



**Robin Simmons**  
Land Manager

December 18, 2014

Oklahoma Water Resources Board  
3800 N. Classen Boulevard  
Oklahoma City, OK 73118  
Attn: Mr Kent Wilkins

Re: Martin Marietta/TXI Mill Creek Limestone Quarry Monitoring Report Q3 2014

Dear Mr. Wilkins:

Attached please find the Q3 2014 Quarterly Monitoring Report for Martin Marietta/TXI's Mill Creek Limestone quarry. The report is summarized on the table labeled Appendix C. Supporting data is also included.

Please call if you have any questions or comments.

Sincerely,

A handwritten signature in blue ink that reads "Robin L. Simmons".

Robin Simmons, EIT  
Land Manager

North Texas/Oklahoma District  
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**ATTACHMENT 1 (Appendix C)  
Martin Marietta (TXI) Mill Creek Q3 2014**

**Appendix C . Consumptive use of Pitwater**

Q1 2014    Q2 2014    Q3 2014

<b>PIT GROUNDWATER VOLUME</b>					
1	Total volume pumped from producing mine pit(s) (AC-FT)		395.21	410.86	369.44
2	Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)		12.16	87.95	33.61
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)		2.49	31.95	4.50
4	other non pit waters pumped from the producing mining pit (AC-FT)				
5	add lines 2 through 4		14.65	119.91	38.11
6	<b>Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)</b>		<b>380.56</b>	<b>290.96</b>	<b>331.33</b>
<b>DEFINED ELEMENTS OF CONSUMPTIVE USE</b>					
7	Vol. of pit groundwater that is driven off (by drying) the mined material transp. off of the mine site (AC-FT)		0.00	0.00	0.00
8	Vol. of pit groundwater that is carried away with the the mined material transp. off of the mine site (AC-FT)		0.39	1.98	2.26
9	Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)		0.54	2.37	2.58
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)		0.26	0.82	14.61
11	<b>DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)</b>		<b>1.19</b>	<b>5.17</b>	<b>19.44</b>
<b>PIT GROUNDWATER BALANCE</b>					
12	Lines 6 minus 11		379.37	285.79	311.89
13	<b>Groundwater Augmentation</b> Volume of pit groundwater returned to GW Basin or subbasin. (Troy Recharge AC-FT)	<b>Credits</b>	none	4.16	43.04
14	<b>Stream Augmentation</b> volume of pit water discharged to a definite Stream, during flow conditions that are less than or equal to the accepted exceedance level (AC-FT)		347.96	147.45	173.06
15	<b>PPT and Runoff</b> Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)		12.86	86.15	28.91
16	<b>Recycled Pit Groundwater</b> - Volume of ground water returned to the mine pit or holding basin (AC-FT)		42.64	160.50	127.22
17	<b>Other Non-Consumptive GW Losses</b> Including pit GW returned to the land surface from which surface runoff flows into a mine pit and other losses (AC-FT)		1.43	2.28	0.60
18	add lines 13 through 17		404.90	400.54	372.82
19	<b>OTHER CONSUMPTIVE USE</b> Line 12 minus Line 18		-25.53	-114.75	-60.93
<b>TOTAL REPORTED CONSUMPTIVE USE (AC-FT)</b>					
<b>TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19</b>			-24.34	-109.58	-41.49

## RESULTS FROM RUNOFF MODELLING

<b>2014</b>	PPT.  Inches	Quarry Monthly Totals				FW Pond Monthly Totals		Re-cycle Recharge (Trov) Monthly Totals		TXI-Mill Creek Totals	
		Sump Direct ppt	In-Quarry Runoff	Runoff from beyond Quarry	Quarry Totals	Direct ppt	Runoff	Direct ppt	Runoff	Direct ppt	Runoff
		ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
January	0.51	0.01	0.47	0.00	0.48	0.93	0.00	1.73	0.00	2.67	0.47
February	0.60	0.02	0.78	0.00	0.79	1.09	0.00	2.03	0.00	3.14	0.78
March	1.69	0.05	10.84	2.49	13.38	3.07	0.96	5.73	3.37	8.85	17.66
<b>Q1 Subtotal</b>	<b>2.80</b>	<b>0.08</b>	<b>12.08</b>	<b>2.49</b>	<b>14.65</b>	<b>5.09</b>	<b>0.96</b>	<b>9.49</b>	<b>3.37</b>	<b>14.66</b>	<b>18.90</b>
April	2.37	0.067	10.126	0.98	11.17	4.31	0.12	8.03	1.06	12.41	12.28
May	2.57	0.073	16.473	2.68	19.23	4.67	0.65	8.71	3.35	13.46	23.16
June	5.91	0.17	61.047	28.30	89.51	10.75	26.04	20.03	44.96	30.94	160.34
<b>Q2 Subtotal</b>	<b>10.85</b>	<b>0.31</b>	<b>87.65</b>	<b>31.95</b>	<b>119.91</b>	<b>19.73</b>	<b>26.81</b>	<b>36.77</b>	<b>49.38</b>	<b>56.81</b>	<b>195.79</b>
July	3.80	0.11	23.70	3.81	27.61	6.91	1.05	12.88	4.77	19.90	33.33
August	2.02	0.06	8.37	0.69	9.12	3.67	0.08	6.85	0.75	10.58	9.90
September	1.08	0.03	1.34	0.00	1.37	1.96	0.00	3.66	0.00	5.65	1.34
<b>Q3 Subtotal</b>	<b>6.90</b>	<b>0.20</b>	<b>33.41</b>	<b>4.50</b>	<b>38.11</b>	<b>12.55</b>	<b>1.13</b>	<b>23.39</b>	<b>5.53</b>	<b>36.13</b>	<b>44.57</b>
October	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
November	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
December	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Q4 Subtotal</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>ANNUAL TOTALS</b>	<b>20.55</b>	<b>0.58</b>	<b>133.14</b>	<b>38.95</b>	<b>172.67</b>	<b>37.37</b>	<b>28.90</b>	<b>69.65</b>	<b>58.27</b>	<b>107.60</b>	<b>259.26</b>

