2,339
17.1	2,344	2,350	2,355	2,361	2,366	2,372	2,378	2,383	2,389	2,394
17.2	2,400	2,406	2,411	2,417	2,423	2,428	2,434	2,440	2,446	2,451
17.3	2,457	2,463	2,468	2,474	2,480	2,486	2,492	2,497	2,503	2,509
17.4	2,515	2,521	2,526	2,532	2,538	2,544	2,550	2,556	2,562	2,568
17.5	2,574	2,580	2,585	2,591	2,597	2,603	2,609	2,615	2,621	2,627
17.6	2,633	2,639	2,646	2,652	2,658	2,664	2,670	2,676	2,682	2,688
17.7	2,694	2,700	2,707	2,713	2,719	2,725	2,731	2,738	2,744	2,750
17.8	2,756	2,763	2,769	2,775	2,782	2,788	2,794	2,801	2,807	2,813
17.9	2,820	2,826	2,833	2,839	2,846	2,852	2,858	2,865	2,871	2,878
18	2,885	2,891	2,898	2,904	2,911	2,917	2,924	2,931	2,937	2,944
18.1	2,950	2,957	2,964	2,971	2,977	2,984	2,991	2,998	3,004	3,011
18.2	3,018	3,025	3,032	3,038	3,045	3,052	3,059	3,066	3,073	3,080
18.3	3,087	3,094	3,101	3,108	3,115	3,122	3,129	3,136	3,143	3,150
18.4	3,157	3,164	3,171	3,178	3,185	3,193	3,200	3,207	3,214	3,221
18.5	3,229	3,236	3,243	3,250	3,258	3,265	3,272	3,280	3,287	3,294
18.6	3,302	3,309	3,317	3,324	3,332	3,339	3,347	3,354	3,362	3,369
18.7	3,377	3,384	3,392	3,399	3,407	3,415	3,422	3,430	3,438	3,445
18.8	3,453	3,461	3,469	3,476	3,484	3,492	3,500	3,508	3,516	3,523
18.9	3,531	3,539	3,547	3,555	3,563	3,571	3,579	3,587	3,595	3,603

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
19	3,611	3,619	3,627	3,635	3,644	3,652	3,660	3,668	3,676	3,684
19.1	3,693	3,701	3,709	3,717	3,726	3,734	3,742	3,751	3,759	3,768
19.2	3,776	3,784	3,793	3,801	3,810	3,818	3,827	3,835	3,844	3,853
19.3	3,861	3,870	3,878	3,887	3,896	3,905	3,913	3,922	3,931	3,940
19.4	3,948	3,957	3,966	3,975	3,984	3,993	4,002	4,011	4,019	4,028
19.5	4,037	4,047	4,056	4,065	4,074	4,083	4,092	4,101	4,110	4,119
19.6	4,129	4,138	4,147	4,156	4,166	4,175	4,184	4,194	4,203	4,212
19.7	4,222	4,231	4,241	4,250	4,260	4,269	4,279	4,289	4,298	4,308
19.8	4,318	4,327	4,337	4,347	4,357	4,367	4,376	4,386	4,396	4,406
19.9	4,416	4,426	4,436	4,446	4,456	4,466	4,477	4,487	4,497	4,507
20	4,517	4,528	4,538	4,548	4,558	4,569	4,579	4,590	4,600	4,611
20.1	4,621	4,632	4,642	4,653	4,663	4,674	4,685	4,695	4,706	4,717
20.2	4,728	4,738	4,749	4,760	4,771	4,782	4,793	4,804	4,815	4,826
20.3	4,837	4,848	4,859	4,870	4,881	4,892	4,903	4,914	4,925	4,937
20.4	4,948	4,959	4,970	4,982	4,993	5,004	5,016	5,027	5,039	5,050
20.5	5,062	5,073	5,085	5,096	5,108	5,119	5,131	5,142	5,154	5,166
20.6	5,177	5,189	5,201	5,213	5,224	5,236	5,248	5,260	5,272	5,284
20.7	5,296	5,307	5,319	5,331	5,343	5,355	5,367	5,379	5,392	5,404
20.8	5,416	5,428	5,440	5,452	5,464	5,477	5,489	5,501	5,513	5,526
20.9	5,538	5,551	5,563	5,575	5,588	5,600	5,613	5,625	5,638	5,650
21	5,663	5,675	5,688	5,701	5,713	5,726	5,739	5,751	5,764	5,777
21.1	5,790	5,802	5,815	5,828	5,841	5,854	5,867	5,880	5,893	5,906
21.2	5,919	5,932	5,945	5,958	5,971	5,984	5,997	6,010	6,023	6,036
21.3	6,050	6,063	6,076	6,089	6,103	6,116	6,129	6,143	6,156	6,170
21.4	6,183	6,196	6,210	6,223	6,237	6,251	6,264	6,278	6,291	6,305
21.5	6,319	6,332	6,346	6,360	6,373	6,387	6,401	6,415	6,429	6,442
21.6	6,456	6,470	6,484	6,498	6,512	6,526	6,540	6,554	6,568	6,582
21.7	6,596	6,610	6,624	6,639	6,653	6,667	6,681	6,696	6,710	6,724
21.8	6,739	6,753	6,767	6,782	6,796	6,811	6,825	6,840	6,854	6,869
21.9	6,883	6,898	6,913	6,927	6,942	6,957	6,972	6,986	7,001	7,016
22	7,031	7,046	7,061	7,076	7,091	7,106	7,121	7,136	7,151	7,166
22.1	7,181	7,196	7,212	7,227	7,242	7,258	7,273	7,288	7,304	7,319
22.2	7,335	7,350	7,366	7,381	7,397	7,412	7,428	7,444	7,459	7,475
22.3	7,491	7,507	7,523	7,538	7,554	7,570	7,586	7,602	7,618	7,634
22.4	7,650	7,666	7,683	7,699	7,715	7,731	7,747	7,764	7,780	7,796
22.5	7,813	7,829	7,845	7,862	7,878	7,895	7,912	7,928	7,945	7,961
22.6	7,978	7,995	8,012	8,028	8,045	8,062	8,079	8,096	8,113	8,130
22.7	8,147	8,164	8,181	8,198	8,216	8,233	8,250	8,267	8,285	8,302
22.8	8,319	8,337	8,354	8,372	8,389	8,407	8,425	8,442	8,460	8,478
22.9	8,496	8,513	8,531	8,549	8,567	8,585	8,603	8,621	8,639	8,657
23	8,675	8,693	8,712	8,730	8,748	8,766	8,785	8,803	8,822	8,840
23.1	8,859	8,877	8,896	8,915	8,933	8,952	8,971	8,989	9,008	9,027
23.2	9,046	9,065	9,084	9,103	9,122	9,141	9,160	9,180	9,199	9,218
23.3	9,237	9,257	9,276	9,296	9,315	9,334	9,354	9,374	9,393	9,413
23.4	9,432	9,452	9,472	9,492	9,512	9,531	9,551	9,571	9,591	9,611
23.5	9,632	9,652	9,672	9,692	9,712	9,733	9,753	9,774	9,794	9,814
23.6	9,835	9,856	9,876	9,897	9,918	9,938	9,959	9,980	10,001	10,022
23.7	10,043	10,064	10,085	10,106	10,127	10,148	10,169	10,191	10,212	10,233
23.8	10,255	10,276	10,297	10,319	10,341	10,362	10,384	10,405	10,427	10,449
23.9	10,471	10,493	10,514	10,536	10,558	10,580	10,602	10,625	10,647	10,669

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
24	10,691	10,713	10,736	10,758	10,780	10,803	10,825	10,848	10,870	10,893
24.1	10,916	10,938	10,961	10,984	11,007	11,030	11,052	11,075	11,098	11,121
24.2	11,144	11,168	11,191	11,214	11,237	11,260	11,284	11,307	11,330	11,354
24.3	11,377	11,401	11,424	11,448	11,471	11,495	11,519	11,542	11,566	11,590
24.4	11,614	11,638	11,662	11,686	11,710	11,734	11,758	11,782	11,806	11,830
24.5	11,855	11,879	11,903	11,928	11,952	11,977	12,001	12,026	12,050	12,075
24.6	12,100	12,124	12,149	12,174	12,199	12,224	12,249	12,274	12,299	12,324
24.7	12,349	12,374	12,399	12,425	12,450	12,475	12,501	12,526	12,552	12,577
24.8	12,603	12,629	12,654	12,680	12,706	12,732	12,758	12,784	12,810	12,836
24.9	12,862	12,888	12,914	12,940	12,967	12,993	13,019	13,046	13,072	13,099
25	13,125	13,152	13,179	13,205	13,232	13,259	13,286	13,313	13,340	13,367
25.1	13,394	13,421	13,448	13,475	13,503	13,530	13,557	13,585	13,612	13,640
25.2	13,667	13,695	13,723	13,750	13,778	13,806	13,834	13,862	13,890	13,918
25.3	13,946	13,974	14,002	14,030	14,059	14,087	14,115	14,144	14,172	14,201
25.4	14,229	14,258	14,287	14,316	14,344	14,373	14,402	14,431	14,460	14,489
25.5	14,519	14,548	14,577	14,606	14,636	14,665	14,695	14,724	14,754	14,784
25.6	14,813	14,843	14,873	14,903	14,933	14,963	14,993	15,023	15,053	15,083
25.7	15,114	15,144	15,174	15,205	15,236	15,266	15,297	15,328	15,358	15,389
25.8	15,420	15,451	15,482	15,513	15,545	15,576	15,607	15,639	15,670	15,702
25.9	15,733	15,765	15,797	15,828	15,860	15,892	15,924	15,956	15,988	16,020
26	16,053	16,085	16,117	16,150	16,182	16,215	16,247	16,280	16,312	16,345
26.1	16,378	16,411	16,444	16,477	16,510	16,543	16,576	16,610	16,643	16,676
26.2	16,710	16,743	16,777	16,811	16,844	16,878	16,912	16,946	16,980	17,014
26.3	17,048	17,082	17,116	17,150	17,184	17,219	17,253	17,288	17,322	17,357
26.4	17,392	17,426	17,461	17,496	17,531	17,566	17,601	17,636	17,672	17,707
26.5	17,742	17,778	17,813	17,849	17,884	17,920	17,956	17,991	18,027	18,063
26.6	18,099	18,135	18,171	18,207	18,244	18,280	18,316	18,353	18,389	18,426
26.7	18,462	18,499	18,536	18,573	18,610	18,646	18,683	18,721	18,758	18,795
26.8	18,832	18,869	18,907	18,944	18,982	19,019	19,057	19,094	19,132	19,170
26.9	19,207	19,245	19,283	19,321	19,359	19,397	19,435	19,473	19,512	19,550
27	19,588	19,626	19,665	19,703	19,742	19,780	19,819	19,858	19,896	19,935
27.1	19,974	20,013	20,051	20,090	20,129	20,168	20,208	20,247	20,286	20,325
27.2	20,364	20,404	20,443	20,482	20,522	20,561	20,601	20,640	20,680	20,720
27.3	20,760	20,799	20,839	20,879	20,919	20,959	20,999	21,039	21,079	21,119
27.4	21,159	21,200	21,240	21,280	21,321	21,361	21,401	21,442	21,482	21,523
27.5	21,564	21,604	21,645	21,686	21,727	21,767	21,808	21,849	21,890	21,931
27.6	21,972	22,013	22,054	22,096	22,137	22,178	22,220	22,261	22,302	22,344
27.7	22,385	22,427	22,468	22,510	22,552	22,593	22,635	22,677	22,719	22,761
27.8	22,803	22,845	22,887	22,929	22,971	23,013	23,056	23,098	23,140	23,182
27.9	23,225	23,267	23,310	23,352	23,395	23,438	23,480	23,523	23,566	23,609
28	23,652	23,694	23,737	23,780	23,824	23,867	23,910	23,953	23,996	24,040
28.1	24,083	24,126	24,170	24,213	24,257	24,300	24,344	24,388	24,431	24,475
28.2	24,519	24,563	24,607	24,651	24,695	24,739	24,783	24,827	24,871	24,915
28.3	24,960	25,004	25,048	25,093	25,137	25,182	25,226	25,271	25,315	25,360
28.4	25,405	25,449	25,494	25,539	25,584	25,629	25,674	25,719	25,764	25,809
28.5	25,854	25,899	25,944	25,990	26,035	26,080	26,126	26,171	26,217	26,262
28.6	26,308	26,353	26,399	26,445	26,490	26,536	26,582	26,628	26,674	26,720
28.7	26,766	26,812	26,858	26,904	26,950	26,996	27,042	27,089	27,135	27,181
28.8	27,228	27,274	27,321	27,367	27,414	27,460	27,507	27,553	27,600	27,647
28.9	27,694	27,740	27,787	27,834	27,881	27,928	27,975	28,022	28,069	28,117

