Robin L. Simmons
Land Manager

March 31, 2016

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 2015

Dear Mr. Wilkins:

Attached please find the Q4 and Annual 2015 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. Above average rainfall during the 2nd quarter required us to estimate total water stored within the quarry.

Please call if you have any questions or comments.

Sincerely,

Robin L. Simmons

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Robin L. Simmons, EIT
Land Manager

North Texas/Oklahoma District
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www.martinmarietta.com

ATTACHMENT 1 (Appendix C)

Martin Marietta (TXI) Mill Creek 2015

ıdix C . Consumptive use of Pitwater		Q1 2015	Q2 2015	Q3 2015	Q4 2015	2015 Total
PIT GROUNDWATER VOLUME						
Total volume pumped from producing mine pit(s) (AC-FT)		351.03	624.73	673.52	746.24	2395.52
Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)		70.49	453.10	89.84	236.67	850.10
Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)		32.40	280.69	42.57	299.37	655.03
other non pit waters pumped from the producing mining pit (AC-FT)						0.00
add lines 2 through 4		102.89	733.79	132.41	536.04	1505.13
Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)		**248.14**	340.94	291.11	90.20	**970.39**
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
Vol. of pit groundwater that is carried away with the the mined material transp. off of the mine site (AC-FT)		2.43	0.00	2.57	0.88	5.87
Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)		0.92	5.52	10.76	6.14	23.34
Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)		6.25	4.30	12.10	1.34	23.99
DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)		**9.59**	**9.81**	**25.43**	**8.36**	**53.20**
Lines 6 minus 11		238.55	331.12	265.68	81.84	917.19
Groundwater Augmentation Volume of pit groundwater returned to GW Basin or subbasin. (Troy Recharge AC-FT)	Credits	22.42	0.00	58.40	26.03	84.43
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)	Credits	0.00	26.50	0.00	0.00	26.50
PPT and Runoff Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)	Credits	85.59	596.76	87.84	234.44	1004.63
Recycled Pit Groundwater - Volume of ground water returned to the mine pit or holding basin (AC-FT)		198.57	0.00	166.76	48.10	413.42
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)		8.27	0.00	0.00	-3.56	4.72
add lines 13 through 17		314.86	623.26	313.00	305.01	1556.13
OTHER CONSUMPTIVE USE Line 12 minus Line 18		-76.31	-292.14	-47.32	-223.17	-638.93
REPORTED CONSUMPTIVE USE (AC-FT)						
TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19		-66.71	-282.32	-21.89	-214.81	-585.74

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RESULTS FROM RUNOFF MODELLING

2015	PPT.	Quarry Monthly Totals				FW Pond Monthly Totals		Re-cycle Recharge (Troy) 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
	Inches	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
January	5.70	0.162	56.965	31.328	88.45	10.36	35.05	19.32	51.77	29.84	175.12
February	1.16	0.033	5.630	0.488	6.15	2.11	0.03	3.93	0.48	6.07	6.63
March	2.78	0.079	7.619	0.580	8.28	5.05	0.09	9.42	0.67	14.56	8.96
Q1 Subtotal	**9.64**	**0.27**	**70.21**	**32.40**	**102.88**	**17.53**	**35.16**	**32.67**	**52.93**	**50.47**	**190.70**
April	4.67	0.132	32.516	10.092	42.74	8.49	6.45	15.83	14.91	24.45	63.97
PRECIPITATION IN MAY 2015 REQUIRED CHANGE IN LAND USE DESIGNATION											
SEE CHART FOR 2015-04 to 2015-12 FOR REMAINING DATA											
ANNUAL TOTALS	**9.64**	**0.27**	**70.21**	**32.40**	**102.88**	**17.53**	**35.16**	**32.67**	**52.93**	**50.47**	**190.70**

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RESULTS FROM RUNOFF MODELLING

2015	PPT.	Quarry Monthly Totals				FW Pond Monthly Totals		Re-cycle Recharge (Troy) 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
	Inches	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
SEE SHEET 2015-01 to 2015-04 for Q1 and APRIL DATA											
CHANGE IN QUARRY SUMP REQUIRED CHANGE IN LAND USE CLASSIFICATION IN MAY.											
May	23.57	62.853	248.095	195.188	506.14	42.86	218.68	79.88	285.57	185.59	947.53
June	9.82	26.187	95.803	75.411	197.40	17.86	92.18	33.28	111.42	77.32	374.82
Q2 Subtotal	**33.39**	**89.04**	**343.90**	**270.60**	**703.54**	**60.71**	**310.86**	**113.16**	**396.99**	**262.92**	**1322.35**
July	6.29	16.77	61.54	41.47	119.78	11.44	43.78	21.32	59.65	49.53	206.44
August	0.13	0.35	0.00	0.00	0.35	0.24	0.00	0.44	0.00	1.02	0.00
September	1.53	4.08	7.10	1.10	12.29	2.78	0.20	5.19	1.24	12.05	9.64
Q3 Subtotal	**7.95**	**21.20**	**68.64**	**42.57**	**132.41**	**14.46**	**43.98**	**26.94**	**60.89**	**62.60**	**216.08**
October	7.18	19.15	67.42	105.48	192.05	13.06	32.77	24.33	53.04	56.54	258.71
November	7.34	19.57	63.18	105.10	187.85	13.35	42.83	24.88	60.32	57.80	271.42
December	5.63	15.01	52.34	88.79	156.14	10.24	38.86	19.08	52.79	44.33	232.78
Q4 Subtotal	**20.15**	**53.73**	**182.94**	**299.38**	**536.05**	**36.64**	**114.46**	**68.29**	**166.15**	**158.66**	**762.91**
ANNUAL TOTALS	**61.49**	**163.97**	**595.47**	**612.55**	**1371.99**	**111.81**	**469.30**	**208.40**	**624.02**	**484.18**	**2301.34**

