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SEP 29 2020

Oklahoma Water Resources Board

Robin L. Simmons
Regional Land Manager

September 29, 2020

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

Re: Martin Marietta/TXI Mill Creek Limestone Quarry Monitoring Report Q2 2020

Dear Mr. Cogburn:

Attached please find the Q2 2020 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 cursive script that reads 'Robin L. Simmons'.

Robin L. Simmons
Regional Land Manager

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ATTACHMENT 1 (Appendix C)
Martin Marietta (TXI) Mill Creek 2020

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Appendix C . Consumptive use of Pitwater

Q1 2020

Q2 2020

PIT GROUNDWATER VOLUME			
1	Total volume pumped from producing mine pit(s) (AC-FT)	612.46	598.96
2	Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)	30.70	24.98
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)	136.16	90.10
4	(WATER HELD IN PIT FROM PREVIOUS MONTHS) other non pit waters pumped from the producing mining pit (AC-FT)		
5	add lines 2 through 4	166.85	115.07
6	Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)	445.61	483.88
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
8	Vol. of pit groundwater that is carried away with the the mined material transp. off of the mine site (AC-FT)	4.08	5.48
9	Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)	1.95	3.90
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)	9.43	28.32
11	DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)	15.46	37.70
PIT GROUNDWATER BALANCE			
12	Lines 6 minus 11	430.15	446.19
13	Groundwater Augmentation Volume of pit water returned to GW Basin or subbasin. (Troy Recharge AC-FT)	477.14	717.87
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
15	PPT and Runoff Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)	60.58	45.03
16	Recycled Pit Groundwater - Volume of ground water returned to the mine pit or holding basin (AC-FT)	387.42	0.00
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)	60.7	19.7
18	add lines 13 through 17	985.81	782.59
19	OTHER CONSUMPTIVE USE Line 12 minus Line 18	-555.66	-336.41
TOTAL REPORTED CONSUMPTIVE USE (AC-FT)			
TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19		-540.21	-298.71

RESULTS FROM RUNOFF MODELLING

2020	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	5.64	13.442	42.798	16.111	72.35	8.79	9.88	18.57	7.09	40.80	75.88
February	2.24	5.339	12.582	3.347	21.27	3.49	1.30	7.37	1.39	16.20	18.62
March	5.00	11.917	40.625	20.693	73.23	7.79	17.87	16.46	9.69	36.17	88.88
Q1 Subtotal	12.88	30.70	96.00	40.15	166.85	20.07	29.05	42.40	18.18	93.17	183.38
April	4.60	10.963	40.029	19.249	70.24	7.17	17.45	15.14	9.00	33.27	85.72
May	4.13	9.843	18.931	3.296	32.07	6.44	0.14	13.59	1.20	29.87	23.56
June	1.75	4.171	7.660	7.704	19.53	2.73	0.01	5.76	0.31	12.66	15.68
Q2 Subtotal	10.48	24.98	66.62	30.25	121.85	16.33	17.59	34.50	10.51	75.81	124.96

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Water Volume Movements	January	February	March	April	May	June
Pumped from Pit	202.2	190.5	219.7	178.0	217.2	203.7
Groundwater Component of Pitwater	152.2	178.4	200.5	214.8	199.9	162.4
Quarry dust suppression	3.5	3.7	5.1	7.5	9.1	16.0
Q- freshwater pond	198.7	186.8	214.6	170.5	208.2	187.7
To Secondary FM7	600.8	492.8	603.3	603.6	532.1	458.4
To sand Plant FM8	132.9	108.9	143.6	159.3	149.7	127.3
to loadout FM6	321.6	272.8	331.7	383.2	368.2	276.8
to dust control FM9	0.004	0.000	0.000	0.000	0.000	0.000
to Plant FM7+FM8+FM6	1055.2	874.5	1078.6	1146.1	1050.0	862.5
to stream Augmentation	0.00	0.00	0.00	0.00	0.00	0.00
bypass discharge	0.47	0.47	0.47	0.47	0	0.47
To Troy FM3	1062.4	765.1	1116.7			
To Booster FM2	1088.8	897.7	1150.8	1218.0	1096.0	976.2
From Troy to Freshwater Pond FM4	854.6	803.3	689.2	965.9	835.5	781.8

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Quarter Summary	2nd Qtr
Total Tons Shipped	1,440,000
Total Acre Feet	32.67
Average Moisture %	3.09%

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# may not have received Director's approval. Any such data values are qualified
# as provisional and are subject to revision. Provisional 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: 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: 2020-09-29 12:34:20 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
#      TS      parameter      statistic      Description
#      111780      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	111780_00060_00003	111780_00060_00003_cd
5s	15s	20d	14n 10s		
USGS	07331200		2020-04-01	77.4	A
USGS	07331200		2020-04-02	73.1	A
USGS	07331200		2020-04-03	72.2	A
USGS	07331200		2020-04-04	68.1	A
USGS	07331200		2020-04-05	65.0	A
USGS	07331200		2020-04-06	62.5	A
USGS	07331200		2020-04-07	61.8	A
USGS	07331200		2020-04-08	57.7	A
USGS	07331200		2020-04-09	53.9	A
USGS	07331200		2020-04-10	51.9	A
USGS	07331200		2020-04-11	53.8	A
USGS	07331200		2020-04-12	170	A
USGS	07331200		2020-04-13	102	A
USGS	07331200		2020-04-14	75.7	A
USGS	07331200		2020-04-15	66.8	A
USGS	07331200		2020-04-16	62.2	A
USGS	07331200		2020-04-17	60.1	A
USGS	07331200		2020-04-18	53.7	A
USGS	07331200		2020-04-19	48.5	A
USGS	07331200		2020-04-20	45.7	A
USGS	07331200		2020-04-21	44.3	A
USGS	07331200		2020-04-22	448	A
USGS	07331200		2020-04-23	106	A
USGS	07331200		2020-04-24	62.0	A
USGS	07331200		2020-04-25	46.9	A
USGS	07331200		2020-04-26	37.0	A
USGS	07331200		2020-04-27	33.6	A
USGS	07331200		2020-04-28	31.9	A
USGS	07331200		2020-04-29	30.2	A
USGS	07331200		2020-04-30	29.4	A