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
29	28,164	28,211	28,258	28,306	28,353	28,401	28,448	28,496	28,543	28,591
29.1	28,638	28,686	28,734	28,782	28,829	28,877	28,925	28,973	29,021	29,069
29.2	29,117	29,165	29,214	29,262	29,310	29,358	29,407	29,455	29,503	29,552
29.3	29,600	29,649	29,698	29,746	29,795	29,844	29,892	29,941	29,990	30,039
29.4	30,088	30,137	30,186	30,235	30,284	30,333	30,382	30,431	30,481	30,530
29.5	30,579	30,629	30,678	30,727	30,777	30,826	30,876	30,926	30,975	31,025
29.6	31,075	31,124	31,174	31,224	31,274	31,324	31,374	31,424	31,474	31,524
29.7	31,575	31,625	31,675	31,725	31,776	31,826	31,877	31,927	31,978	32,028
29.8	32,079	32,130	32,181	32,231	32,282	32,333	32,384	32,435	32,486	32,537
29.9	32,588	32,640	32,691	32,742	32,794	32,845	32,896	32,948	32,999	33,051
30	33,103	33,154	33,206	33,258	33,309	33,361	33,413	33,465	33,517	33,569
30.1	33,621	33,674	33,726	33,778	33,830	33,883	33,935	33,987	34,040	34,093
30.2	34,145	34,198	34,251	34,303	34,356	34,409	34,462	34,515	34,568	34,621
30.3	34,674	34,727	34,780	34,833	34,887	34,940	34,993	35,047	35,100	35,154
30.4	35,207	35,261	35,315	35,368	35,422	35,476	35,530	35,584	35,638	35,692
30.5	35,746	35,800	35,854	35,908	35,963	36,017	36,071	36,126	36,180	36,235
30.6	36,289	36,344	36,399	36,453	36,508	36,563	36,618	36,673	36,728	36,783
30.7	36,838	36,893	36,948	37,003	37,058	37,114	37,169	37,224	37,280	37,335
30.8	37,391	37,446	37,502	37,557	37,613	37,669	37,725	37,781	37,836	37,892
30.9	37,948	38,004	38,061	38,117	38,173	38,229	38,286	38,342	38,398	38,455
31	38,511	38,568	38,624	38,681	38,738	38,794	38,851	38,908	38,965	39,022
31.1	39,079	39,136	39,193	39,250	39,307	39,365	39,422	39,479	39,537	39,594
31.2	39,651	39,709	39,766	39,824	39,882	39,939	39,997	40,055	40,113	40,171
31.3	40,228	40,286	40,344	40,403	40,461	40,519	40,577	40,635	40,694	40,752
31.4	40,810	40,869	40,927	40,986	41,044	41,103	41,162	41,220	41,279	41,338
31.5	41,397	41,456	41,515	41,574	41,633	41,692	41,752	41,811	41,870	41,930
31.6	41,989	42,049	42,108	42,168	42,227	42,287	42,347	42,407	42,467	42,527
31.7	42,587	42,647	42,707	42,767	42,827	42,888	42,948	43,008	43,069	43,129
31.8	43,190	43,251	43,311	43,372	43,433	43,494	43,555	43,616	43,677	43,738
31.9	43,799	43,860	43,921	43,983	44,044	44,106	44,167	44,229	44,290	44,352
32	44,414	44,475	44,537	44,599	44,661	44,723	44,785	44,847	44,909	44,972
32.1	45,034	45,096	45,159	45,221	45,284	45,347	45,409	45,472	45,535	45,598
32.2	45,661	45,723	45,787	45,850	45,913	45,976	46,039	46,103	46,166	46,229
32.3	46,293	46,356	46,420	46,484	46,547	46,611	46,675	46,739	46,803	46,867
32.4	46,931	46,995	47,059	47,124	47,188	47,252	47,317	47,381	47,446	47,510
32.5	47,575	47,640	47,704	47,769	47,834	47,899	47,964	48,029	48,094	48,159
32.6	48,224	48,290	48,355	48,420	48,486	48,551	48,617	48,682	48,748	48,813
32.7	48,879	48,945	49,011	49,077	49,142	49,208	49,274	49,341	49,407	49,473
32.8	49,539	49,605	49,672	49,738	49,805	49,871	49,938	50,004	50,071	50,138
32.9	50,205	50,271	50,338	50,405	50,472	50,539	50,606	50,674	50,741	50,808
33	50,875	50,943	51,010	51,078	51,145	51,213	51,281	51,348	51,416	51,484
33.1	51,552	51,620	51,688	51,756	51,824	51,892	51,960	52,028	52,097	52,165
33.2	52,233	52,302	52,370	52,439	52,507	52,576	52,645	52,714	52,782	52,851
33.3	52,920	52,989	53,058	53,127	53,196	53,266	53,335	53,404	53,473	53,543
33.4	53,612	53,682	53,751	53,821	53,891	53,960	54,030	54,100	54,170	54,240
33.5	54,310	54,380	54,450	54,520	54,590	54,660	54,730	54,801	54,871	54,942
33.6	55,012	55,083	55,153	55,224	55,294	55,365	55,436	55,507	55,578	55,649
33.7	55,720	55,791	55,862	55,933	56,004	56,076	56,147	56,218	56,290	56,361
33.8	56,433	56,504	56,576	56,648	56,719	56,791	56,863	56,935	57,007	57,079
33.9	57,151	57,223	57,295	57,367	57,440	57,512	57,584	57,657	57,729	57,802

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
34	57,874	57,947	58,020	58,092	58,165	58,238	58,311	58,384	58,457	58,530
34.1	58,603	58,676	58,749	58,823	58,896	58,969	59,043	59,116	59,190	59,263
34.2	59,337	59,410	59,484	59,558	59,632	59,706	59,779	59,853	59,927	60,002
34.3	60,076	60,150	60,224	60,298	60,373	60,447	60,521	60,596	60,671	60,745
34.4	60,820	60,894	60,969	61,044	61,119	61,194	61,269	61,344	61,419	61,494
34.5	61,569	61,644	61,719	61,794	61,870	61,945	62,020	62,096	62,171	62,247
34.6	62,322	62,398	62,474	62,550	62,625	62,701	62,777	62,853	62,929	63,005
34.7	63,081	63,157	63,233	63,309	63,386	63,462	63,538	63,615	63,691	63,768
34.8	63,844	63,921	63,997	64,074	64,151	64,227	64,304	64,381	64,458	64,535
34.9	64,612	64,689	64,766	64,843	64,920	64,997	65,074	65,152	65,229	65,306
35	65,384	65,461	65,539	65,616	65,694	65,771	65,849	65,927	66,004	66,082
35.1	66,160	66,238	66,316	66,394	66,472	66,550	66,628	66,706	66,784	66,862
35.2	66,940	67,019	67,097	67,175	67,254	67,332	67,411	67,489	67,568	67,646
35.3	67,725	67,804	67,882	67,961	68,040	68,119	68,198	68,277	68,356	68,435
35.4	68,514	68,593	68,672	68,751	68,831	68,910	68,989	69,069	69,148	69,228
35.5	69,307	69,387	69,466	69,546	69,626	69,705	69,785	69,865	69,945	70,025
35.6	70,104	70,184	70,264	70,344	70,425	70,505	70,585	70,665	70,745	70,826
35.7	70,906	70,986	71,067	71,147	71,228	71,308	71,389	71,470	71,550	71,631
35.8	71,712	71,793	71,873	71,954	72,035	72,116	72,197	72,278	72,359	72,441
35.9	72,522	72,603	72,684	72,765	72,847	72,928	73,010	73,091	73,173	73,254
36	73,336	73,417	73,499	73,581	73,662	73,744	73,826	73,908	73,990	74,072
36.1	74,154	74,236	74,318	74,400	74,482	74,564	74,647	74,729	74,811	74,893
36.2	74,976	75,058	75,141	75,223	75,306	75,389	75,471	75,554	75,637	75,719
36.3	75,802	75,885	75,968	76,051	76,134	76,217	76,300	76,383	76,466	76,550
36.4	76,633	76,716	76,800	76,883	76,966	77,050	77,133	77,217	77,301	77,384
36.5	77,468	77,552	77,635	77,719	77,803	77,887	77,971	78,055	78,139	78,223
36.6	78,308	78,392	78,476	78,560	78,645	78,729	78,814	78,898	78,983	79,067
36.7	79,152	79,237	79,321	79,406	79,491	79,576	79,661	79,746	79,831	79,916
36.8	80,001	80,086	80,171	80,257	80,342	80,427	80,513	80,598	80,684	80,769
36.9	80,855	80,940	81,026	81,112	81,198	81,284	81,369	81,455	81,542	81,628
37	81,714	81,800	81,886	81,973	82,059	82,146	82,232	82,319	82,405	82,492
37.1	82,579	82,666	82,752	82,839	82,926	83,013	83,100	83,188	83,275	83,362
37.2	83,449	83,537	83,624	83,712	83,799	83,887	83,974	84,062	84,150	84,237
37.3	84,325	84,413	84,501	84,589	84,677	84,765	84,853	84,941	85,030	85,118
37.4	85,206	85,295	85,383	85,471	85,560	85,649	85,737	85,826	85,915	86,004
37.5	86,092	86,181	86,270	86,359	86,448	86,537	86,627	86,716	86,805	86,895
37.6	86,984	87,074	87,163	87,253	87,342	87,432	87,522	87,612	87,702	87,792
37.7	87,882	87,972	88,062	88,152	88,242	88,332	88,423	88,513	88,604	88,694
37.8	88,785	88,875	88,966	89,057	89,147	89,238	89,329	89,420	89,511	89,602
37.9	89,693	89,785	89,876	89,967	90,058	90,150	90,241	90,333	90,424	90,516
38	90,608	90,700	90,791	90,883	90,975	91,067	91,159	91,251	91,344	91,436
38.1	91,528	91,621	91,713	91,805	91,898	91,990	92,083	92,176	92,269	92,361
38.2	92,454	92,547	92,640	92,733	92,826	92,919	93,013	93,106	93,199	93,293
38.3	93,386	93,480	93,573	93,667	93,761	93,854	93,948	94,042	94,136	94,230
38.4	94,324	94,418	94,512	94,607	94,701	94,795	94,890	94,984	95,079	95,173
38.5	95,268	95,363	95,457	95,552	95,647	95,742	95,837	95,932	96,027	96,122
38.6	96,218	96,313	96,408	96,504	96,599	96,695	96,790	96,886	96,982	97,077
38.7	97,173	97,269	97,365	97,461	97,557	97,653	97,750	97,846	97,942	98,039
38.8	98,135	98,232	98,328	98,425	98,521	98,618	98,715	98,812	98,909	99,006
38.9	99,103	99,200	99,297	99,394	99,492	99,589	99,686	99,784	99,881	99,979

Appendix I (continued)

Lake Houston

RESERVOIR CAPACITY TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

CAPACITY IN ACRE-FEET — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
39	100,077	100,174	100,272	100,370	100,468	100,566	100,664	100,762	100,860	100,959
39.1	101,057	101,155	101,254	101,352	101,451	101,549	101,648	101,747	101,846	101,944
39.2	102,043	102,142	102,241	102,340	102,440	102,539	102,638	102,737	102,837	102,936
39.3	103,036	103,135	103,235	103,335	103,434	103,534	103,634	103,734	103,834	103,934
39.4	104,034	104,134	104,235	104,335	104,435	104,536	104,636	104,737	104,837	104,938
39.5	105,038	105,139	105,240	105,341	105,442	105,543	105,644	105,745	105,846	105,947
39.6	106,048	106,150	106,251	106,353	106,454	106,556	106,657	106,759	106,861	106,962
39.7	107,064	107,166	107,268	107,370	107,472	107,574	107,676	107,778	107,881	107,983
39.8	108,085	108,188	108,290	108,393	108,495	108,598	108,701	108,804	108,906	109,009
39.9	109,112	109,215	109,318	109,421	109,524	109,628	109,731	109,834	109,938	110,041
40	110,145	110,248	110,352	110,455	110,559	110,663	110,767	110,870	110,974	111,078
40.1	111,182	111,286	111,390	111,495	111,599	111,703	111,807	111,912	112,016	112,121
40.2	112,225	112,330	112,435	112,539	112,644	112,749	112,854	112,959	113,064	113,169
40.3	113,274	113,379	113,484	113,589	113,695	113,800	113,905	114,011	114,116	114,222
40.4	114,328	114,433	114,539	114,645	114,751	114,856	114,962	115,068	115,174	115,280
40.5	115,386	115,493	115,599	115,705	115,811	115,918	116,024	116,131	116,237	116,344
40.6	116,450	116,557	116,663	116,770	116,877	116,984	117,091	117,197	117,304	117,411
40.7	117,518	117,625	117,733	117,840	117,947	118,054	118,161	118,269	118,376	118,484
40.8	118,591	118,699	118,806	118,914	119,021	119,129	119,237	119,344	119,452	119,560
40.9	119,668	119,776	119,884	119,992	120,100	120,208	120,316	120,424	120,533	120,641
41	120,749	120,858	120,966	121,074	121,183	121,291	121,400	121,509	121,617	121,726
41.1	121,835	121,943	122,052	122,161	122,270	122,379	122,488	122,597	122,706	122,815
41.2	122,925	123,034	123,143	123,252	123,362	123,471	123,581	123,690	123,800	123,909
41.3	124,019	124,129	124,238	124,348	124,458	124,568	124,678	124,788	124,898	125,008
41.4	125,118	125,228	125,338	125,448	125,558	125,669	125,779	125,889	126,000	126,110
41.5	126,221	126,331	126,442	126,553	126,663	126,774	126,885	126,996	127,107	127,218
41.6	127,328	127,439	127,551	127,662	127,773	127,884	127,995	128,106	128,218	128,329
41.7	128,440	128,552	128,663	128,775	128,887	128,998	129,110	129,222	129,333	129,445
41.8	129,557	129,669	129,781	129,893	130,005	130,117	130,229	130,341	130,453	130,565
41.9	130,678	130,790	130,902	131,015	131,127	131,240	131,352	131,465	131,578	131,690
42	131,803	131,916	132,029	132,141	132,254	132,367	132,480	132,593	132,706	132,820
42.1	132,933	133,046	133,159	133,272	133,386	133,499	133,613	133,726	133,840	133,953
42.2	134,067	134,180	134,294	134,408	134,522	134,636	134,749	134,863	134,977	135,091
42.3	135,205	135,319	135,434	135,548	135,662	135,776	135,891	136,005	136,119	

Note: Capacities above elevation 41.0 feet calculated from interpolated areas and extrapolated areas

Appendix J

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	0.00
-1	0	0	0	0	0	0	0	0	0	0
-0.9	0	0	0	0	0	0	0	0	0	0
-0.8	0	0	0	0	0	0	0	0	0	0
-0.7	0	0	0	0	0	0	0	0	0	0
-0.6	0	0	0	0	0	0	0	0	0	0
-0.5	0	0	0	0	0	0	0	0	0	0
-0.4	0	0	0	0	0	0	0	0	0	0
-0.3	0	0	0	0	0	0	0	0	0	0
-0.2	0	0	0	0	0	0	0	0	0	0
-0.1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	0	0	0	0	0	0	0	0	0	0
0.1	0	0	0	0	0	0	0	0	0	0
0.2	0	0	0	0	0	0	0	0	0	0
0.3	0	0	0	0	0	0	0	0	0	0
0.4	0	0	0	0	0	0	0	0	0	0
0.5	0	0	0	0	0	0	0	0	0	0
0.6	0	0	0	0	0	0	0	0	0	0
0.7	0	0	0	0	0	0	0	0	0	0
0.8	0	0	0	0	0	0	0	0	0	0
0.9	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0
1.1	0	0	0	0	0	0	0	0	0	0
1.2	0	0	0	0	0	0	0	0	0	0
1.3	0	0	0	0	0	0	0	0	0	0
1.4	0	0	0	0	0	0	0	0	0	0
1.5	0	0	0	0	0	0	0	0	0	0
1.6	0	0	0	0	0	0	0	0	0	0
1.7	0	0	0	0	0	0	0	0	0	0
1.8	0	0	0	0	0	0	0	0	0	0
1.9	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
2.1	0	0	0	0	0	0	0	0	0	0
2.2	0	0	0	0	0	0	0	0	0	0
2.3	0	0	0	0	0	0	0	0	0	0
2.4	0	0	0	0	0	0	0	1	1	1
2.5	1	1	1	1	1	1	1	1	1	1
2.6	1	1	1	1	1	1	1	1	1	1
2.7	1	1	1	1	1	1	1	1	1	1
2.8	1	1	1	1	1	1	1	1	1	1
2.9	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1
3.1	1	1	1	1	1	1	1	1	1	1
3.2	1	1	1	1	1	1	1	1	1	2
3.3	2	2	2	2	2	2	2	2	2	2
3.4	2	2	2	2	2	2	2	2	2	2
3.5	2	2	2	2	2	2	2	2	2	2
3.6	2	2	2	2	2	2	2	2	2	2
3.7	2	2	2	2	2	2	2	2	2	2
3.8	2	3	3	3	3	3	3	3	3	3
3.9	3	3	3	3	3	3	3	3	3	3