# ----- WARNING -----  
 # The data you have obtained from this automated U.S. Geological Survey database  
 # have not received Director's approval and as such are provisional and subject to  
 # revision. The data are released on the condition that neither the USGS nor the  
 # United States Government may be held liable for any damages resulting from its use.  
 # Additional info: <http://help.waterdata.usgs.gov/policies/provisional-data-statement>  
 #  
 # File-format description: <http://help.waterdata.usgs.gov/faq/about-tab-delimited-output>  
 # Automated-retrieval info: <http://help.waterdata.usgs.gov/faq/automated-retrievals>  
 #  
 # Contact: [gs-w\\_support\\_nwisweb@usgs.gov](mailto:gs-w_support_nwisweb@usgs.gov)  
 # retrieved: 2014-09-16 17:04:35 EDT (nadww01)  
 #

# Data for the following 1 site(s) are contained in this file  
 # USGS 07331200 Mill Creek near Mill Creek, OK  
 # -----

#  
 # Data provided for site 07331200  
 # DD parameter statistic Description  
 # 02 00060 00003 Discharge, cubic feet per second (Mean)  
 #  
 # Data-value qualification codes included in this output:  
 # P Provisional data subject to revision.  
 #

agency_cd	site_no	datetime	02_00060_02_00060_00003_cd	
5s	15s	20d	14n	10s
USGS	7331200	7/1/2014	2.4 P	
USGS	7331200	7/2/2014	2.8 P	
USGS	7331200	7/3/2014	2.3 P	
USGS	7331200	7/4/2014	2.2 P	
USGS	7331200	7/5/2014	2.1 P	
USGS	7331200	7/6/2014	2 P	
USGS	7331200	7/7/2014	1.9 P	
USGS	7331200	7/8/2014	1.8 P	
USGS	7331200	7/9/2014	1.8 P	
USGS	7331200	7/10/2014	1.8 P	
USGS	7331200	7/11/2014	1.6 P	
USGS	7331200	7/12/2014	1.5 P	
USGS	7331200	7/13/2014	1.5 P	
USGS	7331200	7/14/2014	1.4 P	
USGS	7331200	7/15/2014	1.4 P	
USGS	7331200	7/16/2014	1.4 P	
USGS	7331200	7/17/2014	3 P	
USGS	7331200	7/18/2014	1.8 P	
USGS	7331200	7/19/2014	1.6 P	
USGS	7331200	7/20/2014	1.6 P	
USGS	7331200	7/21/2014	1.6 P	
USGS	7331200	7/22/2014	1.5 P	
USGS	7331200	7/23/2014	1.6 P	
USGS	7331200	7/24/2014	1.5 P	
USGS	7331200	7/25/2014	1.5 P	
USGS	7331200	7/26/2014	1.4 P	
USGS	7331200	7/27/2014	1.3 P	
USGS	7331200	7/28/2014	1.6 P	
USGS	7331200	7/29/2014	1.4 P	
USGS	7331200	7/30/2014	2.2 P	
USGS	7331200	7/31/2014	2.8 P	

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 # Automated-retrieval info: <http://help.waterdata.usgs.gov/faq/automated-retrievals>  
 #  
 # Contact: [gs-w\\_support\\_nwisweb@usgs.gov](mailto:gs-w_support_nwisweb@usgs.gov)  
 # retrieved: 2014-09-16 17:05:57 EDT (nadww01)  
 #

# Data for the following 1 site(s) are contained in this file  
 # USGS 07331200 Mill Creek near Mill Creek, OK  
 # -----

#  
 # Data provided for site 07331200  
 # DD parameter statistic Description  
 # 02 00060 00003 Discharge, cubic feet per second (Mean)  
 #  
 # Data-value qualification codes included in this output:  
 # P Provisional data subject to revision.  
 #

agency_cd	site_no	datetime	02_00060_02_00060_00003_cd	
5s	15s	20d	14n	10s
USGS	7331200	8/1/2014	1.7 P	
USGS	7331200	8/2/2014	1.5 P	
USGS	7331200	8/3/2014	1.4 P	
USGS	7331200	8/4/2014	1.4 P	
USGS	7331200	8/5/2014	1.4 P	
USGS	7331200	8/6/2014	1.4 P	
USGS	7331200	8/7/2014	1.3 P	
USGS	7331200	8/8/2014	1.3 P	
USGS	7331200	8/9/2014	1.3 P	
USGS	7331200	8/10/2014	1.3 P	
USGS	7331200	8/11/2014	1.7 P	
USGS	7331200	8/12/2014	1.2 P	
USGS	7331200	8/13/2014	1.2 P	
USGS	7331200	8/14/2014	1.1 P	
USGS	7331200	8/15/2014	1.2 P	
USGS	7331200	8/16/2014	1.2 P	
USGS	7331200	8/17/2014	1.2 P	
USGS	7331200	8/18/2014	1.2 P	
USGS	7331200	8/19/2014	1.1 P	
USGS	7331200	8/20/2014	1.5 P	
USGS	7331200	8/21/2014	1.2 P	
USGS	7331200	8/22/2014	1.1 P	
USGS	7331200	8/23/2014	1.1 P	
USGS	7331200	8/24/2014	1.1 P	
USGS	7331200	8/25/2014	1.1 P	
USGS	7331200	8/26/2014	1.1 P	
USGS	7331200	8/27/2014	1 P	
USGS	7331200	8/28/2014	1 P	
USGS	7331200	8/29/2014	1.3 P	
USGS	7331200	8/30/2014	1.1 P	
USGS	7331200	8/31/2014	1.1 P	

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 # Automated-retrieval info: <http://help.waterdata.usgs.gov/faq/automated-retrievals>  
 #  
 # Contact: [gs-w\\_support\\_nwisweb@usgs.gov](mailto:gs-w_support_nwisweb@usgs.gov)  
 # retrieved: 2014-10-17 13:19:44 EDT (nadww02)  
 #  
 # Data for the following 1 site(s) are contained in this file  
 # USGS 07331200 Mill Creek near Mill Creek, OK  
 # -----