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 #
 # 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: 2020-09-29 12:35:26 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
 # TS parameter statistic Description
 # 111780 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	111780_00060_00003	111780_00060_00003_cd
5s	15s	20d	14n	10s
USGS	07331200	2020-05-01	29.6	A
USGS	07331200	2020-05-02	29.0	A
USGS	07331200	2020-05-03	27.7	A
USGS	07331200	2020-05-04	27.4	A
USGS	07331200	2020-05-05	30.8	A
USGS	07331200	2020-05-06	27.3	A
USGS	07331200	2020-05-07	25.3	A
USGS	07331200	2020-05-08	61.5	A
USGS	07331200	2020-05-09	33.2	A
USGS	07331200	2020-05-10	27.1	A
USGS	07331200	2020-05-11	24.8	A
USGS	07331200	2020-05-12	87.3	A
USGS	07331200	2020-05-13	55.8	A
USGS	07331200	2020-05-14	45.5	A
USGS	07331200	2020-05-15	43.2	A
USGS	07331200	2020-05-16	108	A
USGS	07331200	2020-05-17	113	A
USGS	07331200	2020-05-18	56.4	A
USGS	07331200	2020-05-19	44.5	A
USGS	07331200	2020-05-20	38.1	A
USGS	07331200	2020-05-21	36.1	A
USGS	07331200	2020-05-22	39.1	A
USGS	07331200	2020-05-23	35.5	A
USGS	07331200	2020-05-24	33.0	A
USGS	07331200	2020-05-25	41.3	A
USGS	07331200	2020-05-26	55.5	A
USGS	07331200	2020-05-27	40.4	A
USGS	07331200	2020-05-28	34.5	A
USGS	07331200	2020-05-29	30.0	A
USGS	07331200	2020-05-30	25.0	A
USGS	07331200	2020-05-31	21.9	A

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5s	15s	20d	14n 10s		
USGS	07331200		2020-06-01	19.0	A
USGS	07331200		2020-06-02	17.7	A
USGS	07331200		2020-06-03	16.7	A
USGS	07331200		2020-06-04	16.0	A
USGS	07331200		2020-06-05	15.9	A
USGS	07331200		2020-06-06	14.4	A
USGS	07331200		2020-06-07	13.7	A
USGS	07331200		2020-06-08	13.3	A
USGS	07331200		2020-06-09	16.7	A
USGS	07331200		2020-06-10	16.3	A
USGS	07331200		2020-06-11	13.5	A
USGS	07331200		2020-06-12	11.1	A
USGS	07331200		2020-06-13	16.9	A
USGS	07331200		2020-06-14	16.4	A
USGS	07331200		2020-06-15	16.0	A
USGS	07331200		2020-06-16	17.5	A
USGS	07331200		2020-06-17	17.2	A
USGS	07331200		2020-06-18	16.7	A
USGS	07331200		2020-06-19	17.2	A
USGS	07331200		2020-06-20	18.8	A
USGS	07331200		2020-06-21	17.7	A
USGS	07331200		2020-06-22	19.4	A
USGS	07331200		2020-06-23	21.5	A
USGS	07331200		2020-06-24	17.4	A
USGS	07331200		2020-06-25	15.8	A
USGS	07331200		2020-06-26	15.2	A
USGS	07331200		2020-06-27	12.9	A
USGS	07331200		2020-06-28	12.5	A
USGS	07331200		2020-06-29	8.23	A
USGS	07331200		2020-06-30	12.0	A

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Date	Daily Rainfall Total
4/1/2020	0.17
4/2/2020	0.11
4/3/2020	0.11
4/4/2020	0.05
4/5/2020	0.13
4/6/2020	0.12
4/7/2020	0.23
4/8/2020	0.28
4/9/2020	0.34
4/10/2020	0.27
4/11/2020	0.11
4/12/2020	0.13
4/13/2020	0.18
4/14/2020	0.1
4/15/2020	0.17
4/16/2020	0.29
4/17/2020	0.11
4/18/2020	0.17
4/19/2020	0.08
4/20/2020	0.16
4/21/2020	0.24
4/22/2020	0.1
4/23/2020	0.26
4/24/2020	0.26
4/25/2020	0.29
4/26/2020	0.24
4/27/2020	0.33
4/28/2020	0.26
4/29/2020	0.31
4/30/2020	0.24
5/1/2020	0.37
5/2/2020	0.33
5/3/2020	0.26
5/4/2020	0.3
5/5/2020	0.31
5/6/2020	0.18
5/7/2020	0.29
5/8/2020	0.26
5/9/2020	0.23
5/10/2020	0.18
5/11/2020	0.27
5/12/2020	0.07
5/13/2020	0.12
5/14/2020	0.22
5/15/2020	0.12
5/16/2020	0.04