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
4	3	3	3	3	3	3	3	3	3	3
4.1	4	4	4	4	4	4	4	5	5	5
4.2	5	5	5	5	5	5	5	6	6	6
4.3	6	6	6	6	6	6	6	7	7	7
4.4	7	7	7	7	7	7	7	7	7	7
4.5	8	8	8	8	8	8	8	8	8	8
4.6	8	8	8	8	9	9	9	9	9	9
4.7	9	9	9	9	9	9	9	9	9	10
4.8	10	10	10	10	10	10	10	10	10	10
4.9	10	10	10	11	11	11	11	11	11	11
5	11	11	11	11	11	11	12	12	12	12
5.1	12	12	12	12	12	13	13	13	13	13
5.2	13	13	13	13	13	14	14	14	14	14
5.3	14	14	14	14	14	15	15	15	15	15
5.4	15	15	15	15	15	15	16	16	16	16
5.5	16	16	16	16	16	16	17	17	17	17
5.6	17	17	17	17	17	17	18	18	18	18
5.7	18	18	18	18	18	18	19	19	19	19
5.8	19	19	19	19	19	19	20	20	20	20
5.9	20	20	20	20	20	21	21	21	21	21
6	21	21	21	21	22	22	22	22	22	22
6.1	22	22	22	22	23	23	23	23	23	23
6.2	23	23	23	24	24	24	24	24	24	24
6.3	25	25	25	25	25	25	25	25	25	26
6.4	26	26	26	26	26	26	26	26	27	27
6.5	27	27	27	27	27	27	27	27	28	28
6.6	28	28	28	28	28	28	28	28	29	29
6.7	29	29	29	29	29	30	30	30	30	30
6.8	30	30	31	31	31	31	31	31	31	32
6.9	32	32	32	32	32	32	32	33	33	33
7	33	33	33	34	34	34	34	34	34	35
7.1	35	35	35	35	36	36	36	36	36	37
7.2	37	37	37	37	38	38	38	38	38	39
7.3	39	39	39	39	40	40	40	40	40	41
7.4	41	41	41	41	41	42	42	42	42	42
7.5	42	43	43	43	43	43	44	44	44	44
7.6	44	45	45	45	45	45	46	46	46	46
7.7	46	47	47	47	47	48	48	48	48	48
7.8	49	49	49	49	50	50	50	50	51	51
7.9	51	51	51	52	52	52	52	53	53	53
8	53	54	54	54	54	55	55	55	56	56
8.1	56	56	57	57	57	57	58	58	59	59
8.2	59	60	60	60	61	61	61	62	62	62
8.3	63	63	63	64	64	64	65	65	65	66
8.4	66	66	67	67	67	68	68	68	69	69
8.5	69	70	70	70	71	71	71	71	72	72
8.6	72	73	73	73	74	74	74	74	75	75
8.7	75	76	76	76	76	77	77	77	78	78
8.8	78	78	79	79	79	80	80	80	81	81
8.9	82	82	82	83	83	83	84	84	84	84

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
9	85	85	85	86	86	86	87	87	87	87
9.1	88	88	88	89	89	89	89	90	90	90
9.2	91	91	91	91	92	92	92	92	93	93
9.3	93	94	94	94	94	95	95	95	95	96
9.4	96	96	96	97	97	97	98	98	98	98
9.5	99	99	99	100	100	100	101	101	101	101
9.6	102	102	102	103	103	103	103	104	104	104
9.7	104	105	105	105	106	106	106	106	107	107
9.8	107	107	108	108	108	109	109	109	109	110
9.9	110	110	110	111	111	111	111	112	112	112
10	112	113	113	113	114	114	114	114	115	115
10.1	115	116	116	116	116	117	117	117	117	118
10.2	118	118	118	119	119	119	120	120	120	121
10.3	121	121	121	122	122	122	123	123	123	124
10.4	124	124	125	125	125	126	126	126	127	127
10.5	127	128	128	128	129	129	129	129	130	130
10.6	130	131	131	131	132	132	132	133	133	133
10.7	133	134	134	134	135	135	135	136	136	137
10.8	137	137	138	138	138	138	139	139	139	140
10.9	140	140	140	141	141	141	142	142	142	142
11	143	143	143	144	144	144	145	145	145	146
11.1	146	146	146	147	147	147	148	148	148	149
11.2	149	149	150	150	150	151	151	151	152	152
11.3	152	153	153	153	154	154	154	155	155	156
11.4	156	156	157	157	158	158	159	159	159	160
11.5	160	161	161	162	162	163	163	163	164	164
11.6	165	165	166	166	167	167	168	168	169	169
11.7	170	170	171	171	172	172	173	174	174	175
11.8	175	176	176	177	177	178	179	179	180	180
11.9	181	181	182	182	183	183	184	184	185	185
12	186	186	187	187	188	188	189	189	190	190
12.1	191	191	192	192	193	193	194	194	195	195
12.2	196	196	197	197	198	198	199	199	200	200
12.3	201	201	202	202	203	203	204	204	205	206
12.4	206	207	207	208	208	209	209	210	211	211
12.5	212	212	213	213	214	214	215	215	216	217
12.6	217	218	218	219	219	220	220	221	221	222
12.7	223	223	224	224	225	225	226	226	227	227
12.8	228	228	229	230	230	231	231	232	232	233
12.9	233	234	235	235	236	236	237	237	238	239
13	239	240	240	241	241	242	242	243	243	244
13.1	244	245	245	246	246	247	247	248	248	249
13.2	249	250	250	251	252	252	253	253	254	254
13.3	255	255	256	256	257	257	258	258	259	260
13.4	260	261	261	262	262	263	263	264	264	265
13.5	266	266	267	267	268	268	269	270	271	271
13.6	272	273	274	274	275	276	276	277	278	278
13.7	279	279	280	281	281	282	283	283	284	285
13.8	286	287	287	288	289	289	290	291	291	292
13.9	293	294	295	295	296	297	297	298	299	299

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
14	300	301	302	302	303	304	304	305	306	306
14.1	307	307	308	309	309	310	311	311	312	313
14.2	313	314	314	315	316	316	317	318	318	319
14.3	320	320	321	322	322	323	324	324	325	325
14.4	326	327	327	328	329	329	330	331	332	332
14.5	333	334	335	336	337	337	338	339	340	340
14.6	341	342	343	343	344	345	346	347	347	348
14.7	349	350	350	351	352	353	354	355	355	356
14.8	357	358	359	360	361	362	363	363	364	365
14.9	366	367	368	369	370	370	371	372	373	374
15	375	375	376	377	378	379	380	381	382	383
15.1	384	385	386	387	388	389	390	391	391	392
15.2	393	394	395	396	397	398	399	399	400	401
15.3	402	403	404	404	405	406	407	408	408	409
15.4	410	411	412	413	413	414	415	416	417	418
15.5	418	419	420	421	422	423	424	425	426	427
15.6	428	428	429	430	431	432	433	434	434	435
15.7	436	437	438	439	439	440	441	442	443	444
15.8	445	445	446	447	448	449	450	451	451	452
15.9	453	454	455	456	456	457	458	459	460	461
16	462	462	463	464	465	467	468	469	470	471
16.1	472	472	473	474	475	476	477	477	478	479
16.2	480	481	481	482	483	484	485	485	486	487
16.3	488	489	490	490	491	492	493	494	494	495
16.4	496	497	498	498	499	500	501	502	502	503
16.5	504	505	506	506	507	508	509	510	510	511
16.6	512	513	514	514	515	516	517	518	519	519
16.7	520	521	522	523	524	524	525	526	527	528
16.8	529	530	530	531	532	533	534	535	535	536
16.9	537	538	539	540	541	541	542	543	544	545
17	546	547	548	548	549	550	551	552	553	554
17.1	555	556	556	557	558	559	560	561	562	563
17.2	564	565	566	567	568	569	570	570	571	572
17.3	573	574	575	576	577	578	579	580	581	582
17.4	583	584	585	586	587	588	589	590	591	592
17.5	593	594	595	596	597	598	599	601	602	603
17.6	604	605	606	607	608	609	610	611	612	614
17.7	615	616	617	619	620	621	622	624	625	626
17.8	627	629	630	631	633	634	635	637	638	639
17.9	640	642	643	644	645	647	648	649	651	652
18	653	654	656	657	658	660	661	663	664	666
18.1	667	669	670	671	673	674	676	677	678	680
18.2	681	683	684	685	687	688	690	691	692	694
18.3	695	697	698	700	701	702	704	705	707	708
18.4	709	711	712	714	715	717	718	720	721	723
18.5	724	726	727	729	730	732	733	735	737	738
18.6	740	741	743	745	746	748	749	751	753	754
18.7	756	758	760	762	763	765	767	769	771	772
18.8	774	775	777	779	780	782	783	785	787	788
18.9	790	791	793	795	796	798	800	801	803	805

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
19	806	808	810	811	813	815	817	818	820	822
19.1	824	826	828	829	831	833	835	837	839	841
19.2	843	845	847	848	850	852	854	856	858	860
19.3	862	864	866	868	870	872	874	876	878	880
19.4	881	883	885	887	889	891	893	895	897	899
19.5	901	903	905	907	909	911	913	915	917	919
19.6	921	923	926	928	930	933	935	937	940	942
19.7	945	947	950	953	955	958	961	963	966	969
19.8	971	974	977	979	982	984	987	990	993	996
19.9	998	1,001	1,004	1,006	1,009	1,011	1,014	1,017	1,019	1,022
20	1,025	1,027	1,030	1,033	1,035	1,038	1,041	1,043	1,046	1,049
20.1	1,051	1,054	1,057	1,059	1,062	1,065	1,068	1,070	1,073	1,076
20.2	1,078	1,081	1,083	1,086	1,088	1,090	1,093	1,095	1,097	1,099
20.3	1,101	1,104	1,106	1,108	1,110	1,113	1,115	1,117	1,120	1,122
20.4	1,124	1,127	1,129	1,132	1,134	1,137	1,139	1,142	1,144	1,146
20.5	1,148	1,151	1,153	1,155	1,157	1,159	1,161	1,164	1,166	1,168
20.6	1,170	1,172	1,174	1,176	1,179	1,181	1,183	1,185	1,187	1,189
20.7	1,192	1,194	1,196	1,198	1,200	1,202	1,205	1,207	1,209	1,211
20.8	1,213	1,215	1,218	1,220	1,222	1,224	1,226	1,228	1,231	1,233
20.9	1,235	1,237	1,240	1,242	1,244	1,246	1,249	1,251	1,253	1,255
21	1,257	1,259	1,261	1,264	1,266	1,268	1,270	1,272	1,275	1,277
21.1	1,279	1,281	1,283	1,285	1,288	1,290	1,292	1,294	1,296	1,298
21.2	1,301	1,303	1,305	1,307	1,309	1,312	1,314	1,316	1,318	1,320
21.3	1,322	1,325	1,327	1,329	1,331	1,333	1,335	1,338	1,340	1,342
21.4	1,344	1,346	1,349	1,351	1,353	1,355	1,357	1,360	1,362	1,364
21.5	1,366	1,368	1,371	1,373	1,375	1,377	1,379	1,382	1,384	1,386
21.6	1,388	1,391	1,393	1,395	1,397	1,400	1,402	1,404	1,407	1,409
21.7	1,411	1,413	1,416	1,418	1,420	1,423	1,425	1,427	1,430	1,432
21.8	1,435	1,437	1,440	1,443	1,445	1,448	1,451	1,453	1,456	1,459
21.9	1,462	1,464	1,467	1,470	1,473	1,476	1,478	1,481	1,484	1,487
22	1,490	1,493	1,496	1,498	1,501	1,504	1,507	1,510	1,513	1,516
22.1	1,518	1,521	1,524	1,527	1,530	1,533	1,536	1,539	1,542	1,546
22.2	1,549	1,552	1,555	1,558	1,561	1,564	1,567	1,569	1,572	1,575
22.3	1,578	1,581	1,584	1,587	1,590	1,593	1,596	1,600	1,603	1,606
22.4	1,609	1,612	1,615	1,618	1,621	1,624	1,627	1,630	1,633	1,636
22.5	1,639	1,642	1,645	1,648	1,652	1,655	1,658	1,662	1,665	1,668
22.6	1,672	1,675	1,678	1,682	1,685	1,689	1,692	1,696	1,699	1,703
22.7	1,707	1,710	1,714	1,717	1,721	1,724	1,728	1,731	1,735	1,739
22.8	1,742	1,746	1,749	1,753	1,757	1,760	1,764	1,767	1,771	1,774
22.9	1,778	1,781	1,785	1,789	1,793	1,797	1,801	1,805	1,809	1,812
23	1,816	1,820	1,824	1,828	1,831	1,835	1,839	1,843	1,847	1,850
23.1	1,854	1,858	1,862	1,865	1,869	1,874	1,878	1,882	1,886	1,890
23.2	1,894	1,898	1,902	1,906	1,910	1,914	1,917	1,921	1,925	1,928
23.3	1,932	1,936	1,939	1,943	1,947	1,950	1,954	1,958	1,962	1,966
23.4	1,970	1,974	1,978	1,982	1,986	1,991	1,995	2,000	2,004	2,008
23.5	2,013	2,017	2,022	2,026	2,030	2,035	2,039	2,043	2,047	2,051
23.6	2,056	2,060	2,064	2,068	2,072	2,077	2,081	2,085	2,089	2,093
23.7	2,098	2,102	2,106	2,110	2,115	2,119	2,123	2,127	2,132	2,136
23.8	2,140	2,144	2,149	2,153	2,157	2,161	2,166	2,170	2,174	2,178
23.9	2,183	2,187	2,191	2,196	2,200	2,204	2,208	2,213	2,217	2,221

