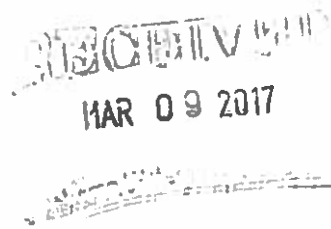




Robin L. Simmons
Regional Land Manager

March 9, 2017



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 Q4 and Annual 2016

Dear Mr. Wilkins:

Attached please find the Q4 and Annual 2016 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.

Modifications were made to the Q2 numbers in this annual report after it was determined that several days of discharging water to Mill Creek in June 2016 were incorrectly categorized in the Q2 report.

Please call if you have any questions or comments.

Sincerely,

A handwritten signature in cursive script that reads 'Robin L. Simmons'.

Robin L. Simmons, EIT
Regional Land Manager

North Texas/Oklahoma District
1503 LBJ Parkway Suite 400, Dallas, Texas 75234
t. (972) 350-8228 m. (214) 213-6024 e. Robin.Simmons@martinmarietta.com
www.martinmarietta.com

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ATTACHMENT 1 (Appendix C)
Martin Marietta (TXI) Mill Creek 2016

Appendix C. Consumptive use of Pitwater

Q1 2016 Q2 2016 Q3 2016 Q4 2016 2016 Total

PIT GROUNDWATER VOLUME						
1	Total volume pumped from producing mine pit(s) (AC-FT)	1413.17	792.76	524.70	375.88	3106.52
2	Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)	48.48	107.38	29.01	22.29	207.17
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)	15.03	31.51	4.88	27.28	78.70
4	(WATER HELD IN PIT FROM PREVIOUS MONTHS) other non pit waters pumped from the producing mining pit (AC-FT)	682.00	68.00			750.00
5	add lines 2 through 4	745.51	206.89	33.89	49.57	1035.86
6	Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)	667.66	585.87	490.81	326.31	2070.65
DEFINED ELEMENTS OF CONSUMPTIVE USE						
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	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)	7.19	5.04	5.14	4.74	22.12
9	Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)	6.18	10.79	3.39	2.03	22.40
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on site dust control)	7.83	7.24	18.51	1.19	34.76
11	DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)	21.20	23.07	27.04	7.97	79.28
PIT GROUNDWATER BALANCE						
12	Lines 6 minus 11	646.46	562.79	463.77	318.35	1991.37
13	Groundwater Augmentation Volume of pit groundwater returned to GW Basin or subbasin. (Troy Recharge AC-FT)	191.80	146.67	82.64	44.20	465.25
14	Stream Augmentation 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)	0.00	0.00	0.00	0.00	0.00
15	PPT and Runoff Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)	39.50	90.30	27.57	23.43	180.75
16	Recycled Pit Groundwater - Volume of ground water returned to the mine pit or holding basin (AC-FT)	528.40	353.26	386.47	277.99	1546.07
17	Other Non-Consumptive GW Losses Including pit GW returned to the land surface from which surface runoff flows into a mine pit and other losses (AC-FT)	0.00	0.00	0.00	0.00	0.00
18	add lines 13 through 17	759.70	590.18	496.58	345.62	2192.07
19	OTHER CONSUMPTIVE USE Line 12 minus Line 18	-113.23	-27.38	-32.81	-27.27	-200.70
TOTAL REPORTED CONSUMPTIVE USE (AC-FT)						
TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19		-92.04	-4.31	-5.77	-19.31	-121.42

RESULTS FROM RUNOFF MODELLING

2016	PPT. Inches	Quarry Monthly Totals				FW Pond Monthly Totals			Re-cycle Recharge (Troy) Monthly Totals			TXI-Mill Creek Totals					
		Sump Direct		In-Quarry		Runoff from beyond Quarry		Quarry Totals		Direct ppt		Runoff		Direct ppt		Runoff	
		ac-ft	ppt	ac-ft	ppt	ac-ft	ppt	ac-ft	ppt	ac-ft	ppt	ac-ft	ppt	ac-ft	ppt	ac-ft	ppt
January	0.62	1.671	0.244	0.000	1.91	1.13	0.00	2.10	0.00	4.90	0.24						
February	1.11	2.991	7.027	1.678	11.70	2.02	0.48	3.76	2.00	8.77	11.18						
March	3.88	10.457	26.093	13.348	49.90	7.06	10.87	13.15	18.49	30.66	68.80						
Q1 Subtotal	5.61	15.12	33.36	15.03	63.51	10.20	11.35	19.01	20.49	44.33	80.23						
April	6.12	16.493	41.611	15.570	73.67	11.13	8.64	20.74	20.35	48.36	86.17						
May	4.55	0.379	18.483	2.806	21.67	8.27	0.48	15.42	3.10	24.07	24.87						
June	3.86	0.322	30.094	13.135	43.55	7.02	8.99	13.08	17.60	20.42	69.82						
Q2 Subtotal	14.53	17.19	90.19	31.51	138.89	26.42	18.10	49.24	41.06	92.86	180.86						
July	2.22	0.19	9.57	1.51	11.27	4.04	0.27	7.52	1.68	11.75	13.03						
August	1.63	0.14	5.58	0.32	6.04	2.96	0.00	5.52	0.31	8.62	6.21						
September	2.62	0.22	13.31	3.05	16.57	4.76	0.87	8.88	3.61	13.86	20.84						
Q3 Subtotal	6.47	0.54	28.46	4.88	33.88	11.76	1.14	21.93	5.60	34.23	40.08						
October	2.02	0.17	11.58	15.24	26.98	3.67	1.78	6.85	4.67	10.69	33.27						
November	1.83	0.15	5.41	5.62	11.18	3.33	0.00	6.20	0.20	9.68	11.23						
December	1.06	0.09	4.89	6.42	11.40	1.93	0.65	3.59	1.92	5.61	13.88						
Q4 Subtotal	4.91	0.41	21.88	27.28	49.56	8.93	2.43	16.64	6.80	25.98	58.38						
ANNUAL TOTALS	31.52	33.26	173.89	78.69	285.84	57.31	33.03	106.83	73.94	197.40	359.55						