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5/17/2020	0.27
5/18/2020	0.25
5/19/2020	0.29
5/20/2020	0.22
5/21/2020	0.08
5/22/2020	0.22
5/23/2020	0.34
5/24/2020	0.17
5/25/2020	0.05
5/26/2020	0.12
5/27/2020	0.22
5/28/2020	0.18
5/29/2020	0.29
5/30/2020	0.28
5/31/2020	0.27
6/1/2020	0.24
6/2/2020	0.27
6/3/2020	0.29
6/4/2020	0.32
6/5/2020	0.31
6/6/2020	0.29
6/7/2020	0.3
6/8/2020	0.26
6/9/2020	0.45
6/10/2020	0.45
6/11/2020	0.29
6/12/2020	0.26
6/13/2020	0.29
6/14/2020	0.31
6/15/2020	0.3
6/16/2020	0.3
6/17/2020	0.37
6/18/2020	0.42
6/19/2020	0.33
6/20/2020	0.28
6/21/2020	0.17
6/22/2020	0.28
6/23/2020	0.14
6/24/2020	0.31
6/25/2020	0.26
6/26/2020	0.25
6/27/2020	0.28
6/28/2020	0.23
6/29/2020	0.33
6/30/2020	0.26

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

April 2020
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		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	69	42	57.5	47.4	9	0	100	50	72	0.01	29.00	29.94	SSE	9.7	27.0	19.86	60.0	57.9	64	52
2	67	55	61.6	55.9	4	0	98	71	82	0.00	28.94	29.87	SSE	13.0	33.2	7.32	59.9	58.5	61	55
3	63	36	42.9	41.5	16	0	99	91	95	0.07	29.10	30.04	N	12.2	27.6	4.65	57.3	53.4	61	46
4	45	37	40.7	38.0	24	0	99	83	90	0.00	29.13	30.07	N	9.3	19.5	6.16	52.6	47.4	50	45
5	67	42	52.8	49.0	11	0	100	66	88	0.00	29.11	30.05	SSE	6.2	17.1	18.24	56.2	54.7	64	47
6	73	58	64.6	60.7	0	0	100	69	88	0.00	29.04	29.98	SSE	9.6	23.3	11.99	60.9	61.4	66	57
7	85	64	71.8	63.6	0	9	100	44	78	0.00	28.92	29.86	SSW	8.8	20.3	19.78	65.1	66.7	74	62
8	91*	56*	73.3*	56.6*	0*	9*	100*	24*	63*	0.00*	28.85*	29.78*	SW *	7.1*	23.7*	NA	67.2*	67.4*	77*	60*
9	74	57	65.2	43.3	0	0	66	33	46	0.00	29.01	29.95	NNE	12.7	24.0	19.21	65.0	63.2	69	58
10	69	46	57.7	36.0	7	0	64	30	45	0.00	29.12	30.06	NNE	7.7	19.7	26.74	63.2	61.8	74	52
11	68	49	57.7	52.2	7	0	100	64	83	0.93	28.88	29.81	SSE	9.0	25.0	7.05	62.0	59.8	64	56
12	72	40	56.2	51.9	9	0	100	68	86	0.35	28.70	29.63	NNW	10.8	35.7	11.61	62.6	61.8	71	55
13	50	35	41.3	26.6	22	0	73	39	57	0.00	29.23	30.17	NNE	12.6	33.2	19.47	57.4	52.6	59	48
14	49	33	41.6	33.4	24	0	96	53	74	0.01	29.32	30.27	NNE	8.7	23.5	12.06	55.9	49.5	56	45
15	60	29	45.9	33.2	20	0	98	29	66	0.00	29.21	30.16	NW	5.3	17.4	28.65	57.4	52.4	64	42
16	71	46	58.1	42.4	7	0	81	35	58	0.00	29.11	30.05	SSE	12.5	31.8	27.67	60.0	55.9	64	49
17	60	37	49.6	42.5	17	0	97	63	77	0.00	29.13	30.08	NNW	10.1	24.3	10.46	58.9	54.1	57	49
18	67	33	51.6	41.4	15	0	100	36	72	0.02	29.06	30.00	SE	6.4	20.4	24.28	58.4	54.3	64	44
19	70	51	60.2	58.6	5	0	100	75	95	0.04	28.80	29.74	NNW	6.4	21.2	8.79	61.8	60.5	67	58
20	71	47	58.1	53.2	6	0	100	54	86	0.00	28.95	29.89	S	3.9	15.6	22.77	63.0	61.7	71	53
21	81	48	66.7	53.1	0	0	100	31	67	0.01	29.00	29.94	ESE	6.3	23.7	26.99	65.3	64.3	74	55
22	74	59	63.6	61.7	0	1	100	62	94	3.06	28.75	29.69	SE	9.2	34.2	6.12	63.3	62.5	67	60
23	80	55	66.1	55.4	0	2	99	34	72	0.00	28.80	29.73	NW	6.7	22.8	28.34	65.9	67.3	77	59
24	78	57	67.8	55.3	0	3	92	45	66	0.00	28.81	29.75	SSE	10.0	30.0	21.14	67.6	66.8	73	62
25	74	49	61.4	46.7	3	0	91	34	62	0.00	29.10	30.04	NNW	10.4	30.5	28.49	66.0	62.3	69	56
26	78	45	64.0	46.6	4	0	96	25	58	0.00	29.19	30.13	NW	6.1	16.2	27.51	66.7	63.3	73	54
27	79	61	69.3	54.2	0	5	75	43	59	0.00	29.04	29.98	SSE	12.5	36.9	23.06	67.7	64.2	71	58
28	85	61	72.9	65.6	0	8	98	59	79	0.31	28.88	29.81	S	10.9	62.9	22.97	70.5	69.7	78	63
29	73	52	63.3	45.7	3	0	94	29	56	0.00	29.09	30.03	NW	11.0	36.5	29.79	69.0	65.4	70	60
30	78	46	63.6	48.3	3	0	95	33	61	0.00	29.11	30.05	NW	5.0	16.2	29.44	68.6	65.7	77	55
	71*	47*	58.9*	48.7*	<- Monthly Averages ->						29.01*	29.95*	SSE*	9.0*	62.9*	18.99*	62.5*	60.2*	68*	54*