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
24	2,225	2,230	2,234	2,238	2,242	2,246	2,250	2,254	2,258	2,263
24.1	2,267	2,271	2,275	2,279	2,283	2,287	2,291	2,295	2,299	2,303
24.2	2,307	2,311	2,315	2,319	2,323	2,327	2,331	2,335	2,339	2,343
24.3	2,347	2,351	2,355	2,359	2,363	2,367	2,371	2,375	2,379	2,383
24.4	2,387	2,391	2,395	2,400	2,404	2,408	2,412	2,416	2,421	2,425
24.5	2,429	2,433	2,438	2,442	2,446	2,450	2,454	2,459	2,463	2,467
24.6	2,471	2,475	2,480	2,485	2,489	2,494	2,499	2,503	2,508	2,513
24.7	2,517	2,522	2,527	2,532	2,536	2,541	2,545	2,550	2,555	2,559
24.8	2,564	2,569	2,574	2,578	2,583	2,587	2,592	2,597	2,601	2,606
24.9	2,611	2,616	2,620	2,625	2,630	2,635	2,640	2,645	2,650	2,655
25	2,660	2,665	2,670	2,675	2,680	2,685	2,690	2,695	2,700	2,705
25.1	2,710	2,715	2,720	2,725	2,730	2,735	2,740	2,745	2,750	2,755
25.2	2,760	2,764	2,769	2,774	2,779	2,784	2,789	2,794	2,800	2,805
25.3	2,810	2,815	2,820	2,826	2,831	2,836	2,842	2,847	2,852	2,858
25.4	2,863	2,869	2,874	2,880	2,885	2,891	2,897	2,902	2,908	2,913
25.5	2,919	2,924	2,930	2,936	2,941	2,946	2,952	2,958	2,963	2,969
25.6	2,975	2,981	2,987	2,992	2,998	3,004	3,010	3,016	3,023	3,029
25.7	3,035	3,041	3,047	3,053	3,059	3,066	3,072	3,078	3,085	3,091
25.8	3,098	3,104	3,110	3,117	3,123	3,130	3,136	3,142	3,148	3,155
25.9	3,161	3,167	3,174	3,180	3,186	3,193	3,200	3,207	3,213	3,219
26	3,225	3,231	3,237	3,243	3,249	3,256	3,262	3,268	3,275	3,281
26.1	3,287	3,294	3,300	3,306	3,312	3,318	3,324	3,330	3,336	3,342
26.2	3,348	3,353	3,359	3,365	3,371	3,377	3,383	3,389	3,396	3,402
26.3	3,408	3,414	3,420	3,427	3,433	3,440	3,446	3,453	3,460	3,467
26.4	3,473	3,480	3,487	3,493	3,500	3,506	3,512	3,519	3,525	3,531
26.5	3,537	3,543	3,550	3,556	3,562	3,569	3,575	3,582	3,588	3,594
26.6	3,601	3,607	3,614	3,620	3,627	3,633	3,640	3,646	3,653	3,659
26.7	3,666	3,672	3,678	3,685	3,691	3,697	3,703	3,709	3,715	3,720
26.8	3,726	3,731	3,737	3,743	3,748	3,754	3,759	3,765	3,770	3,776
26.9	3,781	3,787	3,792	3,797	3,802	3,807	3,812	3,817	3,822	3,827
27	3,832	3,837	3,842	3,847	3,852	3,857	3,861	3,866	3,871	3,876
27.1	3,881	3,886	3,891	3,896	3,900	3,905	3,910	3,915	3,920	3,924
27.2	3,929	3,934	3,938	3,943	3,948	3,953	3,957	3,962	3,967	3,971
27.3	3,976	3,980	3,985	3,989	3,994	3,998	4,003	4,007	4,012	4,016
27.4	4,020	4,025	4,029	4,034	4,038	4,042	4,047	4,051	4,055	4,060
27.5	4,064	4,069	4,073	4,077	4,082	4,086	4,090	4,095	4,099	4,104
27.6	4,108	4,113	4,117	4,121	4,126	4,130	4,135	4,139	4,144	4,148
27.7	4,153	4,157	4,162	4,166	4,171	4,176	4,180	4,185	4,189	4,194
27.8	4,198	4,203	4,207	4,212	4,216	4,221	4,225	4,230	4,235	4,239
27.9	4,244	4,248	4,253	4,257	4,262	4,267	4,271	4,276	4,281	4,285
28	4,290	4,295	4,299	4,304	4,309	4,313	4,318	4,323	4,328	4,332
28.1	4,337	4,342	4,347	4,352	4,357	4,362	4,366	4,371	4,375	4,380
28.2	4,385	4,389	4,394	4,398	4,402	4,407	4,411	4,416	4,420	4,424
28.3	4,429	4,433	4,437	4,442	4,446	4,450	4,454	4,459	4,463	4,467
28.4	4,471	4,476	4,480	4,484	4,489	4,493	4,497	4,502	4,506	4,511
28.5	4,515	4,520	4,524	4,528	4,533	4,537	4,541	4,546	4,550	4,554
28.6	4,559	4,563	4,567	4,571	4,575	4,579	4,583	4,587	4,591	4,595
28.7	4,599	4,604	4,608	4,612	4,616	4,620	4,624	4,628	4,632	4,636
28.8	4,640	4,644	4,648	4,652	4,656	4,660	4,664	4,668	4,673	4,677
28.9	4,681	4,685	4,689	4,694	4,698	4,702	4,706	4,710	4,715	4,719

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
29	4,723	4,728	4,732	4,736	4,741	4,745	4,749	4,754	4,758	4,763
29.1	4,767	4,772	4,776	4,781	4,785	4,789	4,794	4,798	4,802	4,807
29.2	4,811	4,815	4,819	4,823	4,827	4,831	4,836	4,840	4,844	4,848
29.3	4,852	4,856	4,861	4,865	4,869	4,873	4,877	4,881	4,886	4,890
29.4	4,894	4,898	4,902	4,906	4,910	4,914	4,918	4,922	4,926	4,930
29.5	4,935	4,939	4,943	4,947	4,951	4,955	4,959	4,963	4,968	4,972
29.6	4,976	4,981	4,985	4,989	4,994	4,999	5,003	5,008	5,012	5,017
29.7	5,022	5,026	5,031	5,036	5,040	5,045	5,050	5,055	5,060	5,065
29.8	5,070	5,074	5,079	5,084	5,089	5,093	5,098	5,103	5,108	5,113
29.9	5,117	5,122	5,127	5,132	5,136	5,141	5,146	5,150	5,155	5,160
30	5,164	5,169	5,174	5,179	5,183	5,188	5,193	5,198	5,203	5,208
30.1	5,213	5,218	5,223	5,228	5,233	5,238	5,243	5,248	5,253	5,258
30.2	5,262	5,267	5,272	5,277	5,282	5,287	5,292	5,297	5,301	5,306
30.3	5,311	5,316	5,321	5,326	5,331	5,336	5,341	5,346	5,351	5,356
30.4	5,361	5,366	5,371	5,376	5,381	5,385	5,390	5,395	5,400	5,405
30.5	5,410	5,415	5,420	5,425	5,429	5,434	5,439	5,444	5,449	5,454
30.6	5,458	5,463	5,468	5,472	5,477	5,482	5,487	5,492	5,497	5,501
30.7	5,506	5,511	5,516	5,520	5,525	5,530	5,535	5,539	5,544	5,549
30.8	5,554	5,558	5,563	5,568	5,573	5,578	5,583	5,588	5,593	5,598
30.9	5,603	5,608	5,613	5,618	5,623	5,628	5,633	5,638	5,643	5,648
31	5,653	5,658	5,663	5,668	5,673	5,677	5,682	5,687	5,692	5,697
31.1	5,701	5,706	5,711	5,715	5,720	5,724	5,729	5,733	5,738	5,743
31.2	5,747	5,752	5,757	5,761	5,766	5,771	5,776	5,780	5,785	5,790
31.3	5,794	5,799	5,804	5,809	5,813	5,818	5,823	5,828	5,832	5,837
31.4	5,842	5,847	5,852	5,857	5,862	5,867	5,872	5,878	5,883	5,888
31.5	5,893	5,899	5,904	5,910	5,915	5,920	5,926	5,931	5,937	5,943
31.6	5,948	5,954	5,959	5,965	5,971	5,976	5,982	5,988	5,993	5,999
31.7	6,005	6,010	6,016	6,021	6,027	6,033	6,038	6,044	6,050	6,056
31.8	6,061	6,067	6,073	6,078	6,084	6,090	6,095	6,101	6,107	6,112
31.9	6,118	6,123	6,129	6,134	6,140	6,145	6,151	6,157	6,162	6,168
32	6,174	6,180	6,186	6,193	6,199	6,205	6,211	6,217	6,224	6,230
32.1	6,236	6,242	6,247	6,253	6,259	6,265	6,270	6,276	6,282	6,288
32.2	6,293	6,299	6,305	6,312	6,318	6,324	6,330	6,336	6,342	6,347
32.3	6,353	6,359	6,365	6,371	6,377	6,383	6,388	6,394	6,400	6,405
32.4	6,411	6,417	6,422	6,428	6,434	6,439	6,445	6,450	6,456	6,461
32.5	6,466	6,472	6,477	6,482	6,488	6,493	6,499	6,504	6,509	6,515
32.6	6,520	6,525	6,531	6,536	6,541	6,547	6,553	6,558	6,563	6,569
32.7	6,574	6,580	6,585	6,590	6,596	6,601	6,606	6,611	6,617	6,622
32.8	6,627	6,632	6,638	6,643	6,648	6,654	6,659	6,664	6,670	6,675
32.9	6,681	6,687	6,692	6,698	6,703	6,709	6,714	6,720	6,725	6,730
33	6,736	6,741	6,747	6,752	6,757	6,763	6,768	6,773	6,779	6,784
33.1	6,790	6,795	6,801	6,806	6,811	6,817	6,822	6,827	6,833	6,838
33.2	6,843	6,848	6,854	6,859	6,864	6,870	6,875	6,880	6,885	6,890
33.3	6,895	6,900	6,905	6,910	6,915	6,920	6,925	6,930	6,935	6,941
33.4	6,946	6,951	6,956	6,962	6,967	6,972	6,978	6,983	6,988	6,994
33.5	6,999	7,004	7,010	7,015	7,020	7,025	7,031	7,036	7,041	7,046
33.6	7,051	7,056	7,061	7,067	7,072	7,077	7,082	7,087	7,093	7,098
33.7	7,103	7,108	7,114	7,119	7,124	7,130	7,135	7,140	7,145	7,150
33.8	7,155	7,161	7,166	7,171	7,177	7,182	7,187	7,193	7,198	7,204
33.9	7,209	7,214	7,220	7,225	7,230	7,235	7,241	7,246	7,251	7,256

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
34	7,261	7,266	7,271	7,276	7,281	7,286	7,291	7,296	7,302	7,307
34.1	7,312	7,317	7,322	7,327	7,332	7,337	7,343	7,348	7,353	7,358
34.2	7,363	7,368	7,373	7,379	7,384	7,389	7,394	7,399	7,405	7,410
34.3	7,415	7,420	7,425	7,430	7,435	7,441	7,446	7,451	7,456	7,461
34.4	7,466	7,470	7,475	7,480	7,485	7,490	7,495	7,500	7,505	7,510
34.5	7,514	7,519	7,524	7,529	7,533	7,538	7,543	7,547	7,552	7,557
34.6	7,561	7,566	7,571	7,575	7,580	7,585	7,590	7,594	7,599	7,604
34.7	7,608	7,613	7,618	7,622	7,627	7,631	7,636	7,640	7,645	7,649
34.8	7,654	7,658	7,662	7,667	7,671	7,675	7,680	7,684	7,689	7,693
34.9	7,698	7,702	7,706	7,711	7,715	7,720	7,724	7,728	7,733	7,737
35	7,741	7,746	7,750	7,754	7,758	7,763	7,767	7,771	7,775	7,779
35.1	7,783	7,787	7,792	7,796	7,800	7,804	7,808	7,813	7,817	7,821
35.2	7,825	7,829	7,834	7,838	7,842	7,846	7,851	7,855	7,859	7,864
35.3	7,868	7,872	7,877	7,881	7,885	7,889	7,894	7,898	7,902	7,906
35.4	7,911	7,915	7,919	7,923	7,928	7,932	7,936	7,940	7,944	7,949
35.5	7,953	7,957	7,961	7,966	7,970	7,974	7,978	7,982	7,987	7,991
35.6	7,995	7,999	8,003	8,008	8,012	8,016	8,020	8,024	8,029	8,033
35.7	8,037	8,041	8,045	8,049	8,054	8,058	8,062	8,066	8,070	8,074
35.8	8,079	8,083	8,087	8,091	8,095	8,099	8,103	8,107	8,111	8,115
35.9	8,120	8,124	8,128	8,132	8,136	8,140	8,144	8,148	8,152	8,156
36	8,160	8,164	8,168	8,172	8,176	8,180	8,185	8,189	8,193	8,197
36.1	8,201	8,205	8,209	8,213	8,218	8,222	8,226	8,230	8,234	8,238
36.2	8,242	8,247	8,251	8,255	8,259	8,263	8,267	8,272	8,276	8,280
36.3	8,285	8,289	8,293	8,298	8,302	8,306	8,311	8,315	8,320	8,324
36.4	8,328	8,333	8,337	8,342	8,346	8,350	8,355	8,359	8,364	8,368
36.5	8,373	8,377	8,382	8,387	8,391	8,396	8,401	8,405	8,410	8,415
36.6	8,420	8,425	8,429	8,434	8,439	8,443	8,448	8,453	8,457	8,462
36.7	8,466	8,471	8,475	8,480	8,485	8,490	8,495	8,500	8,505	8,510
36.8	8,514	8,519	8,524	8,529	8,534	8,538	8,543	8,548	8,553	8,558
36.9	8,563	8,569	8,574	8,579	8,585	8,591	8,596	8,602	8,608	8,614
37	8,621	8,627	8,633	8,639	8,645	8,650	8,656	8,662	8,667	8,672
37.1	8,677	8,683	8,688	8,694	8,699	8,705	8,711	8,716	8,722	8,727
37.2	8,733	8,738	8,743	8,748	8,754	8,759	8,764	8,769	8,774	8,779
37.3	8,784	8,789	8,794	8,799	8,804	8,810	8,815	8,820	8,825	8,831
37.4	8,836	8,841	8,846	8,851	8,857	8,862	8,867	8,873	8,878	8,884
37.5	8,889	8,895	8,900	8,906	8,911	8,917	8,923	8,929	8,935	8,941
37.6	8,947	8,952	8,958	8,964	8,969	8,975	8,981	8,986	8,991	8,997
37.7	9,002	9,008	9,014	9,019	9,025	9,030	9,036	9,041	9,047	9,052
37.8	9,058	9,064	9,070	9,075	9,081	9,087	9,093	9,099	9,105	9,111
37.9	9,116	9,122	9,128	9,134	9,139	9,145	9,151	9,157	9,163	9,168
38	9,174	9,180	9,186	9,191	9,197	9,203	9,208	9,214	9,220	9,226
38.1	9,232	9,238	9,244	9,249	9,255	9,261	9,267	9,272	9,278	9,284
38.2	9,290	9,296	9,302	9,308	9,314	9,320	9,326	9,331	9,337	9,343
38.3	9,349	9,355	9,361	9,367	9,373	9,379	9,385	9,391	9,397	9,403
38.4	9,409	9,415	9,420	9,426	9,432	9,438	9,444	9,450	9,456	9,462
38.5	9,468	9,473	9,479	9,485	9,491	9,497	9,503	9,509	9,515	9,521
38.6	9,527	9,533	9,539	9,545	9,551	9,557	9,563	9,569	9,575	9,581
38.7	9,587	9,593	9,599	9,605	9,611	9,617	9,623	9,629	9,635	9,641
38.8	9,647	9,653	9,659	9,665	9,671	9,677	9,683	9,689	9,695	9,701
38.9	9,708	9,714	9,720	9,726	9,733	9,739	9,745	9,752	9,758	9,764