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Water Volume Movements	January	February	March	April	May	June	July	August	September	October	November	December
Pumped from Pit	259.3	495.8	658.1	299.1	251.6	242.1	208.0	166.9	149.7	144.2	119.4	112.3
Groundwater Component of Pitwater	207.4	334.1	458.2	225.4	229.9	198.5	196.8	160.9	133.2	117.2	108.2	100.9
Quarry dust suppression	1.5	4.4	3.3	2.3	1.0	3.3	9.2	7.5	0.5	0.3	0.0	0.6
Q- freshwater pond												
To Secondary FM7	257.8	491.4	654.8	296.8	148.7	238.8	198.8	159.5	149.2	143.9	119.3	111.7
To sand Plant FM8	474.7	507.8	535.1	522.2	532.7	460.3	444.9	517.0	522.9	590.4	456.3	347.0
to loadout FM6	73.3	214.2	138.7	145.4	140.5	111.1	103.7	114.8	109.8	98.8	81.0	71.5
to dust control FM9	363.8	338.1	385.4	435.1	395.8	359.3	331.4	386.3	368.2	413.0	383.6	268.5
to Plant FM7+FM8+FM6	0.7	3.4	1.6	2.3	3.0	5.8	7.7	2.8	1.2	1.2	0.9	0.9
to stream Augmentation	911.8	1060.1	1059.2	1102.8	1069.0	930.7	880.0	1018.1	1000.9	1102.2	920.8	687.0
	0.00	0.00	0.00	0.00	101.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Ac-Ft)	971.8	985.3	1085.3	1135.9	1100.3	951.2	909.8	1066.0	1025.8	1139.3	943.5	705.1
+	709.1	749.6	817.7	837.4	813.7	660.9	715.6	893.8	911.9	1003.4	817.7	606.0

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Quarter Summary	4th QTR
Total Tons Shipped	1,320,000
Total Acre Feet	26.60
Average Moisture %	2.74%

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 # may not have received Director's approval. Any such data values are qualified
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 # for any damages resulting from its use.
 #
 # Additional info: <https://help.waterdata.usgs.gov/policies/provisional-data-statement>
 #
 # File-format description: <https://help.waterdata.usgs.gov/faq/about-tab-delimited-output>
 # Automated-retrieval info: <https://help.waterdata.usgs.gov/faq/automated-retrievals>
 #
 # Contact: gs-w_support_nwisweb@usgs.gov
 # retrieved: 2017-03-07 15:49:31 EST (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
 # TS parameter statistic Description
 # 111780 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	111780_00060_00003	111780_00060_00003_cd
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USGS	07331200	2016-10-04	3.82	P
USGS	07331200	2016-10-05	4.14	P
USGS	07331200	2016-10-06	6.40	P
USGS	07331200	2016-10-07	15.3	P
USGS	07331200	2016-10-08	9.22	P
USGS	07331200	2016-10-09	6.71	P
USGS	07331200	2016-10-10	4.86	P
USGS	07331200	2016-10-11	4.08	P
USGS	07331200	2016-10-12	5.33	P
USGS	07331200	2016-10-13	2.63	P
USGS	07331200	2016-10-14	4.50	P
USGS	07331200	2016-10-15	2.26	P
USGS	07331200	2016-10-16	2.33	P
USGS	07331200	2016-10-17	2.19	P
USGS	07331200	2016-10-18	1.86	P
USGS	07331200	2016-10-19	1.71	P
USGS	07331200	2016-10-20	2.00	P
USGS	07331200	2016-10-21	1.44	P
USGS	07331200	2016-10-22	1.41	P
USGS	07331200	2016-10-23	1.31	P
USGS	07331200	2016-10-24	1.27	P
USGS	07331200	2016-10-25	1.32	P
USGS	07331200	2016-10-26	1.55	P
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USGS	07331200	2016-10-28	4.28	P
USGS	07331200	2016-10-29	3.87	P
USGS	07331200	2016-10-30	2.92	P
USGS	07331200	2016-10-31	2.27	P

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```

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#
# Additional info: https://help.waterdata.usgs.gov/policies/provisional-data-statement
#
# File-format description: https://help.waterdata.usgs.gov/faq/about-tab-delimited-output
# Automated-retrieval info: https://help.waterdata.usgs.gov/faq/automated-retrievals
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# Contact: gs-w_support_nwisweb@usgs.gov
# retrieved: 2017-03-07 15:50:33 EST (nadww01)
#
# Data for the following 1 site(s) are contained in this file
# USGS 07331200 Mill Creek near Mill Creek, OK
# -----

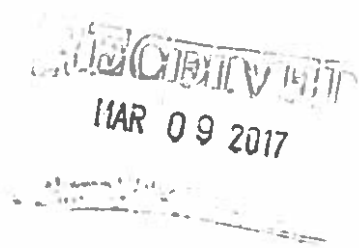
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```

# Data provided for site 07331200
#      TS      parameter      statistic      Description
#      111780      00060      00003      Discharge, cubic feet per second (Mean)
#
# Data-value qualification codes included in this output:
# P Provisional data subject to revision.
#