#  
 # Data provided for site 07331200  
 # DD parameter statistic Description  
 # 02 00060 00003 Discharge, cubic feet per second (Mean)  
 #  
 # Data-value qualification codes included in this output:  
 # P Provisional data subject to revision.  
 #

agency_cd	site_no	datetime	02_00060_02_00060_00003_cd
5s	15s	20d	14n 10s
USGS	7331200	9/1/2014	0.89 P
USGS	7331200	9/2/2014	0.85 P
USGS	7331200	9/3/2014	0.87 P
USGS	7331200	9/4/2014	0.85 P
USGS	7331200	9/5/2014	0.84 P
USGS	7331200	9/6/2014	0.93 P
USGS	7331200	9/7/2014	1 P
USGS	7331200	9/8/2014	0.96 P
USGS	7331200	9/9/2014	0.9 P
USGS	7331200	9/10/2014	0.86 P
USGS	7331200	9/11/2014	0.94 P
USGS	7331200	9/12/2014	1.2 P
USGS	7331200	9/13/2014	1 P
USGS	7331200	9/14/2014	1.1 P
USGS	7331200	9/15/2014	1.1 P
USGS	7331200	9/16/2014	1.1 P
USGS	7331200	9/17/2014	0.98 P
USGS	7331200	9/18/2014	1.2 P
USGS	7331200	9/19/2014	1 P
USGS	7331200	9/20/2014	0.93 P
USGS	7331200	9/21/2014	0.91 P
USGS	7331200	9/22/2014	0.91 P
USGS	7331200	9/23/2014	0.89 P
USGS	7331200	9/24/2014	0.85 P
USGS	7331200	9/25/2014	0.87 P
USGS	7331200	9/26/2014	0.9 P
USGS	7331200	9/27/2014	0.9 P
USGS	7331200	9/28/2014	0.9 P
USGS	7331200	9/29/2014	0.92 P
USGS	7331200	9/30/2014	0.93 P

Quarter Summary	3rd QTR
Total Tons Shipped	1,488,782
Total Acre Feet	33.80
Average Moisture %	3.09%

**Q3 2014**

<b>Water Volume Movements</b>		January	February	March	April	May	June	July	August	September
Pumped from Pit	(Ac-Ft)	165.4	121.2	108.6	115.1	115.1	180.7	141.8	122.7	104.9
Groundwater Component of Pitwater		<b>164.9</b>	<b>120.4</b>	<b>95.2</b>	<b>103.9</b>	<b>95.8</b>	<b>91.2</b>	<b>114.2</b>	<b>113.6</b>	<b>103.6</b>
Quarry dust suppression		0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.6	8.3
Q- freshwater pond	(Ac-Ft)	23.9	0.0	23.3	43.6	115.1	102.2	141.8	41.7	0.0
To Secondary FM7	(Ac-Ft)	313.0	306.2	403.2	400.7	381.7	382.9	362.4	365.4	329.5
To sand Plant FM8	(Ac-Ft)	38.4	48.2	60.4	89.0	82.5	51.2	35.6	41.4	82.2
to loadout FM6	(Ac-Ft)	336.9	330.5	463.0	472.5	490.6	501.1	457.5	449.5	444.0
to dust control FM9	(Ac-Ft)	5.0	3.2	4.3	5.5	2.9	5.4	4.3	19.7	6.2
to Plant FM7+FM8+FM6	(Ac-Ft)	688.2	684.9	926.7	962.3	954.9	935.3	855.5	856.4	855.8
to stream Augmentation	Ac-ft	141.45	121.20	85.30	71.49	0.00	78.55	0.00	76.40	96.66
					150.05					
To Troy FM3	(Ac-Ft)	656.0	654.2	910.4	937.4	937.1	944.2	857.9	845.0	854.6
From Troy to Freshwater Pond FM4	(Ac-Ft)	675.7	675.7	961.6	943.2	825.4	766.2	720.2	429.6	469.2



Date	Daily Rainfall Total	Total Daily Evaporation	Daily Notes
7/1/2014	0.89	0.122	
7/2/2014	0.55	0.069	
7/3/2014	0	0.187	
7/4/2014	0	0.211	
7/5/2014	0	0.211	
7/6/2014	0	0.274	
7/7/2014	0	0.317	
7/8/2014	0	0.298	
7/9/2014	0.01	0.166	
7/10/2014	0	0.075	
7/11/2014	0	0.349	
7/12/2014	0	0.347	
7/13/2014	0	0.39	
7/14/2014	0	0.213	
7/15/2014	0	0.304	
7/16/2014	0.23	0.2	
7/17/2014	1.24	0.222	
7/18/2014	0	0.008	
7/19/2014	0	0.013	
7/20/2014	0	0.181	
7/21/2014	0	0.208	
7/22/2014	0	0.247	
7/23/2014	0.02	0.349	
7/24/2014	0	0.192	
7/25/2014	0	0.261	
7/26/2014	0	0.294	
7/27/2014	0	0.283	
7/28/2014	0.05	0.154	
7/29/2014	0	0.221	
7/30/2014	0.76	0.239	
7/31/2014	0.05	0.021	
8/1/2014	0	0.008	
8/2/2014	0	0.16	
8/3/2014	0	0.184	
8/4/2014	0	0.203	
8/5/2014	0	0.218	
8/6/2014	0	0.237	
8/7/2014	0.1	0.104	
8/8/2014	0	0.179	
8/9/2014	0.23	0.127	
8/10/2014	0	0.067	
8/11/2014	0.81	0.575	
8/12/2014	0	0.515	
8/13/2014	0	0.042	
8/14/2014	0	0.037	
8/15/2014	0	0.066	