Appendix J (continued)

Lake Houston

RESERVOIR AREA TABLE

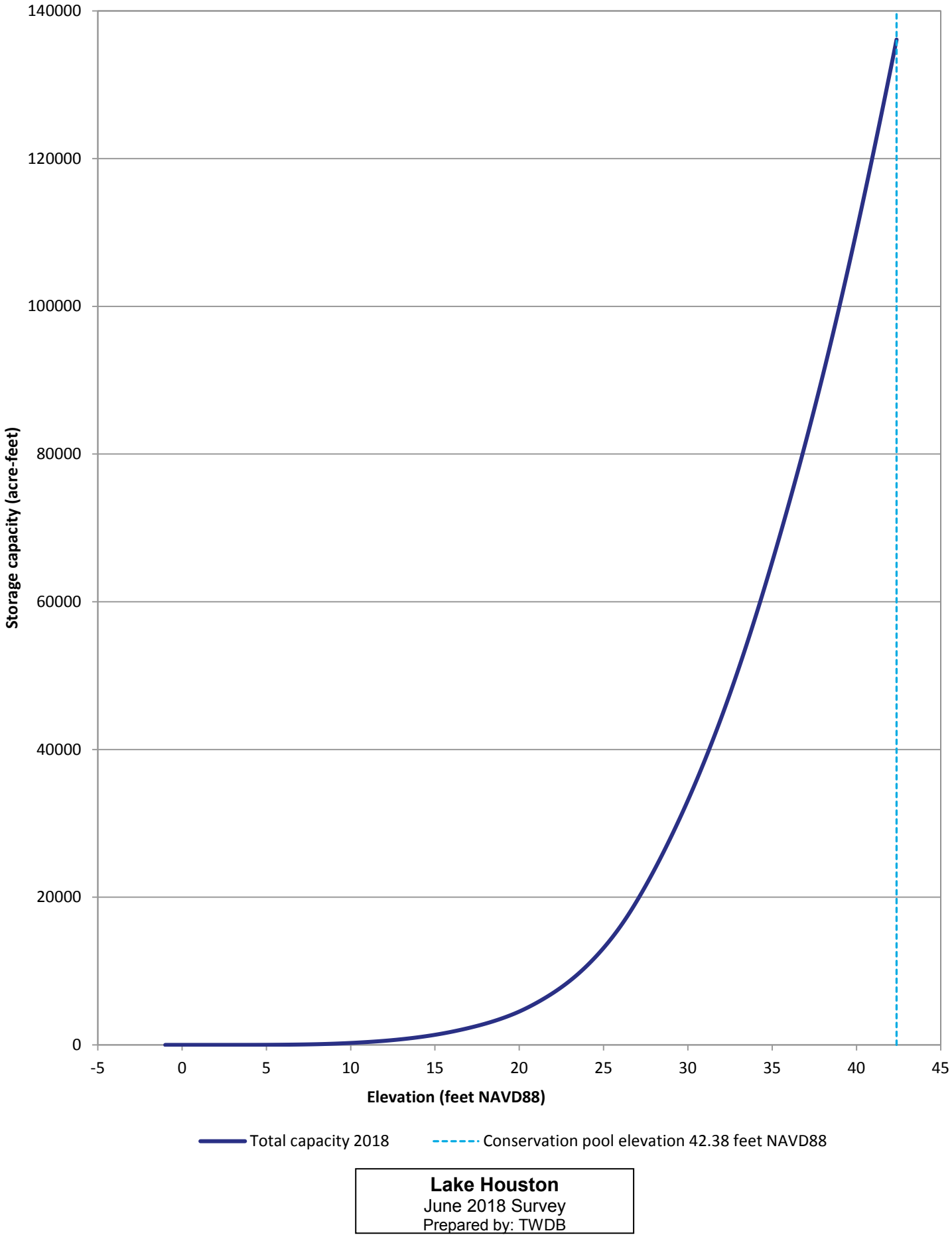
TEXAS WATER DEVELOPMENT BOARD — June 2018 Survey

AREA IN ACRES — Conservation Pool Elevation 42.38 feet NAVD88

ELEVATION INCREMENT IS ONE HUNDREDTH FOOT

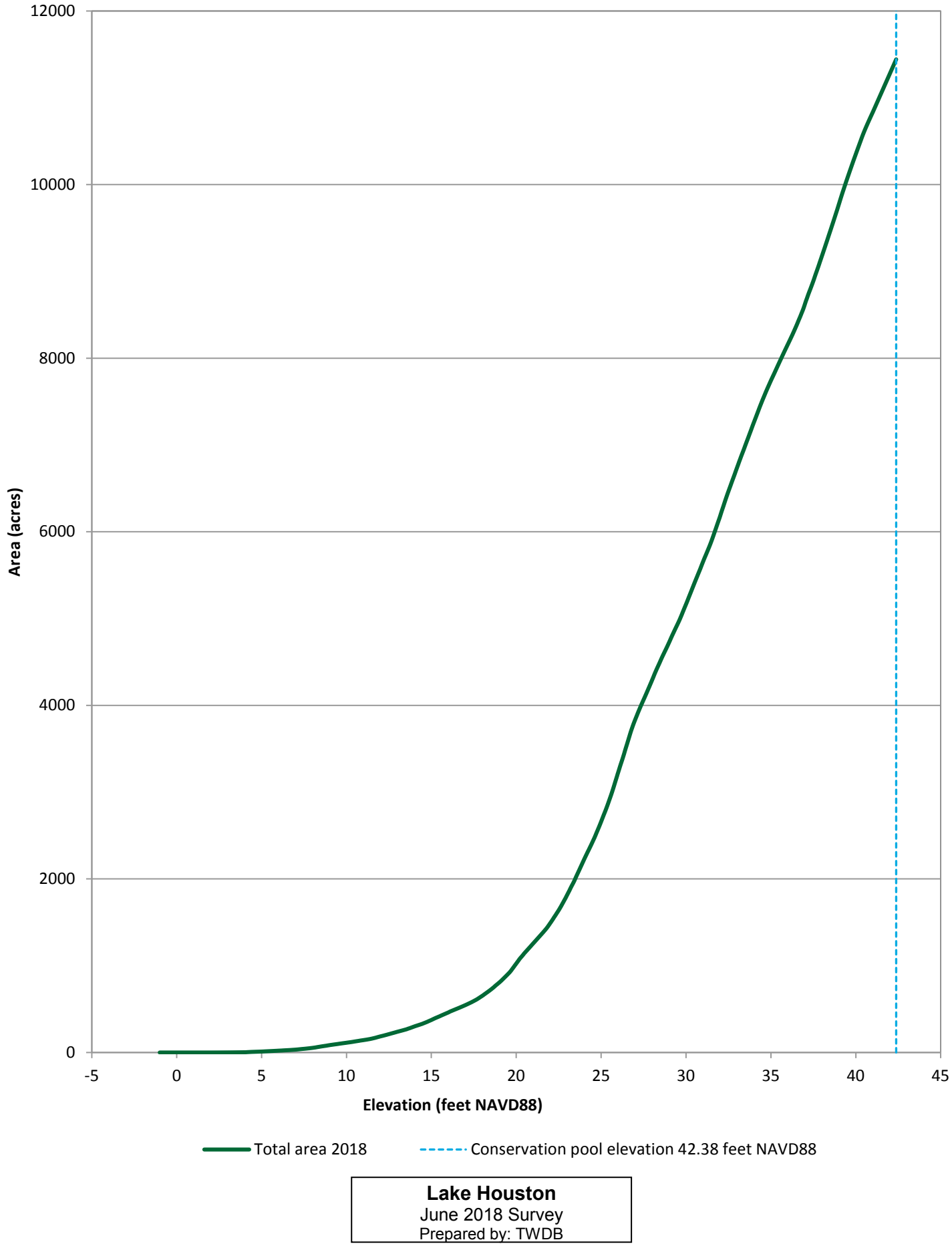
ELEVATION in Feet	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
39	9,771	9,777	9,783	9,789	9,796	9,802	9,808	9,815	9,821	9,828
39.1	9,834	9,840	9,846	9,852	9,859	9,865	9,871	9,877	9,883	9,889
39.2	9,895	9,901	9,907	9,913	9,919	9,925	9,931	9,937	9,943	9,949
39.3	9,954	9,960	9,966	9,972	9,978	9,984	9,990	9,996	10,002	10,008
39.4	10,014	10,020	10,026	10,031	10,037	10,043	10,048	10,054	10,060	10,066
39.5	10,071	10,077	10,083	10,088	10,094	10,100	10,105	10,111	10,117	10,123
39.6	10,128	10,134	10,140	10,145	10,151	10,157	10,162	10,168	10,174	10,179
39.7	10,185	10,190	10,196	10,201	10,207	10,213	10,218	10,224	10,230	10,235
39.8	10,241	10,246	10,252	10,257	10,263	10,269	10,274	10,279	10,285	10,290
39.9	10,296	10,301	10,307	10,312	10,318	10,323	10,328	10,334	10,339	10,345
40	10,350	10,355	10,361	10,366	10,372	10,377	10,383	10,388	10,393	10,399
40.1	10,404	10,410	10,415	10,420	10,426	10,431	10,436	10,442	10,447	10,452
40.2	10,458	10,463	10,468	10,474	10,479	10,484	10,490	10,495	10,500	10,506
40.3	10,511	10,517	10,522	10,527	10,533	10,538	10,543	10,549	10,554	10,559
40.4	10,564	10,569	10,574	10,579	10,584	10,589	10,594	10,599	10,604	10,609
40.5	10,613	10,618	10,623	10,627	10,632	10,637	10,641	10,646	10,651	10,655
40.6	10,660	10,664	10,669	10,673	10,678	10,682	10,687	10,691	10,696	10,700
40.7	10,704	10,709	10,713	10,718	10,722	10,726	10,731	10,735	10,739	10,744
40.8	10,748	10,752	10,757	10,761	10,765	10,770	10,774	10,778	10,782	10,787
40.9	10,791	10,795	10,799	10,804	10,808	10,812	10,816	10,820	10,825	10,829
41	10,833	10,837	10,842	10,846	10,851	10,855	10,859	10,864	10,868	10,873
41.1	10,877	10,882	10,886	10,890	10,895	10,899	10,904	10,908	10,912	10,917
41.2	10,921	10,926	10,930	10,935	10,939	10,943	10,948	10,952	10,957	10,961
41.3	10,966	10,970	10,974	10,979	10,983	10,988	10,992	10,996	11,001	11,005
41.4	11,010	11,014	11,019	11,023	11,027	11,032	11,036	11,041	11,045	11,049
41.5	11,054	11,058	11,063	11,067	11,072	11,076	11,080	11,085	11,089	11,094
41.6	11,098	11,102	11,107	11,111	11,116	11,120	11,125	11,129	11,133	11,138
41.7	11,142	11,147	11,151	11,155	11,160	11,164	11,169	11,173	11,178	11,182
41.8	11,186	11,191	11,195	11,200	11,204	11,208	11,213	11,217	11,222	11,226
41.9	11,231	11,235	11,239	11,244	11,248	11,253	11,257	11,261	11,266	11,270
42	11,275	11,279	11,284	11,288	11,292	11,297	11,301	11,306	11,310	11,315
42.1	11,319	11,323	11,328	11,332	11,337	11,341	11,345	11,350	11,354	11,359
42.2	11,363	11,368	11,372	11,376	11,381	11,385	11,390	11,394	11,398	11,403
42.3	11,407	11,412	11,416	11,421	11,425	11,429	11,434	11,438	11,443	

Note: Areas between elevations 41.0 and 42.16 linearly interpolated, areas above elevation 42.16 feet linearly extrapolated