Temperature - Highest: 91*
Lowest: 29*

Degree Days - Total HDD: 217*
Total CDD: 38*

Number of Days With:
Tmax ≥ 90: 1* Rainfall ≥ 0.01 inch: 10*
Tmax ≤ 32: 0* Rainfall ≥ 0.10 inch: 4*
Tmin ≤ 32: 1* Avg Wind Speed ≥ 10 mph: 12*
Tmin ≤ 0: 0* Max Wind Speed ≥ 30 mph: 10*

Rainfall: Monthly Total: 4.81* in.
Greatest 24 Hr: 3.06* in.

Humidity - Highest: 100*
Lowest: 24*

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Oklahoma Water Resources Board

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

May 2020
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		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	85	55	70.9	55.4	0	5	86	35	61	0.00	28.97	29.91	SSE	12.8	36.8	28.33	69.8	68.8	79	59
2	85	63	73.9	64.4	0	9	92	54	73	0.00	28.94	29.88	SSE	13.1	29.2	27.50	71.8	73.1	84	64
3	86	69	76.6	69.1	0	13	96	57	79	0.00	28.91	29.85	S	8.9	22.4	22.99	74.4	77.1	87	69
4	88	69	77.0	68.7	0	14	95	54	77	0.00	28.84	29.77	S	11.7	32.4	23.81	75.4	78.0	88	71
5	75	50	65.4	49.5	3	0	94	28	60	0.00	29.12	30.06	NNE	12.8	39.3	27.57	73.1	75.4	84	68
6	73	46	60.4	47.7	6	0	95	40	66	0.00	29.25	30.19	NE	5.9	19.8	19.77	68.8	70.3	81	63
7	80	52	66.8	52.7	0	1	92	37	63	0.00	29.02	29.96	SSE	11.2	33.8	22.85	68.7	70.9	81	62
8	73	44	60.6	50.4	6	0	100	40	72	1.08	29.10	30.04	N	14.2	49.5	25.73	68.5	67.2	72	60
9	70	44	57.4	44.6	8	0	95	42	65	0.00	29.26	30.21	SE	5.8	16.1	29.26	67.3	63.7	74	54
10	72	45	59.7	49.6	7	0	100	51	72	0.00	29.29	30.24	NE	5.6	18.5	21.26	67.8	64.8	73	57
11	72	51	61.3	46.5	4	0	75	45	59	0.00	29.23	30.18	NE	9.0	21.0	26.20	68.0	65.3	76	56
12	61	52	55.4	53.3	9	0	100	61	94	1.19	29.06	30.00	ENE	9.1	27.6	4.91	64.7	62.0	65	60
13	78	57	67.6	64.4	0	2	100	71	90	0.02	28.98	29.92	SSE	9.3	24.8	10.70	65.9	65.0	71	61
14	83	63	73.3	67.5	0	8	100	65	83	0.53	28.92	29.85	SSE	11.5	37.5	19.98	69.4	70.7	78	65
15	79	61	68.6	66.4	0	5	99	75	93	0.04	28.90	29.84	SSE	11.3	40.6	8.98	70.5	70.1	74	66
16	67	60	63.7	63.4	2	0	100	96	99	1.17	28.87	29.80	N	8.8	21.1	3.72	68.1	65.8	67	64
17	79	59	69.4	60.2	0	4	100	43	76	0.00	28.94	29.88	NNW	8.2	24.7	29.05	71.0	70.8	79	64
18	83	54	69.5	59.7	0	4	100	47	74	0.00	28.97	29.91	NE	3.7	11.8	29.57	72.9	73.4	84	64
19	80	61	70.3	59.8	0	6	93	53	71	0.00	28.91	29.85	NE	9.2	18.4	29.24	74.7	73.5	81	66
20	79	59	68.9	60.7	0	4	93	60	76	0.00	28.93	29.87	SE	7.6	17.4	20.88	74.5	71.9	80	65
21	73	67	69.4	67.2	0	5	100	78	93	0.00	28.89	29.83	ESE	7.4	22.0	6.26	73.3	71.0	73	69
22	85	63	75.7	68.5	0	9	100	36	80	0.00	28.88	29.81	S	10.6	53.5	21.44	74.9	74.2	81	68
23	87	66	76.6	65.2	0	11	92	39	69	0.06	28.89	29.83	SSE	13.4	41.9	23.96	75.8	74.4	82	68
24	82	64	71.2	66.9	0	8	100	74	87	0.15	28.90	29.84	SSE	9.6	38.1	13.67	75.7	73.7	79	69
25	68	62	65.4	64.9	0	0	100	91	98	0.87	28.87	29.81	WNW	6.6	21.7	4.72	72.7	69.1	71	67
26	70	60	64.5	61.5	0	0	100	71	90	0.00	28.94	29.88	WNW	4.6	14.5	13.11	72.3	69.5	74	65
27	79	58	68.7	60.6	0	4	100	46	79	0.00	28.93	29.87	NW	4.6	14.0	25.73	73.6	71.7	79	64
28	79	62	69.2	64.1	0	5	100	63	85	0.02	29.02	29.96	NW	6.7	23.5	18.30	74.7	72.1	77	68
29	84	60	72.0	61.2	0	7	99	45	72	0.00	29.19	30.13	NNE	7.1	19.1	29.63	75.6	73.3	82	65
30	82	55	70.5	56.9	0	4	98	38	65	0.00	29.20	30.14	NNE	5.4	17.1	30.76	75.9	74.6	85	65
31	83	58	71.5	58.6	0	6	99	41	67	0.00	29.21	30.16	ESE	4.6	13.7	30.02	76.1	76.4	87	66
	78	58	68.1	59.7	<- Monthly Averages ->						29.01	29.95	SSE	8.7	53.5	20.96	71.8	70.9	78	64
Temperature - Highest: 88 Lowest: 44							Degree Days - Total HDD: 43 Total CDD: 133					Number of Days With:								
Rainfall: Monthly Total: 5.13 in. Greatest 24 Hr: 1.19 in.							Humidity - Highest: 100 Lowest: 28					Tmax ≥ 90: 0 Rainfall ≥ 0.01 inch: 10 Tmax ≤ 32: 0 Rainfall ≥ 0.10 inch: 6 Tmin ≤ 32: 0 Avg Wind Speed ≥ 10 mph: 10 Tmin ≤ 0: 0 Max Wind Speed ≥ 30 mph: 10								