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USGS	07331200		2016-11-02	1.62 P
USGS	07331200		2016-11-03	1.79 P
USGS	07331200		2016-11-04	1.36 P
USGS	07331200		2016-11-05	1.16 P
USGS	07331200		2016-11-06	1.18 P
USGS	07331200		2016-11-07	1.33 P
USGS	07331200		2016-11-08	1.43 P
USGS	07331200		2016-11-09	1.21 P
USGS	07331200		2016-11-10	1.10 P
USGS	07331200		2016-11-11	1.00 P
USGS	07331200		2016-11-12	0.91 P
USGS	07331200		2016-11-13	0.76 P
USGS	07331200		2016-11-14	0.76 P
USGS	07331200		2016-11-15	0.74 P
USGS	07331200		2016-11-16	0.79 P
USGS	07331200		2016-11-17	0.80 P
USGS	07331200		2016-11-18	1.00 P
USGS	07331200		2016-11-19	0.82 P
USGS	07331200		2016-11-20	0.85 P
USGS	07331200		2016-11-21	0.90 P
USGS	07331200		2016-11-22	0.90 P
USGS	07331200		2016-11-23	1.00 P
USGS	07331200		2016-11-24	0.71 P
USGS	07331200		2016-11-25	0.65 P
USGS	07331200		2016-11-26	0.62 P
USGS	07331200		2016-11-27	0.73 P
USGS	07331200		2016-11-28	1.22 P
USGS	07331200		2016-11-29	1.08 P
USGS	07331200		2016-11-30	0.89 P



```

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# Automated-retrieval info: https://help.waterdata.usgs.gov/faq/automated-retrievals
#
# Contact: gs-w_support_nwisweb@usgs.gov
# retrieved: 2017-03-07 15:51:05 EST (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
# TS parameter statistic Description
# 111780 00060 00003 Discharge, cubic feet per second (Mean)
#

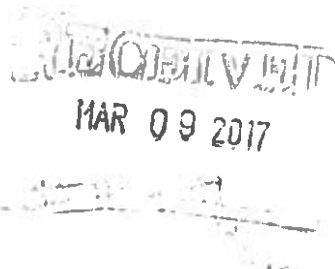
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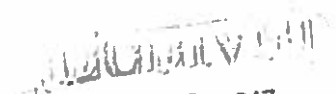
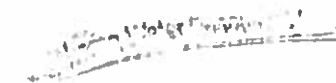
# Data-value qualification codes included in this output:
# P Provisional data subject to revision.
#

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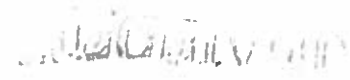
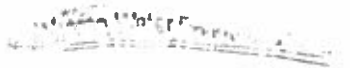
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USGS	07331200		2016-12-02	1.78 P
USGS	07331200		2016-12-03	2.79 P
USGS	07331200		2016-12-04	3.85 P
USGS	07331200		2016-12-05	2.09 P
USGS	07331200		2016-12-06	3.32 P
USGS	07331200		2016-12-07	2.78 P
USGS	07331200		2016-12-08	2.59 P
USGS	07331200		2016-12-09	2.27 P
USGS	07331200		2016-12-10	2.16 P
USGS	07331200		2016-12-11	2.50 P
USGS	07331200		2016-12-12	2.50 P
USGS	07331200		2016-12-13	2.29 P
USGS	07331200		2016-12-14	2.06 P
USGS	07331200		2016-12-15	1.90 P
USGS	07331200		2016-12-16	2.04 P
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USGS	07331200		2016-12-30	0.61 P
USGS	07331200		2016-12-31	0.58 P



date	rainfall	evaporation
10/1/2016	0	0.037
10/2/2016	0	0.027
10/3/2016	0	0.017
10/4/2016	0	0.009
10/5/2016	0	0.022
10/6/2016	0	0.033
10/7/2016	1.48	0.09
10/8/2016	0	0.107
10/9/2016	0	0.127
10/10/2016	0	0.205
10/11/2016	0	0.196
10/12/2016	0	0.237
10/13/2016	0.02	0.086
10/14/2016	0	0.071
10/15/2016	0	0.017
10/16/2016	0	
10/17/2016	0	0.098
10/18/2016	0	0.019
10/19/2016	0	0.008
10/20/2016	0.3	0.09
10/21/2016	0	0.152
10/22/2016	0	0.045
10/23/2016	0	0.027
10/24/2016	0	0.025
10/25/2016	0	0.019
10/26/2016	0.22	0.108
10/27/2016	0	0.018
10/28/2016	0	0.112
10/29/2016	0	0.024
10/30/2016	0	0.028
10/31/2016	0	0.007
11/1/2016	0	0.012
11/2/2016	0	0.008
11/3/2016	0.57	0.138
11/4/2016	0	0.009
11/5/2016	0	0.078
11/6/2016	0	0.119
11/7/2016	0.37	0.197
11/8/2016	0.01	0.016
11/9/2016	0	0.01
11/10/2016	0	0.083
11/11/2016	0	0.109
11/12/2016	0	0.108
11/13/2016	0	0.088
11/14/2016	0	0.105
11/15/2016	0	0.081


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11/16/2016	0	0.033
11/17/2016	0	0.008
11/18/2016	0	0.008
11/19/2016	0	0.013
11/20/2016	0	0.007
11/21/2016	0	0.016