Lake Houston
June 2018 Survey
Prepared by: TWDB

Appendix K: Capacity curve



Lake Houston
June 2018 Survey
Prepared by: TWDB

Appendix M

Lake Houston

Sediment range lines

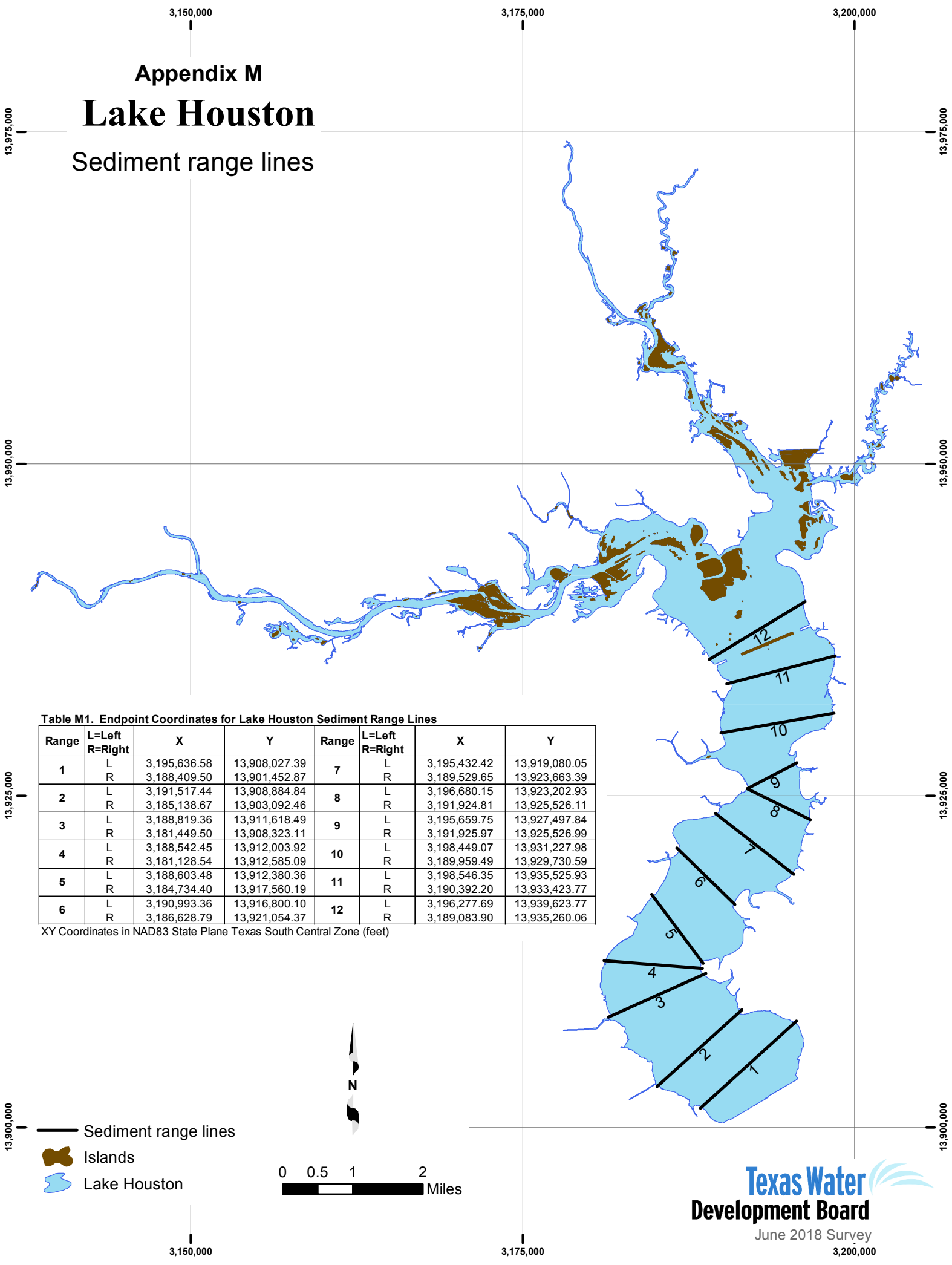


Table M1. Endpoint Coordinates for Lake Houston Sediment Range Lines

Range	L=Left R=Right	X	Y	Range	L=Left R=Right	X	Y
1	L	3,195,636.58	13,908,027.39	7	L	3,195,432.42	13,919,080.05
	R	3,188,409.50	13,901,452.87		R	3,189,529.65	13,923,663.39
2	L	3,191,517.44	13,908,884.84	8	L	3,196,680.15	13,923,202.93
	R	3,185,138.67	13,903,092.46		R	3,191,924.81	13,925,526.11
3	L	3,188,819.36	13,911,618.49	9	L	3,195,659.75	13,927,497.84
	R	3,181,449.50	13,908,323.11		R	3,191,925.97	13,925,526.99
4	L	3,188,542.45	13,912,003.92	10	L	3,198,449.07	13,931,227.98
	R	3,181,128.54	13,912,585.09		R	3,189,959.49	13,929,730.59
5	L	3,188,603.48	13,912,380.36	11	L	3,198,546.35	13,935,525.93
	R	3,184,734.40	13,917,560.19		R	3,190,392.20	13,933,423.77
6	L	3,190,993.36	13,916,800.10	12	L	3,196,277.69	13,939,623.77
	R	3,186,628.79	13,921,054.37		R	3,189,083.90	13,935,260.06

XY Coordinates in NAD83 State Plane Texas South Central Zone (feet)

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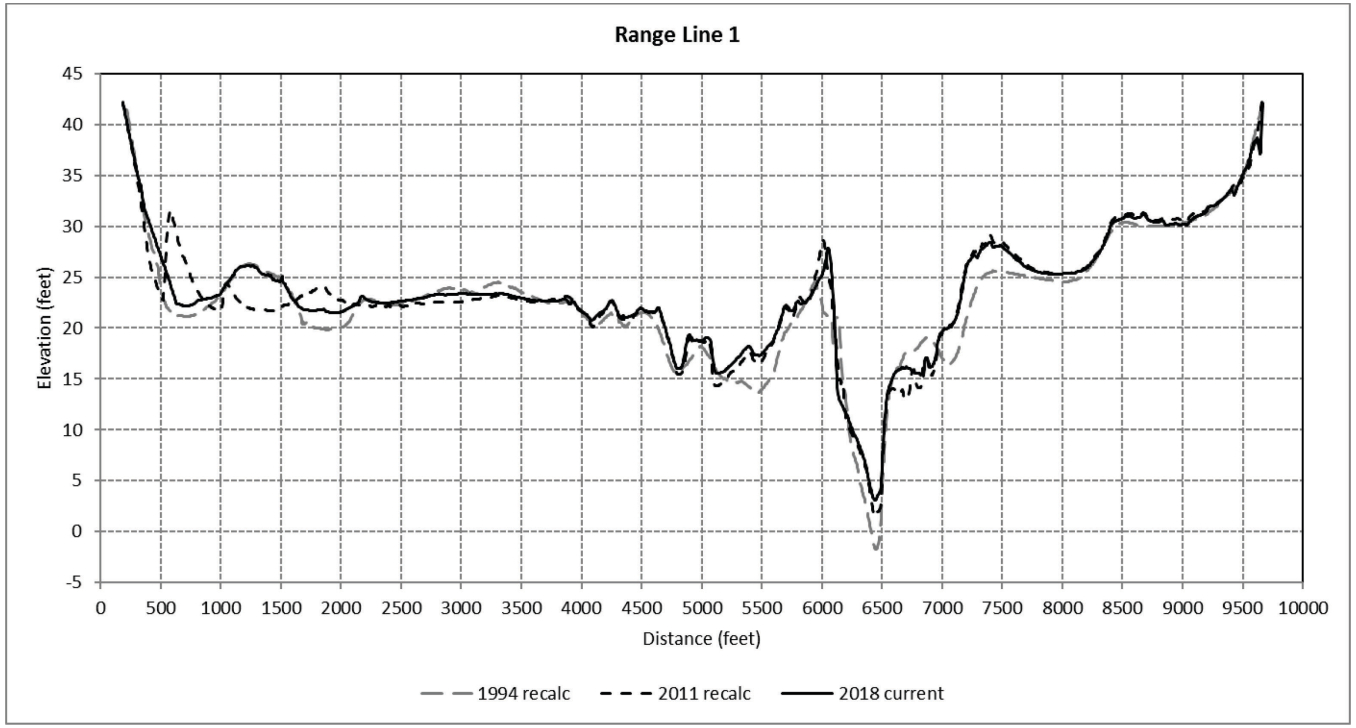
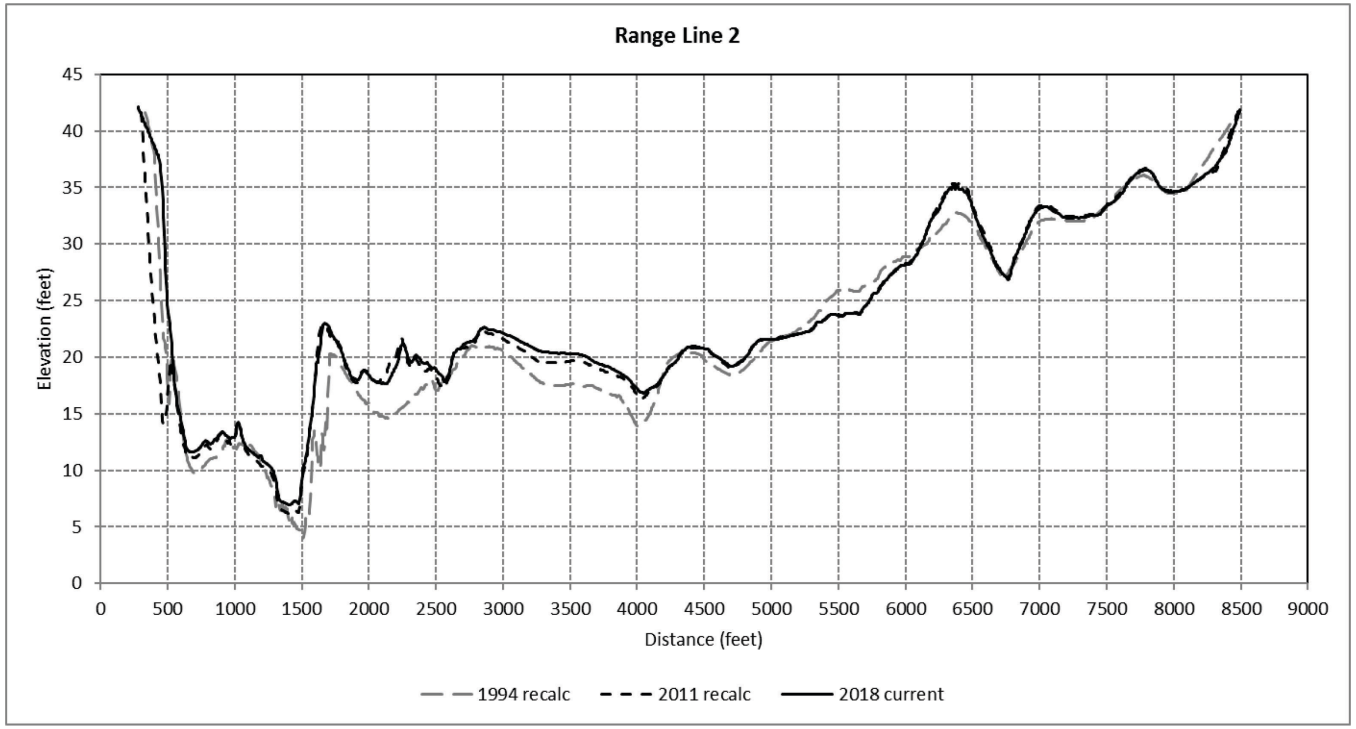
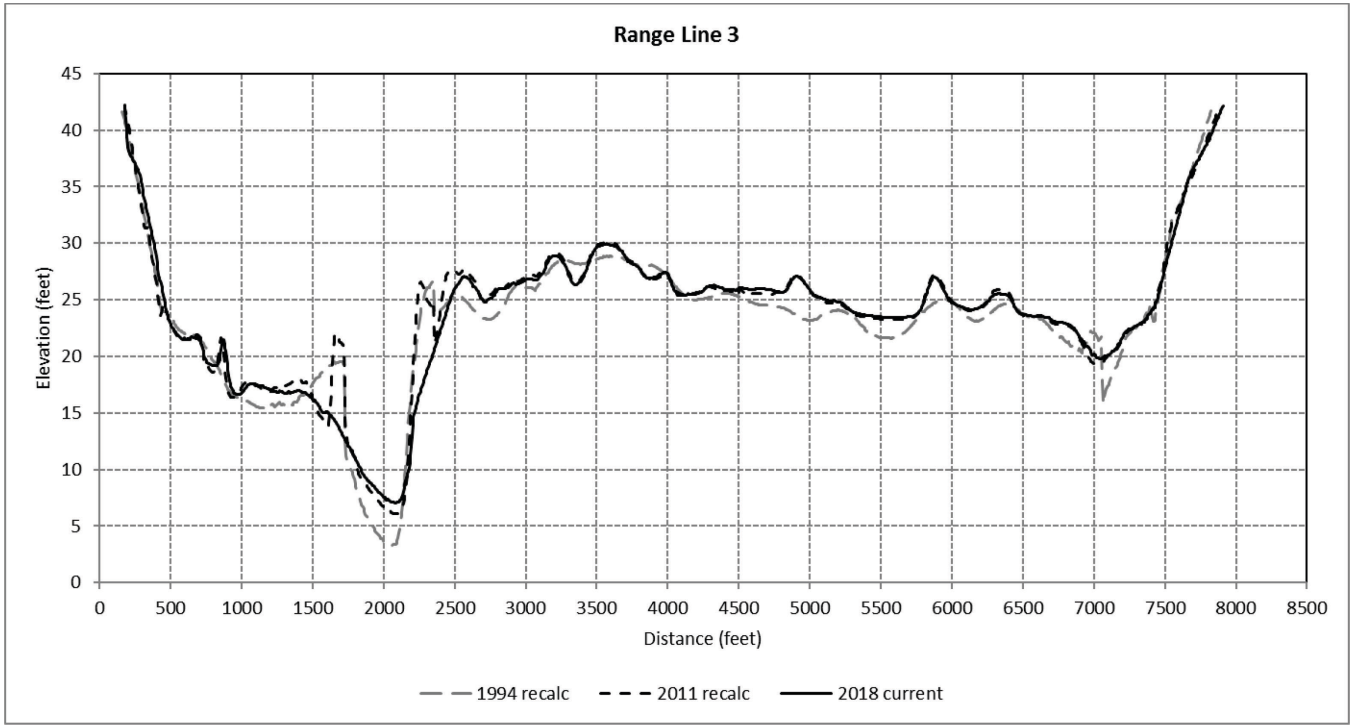
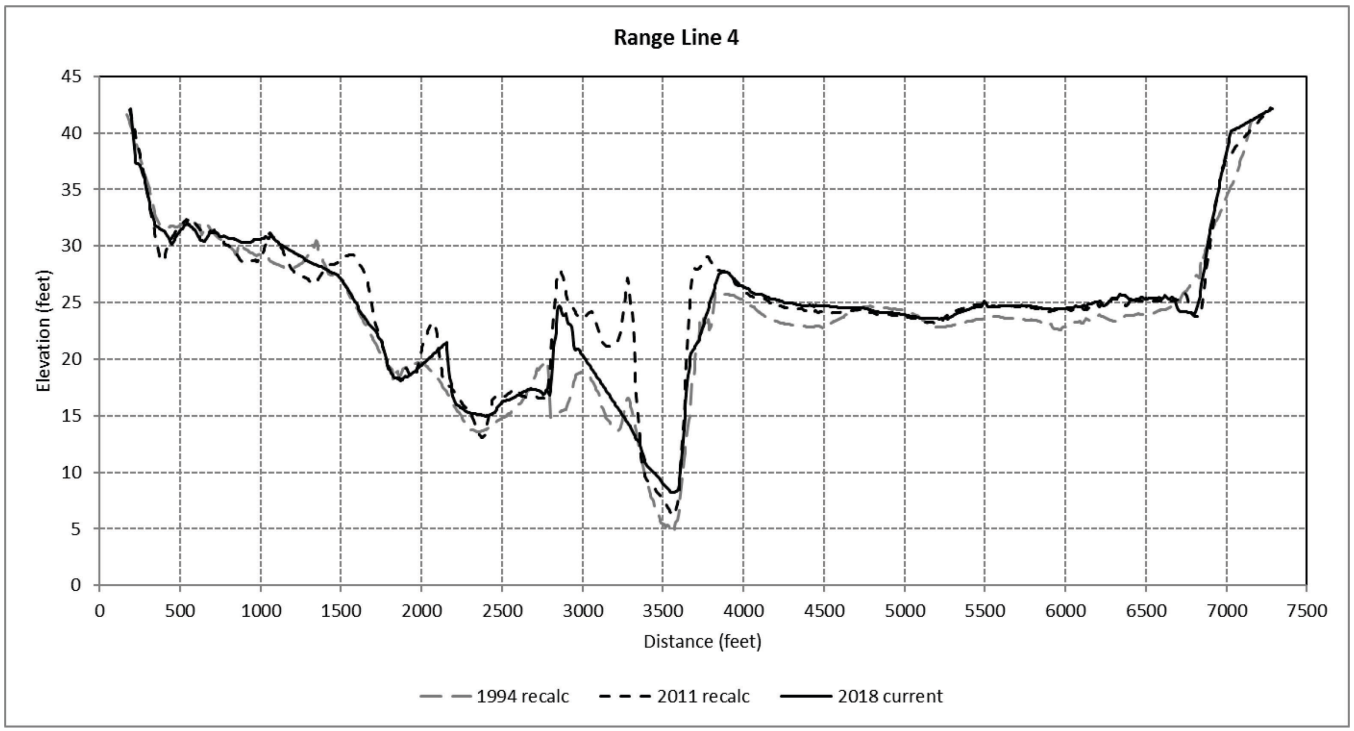
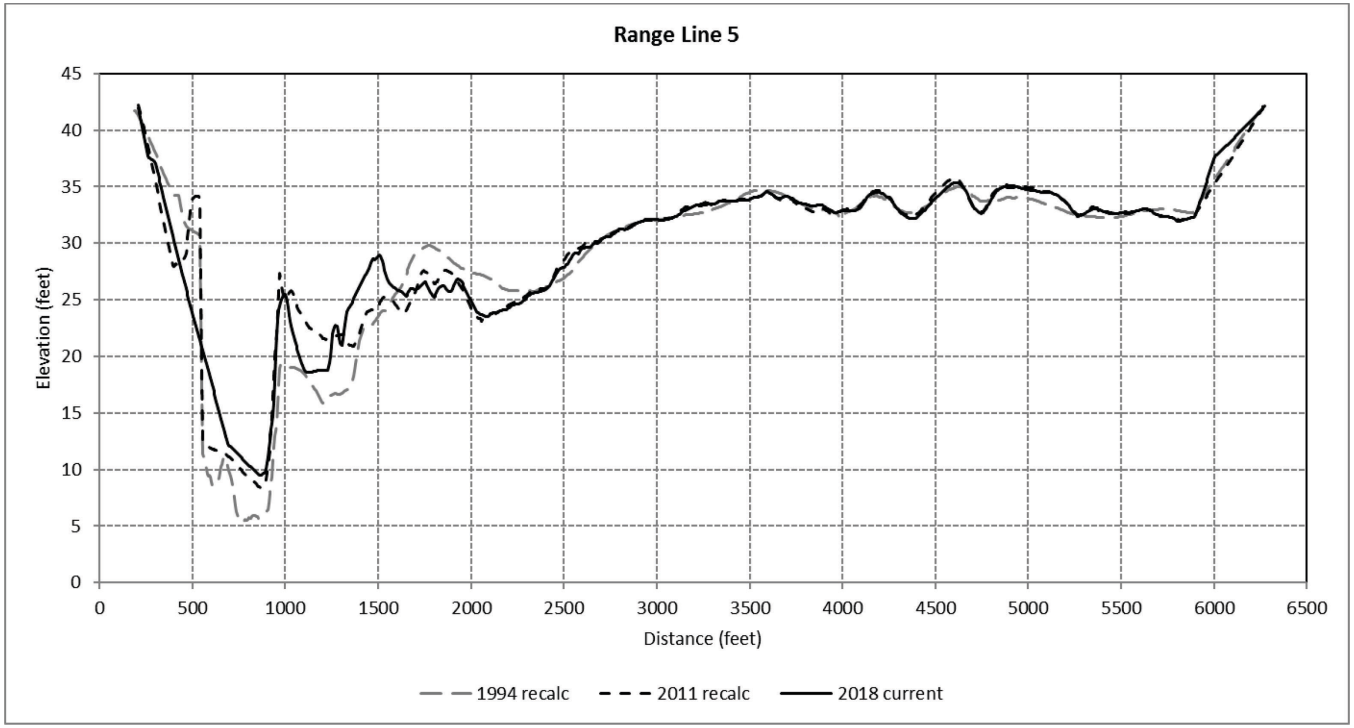
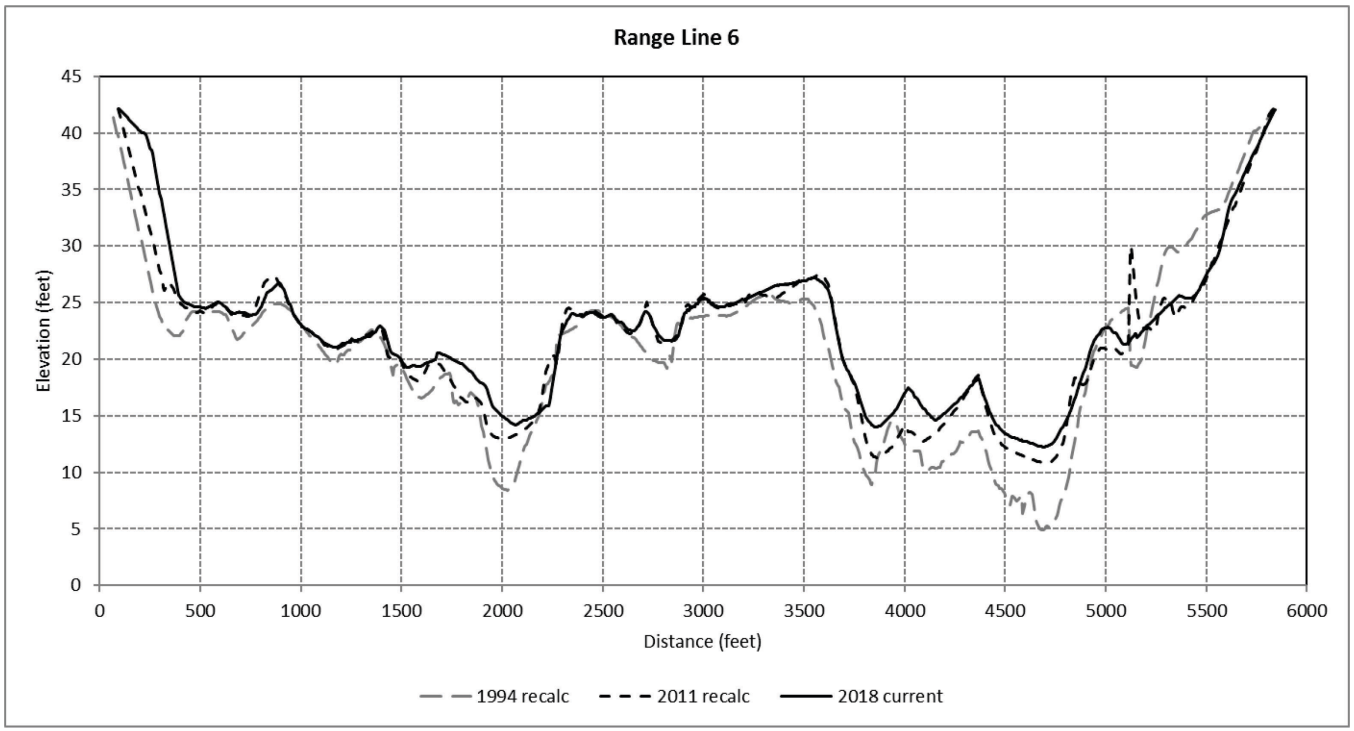