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Monthly data generated on Tuesday, June 30, 2020 at 19:00 UTC

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* Denotes incomplete record

MESONET CLIMATOLOGICAL DATA SUMMARY										June 2020		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	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	84	62	72.0	61.9	0	8	97	48	73	0.00	29.19	30.13	SSE	4.9	15.6	24.70	76.3	77.1	87	69
2	87	63	76.0	67.6	0	10	100	51	77	0.00	29.11	30.05	SE	6.4	19.2	26.63	77.3	79.8	91	70
3	89	68	78.8	70.1	0	14	100	53	77	0.00	29.00	29.93	S	7.0	22.4	27.78	79.4	83.3	94	74
4	93	70	81.2	71.7	0	17	97	51	75	0.00	28.90	29.83	S	8.7	25.6	28.46	80.6	86.0	98	75
5	93	67	81.8	70.5	0	15	94	51	70	0.00	28.96	29.90	S	5.9	31.3	27.65	81.4	88.3	100	77
6	94	69	81.9	71.7	0	16	100	46	74	0.00	28.98	29.92	SE	3.5	15.2	29.71	82.2	90.6	103	79
7	90	71	80.5	70.6	0	16	99	48	74	0.00	28.89	29.83	ESE	5.4	20.7	29.47	82.2	91.4	103	80
8	92	69	81.1	70.8	0	16	100	48	74	0.00	28.74	29.67	NE	3.5	12.9	26.09	81.8	91.2	101	81
9	91	64	79.6	57.2	0	12	100	19	53	0.00	28.74	29.68	W	12.7	34.8	29.99	81.4	89.0	98	82
10	85	57	70.5	45.6	0	6	81	21	45	0.00	29.11	30.05	NW	10.3	32.1	31.76	78.9	83.3	94	74
11	89	53	72.2	52.8	0	6	96	26	57	0.00	29.30	30.25	ESE	3.9	20.0	31.00	77.7	85.3	100	72
12	88	56	73.2	59.4	0	7	100	32	68	0.00	29.30	30.25	SSE	4.5	17.2	26.53	77.7	85.8	98	75
13	91	58	75.7	61.4	0	9	100	28	68	0.00	29.17	30.12	SSE	4.5	20.3	29.65	78.7	87.7	100	76
14	91	61	78.0	62.6	0	11	100	33	63	0.00	29.16	30.10	ESE	5.2	18.9	29.41	79.7	89.3	101	78
15	92	63	79.0	63.8	0	12	97	33	64	0.00	29.19	30.14	ESE	5.0	19.1	28.27	80.3	90.1	102	79
16	91	69	78.6	67.8	0	15	98	45	72	0.00	29.15	30.09	E	6.1	26.8	27.26	81.4	90.9	102	81
17	92	70	80.1	65.9	0	16	97	37	66	0.00	29.06	30.00	SE	8.7	25.7	29.35	82.0	91.1	103	81
18	91	69	80.6	62.7	0	15	91	34	58	0.00	28.99	29.93	SE	10.0	26.5	30.06	82.5	91.0	102	81
19	92	67	76.3	67.1	0	14	99	44	75	1.13	29.03	29.97	SSE	10.5	39.4	24.42	81.7	88.4	102	80
20	89	67	75.6	67.2	0	13	100	42	78	0.04	29.02	29.96	SSW	5.6	16.7	26.48	80.6	82.4	90	76
21	81	68	73.1	68.8	0	9	100	61	87	0.13	28.95	29.89	SSE	6.4	35.1	16.12	79.5	79.5	86	75
22	89	66	76.8	69.0	0	12	100	52	79	1.11	28.94	29.88	WNW	6.4	44.2	27.37	79.6	81.1	90	73
23	83	66	74.1	69.9	0	10	100	59	88	0.10	28.98	29.92	NNE	6.7	21.5	11.82	79.4	78.6	83	75
24	87	60	75.3	61.7	0	9	98	39	66	0.00	29.00	29.94	NE	6.7	20.4	30.92	79.0	79.2	89	69
25	87	67	77.6	70.1	0	12	100	55	80	0.00	29.03	29.97	SE	5.4	16.9	26.82	80.2	82.3	91	73
26	90	72	79.5	72.5	0	16	100	59	81	0.00	29.05	29.99	S	8.8	24.5	21.30	81.3	83.6	93	77
27	88	73	80.5	71.5	0	16	93	57	75	0.00	28.97	29.91	S	11.5	28.1	20.59	81.1	83.8	91	77
28	87	76	79.4	73.2	0	16	92	68	82	0.04	28.85	29.78	S	14.2	32.5	13.70	80.3	82.1	87	78
29	91*	77*	82.7*	73.9*	0*	19*	89*	58*	76*	0.00*	28.84*	29.77*	SSE*	15.4*	30.2*	NA	80.9*	83.9*	92*	78*
30	90	77	82.3	75.7	0	19	94	66	81	0.00	28.85	29.78	SSE	12.1	26.3	18.26	81.3	84.9	92	80
	89*	66*	77.8*	66.5*	<- Monthly Averages ->						29.02*	29.95*	SSE*	7.5*	44.2*	25.92*	80.2*	85.4*	95*	77*
Temperature - Highest: 94*							Degree Days - Total HDD: 0*					Number of Days With: Tmax ≥ 90: 16* Rainfall ≥ 0.01 inch: 6* Tmax ≤ 32: 0* Rainfall ≥ 0.10 inch: 4* Tmin ≤ 32: 0* Avg Wind Speed ≥ 10 mph: 8* Tmin ≤ 0: 0* Max Wind Speed ≥ 30 mph: 8*								
Lowest: 53*							Total CDD: 385*													
Rainfall: Monthly Total: 2.55* in.							Humidity - Highest: 100*													
Greatest 24 Hr: 1.13* in.							Lowest: 19*													