8/16/2014	0	0.012
8/17/2014	0	0.042
8/18/2014	0	0.039
8/19/2014	0.01	0.216
8/20/2014	0.51	0.381
8/21/2014	0	0.13
8/22/2014	0	0.125
8/23/2014	0	0.341
8/24/2014	0	0.186
8/25/2014	0	0.27
8/26/2014	0	0.28
8/27/2014	0	0.226
8/28/2014	0	0.224
8/29/2014	0.36	0.135
8/30/2014	0	0.219
8/31/2014	0	0.244
9/1/2014	0	0.267
9/2/2014	0	0.239
9/3/2014	0	0.258
9/4/2014	0	0.325
9/5/2014	0	0.215
9/6/2014	0.12	0.161
9/7/2014	0	0.006
9/8/2014	0	0.116
9/9/2014	0	0.254
9/10/2014	0.11	0.196
9/11/2014	0.35	0.161
9/12/2014	0.26	0.056
9/13/2014	0	0.024
9/14/2014	0	0.06
9/15/2014	0.01	0.041
9/16/2014	0	0.136
9/17/2014	0	0.15
9/18/2014	0.22	0.148
9/19/2014	0.01	0.005
9/20/2014	0	0
9/21/2014	0	0.011
9/22/2014	0	0.007
9/23/2014	0	0.008
9/24/2014	0	0.023
9/25/2014	0	0.086
9/26/2014	0	0.117
9/27/2014	0	0.143
9/28/2014	0	0.122
9/29/2014	0	0.175
9/30/2014	0	0.167

MESONET CLIMATOLOGICAL DATA SUMMARY July 2014 Time Zone: Midnight-Midnight CST  
 (TISH) Tishomingo Nearest City: 6.0 N Tishomingo County: Johnston  
 Latitude: 34-19-57 Longitude: 96-40-44 Elevation: 879 feet

DAY	TEMPERATURE ( F )				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	NA	NA	NA	NA	NA	NA	94	48	75	0.27	28.99	29.93	S	7.0	33.0	23.55	81.3	NA	NA	NA
2	NA	NA	NA	NA	NA	NA	97	58	82	3.12	29.12	30.07	NE	7.3	33.6	15.46	77.3	NA	NA	NA
3	NA	NA	NA	NA	NA	NA	93	43	68	0.00	29.22	30.16	NE	5.2	14.5	22.69	77.1	NA	NA	NA
4	NA	NA	NA	NA	NA	NA	91	53	72	0.00	29.24	30.19	SE	5.8	15.6	27.92	78.2	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	92	55	74	0.00	29.19	30.13	SSE	7.7	19.2	23.92	79.5	NA	NA	NA
6	NA	NA	NA	NA	NA	NA	97	47	71	0.00	29.06	30.00	S	7.6	18.7	28.23	80.6	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	92	44	69	0.00	28.99	29.93	SSW	6.9	16.7	28.66	81.5	NA	NA	NA
8	NA	NA	NA	NA	NA	NA	90	38	65	0.00	29.02	29.96	SSW	7.0	20.2	27.46	82.0	NA	NA	NA
9	NA	NA	NA	NA	NA	NA	89	56	78	0.00	29.08	30.02	NE	6.7	21.4	17.75	80.3	NA	NA	NA
10	NA	NA	NA	NA	NA	NA	95	37	69	0.00	29.05	29.99	ESE	6.7	22.9	27.37	81.4	NA	NA	NA
11	NA	NA	NA	NA	NA	NA	95	31	63	0.00	29.13	30.08	S	8.0	22.7	28.96	80.9	NA	NA	NA
12	NA	NA	NA	NA	NA	NA	95	21	58	0.00	29.16	30.10	SSW	5.9	18.8	29.12	80.7	NA	NA	NA
13	NA	NA	NA	NA	NA	NA	94	31	61	0.00	29.08	30.03	SW	5.7	16.8	28.77	81.3	NA	NA	NA
14	NA	NA	NA	NA	NA	NA	92*	51*	72*	0.00*	29.03*	29.97*	WSW*	4.4*	21.0*	NA	80.5*	NA	NA	NA
15	82	63	73.4	57.1	0	7	84	34	59	0.00	29.11	30.06	NNE	10.2	22.7	28.33	79.3	NA	NA	NA
16	76*	59*	67.2*	57.1*	0*	2*	94*	52*	71*	0.48*	29.07*	30.02*	ENE*	8.5*	25.1*	NA	75.7*	NA	NA	NA
17	66	61	64.3	62.8	1	0	97	90	95	1.59	29.03	29.97	ESE	9.6	30.5	3.65	71.1	71.7	74	70
18	71	62	65.3	61.9	0	1	97	75	89	0.00	29.08	30.02	NE	5.5	12.9	9.83	71.3	71.0	74	69
19	76	65	69.5	63.6	0	6	95	64	82	0.00	29.09	30.03	SSE	3.4	11.8	13.77	73.9	73.4	78	70
20	86	61	73.8	66.8	0	8	98	62	80	0.00	29.06	30.00	SSE	5.7	15.7	26.31	76.6	76.0	83	69
21	91	67	78.8	70.9	0	14	97	53	78	0.00	29.08	30.02	ESE	5.5	15.6	27.61	79.9	80.1	89	72
22	91	71	80.5	72.1	0	16	96	52	77	0.00	29.12	30.07	ESE	3.8	13.0	26.60	82.4	83.4	93	76
23	93	69	78.6	70.7	0	16	98	52	79	0.00	29.14	30.08	NW	3.8	30.8	22.49	82.7	84.1	93	77
24	90	67	78.0	67.8	0	13	97	47	74	0.00	29.09	30.03	ESE	3.9	14.8	28.02	82.6	84.5	94	76
25	94	70	81.7	70.1	0	17	97	36	71	0.00	29.03	29.97	SSE	7.5	19.0	27.54	83.2	85.8	95	78
26	96	71	83.7	69.7	0	19	92	35	66	0.00	29.01	29.95	S	7.3	19.1	26.04	83.8	86.9	95	79
27	98	73	85.0	71.7	0	20	89	37	67	0.00	29.05	29.99	NE	6.8	18.1	26.22	85.1	88.7	99	80
28	86	70	78.1	65.4	0	13	93	45	66	0.00	29.19	30.13	N	7.3	23.4	20.14	83.6	86.8	93	82
29	89	67	77.0	63.4	0	13	94	31	67	0.00	29.17	30.11	E	3.0	12.6	22.00	82.7	85.6	95	79
30	74	68	71.2	68.1	0	6	96	80	90	0.86	29.08	30.02	ESE	6.2	21.1	5.14	79.2	79.4	85	76
31	70	65	67.3	65.0	0	2	97	85	93	0.09	29.08	30.02	NE	8.2	18.4	5.79	75.1	73.8	76	72