11/22/2016	0.37	0.065
11/23/2016	0	0.025
11/24/2016	0	0.05
11/25/2016	0	0.106
11/26/2016	0.01	0.032
11/27/2016	0	
11/28/2016	0.5	0.161
11/29/2016	0	0.004
11/30/2016	0	0.004
12/1/2016	0	0.01
12/2/2016	0	0
12/3/2016	0.58	0.58
12/4/2016	0.11	0.111
12/5/2016	0	0.004
12/6/2016	0	0.009
12/7/2016	0	0.001
12/8/2016	0	0.619
12/9/2016	0	0.216
12/10/2016	0	0
12/11/2016	0.03	0.03
12/12/2016	0	0.262
12/13/2016	0	0.746
12/14/2016	0	0.226
12/15/2016	0	0.049
12/16/2016	0.06	0.673
12/17/2016	0.01	0.013
12/18/2016	0	0.005
12/19/2016	0	0.093
12/20/2016	0	0.539
12/21/2016	0	0.003
12/22/2016	0	0
12/23/2016	0.12	0.12
12/24/2016	0.06	0.061
12/25/2016	0.09	0.09
12/26/2016	0	0
12/27/2016	0	0.001
12/28/2016	0	0.001
12/29/2016	0	0.001
12/30/2016	0	0.62
12/31/2016	0	0.36


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11/11/2017 11:09 AM
 11/11/2017 11:09 AM

MESONET CLIMATOLOGICAL DATA SUMMARY
 (TISH) Tishomingo
 Latitude: 34-19-57

October 2016
 Nearest City: 6.0 N Tishomingo
 Longitude: 96-40-44

Time Zone: Midnight-Midnight CST
 County: Johnston
 Elevation: 879 feet

DAY	TEMPERATURE (F)		DEG DAYS HDD CDD	HUMIDITY (%) MAX MIN AVG	RAIN (in)	PRESSURE (in) MSL	WIND SPEED DIR AVG MAX	SOLAR (MJ/m2)	4" SOIL TEMPERATURES												
	MAX	MIN							SOD	BARE											
1	79	56	65.3	55.0	0	2	98	37	74	0.00	29.12	30.06	SSE	3.1	13.1	16.79	71.7	68.9	77	63	
2	81	56	67.7	57.3	0	4	98	42	73	0.00	29.10	30.04	S	4.0	15.1	19.73	72.5	70.1	78	64	
3	83	56	69.4	57.9	0	5	100	40	71	0.00	28.98	29.92	SSE	6.8	21.7	19.67	72.4	70.0	77	64	
4	83	63	73.6	63.7	0	8	89	58	72	0.00	28.84	29.77	SSE	12.1	31.4	12.51	72.2	70.4	76	66	
5	88	72	78.9	69.9	0	15	93	54	75	0.00	28.92	29.86	S	11.4	23.3	17.03	75.1	75.3	82	71	
6	86	66	76.7	69.1	0	11	99	55	79	0.06	28.99	29.93	SSE	10.0	31.8	13.49	75.7	75.6	81	72	
7	66	52	58.9	55.8	6	0	100	74	90	1.31	29.23	30.18	N	11.9	28.8	10.54	70.1	68.0	74	62	
8	74	48	59.4	47.7	4	0	93	31	69	0.00	29.30	30.25	NNE	7.4	22.3	19.84	67.3	63.7	72	57	
9	73	46	59.8	48.2	5	0	97	33	70	0.00	29.33	30.28	SE	3.1	14.1	16.55	67.4	63.9	71	57	
10	77	48	62.1	49.5	2	0	99	31	68	0.00	29.23	30.17	SSE	5.5	19.5	18.23	67.4	63.9	71	58	
11	83	49	66.7	54.3	0	1	100	34	69	0.00	29.12	30.06	SSE	8.0	23.2	19.01	67.4	64.3	72	58	
12	85	55	70.4	63.4	0	5	99	50	81	0.00	29.10	30.05	S	12.1	29.1	16.41	71.2	70.0	78	64	
13	63	54	57.5	54.0	7	0	99	76	88	0.06	29.21	30.16	NNE	7.1	19.1	7.63	67.3	63.4	77	60	
14	75	55	63.6	60.2	0	0	100	66	90	0.00	29.15	30.10	SE	5.4	14.3	13.49	68.6	66.1	73	61	
15	85	64	73.4	67.2	0	10	100	57	83	0.00	29.02	29.96	SSE	12.0	29.9	13.01	71.2	70.1	76	66	
16	87	65	75.9	67.6	0	11	95	53	77	0.00	28.94	29.88	S	12.6	31.1	16.19	72.4	71.7	78	67	
17	87	70	77.4	68.0	0	12	87	54	74	0.00	28.81	29.75	S	14.5	33.6	15.44	73.1	72.7	79	69	
18	86	68	75.9	67.9	0	14	96	55	77	0.00	28.88	29.82	SSW	7.0	18.8	15.13	74.1	74.0	81	69	
19	86	66	74.7	68.9	0	11	100	58	84	0.16	28.98	29.92	S	7.7	27.3	15.15	74.9	74.7	82	69	
20	72	49	62.4	52.5	5	0	98	39	73	0.10	29.25	30.20	N	12.4	29.3	17.73	71.2	67.9	72	61	
21	70	44	55.0	42.6	8	0	98	25	70	0.00	29.28	30.23	NNW	4.0	14.0	18.20	67.0	62.5	71	56	
22	75	42	58.2	46.1	6	0	100	34	69	0.00	29.17	30.12	S	6.3	20.9	17.67	65.4	62.0	71	55	
23	78	47	61.8	52.8	3	0	98	50	74	0.00	29.17	30.12	S	6.4	21.4	13.67	65.3	63.0	71	56	
24	82	55	67.2	58.9	0	3	99	49	77	0.00	29.25	30.20	SSE	5.5	14.7	16.26	68.0	67.2	77	60	
25	79	56	66.8	61.5	0	2	100	57	84	0.00	29.21	30.15	SSE*	6.1	18.8	NA	69.0	68.3	75	63	
26	82	56	66.8	61.5	0	4	100	53	85	0.00	29.16	30.11	SSW	6.0	20.5	14.65	69.6	69.5	78	63	
27	83	59	69.5	61.8	0	6	100	47	80	0.00	29.23	30.18	E	3.9	14.2	16.80	70.7	71.0	80	64	