2020-07-21	0.24	0.28	0.22	0.15	0.30
2020-07-20	0.27	0.32	0.25	0.16	0.34
2020-07-19	0.25	0.29	0.23	0.15	0.31
2020-07-18	0.25	0.31	0.24	0.16	0.32
2020-07-17	0.26	0.31	0.24	0.16	0.33
2020-07-16	0.25	0.28	0.23	0.15	0.30
2020-07-15	0.21	0.26	0.19	0.13	0.27
2020-07-14	0.25	0.31	0.23	0.15	0.32
2020-07-13	0.22	0.27	0.21	0.14	0.28
2020-07-12	0.25	0.30	0.23	0.15	0.31
2020-07-11	0.26	0.30	0.24	0.16	0.32
2020-07-10	0.13	0.15	0.12	0.08	0.16
2020-07-09	0.26	0.30	0.24	0.16	0.33
2020-07-08	0.22	0.25	0.21	0.14	0.27
2020-07-07	0.18	0.20	0.16	0.11	0.21
2020-07-06	0.15	0.17	0.14	0.09	0.18
2020-07-05	0.20	0.22	0.18	0.12	0.24
2020-07-04	0.18	0.20	0.16	0.11	0.21
2020-07-03	0.23	0.25	0.22	0.14	0.28
2020-07-02	0.25	0.29	0.23	0.15	0.30
2020-07-01	0.23	0.28	0.22	0.14	0.30
2020-06-30	0.20	0.25	0.18	0.12	0.26
2020-06-29	0.24	0.32	0.22	0.15	0.33
2020-06-28	0.17	0.23	0.16	0.11	0.23
2020-06-27	0.21	0.27	0.20	0.13	0.28
2020-06-26	0.20	0.24	0.19	0.12	0.25
2020-06-25	0.21	0.24	0.20	0.13	0.26
2020-06-24	0.25	0.30	0.23	0.15	0.31
2020-06-23	0.12	0.14	0.11	0.07	0.14
2020-06-22	0.23	0.27	0.21	0.14	0.28
2020-06-21	0.14	0.16	0.13	0.09	0.17
2020-06-20	0.23	0.26	0.21	0.14	0.28
2020-06-19	0.25	0.33	0.23	0.16	0.33
2020-06-18	0.30	0.40	0.28	0.19	0.42
2020-06-17	0.28	0.36	0.26	0.17	0.37
2020-06-16	0.24	0.29	0.22	0.15	0.30
2020-06-15	0.24	0.28	0.22	0.15	0.30
2020-06-14	0.25	0.29	0.23	0.15	0.31
2020-06-13	0.24	0.28	0.22	0.15	0.29
2020-06-12	0.21	0.25	0.20	0.13	0.26
2020-06-11	0.23	0.28	0.22	0.15	0.29
2020-06-10	0.31	0.43	0.29	0.19	0.45
2020-06-09	0.32	0.43	0.30	0.20	0.45
2020-06-08	0.22	0.24	0.20	0.14	0.26
2020-06-07	0.25	0.28	0.23	0.15	0.30
2020-06-06	0.24	0.27	0.23	0.15	0.29
2020-06-05	0.24	0.29	0.23	0.15	0.31
2020-06-04	0.26	0.31	0.24	0.16	0.32
2020-06-03	0.23	0.27	0.21	0.14	0.29
2020-06-02	0.22	0.25	0.20	0.13	0.27
2020-06-01	0.20	0.23	0.18	0.12	0.24