84\* 66\* 74.9\* 66.1\* <- Monthly Averages -> 29.09\* 30.03\* ESE\* 6.4\* 33.6\* 22.39\* 79.7\* 80.7\* 88\* 75\*

Temperature - Highest: 98*	Degree Days - Total HDD: 1*	Number of Days With: Tmax ≥ 90: 7*      Rainfall ≥ 0.01 inch: 6* Tmax ≤ 32: 0*      Rainfall ≥ 0.10 inch: 5* Tmin ≤ 32: 0*      Avg Wind Speed ≥ 10 mph: 1* Tmin ≤ 0: 0*      Max Wind Speed ≥ 30 mph: 4*
Lowest: 59*	Total CDD: 175*	
Rainfall: Monthly Total: 6.41* in.	Humidity - Highest: 98*	
Greatest 24 Hr: 3.12* in.	Lowest: 21*	

MESONET CLIMATOLOGICAL DATA SUMMARY August 2014 Time Zone: Midnight-Midnight CST  
 (TISH) Tishomingo Nearest City: 6.0 N Tishomingo County: Johnston  
 Latitude: 34-19-57 Longitude: 96-40-44 Elevation: 879 feet

DAY	TEMPERATURE ( F )				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	79	64	71.0	65.0	0	7	97	58	83	0.00	29.12	30.06	NNE	4.9	15.2	16.42	75.8	75.2	81	71
2	85	61	72.9	64.7	0	8	98	48	78	0.00	29.14	30.08	NE	4.4	14.0	25.71	77.4	77.7	86	70
3	87	64	75.6	65.1	0	10	96	45	73	0.00	29.14	30.09	NNE	4.3	14.0	27.14	79.2	80.9	91	72
4	88	65	76.4	65.1	0	11	96	39	72	0.00	29.13	30.07	ENE	3.0	10.4	26.87	80.2	82.8	93	74
5	90	62	77.1	66.4	0	11	97	37	73	0.00	29.11	30.06	ESE	4.1	14.3	25.67	80.7	83.4	93	75
6	93	71	81.7	70.5	0	17	96	45	71	0.00	29.03	29.97	SSE	7.2	20.0	24.37	82.6	85.4	94	78
7	92	72	80.6	71.7	0	17	91	48	76	0.04	28.94	29.88	S	7.0	20.9	20.31	82.3	84.4	92	79
8	92	74	81.8	73.0	0	18	96	49	77	0.00	28.96	29.90	ESE	4.2	16.9	21.67	83.7	86.5	95	79
9	96	71	80.2	70.8	0	19	96	43	76	0.21	29.01	29.95	SSE	5.8	33.1	22.42	84.3	87.4	98	81
10	94	70	80.5	72.2	0	17	96	44	78	0.00	29.04	29.98	E	4.5	18.5	23.57	83.5	85.1	94	78
11	89	69	79.8	69.1	0	14	95	47	72	0.31	29.10	30.04	N	7.7	37.4	26.11	83.4	84.6	91	78
12	87	64	74.7	60.1	0	10	94	34	64	0.00	29.13	30.08	NNE	7.2	18.3	27.45	81.1	83.0	92	75
13	87	62	74.6	59.7	0	9	95	34	64	0.00	29.14	30.08	ENE	3.8	13.1	26.80	80.6	83.6	94	75
14	90	63	77.5	63.0	0	11	94	39	64	0.00	29.09	30.03	SE	4.9	16.7	25.80	81.6	84.8	95	76
15	92	66	79.6	66.7	0	14	92	43	67	0.00	29.02	29.96	SSE	7.2	20.2	26.01	82.7	86.0	95	78
16	92	73	80.9	69.1	0	18	86	43	69	0.00	28.96	29.90	SE	6.4	23.5	12.95	82.5	84.7	90	80
17	89	70	78.7	69.4	0	15	95	46	74	0.01	28.99	29.93	S	7.1	20.5	15.85	81.8	83.7	91	79
18	97	66	81.7	68.8	0	16	98	37	70	0.00	28.96	29.90	SW	6.8	20.0	25.22	83.3	86.2	95	78
19	94	69	81.8	68.1	0	16	97	38	66	0.00	28.94	29.88	SSE	6.3	19.4	25.39	84.7	88.2	97	80
20	95	73	83.2	68.1	0	19	86	35	63	0.00	28.99	29.93	SSE	9.5	24.7	21.73	84.6	87.8	96	82
21	95	74	84.4	69.6	0	20	89	42	63	0.00	29.03	29.98	SSE	11.3	26.2	24.48	85.4	88.6	97	81
22	98	73	84.9	66.4	0	21	84	29	57	0.00	29.04	29.98	S	9.3	24.1	24.97	86.0	89.2	98	82
23	99	67	83.0	62.0	0	18	96	22	56	0.00	29.00	29.94	SSE	7.3	22.0	25.83	85.5	88.8	98	81
24	97	69	84.3	65.6	0	18	92	30	57	0.00	28.98	29.92	SE	6.9	22.7	24.28	85.9	89.2	98	81
25	99	68	83.7	66.5	0	18	96	27	61	0.00	29.01	29.95	E	4.5	14.4	25.49	86.6	90.4	100	82
26	96	70	82.6	67.9	0	18	93	33	65	0.00	29.08	30.03	ESE	5.5	19.2	23.85	86.5	90.4	99	83
27	94	70	81.1	66.8	0	17	92	38	65	0.00	29.09	30.04	SE	4.5	15.1	22.98	86.3	89.9	98	82
28	94	66	80.4	64.5	0	15	94	30	63	0.02	29.00	29.94	SSE	6.5	21.1	23.63	85.9	88.9	98	81
29	86	67	76.1	66.3	0	12	95	50	74	0.13	28.97	29.90	SSW	5.3	27.0	20.28	84.5	85.8	92	80
30	94	68	78.9	68.7	0	16	98	38	74	0.10	28.99	29.93	S	4.9	20.4	22.11	83.7	85.8	96	79
31	95	67	81.2	68.2	0	16	97	36	69	0.01	28.96	29.90	SSE	10.2	26.0	23.29	82.8	85.1	94	77
	92	68	79.7	67.1	<- Monthly Averages ->						29.04	29.98	SSE	6.2	37.4	23.50	83.1	85.6	94	78