28	83	57	68.9	58.3	0	5	100	35	73	0.00	29.19	30.14	S	7.2	20.8	16.15	70.1	71.0	79	65	
29	82	54	68.1	58.6	0	3	100	43	75	0.00	29.13	30.07	S	9.3	28.8	16.10	68.6	69.8	78	63	
30	83	58	69.0	60.8	0	6	98	48	78	0.00	29.15	30.09	S	4.6	14.9	15.63	69.5	71.0	80	64	
31	83	56	68.0	57.7	0	5	100	39	73	0.00	29.04	29.98	S	7.7	25.4	15.94	69.2	70.6	79	64	
		80*	56*	67.4*	58.7*	<- Monthly Averages ->		29.11*	30.06*	S	7.8*	33.6*	15.82*	70.2*	68.7*	76*	63*				

Temperature - Highest: 88*	Temperature - Lowest: 42*	Degree Days - Total HDD: 46*	Degree Days - Total CDD: 142*	Number of Days With: Tmax ≥ 90: 0* Tmax ≤ 32: 0* Tmin ≤ 32: 0* Tmin ≤ 0: 0*	Rainfall ≥ 0.01 inch: 5* Rainfall ≥ 0.10 inch: 3* Avg Wind Speed ≥ 10 mph: 9* Max Wind Speed ≥ 30 mph: 4*
Rainfall: Monthly Total: 1.69* in. Greatest 24 Hr: 1.31* in.					

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 Monthly data were collected Tuesday, January 11, 2017 at 00:18 UTC
 * Denotes incomplete record

الهيئة العامة للغذاء والدواء
MAR 09 2017

MESONET CLIMATOLOGICAL DATA SUMMARY										November 2016		Time Zone: Midnight-Midnight CST										
(TISH) Tishomingo										Nearest City: 6.0 N		County: Johnston										
Latitude: 34-19-57										Longitude: 96-40-44		Tishomingo										
										Elevation: 879 feet												
DAY	TEMPERATURE (F)		DEWPT		DEG DAYS		HUMIDITY (%)		RAIN		PRESSURE (in)		WIND SPEED (mph)		SOLAR		4" SOIL TEMPERATURES					
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG	(in)	STN	MSL	DIR	AVG	MAX	(MJ/m2)	SOD	BARE	MAX	MIN		
1	80	61	71.9	65.6	0	6	99	63	81	0.00	29.00	29.94	S	10.8	25.5	10.26	69.4	70.8	77	66		
2	82	69	74.8	68.7	0	10	95	65	82	0.00	29.14	30.09	SSE	8.5	21.1	12.54	72.4	74.8	81	71		
3	73	61	66.5	64.2	0	2	100	78	93	0.45	29.28	30.23	NNW	6.4	21.6	5.37	70.5	69.9	73	67		
4	70	61	65.8	62.9	0	1	99	82	90	0.00	29.34	30.29	NNE	7.6	21.0	5.45	69.5	67.8	70	66		
5	73	53	62.0	50.9	2	0	93	35	70	0.00	29.32	30.27	E	4.2	13.4	11.75	68.4	65.6	71	62		
6	69	51	59.9	49.6	5	0	89	46	70	0.01	29.21	30.16	SE	5.8	18.1	7.96	66.2	62.6	67	59		
7	65	56	60.8	60.1	5	0	100	90	98	0.90	29.18	30.13	ESE	3.9	14.1	2.97	66.0	63.3	66	61		
8	64	58	59.7	58.6	4	0	100	87	96	0.03	29.29	30.23	N	8.2	20.5	2.57	65.0	63.5	65	62		
9	67	49	58.1	51.3	7	0	95	59	79	0.00	29.36	30.31	NNE	8.7	20.1	11.32	65.2	62.0	68	57		
10	68	41	53.7	45.8	11	0	98	43	77	0.00	29.35	30.29	NW	3.3	9.9	14.60	62.9	59.0	67	52		
11	75	45	58.9	50.8	5	0	100	44	78	0.00	29.26	30.21	NNE	5.1	23.6	14.05	63.3	60.8	70	54		
12	66	43	53.3	43.9	10	0	99	48	72	0.00	29.33	30.28	NNE	6.7	19.2	14.77	62.5	58.7	66	53		
13	66	43	53.1	45.5	10	0	96	53	77	0.00	29.23	30.18	NNE	5.6	17.9	13.71	61.0	56.8	64	51		
14	73	45	56.3	49.4	6	0	98	48	80	0.00	29.07	30.01	NW	5.4	16.2	14.30	61.5	58.5	67	52		
15	79	44	58.3	49.4	4	0	100	33	78	0.00	29.06	30.00	NW	4.1	12.4	14.71	61.8	59.3	68	52		
16	83	43	60.8	48.7	2	0	100	27	71	0.00	28.96	29.90	S	6.0	19.2	14.86	62.1	60.0	68	53		
17	75	54	66.1	55.5	0	0	87	52	69	0.00	28.86	29.80	S	14.6	37.1	14.01	62.6	61.7	68	56		
18	70	40	54.2	39.0	10	0	90	39	58	0.00	29.22	30.17	NNW	14.4	33.5	14.66	61.4	60.1	64	52		
19	54	28	39.4	27.5	24	0	97	31	66	0.00	29.58	30.54	NNW	5.8	16.4	14.99	55.7	51.3	59	45		
20	61	26	43.1	28.6	22	0	100	26	63	0.00	29.33	30.27	SSE	6.9	23.2	14.68	54.0	49.7	59	42		
21	68	36	53.0	39.5	13	0	88	34	62	0.00	29.08	30.03	SSE	7.4	23.2	14.07	55.2	53.0	62	45		
22	69	52	61.6	58.3	5	0	97	73	89	0.15	28.94	29.88	SSE	10.2	29.9	2.90	59.2	58.7	62	56		
23	62	36	50.7	42.8	16	0	100	51	76	0.00	29.14	30.08	WNW	6.8	22.2	13.65	58.1	55.6	61	51		
24	65	33	46.9	41.8	16	0	100	51	65	0.00	29.24	30.16	SSE	5.0	19.8	13.24	55.8	52.4	60	46		