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2015

Water Volume Movements		January	February	March	April	May	June	July	August	September	October	November	December
Pumped from Pit	(Ac-Ft)	104.9	110.2	135.9	177.7	266.3	180.7	332.0	73.6	267.9	270.9	237.2	238.1
Groundwater Component of Pitwater		16.5	104.0	127.7	134.9	117.8	88.2	112.2	23.3	155.6	28.9	29.3	32.0
Quarry dust suppression		1.1	4.4	1.4	1.2	0.2	12.7	13.9	6.5	6.1	7.1	2.1	1.6
Q- freshwater pond	(Ac-Ft)	103.9	105.7	134.5	0.0	0.0	0.0	318.1	67.1	261.8	263.8	235.0	236.5
To Secondary FM7	(Ac-Ft)	265.4	236.6	332.6	346.1	216.0	382.0	405.0	462.7	453.2	519.2	439.7	392.5
To sand Plant FM8	(Ac-Ft)	72.4	60.8	81.6	95.1	75.5	112.3	120.3	133.8	127.0	136.9	115.4	88.4
to loadout FM6	(Ac-Ft)	401.7	305.3	382.9	389.4	252.8	371.3	335.4	363.6	338.4	348.3	321.6	316.8
to dust control FM9	(Ac-Ft)	4.9	1.6	1.1	1.7	1.1	8.1	12.4	6.7	4.1	2.2	1.1	0.6
to Plant FM7+FM8+FM6	(Ac-Ft)	739.5	602.6	797.2	830.6	544.3	865.6	860.7	960.1	918.7	1004.3	876.6	797.6
to stream Augmentation	Ac-ft	0.00	0.00	0.00	176.50	266.19	168.03	0.00	0.00	0.00	0.00	0.00	0.00
To Troy FM3	(Ac-Ft)	721.4	562.7	788.9	824.8	552.0	894.1	873.6	979.7	935.6	1047.6	915.9	843.5
From Troy to Freshwater Pond FM4	(Ac-Ft)	635.8	481.7	773.2	833.1	339.4	818.0	713.1	711.0	679.0	755.8	581.5	577.5

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Quarter Summary	3rd QTR
Total Tons Shipped	1,470,000
Total Acre Feet	32.43
Average Moisture %	3.00%

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#
# 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
# retrieved: 2016-03-31 15:22:15 EDT       (caww02)
#
# 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:
#     A  Approved for publication -- Processing and review completed.
#
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5s      15s     20d     14n     10s
USGS    07331200        2015-10-01      3.2     A
USGS    07331200        2015-10-02      3.3     A
USGS    07331200        2015-10-03      3.1     A
USGS    07331200        2015-10-04      3.1     A
USGS    07331200        2015-10-05      3.2     A
USGS    07331200        2015-10-06      3.1     A
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USGS    07331200        2015-10-08      2.8     A
USGS    07331200        2015-10-09      2.8     A
USGS    07331200        2015-10-10      2.9     A
USGS    07331200        2015-10-11      2.8     A
USGS    07331200        2015-10-12      2.5     A
USGS    07331200        2015-10-13      4.3     A
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USGS    07331200        2015-10-15      5.6     A
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USGS    07331200        2015-10-17      7.9     A
USGS    07331200        2015-10-18      2.8     A
USGS    07331200        2015-10-19      4.9     A
USGS    07331200        2015-10-20      8.2     A
USGS    07331200        2015-10-21      5.4     A
USGS    07331200        2015-10-22      5.5     A
USGS    07331200        2015-10-23      5.5     A
USGS    07331200        2015-10-24      61      A
USGS    07331200        2015-10-25      6.8     A
USGS    07331200        2015-10-26      3.7     A
USGS    07331200        2015-10-27      3.2     A
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USGS    07331200        2015-10-29      3.1     A
USGS    07331200        2015-10-30      175     A
USGS    07331200        2015-10-31      195     A
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# Automated-retrieval info: http://help.waterdata.usgs.gov/faq/automated-retrievals
#
# Contact:   gs-w_support_nwisweb@usgs.gov
# retrieved: 2016-03-31 15:22:58 EDT       (sdww02)
#
# 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:
#     A  Approved for publication -- Processing and review completed.
#
agency_cd       site_no datetime        02_00060_00003  02_00060_00003_cd
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USGS    07331200        2015-11-01      30      A
USGS    07331200        2015-11-02      12      A
USGS    07331200        2015-11-03      7.9     A
USGS    07331200        2015-11-04      6.6     A
USGS    07331200        2015-11-05      7.8     A
USGS    07331200        2015-11-06      21      A
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USGS    07331200        2015-11-08      5.7     A
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USGS    07331200        2015-11-20      8.5     A
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USGS    07331200        2015-11-23      6.2     A
USGS    07331200        2015-11-24      6.7     A
USGS    07331200        2015-11-25      7.1     A
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USGS    07331200        2015-11-28      741     A
USGS    07331200        2015-11-29      356     A
USGS    07331200        2015-11-30      271     A
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# Automated-retrieval info: http://help.waterdata.usgs.gov/faq/automated-retrievals
#
# Contact:   gs-w_support_nwisweb@usgs.gov
# retrieved: 2016-03-31 15:23:25 EDT       (sdww02)
#
# 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:
#     A  Approved for publication -- Processing and review completed.
#     e  Value has been estimated.
#
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USGS    07331200        2015-12-02      157     A
USGS    07331200        2015-12-03      133     A
USGS    07331200        2015-12-04      119     A
USGS    07331200        2015-12-05      101     A
USGS    07331200        2015-12-06      89      A
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USGS    07331200        2015-12-08      65      A
USGS    07331200        2015-12-09      52      A
USGS    07331200        2015-12-10      47      A
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USGS    07331200        2015-12-15      38      A
USGS    07331200        2015-12-16      30      A
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USGS    07331200        2015-12-18      23      A
USGS    07331200        2015-12-19      21      A:e
USGS    07331200        2015-12-20      20      A
USGS    07331200        2015-12-21      19      A
USGS    07331200        2015-12-22      22      A
USGS    07331200        2015-12-23      23      A
USGS    07331200        2015-12-24      21      A
USGS    07331200        2015-12-25      20      A:e
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USGS    07331200        2015-12-28      1640    A
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USGS    07331200        2015-12-30      254     A
USGS    07331200        2015-12-31      229     A
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Date	Daily Rainf Total	Daily Evaporation
10/1/2015	0.04	0.045
10/2/2015	0	0.014
10/3/2015	0	0.005
10/4/2015	0	0.064
10/5/2015	0	0.064
10/6/2015	0	0.067
10/7/2015	0	0.095
10/8/2015	0	0.096
10/9/2015	0.01	0.048
10/10/2015	0	0.084
10/11/2015	0	0.145
10/12/2015	0	0.189
10/13/2015	0	0.164
10/14/2015	0	0.214
10/15/2015	0	0.214
10/16/2015	0	0.142
10/17/2015	0	0.119
10/18/2015	0	0.126
10/19/2015	0	0.125
10/20/2015	0	0.155
10/21/2015	0	0.089
10/22/2015	3.27	0.408
10/23/2015	0.21	0.103
10/24/2015	0.39	0.119
10/25/2015	0	0.05
10/26/2015	0	0.071
10/27/2015	0	0.076
10/28/2015	0	0.094
10/29/2015	0	0.105
10/30/2015	3.25	0.858
10/31/2015	0.01	0.112
11/1/2015	0	0.057
Date	Daily Rainf Total	Daily Evaporation
	7.18	4.26