Temperature - Highest: 99 Lowest: 61	Degree Days - Total HDD: 0 Total CDD: 467	Number of Days With: Tmax ≥ 90: 22 Tmax ≤ 32: 0 Tmin ≤ 32: 0 Tmin ≤ 0: 0	Rainfall ≥ 0.01 inch: 8 Rainfall ≥ 0.10 inch: 4 Avg Wind Speed ≥ 10 mph: 2 Max Wind Speed ≥ 30 mph: 2
Rainfall: Monthly Total: 0.83 in. Greatest 24 Hr: 0.31 in.	Humidity - Highest: 98 Lowest: 22		

MESONET CLIMATOLOGICAL DATA SUMMARY      September      2014      Time Zone: Midnight-Midnight CST  
 (TISH) Tishomingo      Nearest City: 6.0 N      Tishomingo      County: Johnston  
 Latitude: 34-19-57      Longitude: 96-40-44      Elevation: 879 feet

DAY	TEMPERATURE ( F )				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND SPEED (mph)			SOLAR (MJ/m2)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX		SOD	BARE	MAX	MIN
1	95	75	83.9	69.2	0	20	82	43	63	0.00	28.93	29.87	SSE	14.6	29.9	23.14	84.5	87.5	96	81
2	90	74	81.7	68.3	0	17	87	43	65	0.00	28.99	29.93	SE	9.5	33.0	21.33	84.6	87.6	94	82
3	97	72	83.0	68.2	0	19	97	35	65	0.00	29.01	29.95	SSE	9.6	28.0	22.53	85.3	87.9	96	81
4	96*	72*	84.1*	66.2*	0*	19*	88*	31*	58*	0.00*	29.05*	29.99*	S *	10.0*	29.3*	NA	86.0*	88.3*	96*	82*
5	96	68	81.6	65.8	0	17	95	31	63	0.00	29.11	30.05	S	5.7	21.2	22.63	85.9	88.1	96	81
6	81	66	70.6	64.8	0	9	94	59	83	0.07	29.16	30.11	NNE	12.0	24.9	10.90	82.0	82.2	86	77
7	79	65	70.6	65.9	0	7	97	65	86	1.41	29.14	30.08	NNE	5.4	15.4	11.77	77.2	76.6	81	73
8	90	65	76.8	68.2	0	12	98	48	78	0.00	29.06	30.00	SE	4.0	14.8	16.19	78.8	78.3	84	73
9	94	71	83.2	67.6	0	18	93	37	63	0.00	28.94	29.88	SSE	10.3	27.3	20.75	81.0	81.9	89	75
10	97	73	83.4	69.0	0	20	86	37	64	0.62	28.85	29.78	S	12.3	33.8	19.87	82.1	83.9	92	78
11	73	66	68.8	64.4	0	4	94	76	86	0.03	29.05	29.99	NNE	12.1	23.6	5.73	76.3	75.4	80	72
12	66	55	59.6	56.4	4	0	96	81	89	0.59	29.22	30.16	NNE	15.1	33.1	3.70	70.2	68.4	72	64
13	67	53	58.3	50.5	5	0	90	60	76	0.00	29.31	30.26	NNE	8.9	26.8	15.75	67.7	65.6	71	61
14	74	57	64.5	59.6	0	0	97	64	85	0.00	29.25	30.19	SSE	3.6	11.9	12.01	70.2	68.5	74	64
15	80	66	71.8	66.9	0	8	95	67	85	0.04	29.19	30.13	SE	3.4	12.4	10.77	73.5	72.5	77	69
16	87	68	76.2	68.8	0	13	98	51	80	0.00	29.13	30.07	SSE	3.6	13.4	19.03	77.0	76.6	83	71
17	89	67	78.0	69.5	0	13	97	50	77	0.00	28.99	29.93	SSW	4.5	15.3	18.56	78.3	78.5	86	72
18	80	66	71.6	66.7	0	8	96	64	85	0.12	28.98	29.92	ENE	4.9	25.4	7.95	76.1	75.4	78	73
19	85	66	73.9	67.7	0	11	98	55	83	0.00	29.02	29.96	ESE	5.3	15.9	15.60	76.0	75.4	81	71
20	88	67	76.2	67.5	0	13	98	49	77	0.01	29.06	30.00	SE	5.1	25.8	19.72	77.4	78.1	86	72
21	90	63	75.4	64.6	0	12	98	43	72	0.03	29.13	30.08	NNE	5.2	18.9	17.56	77.6	78.6	88	72
22	82	59	68.9	50.5	0	5	81	29	54	0.00	29.24	30.19	NE	7.4	18.0	22.64	74.7	75.5	85	68
23	80	52	65.5	51.5	0	1	95	31	65	0.00	29.22	30.16	ESE	5.1	15.9	22.45	72.8	73.8	83	66
24	82	49	66.0	48.8	0	0	97	24	60	0.00	29.22	30.16	E	4.6	17.0	22.64	72.2	73.3	83	65
25	83	51	68.1	54.3	0	2	96	33	66	0.00	29.22	30.17	SE	4.2	15.9	21.70	72.9	74.4	84	66
26	83	55	69.2	56.3	0	4	97	34	67	0.00	29.17	30.11	E	4.2	14.3	19.33	73.7	75.3	84	68
27	84	56	69.8	58.1	0	5	94	41	70	0.00	29.12	30.07	ESE	5.1	18.2	19.22	73.9	75.5	84	68
28	85	58	70.5	59.7	0	7	96	35	72	0.00	29.11	30.05	E	4.0	15.9	15.10	74.3	75.7	83	69
29	86	56	71.2	58.3	0	6	98	31	69	0.00	29.05	29.99	E	3.9	12.7	20.90	75.3	77.2	87	69
30	87	60	73.8	63.3	0	9	95	43	72	0.00	28.91	29.85	ESE	6.2	21.3	17.85	75.8	77.6	86	71
	85*	63*	73.2*	62.5*	<- Monthly Averages ->						29.09*	30.04*	NNE*	7.0*	33.8*	17.15*	77.1*	77.8*	85*	72*