Range Line 1
Elevation (feet)
45
40
35
30
25
20
15
10
5
0
-5
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
9000
9500
10000
Distance (feet)
1994 recalc
2011 recalc
2018 current

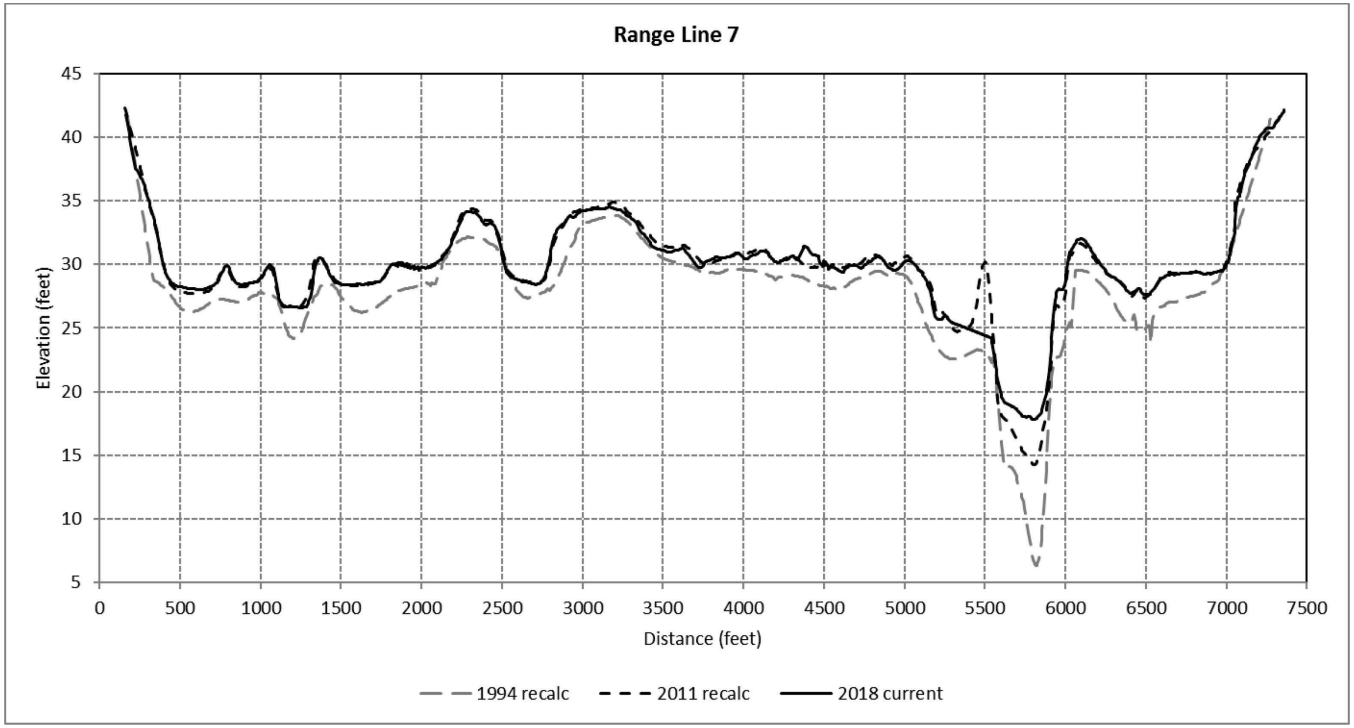

Range Line 2
Elevation (feet)
45
40
35
30
25
20
15
10
5
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
9000
Distance (feet)
1994 recalc
2011 recalc
2018 current

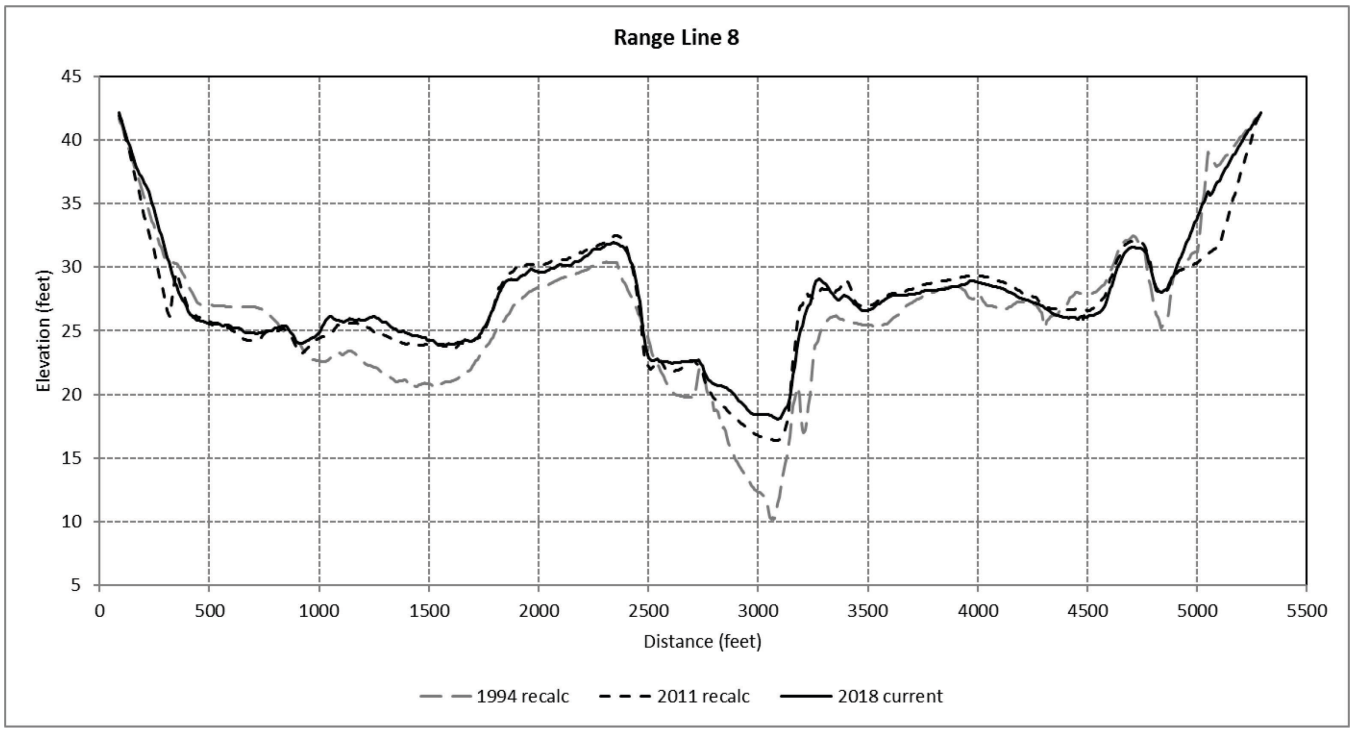

Range Line 3
Elevation (feet)
Distance (feet)
1994 recalc
2011 recalc
2018 current