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Date	Daily Rainfall Total	Total Daily Evaporation
11/1/2015	0	0.052
11/2/2015	0	0.107
11/3/2015	0	0.06
11/4/2015	0	0.037
11/5/2015	0.37	0.042
11/6/2015	0	0.068
11/7/2015	0.04	0.129
11/8/2015	0	0.787
11/9/2015	0	0.472
11/10/2015	0	0.547
11/11/2015	0	0.36
11/12/2015	0	0.818
11/13/2015	0	0.436
11/14/2015	0	0.224
11/15/2015	0.27	0.769
11/16/2015	0.44	0.934
11/17/2015	0.91	0.901
11/18/2015	0	0.47
11/19/2015	0	0.419
11/20/2015	0	0.18
11/21/2015	0	0.054
11/22/2015	0	0.019
11/23/2015	0	0.008
11/24/2015	0	0
11/25/2015	0.01	0.01
11/26/2015	1.45	0.492
11/27/2015	2.26	1.748
11/28/2015	1.01	0.79
11/29/2015	0.53	0.53
11/30/2015	0.05	0.051
12/1/2015	0	0.001
Date	Daily Rainfall Total	Total Daily Evaporation
	7.34	11.514

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Date	Daily Rainfall Total	Total Daily Evaporation
12/1/2015	0	0.001
12/2/2015	0	0.002
12/3/2015	0	0.001
12/4/2015	0	0.688
12/5/2015	0	0.172
12/6/2015	0	0.665
12/7/2015	0	0.337
12/8/2015	0	0.192
12/9/2015	0	0.182
12/10/2015	0	0.235
12/11/2015	0	0.295
12/12/2015	0	0.206
12/13/2015	0.59	0.719
12/14/2015	0	0.14
12/15/2015	0	0.29
12/16/2015	0	0.057
12/17/2015	0	0.148
12/18/2015	0	0.023
12/19/2015	0	0.002
12/20/2015	0	0.003
12/21/2015	0	0.003
12/22/2015	0	0.001
12/23/2015	0	0.002
12/24/2015	0	0.003
12/25/2015	0	0.001
12/26/2015	1.54	0.53
12/27/2015	2.01	1.11
12/28/2015	1.35	1.06
12/29/2015	0.14	0.14
12/30/2015	0	0
12/31/2015	0	0
	5.63	7.208