Temperature - Highest: 97*	Degree Days - Total HDD: 10*	Number of Days With: Tmax ≥ 90: 9*      Rainfall ≥ 0.01 inch: 9* Tmax ≤ 32: 0*      Rainfall ≥ 0.10 inch: 4* Tmin ≤ 32: 0*      Avg Wind Speed ≥ 10 mph: 7* Tmin ≤ 0: 0*      Max Wind Speed ≥ 30 mph: 3*
Lowest: 49*	Total CDD: 279*	
Rainfall: Monthly Total: 2.92* in.	Humidity - Highest: 98*	
Greatest 24 Hr: 1.41* in.	Lowest: 24*	

Date	Reference ET, Short [in]	Reference ET, Tall [in]	Cool Season Grass ET [in]	Warm Season Grass ET [in]	Pan Evaporation [in]
2014-10-14	0.17	0.24	0.15	0.10	0.23
2014-10-13	0.08	0.12	0.08	0.05	0.11
2014-10-12	0.13	0.17	0.12	0.08	0.16
2014-10-11	0.04	0.06	0.04	0.03	0.06
2014-10-10	0.17	0.25	0.16	0.11	0.23
2014-10-09	0.17	0.24	0.16	0.11	0.22
2014-10-08	0.15	0.20	0.14	0.09	0.19
2014-10-07	0.18	0.23	0.16	0.11	0.22
2014-10-06	0.14	0.18	0.13	0.09	0.17
2014-10-05	0.13	0.17	0.12	0.08	0.16
2014-10-04	0.14	0.18	0.13	0.09	0.17
2014-10-03	0.15	0.20	0.14	0.09	0.19
2014-10-02	0.14	0.21	0.13	0.09	0.19
2014-10-01	0.18	0.25	0.17	0.11	0.24
2014-09-30	0.16	0.20	0.14	0.10	0.19
2014-09-29	0.15	0.18	0.14	0.09	0.18
2014-09-28	0.12	0.15	0.11	0.08	0.15
2014-09-27	0.15	0.19	0.14	0.09	0.18
2014-09-26	0.14	0.17	0.13	0.09	0.17
2014-09-25	0.15	0.18	0.14	0.09	0.18
2014-09-24	0.15	0.19	0.14	0.10	0.19
2014-09-23	0.16	0.20	0.15	0.10	0.20
2014-09-22	0.20	0.27	0.19	0.12	0.27
2014-09-21	0.16	0.19	0.15	0.10	0.19
2014-09-20	0.16	0.20	0.15	0.10	0.20
2014-09-19	0.13	0.16	0.12	0.08	0.16
2014-09-18	0.08	0.10	0.08	0.05	0.10
2014-09-17	0.16	0.18	0.14	0.10	0.19
2014-09-16	0.15	0.17	0.14	0.09	0.18
2014-09-15	0.09	0.10	0.09	0.06	0.11
2014-09-14	0.09	0.10	0.08	0.06	0.11
2014-09-13	0.12	0.16	0.11	0.08	0.16
2014-09-12	0.06	0.08	0.06	0.04	0.08
2014-09-11	0.09	0.13	0.09	0.06	0.12
2014-09-10	0.28	0.40	0.26	0.17	0.39
2014-09-09	0.24	0.33	0.23	0.15	0.32
2014-09-08	0.15	0.17	0.14	0.09	0.17
2014-09-07	0.11	0.13	0.10	0.07	0.13
2014-09-06	0.14	0.20	0.13	0.09	0.19
2014-09-05	0.22	0.28	0.20	0.14	0.28
2014-09-04	0.28	0.38	0.26	0.17	0.38
2014-09-03	0.26	0.35	0.24	0.16	0.35
2014-09-02	0.23	0.31	0.22	0.14	0.31
2014-09-01	0.30	0.42	0.28	0.19	0.44
2014-08-31	0.25	0.33	0.23	0.15	0.33
2014-08-30	0.20	0.24	0.19	0.12	0.24
2014-08-29	0.18	0.22	0.17	0.11	0.22
2014-08-28	0.23	0.29	0.21	0.14	0.29
2014-08-27	0.21	0.25	0.19	0.13	0.26
2014-08-26	0.23	0.28	0.21	0.14	0.29