25	59	35	46.8	39.4	18	0	98	50	77	0.00	29.43	30.38	N	8.3	20.5	13.65	55.4	52.4	60	47		
26	58	30	43.7	41.8	21	0	100	64	94	0.00	29.38	30.33	SE	5.3	14.1	8.12	53.8	49.5	56	44		
27	62	45	52.9	50.6	11	0	100	79	92	0.02	28.94	29.87	SSE	11.5	28.4	1.47	55.6	53.0	55	51		
28	66	44	57.2	44.0	10	0	100	25	67	0.48	28.52	29.45	WSW	9.7	29.6	10.35	57.7	56.2	60	51		
29	65	43	53.3	34.2	11	0	80	26	51	0.00	28.69	29.62	WSW	8.3	22.9	11.92	55.2	51.9	58	48		
30	56	29	43.1	25.6	22	0	91	23	54	0.00	29.04	29.98	NW	8.2	24.0	13.61	52.4	47.9	54	43		
	68	45	56.2	47.8	<-	Monthly Averages ->					29.16	30.10	SSE	7.4	37.1	11.08	61.4	58.9	65	54		
	Temperature - Highest: 83		Lowest: 26				Degree Days - Total HDD: 270		Total CDD: 19				Number of Days With:									
	Rainfall: Monthly Total: 2.04 in.		Greatest 24 Hr: 0.90 in.				Humidity - Highest: 100		Lowest: 23				Tmax >= 90: 0		Rainfall >= 0.01 inch: 7							
													Tmax <= 32: 0		Rainfall >= 0.10 inch: 4							
													Tmin <= 32: 4		Avg Wind Speed >= 10 mph: 5							
													Tmin <= 0: 0		Max Wind Speed >= 30 mph: 2							

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 Monthly data generated on Tuesday, January 31, 2017 at 19:56 UTC
 * Denotes incomplete record

WIND DIRECTION
11AR 09 2017

MESONET CLIMATOLOGICAL DATA SUMMARY
(TISH) Tishomingo
Latitude: 34-19-57

December 2016
Nearest City: 6.0 N
Longitude: 96-40-44

Tishomingo

Time Zone: Midnight-Midnight CST
County: Johnston
Elevation: 879 feet

DAY	TEMPERATURE (F)		DEWPT	DEG DAYS HDD CDD	HUMIDITY (%)		RAIN (in)	PRESSURE (in) STN MSL	WIND DIR	WIND SPEED AVG MAX	SOLAR (MJ/m2)	4" SOIL TEMPERATURES								
	MAX	MIN			MAX	MIN						SOD	BARE	MAX	MIN					
1	62	26	44.0	28.2	21	0	98	25	61	0.00	29.10	30.04	SE	5.9	22.0	13.44	50.6	46.4	55	40
2	58	36	47.8	35.4	18	0	89	45	63	0.04	29.19	30.13	E	5.0	14.3	5.04	51.3	47.4	51	43
3	48	44	45.2	43.7	19	0	100	82	94	0.52	29.15	30.10	E	8.6	23.4	1.51	52.0	48.5	49	48
4	49	37	44.2	42.3	22	0	100	77	94	0.08	29.09	30.03	NNW	4.9	17.1	3.49	51.9	48.5	51	46
5	50	31	42.0	40.3	25	0	100	80	94	0.00	28.90	29.84	SSE	4.6	15.9	4.82	50.6	46.2	50	42
6	49*	34*	43.6*	36.8*	24*	0*	98*	50*	78*	0.00*	29.01*	29.95*	N*	8.9*	26.5*	NA	51.6*	47.8*	50*	44*
7	50	32	39.6	32.3	24	0	96	59	75	0.00	29.21	30.16	NNE	9.5	26.8	6.44	50.2	45.4	51	42
8	37	25	29.4	16.7	34	0	85	34	61	0.00	29.64	30.60	N	12.4	28.4	8.37	46.5	39.3	42	37
9	35	21	30.1	15.6	37	0	78	39	55	0.00	29.62	30.57	SE	5.3	12.6	5.39	44.6	37.2	39	36
10	46	35	40.6	27.7	25	0	71	48	60	0.00	29.35	30.30	SSE	12.7	28.1	4.78	46.1	40.4	43	38
11	68	40	52.1	46.0	11	0	100	49	81	0.00	28.94	29.88	S	14.0	28.9	3.65	49.3	47.4	53	43
12	53	30	42.3	36.2	24	0	95	58	80	0.00	29.09	30.04	NNE	6.9	20.9	11.08	48.9	45.6	51	39
13	50	30	43.2	37.2	25	0	100	60	80	0.00	29.14	30.08	N	9.3	24.3	10.87	50.2	47.7	52	42
14	44	30	36.0	30.4	28	0	89	67	80	0.00	29.29	30.24	NNE	8.9	23.9	4.62	47.8	42.9	46	40
15	39	28	33.4	23.0	32	0	96	55	66	0.00	29.36	30.30	SE	9.7	23.0	2.34	45.3	39.5	41	38
16	60	36	47.2	46.8	17	0	100	92	98	0.03	28.83	29.76	SSE	14.1	29.4	1.67	47.0	44.5	50	41
17	59	14	37.6	36.0	29	0	100	78	94	0.01	28.89	29.83	N*	NA	33.7*	1.94	48.4	45.9	50	37
18	24	8	15.3	6.0	49	0	84	43	68	0.00	29.60	30.55	NNE*	NA	16.5*	11.78	39.3	33.2	37	32
19	35	11	21.2	5.7	42	0	81	20	55	0.00	29.69	30.65	NNE	4.2	12.6	12.17	37.8	31.2	32	30
20	52	22	35.6	17.1	28	0	85	24	51	0.00	29.41	30.36	S	6.2	18.8	8.20	39.4	32.2	33	32
21	63	27	44.5	27.9	20	0	80	34	54	0.00	29.17	30.11	S	7.2	29.3	11.29	42.2	37.9	46	33
22	46	36	41.4	28.0	24	0	70	47	59	0.00	29.38	30.33	NNE	10.5	28.7	6.04	44.0	40.6	44	37