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

October 2015
Nearest City: 6.0 N Tishomingo
Longitude: 96-40-44

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

DAY	TEMPERATURE (F) MAX	MIN	AVG	DEWPT	DEG DAYS HDD	CDD	HUMIDITY (%) MAX	MIN	AVG	RAIN (in)	PRESSURE (in) STN	MSL	WIND SPEED (mph) DIR	AVG	MAX	SOLAR (MJ/m2)	4" SOIL TEMPERATURES SOD	BARE	MAX	MIN
1	70	59	62.6	59.4	1	0	99	63	90	0.19	29.17	30.11	NNE	7.2	20.0	6.15	NA	72.5	77	67
2	74	50	60.3	45.7	3	0	87	31	62	0.00	29.13	30.07	NNE	8.8	22.8	20.52	NA	68.8	78	62
3	74	48	60.3	48.9	4	0	94	43	68	0.00	29.02	29.96	NNE	6.9	17.0	18.43	NA	69.3	78	62
4	76	49	61.6	51.3	2	0	97	44	71	0.00	29.09	30.03	NNE	6.4	22.5	19.21	NA	70.6	80	63
5	72	54	61.1	54.2	2	0	98	55	79	0.00	29.16	30.11	NNE	7.2	16.5	11.12	NA	70.0	76	66
6	80	54	63.5	57.1	0	2	100	44	83	0.00	29.18	30.12	NNE	5.3	13.8	16.33	NA	71.8	81	66
7	85	58	70.7	59.0	0	6	98	37	70	0.00	29.14	30.08	NNE	5.4	13.9	16.38	NA	74.6	83	67
8	87	58	71.8	60.3	0	8	99	37	71	0.00	29.12	30.06	NE	3.9	12.7	16.26	NA	76.5	85	70
9	75	52	64.1	59.5	1	0	99	60	86	0.00	29.22	30.17	N	7.9	34.3	5.62	NA	72.3	75	68
10	81	47	62.9	49.4	1	0	100	25	69	0.01	29.21	30.15	NNW	3.5	12.9	18.90	NA	71.2	82	63
11	91	52	72.4	55.6	0	6	94	32	60	0.00	28.93	29.87	S	8.2	27.1	18.57	NA	74.3	83	66
12	87	57	74.1	52.8	0	7	84	16	52	0.00	28.87	29.81	S	8.9	30.6	18.25	NA	76.7	84	71
13	89	51	66.8	36.4	0	5	82	11	41	0.00	29.05	29.99	NW	4.2	14.6	19.52	NA	73.6	84	65
14	94	48	68.7	41.5	0	6	89	11	49	0.00	29.08	30.02	WSW	4.8	19.1	19.25	NA	73.9	84	66
15	94	50	70.9	45.7	0	7	90	14	50	0.00	29.09	30.03	SSW	6.4	24.6	18.52	NA	74.3	84	67
16	73	55	63.8	42.3	1	0	68	28	47	0.00	29.34	30.29	NNE	12.6	27.6	10.45	NA	71.7	75	68
17	74	51	61.2	35.8	3	0	63	22	41	0.00	29.38	30.33	ESE	6.1	16.4	14.75	NA	69.4	76	64
18	76	42	60.4	32.1	6	0	81	15	38	0.00	29.38	30.33	ESE	5.8	20.6	18.15	NA	68.5	77	62
19	79*	48*	63.3*	36.2*	1*	0*	64*	20*	39*	0.00*	29.25*	30.20*	SSE*	7.7*	23.2*	NA	NA	68.4*	76*	62*
20	81	47	65.9	47.5	1	0	77	34	53	0.00	29.15	30.10	SSE	7.2	22.2	17.61	NA	69.8	78	63
21	84	59	71.8	60.8	0	6	93	44	70	0.00	29.18	30.13	SSE	6.9	20.2	15.22	NA	73.4	81	68
22	79	61	66.4	61.5	0	5	100	55	86	5.45	29.08	30.02	E	8.7	24.2	6.49	NA	70.6	75	68
23	74	65	68.1	66.8	0	4	100	78	96	0.31	28.99	29.93	SE	6.5	22.5	6.19	NA	69.8	72	68
24	66	57	60.4	55.0	3	0	100	69	83	0.47	29.13	30.08	NNE	10.7	25.7	3.24	NA	65.8	69	61
25	66	53	58.4	48.3	5	0	86	52	70	0.00	29.20	30.14	NNE	12.2	31.1	11.33	NA	61.0	64	59
26	73	49	60.1	49.3	4	0	86	49	69	0.00	29.08	30.03	NNE	7.9	17.7	12.86	NA	60.2	66	55
27	76	52	62.3	54.7	1	0	99	46	79	0.00	28.87	29.81	N	3.7	13.7	14.56	NA	64.1	71	59
28	71	49	59.3	51.1	5	0	100	47	77	0.00	28.88	29.81	NW	8.4	34.5	15.56	NA	62.1	68	59
29	72	43	57.5	46.9	8	0	100	40	71	0.01	28.99	29.93	NE	5.2	17.2	16.59	NA	60.5	68	55
30	62	53	56.5	53.8	8	0	100	64	91	2.91	28.88	29.82	E	8.8	28.0	1.35	NA	58.4	60	57
31	63	50	59.4	57.9	8	0	100	86	95	0.01	28.87	29.80	NNW	5.8	16.7	3.86	NA	61.7	64	59
	77*	52*	64.1*	50.9*	<- Monthly Averages ->						29.10*	30.04*	NNE*	7.1*	34.5*	13.71*	NA	69.2*	76*	64*

Temperature - Highest: 94*
Lowest: 42*

Degree Days - Total HDD: 69*
Total CDD: 64*

Rainfall: Monthly Total: 9.36* in.
Greatest 24 Hr: 5.45* in.

Humidity - Highest: 100*
Lowest: 11*

Number of Days With:
Tmax ≥ 90: 3*
Tmax ≤ 32: 0*
Tmin ≤ 32: 0*
Tmin ≤ 0: 0*
Rainfall ≥ 0.01 inch: 8*
Rainfall ≥ 0.10 inch: 5*
Avg Wind Speed ≥ 10 mph: 3*
Max Wind Speed ≥ 30 mph: 4*

