

## Water-Data Report 2011

**07315950 Moss Lake near Gainesville, TX**

 Red-Lake Texoma Basin  
 Farmers-Mud Subbasin

LOCATION.--Lat 33°46'26", long 97°12'50" referenced to North American Datum of 1927, Cooke County, TX, Hydrologic Unit 11130201, on upstream side of dam about 250 ft from right end of Fish Creek Dam on Fish Creek, 1.6 mi upstream from Bearhead Creek, 3.7 mi upstream from mouth, and 10.0 mi northwest of Gainesville.

DRAINAGE AREA.--65.0 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Oct. 1967 to Sept. 2010 (contents), Oct. 2010 to current year.

PERIOD OF RECORD, Water-Quality--

CHEMICAL DATA: May 1968 to May 1984.

BIOCHEMICAL DATA: May 1968 to June 1973.

RADIOCHEMICAL DATA: Apr. 1981.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Apr. 20, 1979, recording gage at site about 150 ft upstream at same datum.  
 Satellite telemeter at station.

COOPERATION.--Capacity Table No. 1, prepared by Freese, Nichols, and Endress, Consulting Engineers, Fort Worth, for the City of Gainesville, was replaced by Capacity Table No. 2. Table No. 2 was furnished by the Texas Water Development Board, and put into effect Oct. 27, 1999.

REMARKS.--Records good except those from May to Aug., which are fair. Some records listed in the Period of Record for surface water and water quality may not be available electronically. The lake is formed by a rolled earthfill dam, 1,460 ft long. The dam was completed and storage began Dec. 2, 1966. An uncontrolled morning-glory type spillway with a 7- by 7-foot opening is designed to discharge 2,500 ft<sup>3</sup>/s at a 10 foot head. A 400 foot wide spillway has been cut through natural ground, and is located about 100 ft to left of the left end of dam. The dam was built by the City of Gainesville to impound water for municipal use. Conservation pool storage is 24,155 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	740.0
Top of design flood pool.....	736.0
Crest of spillway.....	725.0
Crest of spillway morning-glory type (top of conservation pool).....	715.0
Lowest gated outlet (invert).....	666.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 50,990 acre-ft, Oct. 13, 1981, elevation, 733.72 ft; minimum contents since lake filled in May 1968, 11,490 acre-ft, Jan. 18, 1990, elevation, 702.08 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 715.66 ft, May 2; minimum elevation, 711.62 ft, Sept. 30.

**07315950 Moss Lake near Gainesville, TX—Continued**

**ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	714.74	714.58	714.30	714.62	714.81	714.92	714.81	715.11	714.92	714.20	713.25	712.40
<b>2</b>	714.72	714.56	714.29	714.61	714.84	714.91	714.81	715.54	714.91	714.17	713.22	712.37
<b>3</b>	714.69	714.54	714.29	714.61	714.84	714.91	714.81	715.57	714.89	714.15	713.19	712.34
<b>4</b>	714.67	714.52	714.28	714.62	714.87	714.90	714.79	715.41	714.88	714.12	713.16	712.30
<b>5</b>	714.65	714.50	714.26	714.62	714.89	714.88	714.77	715.29	714.86	714.09	713.13	712.24
<b>6</b>	714.64	714.48	714.25	714.61	714.99	714.87	714.75	715.21	714.84	714.06	713.09	712.20
<b>7</b>	714.63	714.47	714.24	714.62	715.11	714.87	714.74	715.15	714.82	714.03	713.06	712.17
<b>8</b>	714.62	714.46	714.23	714.62	715.11	714.87	714.75	715.11	714.80	714.00	713.02	712.14
<b>9</b>	714.60	714.46	714.22	714.64	715.09	714.87	714.75	715.08	714.77	713.97	712.98	712.11
<b>10</b>	714.58	714.45	714.21	714.66	715.06	714.86	714.75	715.05	714.74	713.93	712.95	712.08
<b>11</b>	714.67	714.44	714.21	714.66	715.03	714.85	714.93	715.09	714.72	713.90	712.93	712.06
<b>12</b>	714.67	714.46	714.18	714.65	715.02	714.84	714.92	715.27	714.70	713.86	712.91	712.03
<b>13</b>	714.65	714.46	714.17	714.65	715.00	714.84	714.91	715.22	714.67	713.84	712.88	712.01
<b>14</b>	714.64	714.45	714.17	714.65	714.99	714.84	714.91	715.15	714.64	713.81	712.86	711.99
<b>15</b>	---	714.45	714.16	714.66	714.99	714.83	714.90	715.10	714.60	713.78	712.84	711.95
<b>16</b>	714.61	714.44	714.15	714.66	714.98	714.84	714.85	715.07	714.58	713.76	712.83	711.93
<b>17</b>	714.60	714.43	714.14	714.67	714.98	714.84	714.84	715.04	714.55	713.73	712.81	711.91
<b>18</b>	714.59	714.40	714.13	714.67	714.97	714.84	714.83	715.02	714.52	713.70	712.79	711.90
<b>19</b>	714.58	714.39	714.12	714.67	714.96	714.85	714.82	715.01	714.53	713.67	712.77	711.88
<b>20</b>	714.57	714.39	714.12	714.68	714.96	714.85	714.81	715.08	714.48	713.64	712.74	711.86
<b>21</b>	714.56	714.39	714.12	714.68	714.95	714.85	714.88	715.18	714.45	713.61	712.71	711.84
<b>22</b>	714.56	714.39	714.10	714.68	714.93	714.85	714.90	715.15	714.44	713.57	712.69	711.81
<b>23</b>	714.62	714.39	714.09	714.68	714.93	714.84	714.90	715.16	714.41	713.52	712.67	711.79
<b>24</b>	714.71	714.39	714.20	714.69	714.93	714.82	714.95	715.13	714.39	713.49	712.64	711.77
<b>25</b>	714.71	714.38	714.28	714.69	714.91	714.82	715.02	715.10	714.36	713.46	712.62	711.75
<b>26</b>	714.68	714.37	714.28	714.69	714.92	714.82	715.07	715.04	714.33	713.43	712.60	711.73
<b>27</b>	714.67	714.36	714.27	714.70	714.93	714.80	715.05	715.02	714.30	713.40	712.58	711.71
<b>28</b>	714.64	714.35	714.28	714.70	714.93	714.79	715.02	715.00	714.28	713.36	712.56	711.69
<b>29</b>	714.62	714.34	714.48	714.70	---	714.80	715.00	714.97	714.25	713.34	712.52	711.68
<b>30</b>	714.61	714.32	714.58	714.71	---	714.80	714.97	714.94	714.23	713.31	712.48	711.64
<b>31</b>	714.59	---	714.62	714.71	---	714.81	---	714.93	---	713.28	712.44	---
<b>Mean</b>	---	714.43	714.24	714.66	714.96	714.85	714.87	715.14	714.60	713.75	712.84	711.98
<b>Max</b>	---	714.58	714.62	714.71	715.11	714.92	715.07	715.57	714.92	714.20	713.25	712.40
<b>Min</b>	---	714.32	714.09	714.61	714.81	714.79	714.74	714.93	714.23	713.28	712.44	711.64

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