23	47	36	42.5	38.9	24	0	100	68	88	0.16	29.14	30.09	SSE	5.9	21.3	1.45	44.3	41.4	45	38
24	63	42	51.2	51.2	13	0	100	100	100	0.03	29.09	30.09	E	4.8	17.3	3.09	48.0	47.8	53	44
25	73	56	65.4	61.1	1	0	100	57	87	0.21	28.95	29.89	SSE	15.5	39.0	3.37	54.5	57.1	60	53
26	68	45	57.7	37.7	8	0	97	21	53	0.00	29.18	30.13	WNW	6.0	20.2	7.06	54.6	54.6	58	48
27	64	36	48.5	28.5	15	0	68	23	48	0.00	29.29	30.23	NNE	5.3	14.8	12.15	50.6	48.3	56	42
28	72	48	58.0	43.1	5	0	84	33	60	0.00	29.06	30.01	N	10.0	27.2	8.02	52.2	51.5	57	48
29	55	36	46.9	16.7	19	0	49	16	31	0.00	29.48	30.43	N	11.8	33.8	12.87	49.6	46.8	52	43
30	57	22	42.0	19.6	26	0	92	19	46	0.00	29.28	30.23	S	10.6	28.6	11.36	46.7	43.6	49	38
31	62	44	50.5	36.0	12	0	75	38	59	0.00	28.88	29.82	S	9.0	21.6	11.55	48.8	48.6	56	44
	53*	32*	42.5*	32.0*	<-	Monthly Averages ->	29.21*	30.15*	NNE*	8.5*	39.0*	7.00*	47.9*	44.4*	49*	40*				

Temperature - Highest: 73*
Lowest: 8*

Rainfall: Monthly Total: 1.08* in.
Greatest 24 Hr: 0.52* in.

Degree Days - Total HDD: 697*
Total CDD: 0*

Humidity - Highest: 100*
Lowest: 16*

Number of Days With:
Tmax >= 90: 0*
Tmax <= 32: 1*
Tmin <= 32: 15*
Tmin <= 0: 0*


Rainfall >= 0.01 inch: 8*
Rainfall >= 0.10 inch: 3*
Avg Wind Speed >= 10 mph: 9*
Max Wind Speed >= 30 mph: 3*

* Denotes incomplete record

Date	Reference ET, Short [m]	Reference ET, Tall [m]	Cool Season Grass ET [m]	Warm Season Grass ET [m]	Partly bare [m]
2017-02-13	0.11	0.16	0.10	0.07	0.15
2017-02-12	0.19	0.30	0.18	0.12	0.31
2017-02-11	0.17	0.25	0.16	0.10	0.23
2017-02-10	0.14	0.20	0.13	0.08	0.19
2017-02-09	0.09	0.14	0.09	0.06	0.12
2017-02-08	0.09	0.14	0.09	0.06	0.13
2017-02-07	0.13	0.20	0.12	0.08	0.18
2017-02-06	0.10	0.16	0.10	0.07	0.14
2017-02-05	0.05	0.07	0.05	0.03	0.06
2017-02-04	0.07	0.11	0.06	0.04	0.10
2017-02-03	0.10	0.16	0.09	0.06	0.15
2017-02-02	0.08	0.12	0.07	0.05	0.12
2017-02-01	0.11	0.17	0.11	0.07	0.15
2017-01-31	0.13	0.20	0.12	0.08	0.17
2017-01-30	0.09	0.14	0.09	0.06	0.12
2017-01-29	0.12	0.18	0.11	0.07	0.16
2017-01-28	0.09	0.14	0.08	0.06	0.12
2017-01-27	0.07	0.11	0.07	0.05	0.10
2017-01-26	0.06	0.09	0.06	0.04	0.08
2017-01-25	0.10	0.16	0.10	0.06	0.14
2017-01-24	0.13	0.20	0.12	0.08	0.17
2017-01-23	0.08	0.12	0.08	0.05	0.10
2017-01-22	0.09	0.14	0.09	0.06	0.13
2017-01-21	0.04	0.05	0.04	0.03	0.05
2017-01-20	0.13	0.20	0.12	0.08	0.17
2017-01-19	0.05	0.06	0.04	0.03	0.06
2017-01-18	0.03	0.03	0.02	0.02	0.03
2017-01-17	0.03	0.04	0.03	0.02	0.04
2017-01-16	0.04	0.06	0.04	0.03	0.05
2017-01-15	0.03	0.04	0.03	0.02	0.04
2017-01-14	0.01	0.01	0.01	0.01	0.02
2017-01-13	0.03	0.04	0.02	0.02	0.03
2017-01-12	0.11	0.17	0.10	0.07	0.14
2017-01-11	0.10	0.16	0.10	0.06	0.14
2017-01-10	0.12	0.18	0.11	0.07	0.16
2017-01-09	0.09	0.13	0.08	0.05	0.12
2017-01-08	0.06	0.09	0.05	0.04	0.08
2017-01-07	0.03	0.05	0.03	0.02	0.04
2017-01-06	0.02	0.03	0.02	0.01	0.03
2017-01-05	0.04	0.06	0.03	0.02	0.05
2017-01-04	0.04	0.07	0.04	0.03	0.06
2017-01-03	0.04	0.06	0.04	0.02	0.05
2017-01-02	0.06	0.08	0.05	0.04	0.07
2017-01-01	0.02	0.03	0.02	0.01	0.03
2016-12-31	0.10	0.16	0.09	0.06	0.13
2016-12-30	0.11	0.17	0.10	0.07	0.15
2016-12-29	0.13	0.21	0.12	0.08	0.20
2016-12-28	0.12	0.19	0.11	0.08	0.16
2016-12-27	0.08	0.13	0.07	0.05	0.11

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2016-12-26	0.09	0.14	0.08	0.05	0.11
2016-12-25	0.06	0.09	0.05	0.04	0.08
2016-12-24	0.03	0.04	0.03	0.02	0.03
2016-12-23	0.02	0.03	0.02	0.01	0.03
2016-12-22	0.07	0.11	0.06	0.04	0.09
2016-12-21	0.09	0.14	0.08	0.05	0.12
2016-12-20	0.06	0.10	0.06	0.04	0.08
2016-12-19	0.04	0.05	0.03	0.02	0.05
2016-12-18	0.03	0.05	0.03	0.02	0.04