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* Denotes incomplete record

Monthly data generated on Monday, December 21, 2015 at 13:04 CST

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

November 2015
Nearest City: 6.0 N Tishomingo
Longitude: 96-40-44

Midnight-Midnight CST
County: Johnston
Elevation: 879 feet

DAY	TEMPERATURE (F) MAX	MIN	AVG	DEWPT	DEG DAYS HDD	CDD	HUMIDITY (%) MAX	MIN	AVG	RAIN (in)	PRESSURE (in) STN	MSL	WIND SPEED (mph) DIR	AVG	MAX	SOLAR (MJ/m2)	4" SOIL TEMPERATURES SOD	BARE	MAX	MIN
1	63	47	56.0	53.4	10	0	100	75	92	0.00	29.03	29.97	NNW	3.9	12.7	7.27	NA	59.4	63	56
2	70	55	61.1	57.5	3	0	100	61	89	0.00	29.03	29.97	SSE	4.7	14.5	12.39	NA	63.0	69	60
3	71	58	62.1	59.5	1	0	100	67	92	0.00	29.08	30.02	SSE	8.3	19.3	7.12	NA	62.7	66	61
4	70	61	64.6	60.0	0	0	97	69	86	0.00	29.09	30.03	SSE	9.8	19.4	4.07	NA	63.2	65	62
5	72	55	66.4	64.8	1	0	100	58	95	0.85	28.98	29.92	SSE	8.8	45.7	2.08	NA	65.5	68	64
6	68	49	56.8	46.5	6	0	88	40	70	0.00	29.16	30.11	NNE	7.5	17.1	12.94	NA	61.1	65	57
7	67	45	55.7	42.3	9	0	87	28	64	0.04	29.33	30.28	NE	9.8	26.8	14.72	NA	58.2	63	54
8	64	42	52.0	38.9	12	0	88	33	64	0.00	29.32	30.27	NNE	5.5	18.5	15.25	NA	55.4	62	50
9	65	43	53.2	38.4	11	0	89	29	60	0.00	29.18	30.13	SE	5.2	14.8	13.77	NA	55.0	61	50
10	74	45	60.9	54.5	6	0	97	60	80	0.00	29.03	29.97	SSE	10.1	26.2	11.85	NA	57.1	63	51
11	75*	50*	66.7*	47.7*	2*	0*	92*	14*	58*	0.00*	28.89*	29.82*	S *	15.3*	39.4*	NA	NA	62.1*	66*	55*
12	66	40	51.9	32.1	12	0	82	20	51	0.00	29.26	30.20	N	7.1	21.6	15.24	NA	54.0	60	49
13	67	34	49.3	32.3	14	0	95	20	60	0.00	29.35	30.30	SSE	4.1	14.6	15.11	NA	52.3	60	46
14	66	36	50.7	37.2	14	0	99	27	65	0.00	29.36	30.31	SSE	5.6	21.1	10.27	NA	51.3	56	47
15	59	50	53.4	47.5	11	0	99	62	81	0.37	29.23	30.18	SE	7.7	19.7	2.79	NA	53.8	55	53
16	69	50	59.1	58.9	5	0	100	98	99	0.25	28.88	29.82	SE	11.8	29.0	1.20	NA	56.5	61	54
17	70	47	58.1	49.1	7	0	100	44	74	0.92	28.60	29.53	S	13.5	35.4	10.19	NA	60.7	63	54
18	67	40	50.8	35.8	12	0	97	28	60	0.00	28.79	29.73	WSW	10.3	30.9	14.20	NA	52.6	58	48
19	64	38	51.2	38.6	14	0	100	33	65	0.00	29.18	30.12	NE	10.4	29.3	13.91	NA	51.5	57	48
20	68	45	55.1	45.9	9	0	89	49	72	0.00	29.09	30.03	SSE	9.2	27.4	11.51	NA	52.2	58	48
21	58	27	43.2	30.8	22	0	91	35	64	0.00	29.30	30.25	N	14.5	40.4	13.29	NA	50.2	54	43
22	55	22	37.4	26.5	26	0	98	31	70	0.00	29.30	30.25	SSW	4.7	18.2	14.05	NA	44.5	51	40
23	62	26	44.2	31.2	21	0	100	28	66	0.00	29.27	30.22	SSE	5.1	17.0	13.14	NA	45.5	52	39
24	63	39	52.5	42.4	14	0	88	51	69	0.00	29.15	30.09	SSE	11.2	29.7	8.03	NA	48.3	52	43
25	67	56	61.0	57.2	3	0	100	76	88	0.01	29.09	30.03	SSE	12.6	25.1	1.50	NA	55.3	58	52
26	69	47	64.7	62.7	7	0	100	82	93	1.61	29.16	30.10	SSE	13.3	30.9	1.72	NA	60.0	62	58
27	47	34	37.6	37.0	25	0	99	95	97	3.64	29.27	30.22	N	15.4	28.3	0.90	NA	51.8	61	46
28	39	34	35.9	35.4	29	0	100	95	98	1.34	29.28	30.23	N	11.5	22.2	2.38	NA	45.2	46	44
29	41	37	38.9	38.2	26	0	100	95	98	0.54	29.21	30.16	NNE	7.0	16.5	2.54	NA	45.6	47	44
30	46	36	42.4	40.5	24	0	100	82	93	0.05	29.09	30.03	NW	5.7	16.1	4.33	NA	47.8	51	46
	63*	43*	53.1*	44.8*	<- Monthly Averages ->						29.13*	30.08*	SSE*	9.0*	45.7*	8.89*	NA	54.7*	59*	51*

Temperature - Highest: 75*
Lowest: 22*

Degree Days - Total HDD: 355*
Total CDD: 0*

Rainfall: Monthly Total: 9.62* in.
Greatest 24 Hr: 3.64* in.

Humidity - Highest: 100*
Lowest: 14*

Number of Days With:
Tmax ≥ 90: 0*
Tmax ≤ 32: 0*
Tmin ≤ 32: 3*
Tmin ≤ 0: 0*
Rainfall ≥ 0.01 inch: 11*
Rainfall ≥ 0.10 inch: 8*
Avg Wind Speed ≥ 10 mph: 12*
Max Wind Speed ≥ 30 mph: 6*

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* Denotes incomplete record

Monthly data generated on Monday, December 7, 2015 at 12:01 GMT

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Oklahoma Water Resources Board