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2020-05-31	0.22	0.25	0.20	0.14	0.27
2020-05-30	0.22	0.26	0.21	0.14	0.28
2020-05-29	0.23	0.27	0.21	0.14	0.29
2020-05-28	0.15	0.17	0.13	0.09	0.18
2020-05-27	0.18	0.20	0.17	0.11	0.22
2020-05-26	0.10	0.11	0.09	0.06	0.12
2020-05-25	0.04	0.04	0.04	0.03	0.05
2020-05-24	0.13	0.17	0.12	0.08	0.17
2020-05-23	0.25	0.33	0.23	0.15	0.34
2020-05-22	0.17	0.21	0.16	0.11	0.22
2020-05-21	0.06	0.08	0.06	0.04	0.08
2020-05-20	0.17	0.21	0.16	0.11	0.22
2020-05-19	0.22	0.27	0.21	0.14	0.29
2020-05-18	0.20	0.23	0.19	0.13	0.25
2020-05-17	0.21	0.25	0.20	0.13	0.27
2020-05-16	0.03	0.03	0.03	0.02	0.04
2020-05-15	0.09	0.12	0.08	0.06	0.12
2020-05-14	0.17	0.21	0.16	0.11	0.22
2020-05-13	0.10	0.12	0.09	0.06	0.12
2020-05-12	0.05	0.07	0.05	0.03	0.07
2020-05-11	0.20	0.26	0.19	0.12	0.27
2020-05-10	0.14	0.17	0.13	0.09	0.18
2020-05-09	0.18	0.22	0.17	0.11	0.23
2020-05-08	0.18	0.24	0.17	0.11	0.26
2020-05-07	0.21	0.29	0.20	0.13	0.29
2020-05-06	0.15	0.18	0.14	0.09	0.18
2020-05-05	0.22	0.29	0.20	0.13	0.31
2020-05-04	0.23	0.29	0.21	0.14	0.30
2020-05-03	0.21	0.25	0.19	0.13	0.26
2020-05-02	0.24	0.31	0.22	0.15	0.33
2020-05-01	0.26	0.36	0.24	0.16	0.37
2020-04-30	0.19	0.23	0.18	0.12	0.24
2020-04-29	0.22	0.29	0.21	0.14	0.31
2020-04-28	0.20	0.25	0.19	0.12	0.26
2020-04-27	0.23	0.32	0.22	0.14	0.33
2020-04-26	0.19	0.24	0.18	0.12	0.24
2020-04-25	0.21	0.29	0.20	0.13	0.29
2020-04-24	0.19	0.25	0.18	0.12	0.26
2020-04-23	0.21	0.25	0.19	0.13	0.26
2020-04-22	0.08	0.11	0.07	0.05	0.10
2020-04-21	0.19	0.24	0.18	0.12	0.24
2020-04-20	0.14	0.15	0.13	0.08	0.16
2020-04-19	0.07	0.07	0.06	0.04	0.08
2020-04-18	0.14	0.17	0.13	0.09	0.17
2020-04-17	0.09	0.12	0.08	0.05	0.11
2020-04-16	0.20	0.28	0.19	0.13	0.29
2020-04-15	0.13	0.16	0.12	0.08	0.17
2020-04-14	0.08	0.10	0.07	0.05	0.10
2020-04-13	0.12	0.17	0.12	0.08	0.18
2020-04-12	0.10	0.13	0.09	0.06	0.13
2020-04-11	0.08	0.12	0.08	0.05	0.11
2020-04-10	0.19	0.26	0.18	0.12	0.27