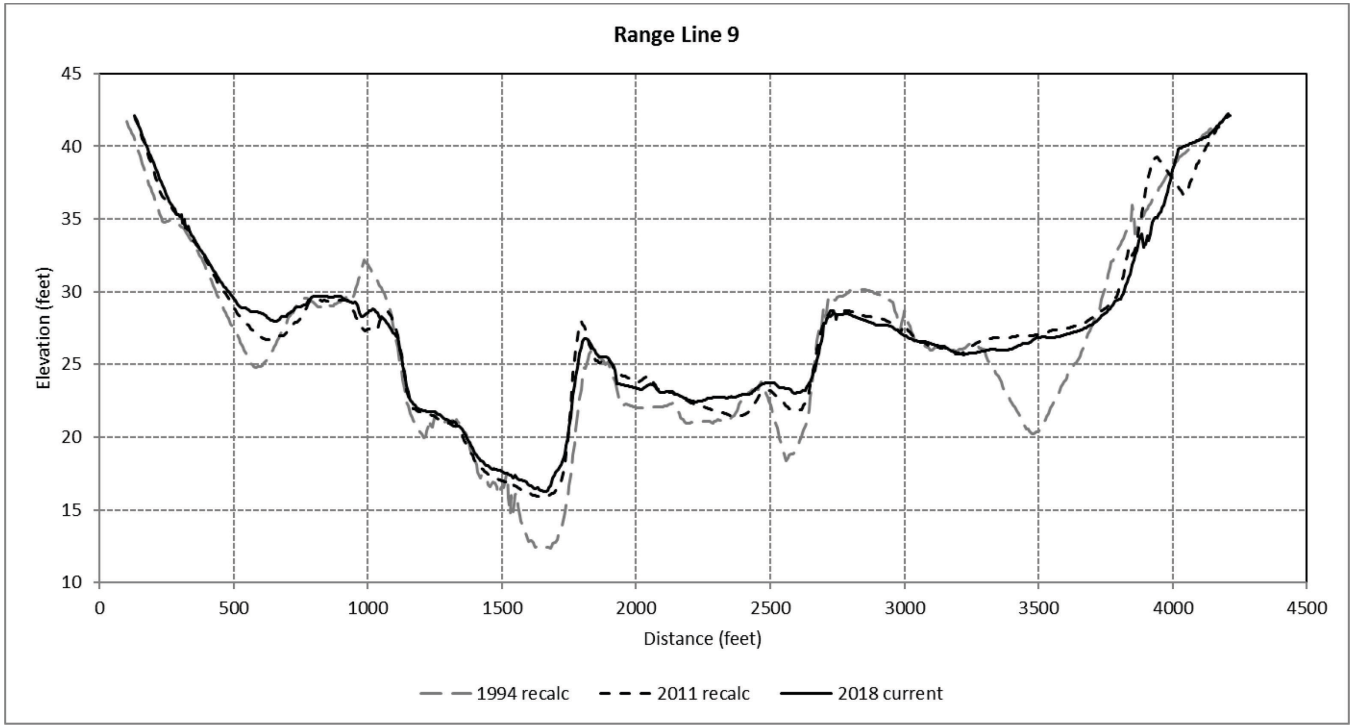

Range Line 4
Elevation (feet)
Distance (feet)
1994 recalc
2011 recalc
2018 current

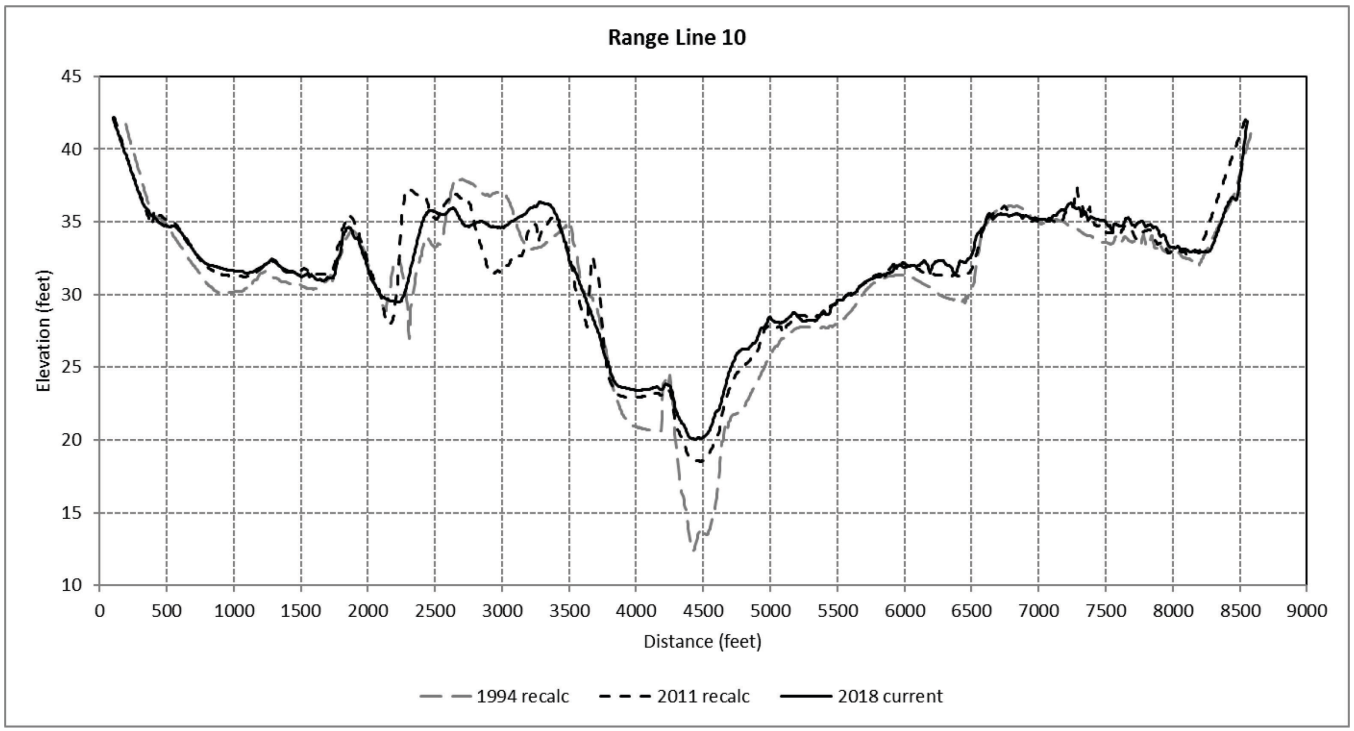

Range Line 5
Elevation (feet)
Distance (feet)
0
5
10
15
20
25
30
35
40
45
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
1994 recalc
2011 recalc
2018 current

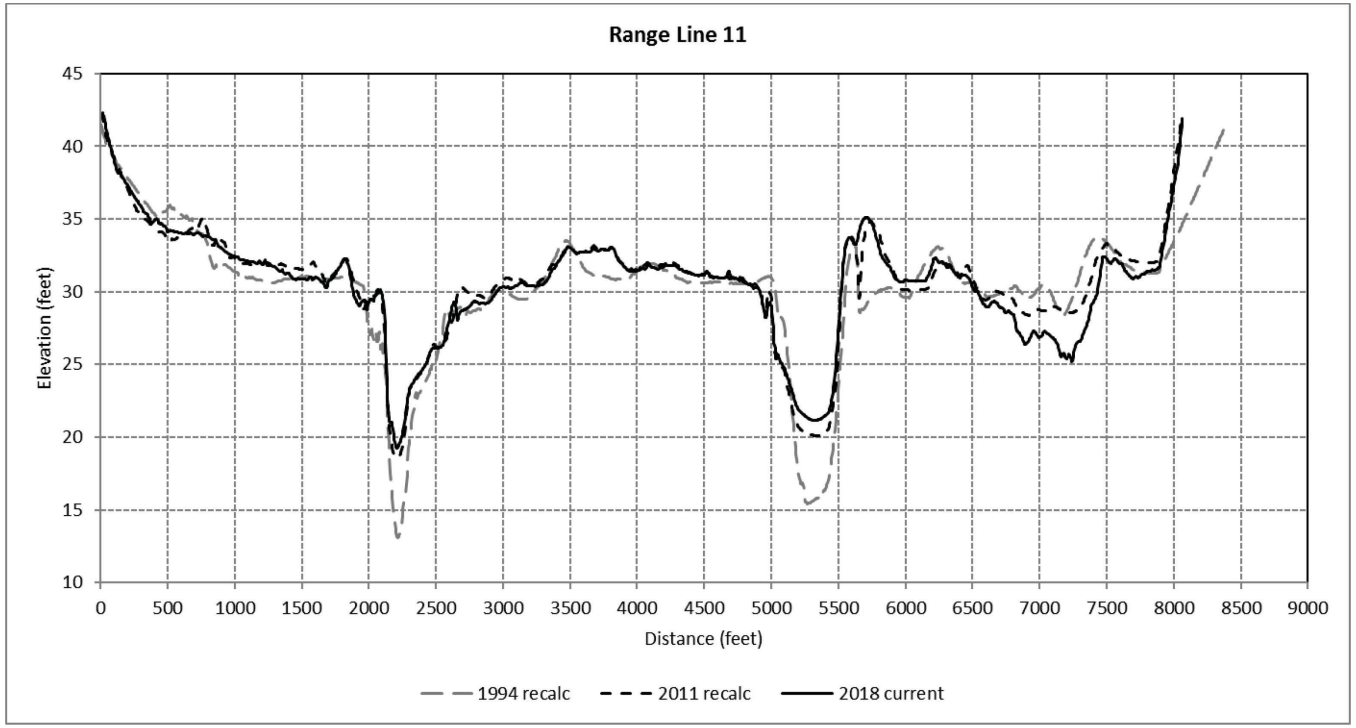

Range Line 6
Elevation (feet)
Distance (feet)
0
5
10
15
20
25
30
35
40
45
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
1994 recalc
2011 recalc
2018 current


Range Line 7
Elevation (feet)
45
40
35
30
25
20
15
10
5
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
Distance (feet)
1994 recalc
2011 recalc
2018 current


Range Line 8
Elevation (feet)
45
40
35
30
25
20
15
10
5
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
Distance (feet)
1994 recalc
2011 recalc
2018 current


Range Line 9
Elevation (feet)
45
40
35
30
25
20
15
10
0
500
1000
1500
2000
2500
3000
3500
4000
4500
Distance (feet)
1994 recalc
2011 recalc
2018 current


Range Line 10
Elevation (feet)
45
40
35
30
25
20
15
10
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
9000
Distance (feet)
1994 recalc
2011 recalc
2018 current


Range Line 11
Elevation (feet)
45
40
35
30
25
20
15
10
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
9000
Distance (feet)
1994 recalc
2011 recalc
2018 current

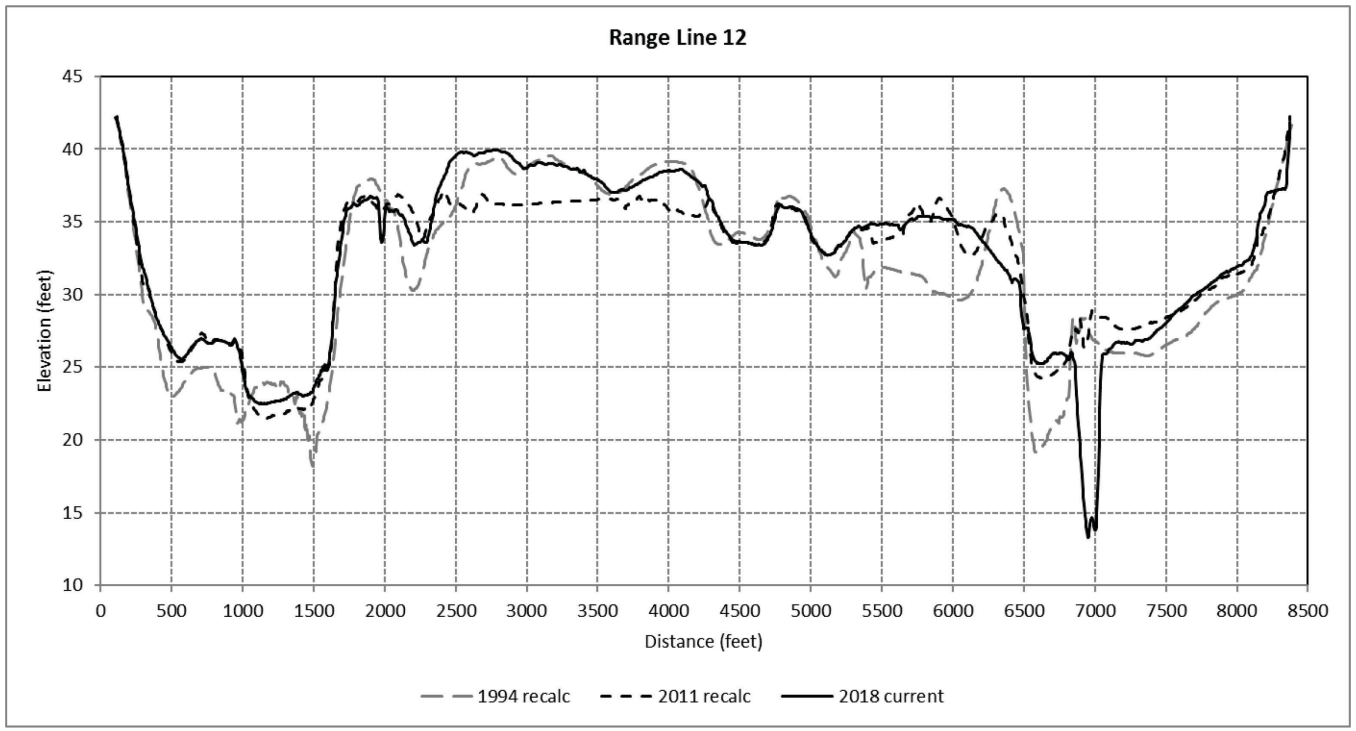

Range Line 12
Elevation (feet)
45
40
35
30
25
20
15
10
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
8000
8500
Distance (feet)
1994 recalc
2011 recalc
2018 current

Figure 6

Lake Houston

5' - contour map

Contours
feet (NAVD88)

- 40
- 35
- 30
- 25
- 20
- 15
- 10
- 5

Islands

Lake Houston elevation 42.16 feet (NAVD88)

Conservation pool elevation 42.38 feet (NAVD88)

Projection: NAD83
State Plane Texas
South Central Zone (feet)

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 Houston. The Texas Water Development Board makes no representations nor assumes any liability.

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0 0.5 1 2
Miles