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

December 2015
Nearest City: 6.0 N Tishomingo
Longitude: 96-40-44

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

DAY	TEMPERATURE (F) MAX	MIN	AVG	DEWPT	DEG DAYS HDD	CDD	HUMIDITY (%) MAX	MIN	AVG	RAIN (in)	PRESSURE (in) STN	MSL	WIND SPEED (mph) DIR	AVG	MAX	SOLAR (MJ/m2)	4" SOIL TEMPERATURES SOD	BARE	MAX	MIN
1	53	31	38.9	34.3	23	0	100	55	86	0.00	29.08	30.03	NW	4.1	15.1	9.59	45.6	45.2	51	41
2	54	30	41.3	33.4	23	0	100	48	76	0.00	29.20	30.15	NW	7.9	22.8	12.82	44.4	44.0	50	39
3	62	30	43.8	34.3	19	0	99	33	74	0.00	29.38	30.33	SW	3.4	13.2	12.69	45.6	45.3	53	39
4	57	32	43.7	36.9	21	0	100	51	79	0.00	29.48	30.44	ESE	5.4	15.8	12.56	46.1	45.6	52	40
5	58	33	43.9	35.3	20	0	95	43	74	0.00	29.45	30.40	SE	6.7	19.5	12.35	45.5	44.7	50	39
6	64	33	46.9	36.3	16	0	100	33	71	0.00	29.42	30.37	NW	6.3	18.9	12.48	46.6	46.0	53	41
7	65	30	46.3	36.0	18	0	100	34	72	0.00	29.26	30.21	S	5.4	16.2	12.21	46.4	45.7	53	40
8	69	39	53.1	42.1	11	0	95	41	68	0.00	28.97	29.91	S	8.7	27.3	11.84	48.1	47.8	54	43
9	72	37	52.8	39.8	11	0	93	29	65	0.00	29.00	29.94	SSE	5.3	13.6	9.66	48.9	48.6	55	44
10	68	42	53.3	44.6	10	0	96	40	75	0.00	28.83	29.77	SSE	4.1	11.6	10.23	50.5	50.7	58	46
11	72	39	55.2	48.4	10	0	100	39	81	0.00	28.79	29.72	S	7.1	24.2	10.39	51.0	51.0	56	46
12	72	64	67.8	63.5	0	3	94	70	86	0.00	28.81	29.75	SSE	13.3	30.5	1.79	58.2	58.9	61	54
13	69	45	52.5	50.0	8	0	100	72	92	0.57	28.59	29.52	SW	12.2	32.2	1.97	57.0	57.2	62	51
14	62	42	49.7	36.5	13	0	82	32	62	0.00	28.73	29.66	WSW	9.7	36.9	12.48	51.0	50.5	56	46
15	67	42	52.9	43.1	11	0	97	45	72	0.00	28.77	29.70	SSW	7.8	24.6	11.74	50.8	50.2	57	45
16	52	32	42.1	24.9	23	0	81	31	52	0.00	28.97	29.91	NW	8.8	26.7	12.60	47.2	46.1	51	42
17	53	25	38.4	26.9	26	0	97	31	68	0.00	29.10	30.04	N	7.9	31.0	11.74	44.3	43.1	50	39
18	49	24	35.9	27.3	28	0	97	40	74	0.00	29.36	30.31	NNW	5.1	18.3	12.48	43.7	42.6	49	38
19	60	30	44.6	32.5	20	0	98	30	67	0.00	29.37	30.32	S	10.2	27.2	12.01	43.4	42.5	48	38
20	62	46	53.1	48.2	11	0	92	56	84	0.00	29.10	30.05	S	14.8	31.1	1.66	47.4	47.2	53	43
21	63	41	54.9	44.8	13	0	100	39	72	0.00	28.96	29.90	W	8.8	29.8	11.91	52.6	53.0	57	48
22	71	31	52.3	42.5	14	0	100	37	73	0.00	28.74	29.67	SSE	9.4	29.0	11.37	49.0	48.5	54	42
23	66	46	60.0	43.8	9	0	92	33	58	0.00	28.55	29.48	WSW	12.9	32.6	11.89	54.0	54.3	58	49
24	65	41	52.2	37.6	12	0	87	39	59	0.00	28.92	29.86	N	7.7	19.7	10.07	50.5	49.7	55	46
25	71	41	55.9	43.8	9	0	93	48	65	0.00	29.01	29.95	SE	8.6	20.5	10.76	50.5	50.0	56	43
26	72	45	61.1	60.1	7	0	100	87	97	2.81	28.84	29.77	SE	12.2	42.5	1.92	57.9	58.5	63	55
27	45	36	39.2	38.0	24	0	99	91	95	2.25	28.84	29.78	NNE	25.5	55.1	0.40	48.1	48.1	55	45
28	39	28	33.0	31.4	32	0	100	86	94	1.38	28.80	29.74	WNW	13.4	50.5	3.79	42.5	42.9	45	42
29	39	24	31.1	29.1	33	0	100	77	93	0.01	29.13	30.08	NNE	5.6	14.4	8.79	40.1	41.7	46	39
30	46	31	36.7	31.8	26	0	99	52	84	0.00	29.30	30.24	N	5.8	14.8	12.00	42.9	42.9	49	40
31	45	30	36.8	31.8	27	0	95	66	83	0.00	29.42	30.38	NNE	8.0	18.6	9.83	41.8	41.0	46	37
	60	36	47.4	39.0	<- Monthly Averages ->						29.04	29.98	S	8.8	55.1	9.61	48.1	47.8	53	43

Temperature - Highest: 72
Lowest: 24

Degree Days - Total HDD: 526
Total CDD: 3

Rainfall: Monthly Total: 7.02 in.
Greatest 24 Hr: 2.81 in.

Humidity - Highest: 100
Lowest: 29

Number of Days With:
Tmax ≥ 90: 0
Tmax ≤ 32: 0
Tmin ≤ 32: 14
Tmin ≤ 0: 0
Rainfall ≥ 0.01 inch: 5
Rainfall ≥ 0.10 inch: 4
Avg Wind Speed ≥ 10 mph: 8
Max Wind Speed ≥ 30 mph: 9

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* Denotes incomplete record

Monthly data generated on Tuesday, March 31, 2016 at 11:31 am

Date	Reference ET, Short (in)	Reference ET, Tall (in)	Cool Season Grass ET (in)	Warm Season Grass ET (in)	Pan Evaporation (in)
2016-02-29	0.15	0.21	0.14	0.09	0.20
2016-02-28	0.17	0.25	0.15	0.10	0.23
2016-02-27	0.14	0.19	0.13	0.08	0.18
2016-02-26	0.10	0.13	0.09	0.06	0.12
2016-02-25	0.11	0.16	0.10	0.07	0.15
2016-02-24	0.12	0.18	0.11	0.08	0.17
2016-02-23	0.04	0.06	0.04	0.03	0.06
2016-02-22	0.15	0.22	0.14	0.09	0.21
2016-02-21	0.10	0.15	0.10	0.06	0.14
2016-02-20	0.13	0.18	0.12	0.08	0.16
2016-02-19	0.12	0.17	0.11	0.08	0.16
2016-02-18	0.17	0.26	0.16	0.11	0.25
2016-02-17	0.11	0.15	0.10	0.07	0.14
2016-02-16	0.13	0.20	0.12	0.08	0.19
2016-02-15	0.11	0.16	0.10	0.07	0.14
2016-02-14	0.06	0.09	0.06	0.04	0.08
2016-02-13	0.11	0.16	0.10	0.07	0.15
2016-02-12	0.11	0.16	0.10	0.07	0.15
2016-02-11	0.12	0.18	0.11	0.08	0.17
2016-02-10	0.11	0.17	0.11	0.07	0.15
2016-02-09	0.11	0.16	0.10	0.07	0.15
2016-02-08	0.14	0.22	0.13	0.09	0.23
2016-02-07	0.09	0.12	0.08	0.05	0.11
2016-02-06	0.05	0.06	0.05	0.03	0.06
2016-02-05	0.07	0.11	0.07	0.05	0.10
2016-02-04	0.06	0.07	0.05	0.03	0.07
2016-02-03	0.07	0.10	0.06	0.04	0.09
2016-02-02	0.12	0.19	0.12	0.08	0.17
2016-02-01	0.09	0.13	0.09	0.06	0.12
2016-01-31	0.11	0.16	0.10	0.07	0.14
2016-01-30	0.12	0.18	0.11	0.07	0.16
2016-01-29	0.13	0.20	0.12	0.08	0.17
2016-01-28	0.07	0.10	0.07	0.04	0.09
2016-01-27	0.05	0.06	0.04	0.03	0.06
2016-01-26	0.07	0.10	0.06	0.04	0.09
2016-01-25	0.07	0.09	0.06	0.04	0.09
2016-01-24	0.08	0.11	0.07	0.05	0.10
2016-01-23	0.05	0.06	0.04	0.03	0.06
2016-01-22	0.06	0.09	0.06	0.04	0.09
2016-01-21	0.02	0.03	0.02	0.01	0.03
2016-01-20	0.02	0.03	0.02	0.01	0.03
2016-01-19	0.04	0.05	0.04	0.02	0.05
2016-01-18	0.04	0.06	0.04	0.03	0.05
2016-01-17	0.05	0.07	0.05	0.03	0.06
2016-01-16	0.04	0.05	0.03	0.02	0.04
2016-01-15	0.07	0.11	0.07	0.05	0.10
2016-01-14	0.07	0.10	0.07	0.04	0.09
2016-01-13	0.05	0.07	0.05	0.03	0.06
2016-01-12	0.04	0.06	0.04	0.03	0.05
2016-01-11	0.04	0.05	0.03	0.02	0.04
2016-01-10	0.03	0.05	0.03	0.02	0.04