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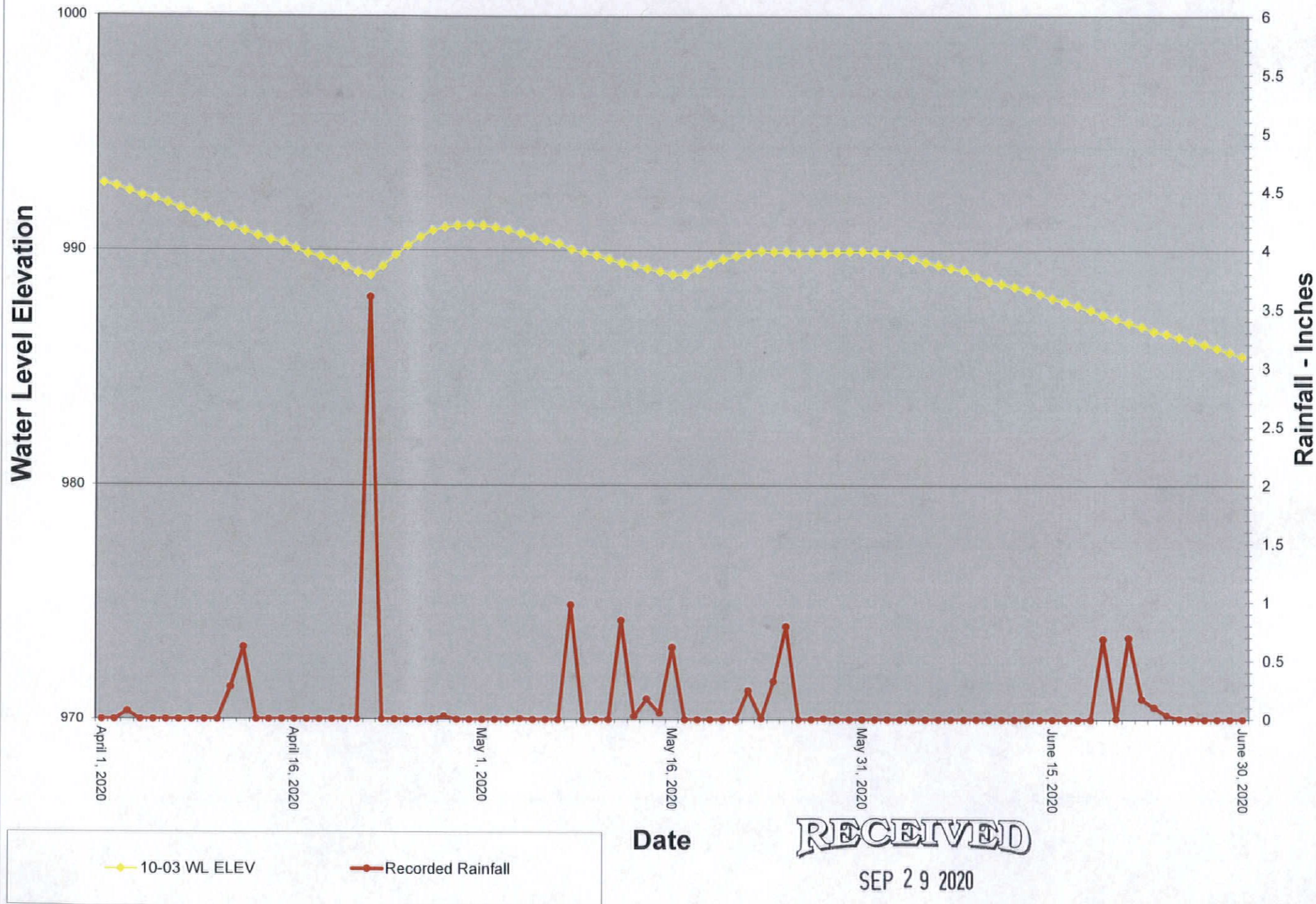
2020-04-09	0.22	0.33	0.21	0.14	0.34
2020-04-08	0.22	0.28	0.21	0.14	0.28
2020-04-07	0.18	0.24	0.17	0.11	0.23
2020-04-06	0.10	0.12	0.09	0.06	0.12
2020-04-05	0.11	0.13	0.10	0.07	0.13
2020-04-04	0.04	0.05	0.03	0.02	0.05
2020-04-03	0.08	0.12	0.07	0.05	0.11
2020-04-02	0.08	0.12	0.08	0.05	0.11
2020-04-01	0.13	0.18	0.12	0.08	0.17
2020-03-31	0.12	0.15	0.11	0.07	0.15
2020-03-30	0.05	0.07	0.05	0.03	0.06
2020-03-29	0.15	0.18	0.14	0.09	0.19
2020-03-28	0.19	0.27	0.18	0.12	0.27
2020-03-27	0.07	0.10	0.07	0.05	0.09
2020-03-26	0.22	0.30	0.21	0.14	0.30
2020-03-25	0.20	0.26	0.18	0.12	0.26
2020-03-24	0.17	0.21	0.15	0.10	0.21
2020-03-23	0.07	0.08	0.06	0.04	0.08
2020-03-22	0.04	0.04	0.03	0.02	0.04
2020-03-21	0.11	0.14	0.10	0.07	0.14
2020-03-20	0.09	0.13	0.08	0.06	0.12
2020-03-19	0.09	0.12	0.09	0.06	0.12
2020-03-18	0.10	0.13	0.09	0.06	0.13
2020-03-17	0.03	0.03	0.03	0.02	0.04
2020-03-16	0.03	0.04	0.03	0.02	0.04
2020-03-15	0.04	0.04	0.03	0.02	0.05
2020-03-14	0.03	0.04	0.03	0.02	0.04
2020-03-13	0.10	0.15	0.09	0.06	0.13
2020-03-12	0.18	0.25	0.17	0.11	0.23
2020-03-11	0.13	0.16	0.12	0.08	0.16
2020-03-10	0.14	0.18	0.13	0.09	0.17
2020-03-09	0.16	0.23	0.15	0.10	0.22
2020-03-08	0.08	0.11	0.07	0.05	0.11
2020-03-07	0.16	0.23	0.14	0.10	0.22
2020-03-06	0.14	0.20	0.13	0.09	0.20
2020-03-05	0.17	0.25	0.16	0.10	0.23
2020-03-04	0.08	0.11	0.07	0.05	0.10
2020-03-03	0.09	0.12	0.08	0.05	0.11
2020-03-02	0.08	0.09	0.07	0.05	0.09
2020-03-01	0.18	0.27	0.17	0.11	0.26
2020-02-29	0.16	0.24	0.15	0.10	0.22
2020-02-28	0.12	0.17	0.11	0.08	0.16
2020-02-27	0.11	0.15	0.10	0.07	0.14
2020-02-26	0.08	0.11	0.07	0.05	0.11
2020-02-25	0.10	0.15	0.10	0.06	0.14
2020-02-24	0.07	0.10	0.06	0.04	0.09
2020-02-23	0.05	0.07	0.05	0.03	0.07
2020-02-22	0.11	0.16	0.10	0.07	0.14
2020-02-21	0.07	0.10	0.07	0.05	0.10
2020-02-20	0.07	0.10	0.07	0.04	0.10
2020-02-19	0.09	0.14	0.09	0.06	0.13
2020-02-18	0.12	0.18	0.11	0.07	0.17

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