2014-08-25	0.24	0.29	0.22	0.15	0.30
2014-08-24	0.25	0.33	0.24	0.16	0.33
2014-08-23	0.28	0.37	0.26	0.17	0.37
2014-08-22	0.29	0.39	0.27	0.18	0.39
2014-08-21	0.28	0.38	0.26	0.17	0.39
2014-08-20	0.26	0.34	0.24	0.16	0.34
2014-08-19	0.23	0.28	0.22	0.14	0.29
2014-08-18	0.24	0.30	0.22	0.15	0.30
2014-08-17	0.18	0.23	0.16	0.11	0.22
2014-08-16	0.16	0.21	0.15	0.10	0.21
2014-08-15	0.24	0.30	0.22	0.15	0.31
2014-08-14	0.22	0.26	0.20	0.13	0.27
2014-08-13	0.20	0.23	0.19	0.13	0.25
2014-08-12	0.24	0.30	0.22	0.15	0.31
2014-08-11	0.23	0.27	0.21	0.14	0.29
2014-08-10	0.20	0.23	0.19	0.13	0.24
2014-08-09	0.22	0.27	0.21	0.14	0.27
2014-08-08	0.19	0.22	0.18	0.12	0.23
2014-08-07	0.20	0.24	0.18	0.12	0.24
2014-08-06	0.23	0.28	0.21	0.14	0.29
2014-08-05	0.20	0.23	0.19	0.13	0.24
2014-08-04	0.20	0.22	0.19	0.13	0.25
2014-08-03	0.21	0.23	0.19	0.13	0.25
2014-08-02	0.19	0.21	0.18	0.12	0.23
2014-08-01	0.13	0.15	0.13	0.08	0.16
2014-07-31	0.06	0.07	0.05	0.03	0.07
2014-07-30	0.06	0.07	0.05	0.04	0.07
2014-07-29	0.18	0.20	0.17	0.11	0.22
2014-07-28	0.20	0.25	0.19	0.12	0.26
2014-07-27	0.26	0.31	0.24	0.16	0.32
2014-07-26	0.26	0.31	0.24	0.16	0.33
2014-07-25	0.25	0.31	0.24	0.16	0.32
2014-07-24	0.22	0.25	0.21	0.14	0.27
2014-07-23	0.20	0.22	0.18	0.12	0.23
2014-07-22	0.22	0.25	0.21	0.14	0.27
2014-07-21	0.23	0.26	0.21	0.14	0.28
2014-07-20	0.20	0.23	0.19	0.12	0.24
2014-07-19	0.11	0.13	0.11	0.07	0.14
2014-07-18	0.09	0.10	0.08	0.05	0.10
2014-07-17	0.03	0.04	0.03	0.02	0.04
2014-07-16	0.13	0.18	0.12	0.08	0.17
2014-07-15	0.25	0.32	0.23	0.15	0.34
2014-07-14	0.14	0.17	0.13	0.09	0.17
2014-07-13	0.27	0.32	0.25	0.17	0.34
2014-07-12	0.27	0.34	0.25	0.17	0.35
2014-07-11	0.28	0.35	0.26	0.17	0.36
2014-07-10	0.26	0.32	0.24	0.16	0.33
2014-07-09	0.17	0.21	0.16	0.11	0.22
2014-07-08	0.27	0.33	0.25	0.17	0.34
2014-07-07	0.27	0.32	0.25	0.17	0.34
2014-07-06	0.25	0.31	0.24	0.16	0.32
2014-07-05	0.22	0.26	0.20	0.13	0.27

2014-07-04	0.22	0.25	0.21	0.14	0.27
2014-07-03	0.19	0.22	0.18	0.12	0.24
2014-07-02	0.15	0.18	0.14	0.09	0.18
2014-07-01	0.22	0.27	0.21	0.14	0.28
2014-06-30	0.33	0.44	0.31	0.20	0.47
2014-06-29	0.27	0.35	0.25	0.17	0.37
2014-06-28	0.17	0.23	0.16	0.10	0.22
2014-06-27	0.20	0.27	0.19	0.13	0.28
2014-06-26	0.16	0.21	0.15	0.10	0.21
2014-06-25	0.16	0.19	0.15	0.10	0.20
2014-06-24	0.20	0.22	0.19	0.12	0.24
2014-06-23	0.16	0.19	0.15	0.10	0.20
2014-06-22	0.22	0.26	0.21	0.14	0.28
2014-06-21	0.19	0.22	0.18	0.12	0.23
2014-06-20	0.19	0.22	0.17	0.12	0.23
2014-06-19	0.15	0.19	0.14	0.09	0.19
2014-06-18	0.25	0.33	0.23	0.15	0.34
2014-06-17	0.28	0.37	0.26	0.17	0.39
2014-06-16	0.28	0.36	0.26	0.17	0.38
2014-06-15	0.26	0.34	0.24	0.16	0.35
2014-06-14	0.23	0.30	0.21	0.14	0.31
2014-06-13	0.24	0.28	0.22	0.15	0.30
2014-06-12	0.16	0.20	0.15	0.10	0.20
2014-06-11	0.24	0.28	0.22	0.15	0.30
2014-06-10	0.21	0.26	0.20	0.13	0.28
2014-06-09	0.18	0.22	0.16	0.11	0.23
2014-06-08	0.15	0.18	0.14	0.09	0.19
2014-06-07	0.24	0.30	0.22	0.15	0.31
2014-06-06	0.14	0.17	0.13	0.09	0.17
2014-06-05	0.24	0.30	0.22	0.15	0.31
2014-06-04	0.29	0.37	0.27	0.18	0.39
2014-06-03	0.27	0.33	0.25	0.16	0.35
2014-06-02	0.25	0.31	0.23	0.15	0.32
2014-06-01	0.21	0.26	0.20	0.13	0.27
2014-05-31	0.17	0.20	0.16	0.10	0.20
2014-05-30	0.15	0.18	0.14	0.09	0.18
2014-05-29	0.23	0.27	0.21	0.14	0.28
2014-05-28	0.15	0.18	0.14	0.09	0.19
2014-05-27	0.10	0.12	0.10	0.06	0.12
2014-05-26	0.13	0.16	0.12	0.08	0.17
2014-05-25	0.19	0.25	0.18	0.12	0.25
2014-05-24	0.17	0.21	0.16	0.11	0.22
2014-05-23	0.17	0.22	0.16	0.11	0.22
2014-05-22	0.23	0.29	0.22	0.15	0.30
2014-05-21	0.25	0.33	0.23	0.16	0.34
2014-05-20	0.28	0.39	0.26	0.18	0.41
2014-05-19	0.25	0.33	0.23	0.15	0.36
2014-05-18	0.17	0.23	0.16	0.11	0.22
2014-05-17	0.17	0.22	0.15	0.10	0.22
2014-05-16	0.19	0.23	0.18	0.12	0.24
2014-05-15	0.18	0.23	0.17	0.11	0.23