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2016-01-09	0.02	0.03	0.02	0.01	0.03
2016-01-08	0.02	0.02	0.02	0.01	0.02
2016-01-07	0.03	0.04	0.03	0.02	0.04
2016-01-06	0.02	0.03	0.02	0.01	0.03
2016-01-05	0.04	0.05	0.03	0.02	0.04
2016-01-04	0.05	0.08	0.05	0.03	0.06
2016-01-03	0.06	0.08	0.05	0.03	0.07
2016-01-02	0.03	0.04	0.03	0.02	0.04
2016-01-01	0.04	0.06	0.04	0.03	0.05
2015-12-31	0.03	0.05	0.03	0.02	0.04
2015-12-30	0.03	0.04	0.03	0.02	0.04
2015-12-29	0.02	0.03	0.02	0.01	0.03
2015-12-28	0.02	0.03	0.02	0.01	0.03
2015-12-27	0.03	0.04	0.03	0.02	0.04
2015-12-26	0.02	0.03	0.02	0.01	0.03
2015-12-25	0.10	0.16	0.10	0.06	0.14
2015-12-24	0.09	0.14	0.08	0.06	0.12
2015-12-23	0.11	0.17	0.10	0.07	0.15
2015-12-22	0.10	0.15	0.09	0.06	0.13
2015-12-21	0.07	0.10	0.06	0.04	0.09
2015-12-20	0.06	0.10	0.06	0.04	0.09
2015-12-19	0.09	0.14	0.08	0.05	0.12
2015-12-18	0.04	0.06	0.04	0.03	0.05
2015-12-17	0.07	0.10	0.06	0.04	0.09
2015-12-16	0.08	0.12	0.07	0.05	0.11
2015-12-15	0.08	0.12	0.08	0.05	0.10
2015-12-14	0.10	0.15	0.09	0.06	0.13
2015-12-13	0.08	0.12	0.07	0.05	0.10
2015-12-12	0.06	0.08	0.05	0.03	0.08
2015-12-11	0.07	0.11	0.07	0.05	0.09
2015-12-10	0.06	0.08	0.05	0.04	0.07
2015-12-09	0.08	0.11	0.07	0.05	0.09
2015-12-08	0.09	0.14	0.09	0.06	0.12
2015-12-07	0.07	0.10	0.06	0.04	0.08
2015-12-06	0.08	0.11	0.07	0.05	0.09
2015-12-05	0.06	0.09	0.06	0.04	0.08
2015-12-04	0.05	0.07	0.05	0.03	0.06
2015-12-03	0.05	0.07	0.05	0.03	0.06
2015-12-02	0.06	0.08	0.05	0.04	0.07
2015-12-01	0.04	0.05	0.04	0.02	0.05
2015-11-30	0.02	0.02	0.02	0.01	0.03
2015-11-29	0.02	0.02	0.02	0.01	0.02
2015-11-28	0.01	0.02	0.01	0.01	0.02
2015-11-27	0.04	0.05	0.03	0.02	0.05
2015-11-26	-0.01	-0.02	-0.01	-0.00	-0.01
2015-11-25	0.05	0.07	0.05	0.03	0.06
2015-11-24	0.07	0.11	0.07	0.05	0.10
2015-11-23	0.06	0.08	0.05	0.04	0.07
2015-11-22	0.05	0.07	0.05	0.03	0.06
2015-11-21	0.10	0.16	0.09	0.06	0.14
2015-11-20	0.09	0.14	0.09	0.06	0.12