2016-12-17	0.06	0.09	0.05	0.04	0.08
2016-12-16	0.04	0.05	0.03	0.02	0.05
2016-12-15	0.05	0.07	0.04	0.03	0.06
2016-12-14	0.04	0.06	0.04	0.03	0.05
2016-12-13	0.04	0.05	0.03	0.02	0.05
2016-12-12	0.04	0.06	0.04	0.03	0.06
2016-12-11	0.10	0.15	0.09	0.06	0.13
2016-12-10	0.07	0.11	0.07	0.04	0.10
2016-12-09	0.04	0.06	0.04	0.02	0.05
2016-12-08	0.06	0.09	0.06	0.04	0.08
2016-12-07	0.06	0.09	0.05	0.03	0.07
2016-12-06	0.04	0.05	0.04	0.02	0.05
2016-12-05	0.02	0.02	0.02	0.01	0.03
2016-12-04	0.02	0.02	0.02	0.01	0.02
2016-12-03	0.02	0.03	0.02	0.01	0.03
2016-12-02	0.06	0.08	0.05	0.03	0.07
2016-12-01	0.08	0.12	0.07	0.05	0.10
2016-11-30	0.08	0.13	0.08	0.05	0.11
2016-11-29	0.10	0.16	0.10	0.06	0.14
2016-11-28	0.09	0.14	0.08	0.06	0.12
2016-11-27	0.04	0.06	0.04	0.03	0.06
2016-11-26	0.04	0.05	0.04	0.02	0.05
2016-11-25	0.07	0.10	0.06	0.04	0.09
2016-11-24	0.06	0.09	0.06	0.04	0.07
2016-11-23	0.06	0.09	0.06	0.04	0.08
2016-11-22	0.04	0.06	0.04	0.03	0.05
2016-11-21	0.10	0.15	0.09	0.06	0.13
2016-11-20	0.08	0.12	0.08	0.05	0.11
2016-11-19	0.06	0.09	0.06	0.04	0.08
2016-11-18	0.15	0.24	0.14	0.09	0.22
2016-11-17	0.12	0.18	0.12	0.08	0.17
2016-11-16	0.11	0.16	0.10	0.07	0.13
2016-11-15	0.08	0.10	0.07	0.05	0.09
2016-11-14	0.08	0.11	0.08	0.05	0.10
2016-11-13	0.07	0.10	0.07	0.05	0.09
2016-11-12	0.09	0.12	0.08	0.05	0.11
2016-11-11	0.09	0.12	0.08	0.05	0.10
2016-11-10	0.06	0.08	0.06	0.04	0.08
2016-11-09	0.08	0.11	0.07	0.05	0.10
2016-11-08	0.03	0.04	0.03	0.02	0.04
2016-11-07	0.03	0.03	0.02	0.02	0.03



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2016-11-06	0.08	0.11	0.07	0.05	0.10
2016-11-05	0.08	0.10	0.07	0.05	0.10
2016-11-04	0.05	0.06	0.05	0.03	0.06
2016-11-03	0.05	0.06	0.05	0.03	0.06
2016-11-02	0.11	0.15	0.10	0.07	0.14
2016-11-01	0.10	0.13	0.09	0.06	0.13
2016-10-31	0.13	0.18	0.12	0.08	0.16
2016-10-30	0.11	0.13	0.10	0.07	0.13
2016-10-29	0.13	0.19	0.12	0.08	0.17
2016-10-28	0.13	0.18	0.12	0.08	0.16
2016-10-27	0.11	0.13	0.10	0.07	0.13
2016-10-26	0.11	0.14	0.10	0.07	0.13
2016-10-25	0.09	0.12	0.09	0.06	0.11
2016-10-24	0.12	0.15	0.11	0.07	0.14
2016-10-23	0.11	0.15	0.10	0.07	0.13
2016-10-22	0.12	0.16	0.11	0.07	0.15
2016-10-21	0.10	0.14	0.10	0.07	0.13
2016-10-20	0.12	0.17	0.11	0.08	0.17
2016-10-19	0.13	0.16	0.12	0.08	0.16
2016-10-18	0.14	0.18	0.13	0.08	0.17
2016-10-17	0.19	0.27	0.17	0.12	0.26
2016-10-16	0.16	0.22	0.15	0.10	0.21
2016-10-15	0.14	0.19	0.13	0.09	0.18
2016-10-14	0.09	0.11	0.09	0.06	0.11
2016-10-13	0.06	0.08	0.06	0.04	0.07
2016-10-12	0.15	0.20	0.14	0.09	0.19
2016-10-11	0.16	0.21	0.14	0.10	0.20
2016-10-10	0.13	0.17	0.12	0.08	0.16
2016-10-09	0.10	0.12	0.09	0.06	0.12
2016-10-08	0.14	0.20	0.13	0.09	0.19
2016-10-07	0.11	0.16	0.11	0.07	0.15
2016-10-06	0.14	0.19	0.13	0.09	0.18
2016-10-05	0.18	0.25	0.17	0.11	0.24
2016-10-04	0.15	0.21	0.14	0.09	0.20
2016-10-03	0.16	0.20	0.15	0.10	0.20
2016-10-02	0.14	0.16	0.13	0.08	0.16
2016-10-01	0.11	0.13	0.11	0.07	0.14
2016-09-30	0.14	0.17	0.13	0.09	0.17
2016-09-29	0.16	0.22	0.15	0.10	0.22
2016-09-28	0.19	0.26	0.18	0.12	0.25
2016-09-27	0.15	0.19	0.14	0.09	0.19
2016-09-26	0.17	0.24	0.16	0.11	0.24
2016-09-25	0.04	0.05	0.04	0.02	0.05
2016-09-24	0.18	0.24	0.17	0.11	0.23
2016-09-23	0.18	0.23	0.17	0.11	0.23
2016-09-22	0.17	0.21	0.16	0.11	0.21
2016-09-21	0.17	0.20	0.16	0.10	0.21
2016-09-20	0.18	0.21	0.16	0.11	0.21
2016-09-19	0.18	0.22	0.17	0.11	0.22

Handwritten signature or stamp, possibly reading "L. J. V. M. J. J."

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Handwritten signature or stamp, possibly reading "L. J. V. M. J. J."

Mill Creek Water Levels Fourth Quarter 2016