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2015-11-19	0.10	0.16	0.10	0.06	0.14
2015-11-18	0.12	0.19	0.11	0.08	0.16
2015-11-17	0.11	0.16	0.10	0.07	0.15
2015-11-16	0.03	0.04	0.03	0.02	0.04
2015-11-15	0.05	0.08	0.05	0.03	0.07
2015-11-14	0.08	0.12	0.08	0.05	0.10
2015-11-13	0.09	0.12	0.08	0.05	0.11
2015-11-12	0.11	0.17	0.10	0.07	0.15
2015-11-11	0.16	0.25	0.15	0.10	0.24
2015-11-10	0.09	0.12	0.08	0.05	0.11
2015-11-09	0.09	0.12	0.08	0.05	0.11
2015-11-08	0.09	0.12	0.08	0.05	0.11
2015-11-07	0.12	0.17	0.11	0.07	0.15
2015-11-06	0.10	0.15	0.09	0.06	0.13
2015-11-05	0.02	0.02	0.02	0.01	0.03
2015-11-04	0.06	0.09	0.06	0.04	0.08
2015-11-03	0.07	0.09	0.06	0.04	0.08
2015-11-02	0.07	0.09	0.07	0.04	0.09
2015-11-01	0.04	0.05	0.04	0.03	0.05
2015-10-31	0.02	0.02	0.02	0.02	0.03
2015-10-30	0.04	0.06	0.04	0.03	0.05
2015-10-29	0.10	0.13	0.09	0.06	0.12
2015-10-28	0.11	0.15	0.10	0.07	0.14
2015-10-27	0.09	0.11	0.08	0.06	0.11
2015-10-26	0.12	0.17	0.11	0.07	0.15
2015-10-25	0.12	0.17	0.11	0.07	0.16
2015-10-24	0.06	0.09	0.06	0.04	0.08
2015-10-23	0.05	0.06	0.05	0.03	0.07
2015-10-22	0.10	0.14	0.09	0.06	0.12
2015-10-21	0.14	0.19	0.13	0.09	0.18
2015-10-20	0.16	0.23	0.15	0.10	0.21
2015-10-19	0.18	0.27	0.17	0.11	0.26
2015-10-18	0.15	0.23	0.14	0.10	0.21
2015-10-17	0.15	0.22	0.14	0.09	0.21
2015-10-16	0.18	0.29	0.17	0.11	0.27
2015-10-15	0.20	0.30	0.19	0.13	0.27
2015-10-14	0.17	0.25	0.16	0.11	0.22
2015-10-13	0.16	0.23	0.15	0.10	0.22
2015-10-12	0.20	0.29	0.19	0.12	0.27
2015-10-11	0.20	0.28	0.18	0.12	0.26
2015-10-10	0.12	0.16	0.12	0.08	0.15
2015-10-09	0.07	0.09	0.06	0.04	0.09
2015-10-08	0.13	0.16	0.12	0.08	0.16
2015-10-07	0.14	0.19	0.13	0.09	0.18
2015-10-06	0.13	0.16	0.12	0.08	0.15
2015-10-05	0.11	0.14	0.10	0.07	0.13
2015-10-04	0.14	0.18	0.13	0.09	0.17
2015-10-03	0.14	0.18	0.13	0.08	0.17
2015-10-02	0.17	0.24	0.16	0.10	0.23
2015-10-01	0.06	0.08	0.06	0.04	0.08
2015-09-30	0.18	0.23	0.16	0.11	0.22
2015-09-29	0.17	0.22	0.16	0.10	0.21

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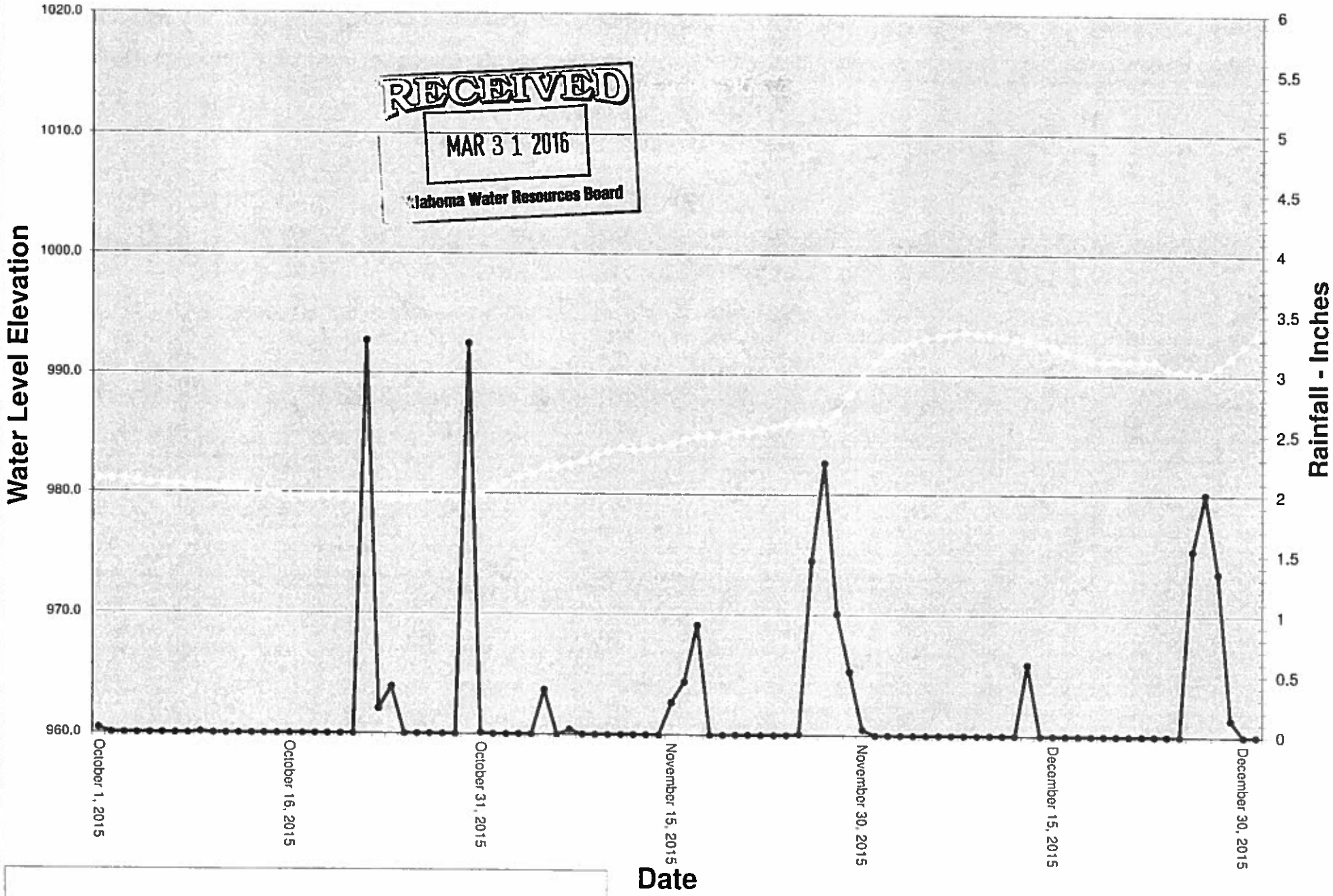

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