



Jesse Martindale
Sr. Environmental Engineer

March 28, 2023

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Oklahoma Water Resources Board

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

Re: Martin Marietta Mill Creek Limestone Quarry Monitoring Report Q4 and annual 2022

Dear Mr. Cogburn:

Attached please find the Q4 2022 Quarterly and Annual Monitoring Report for Martin Marietta's Mill Creek Limestone quarry. The report is summarized on the table labeled Appendix C. Supporting data is also included.

Please call if you have any questions or comments.

Sincerely,

A handwritten signature in blue ink that reads 'Jesse Martindale'.

Jesse Martindale
Sr. Environmental Engineer

North Texas/Oklahoma District
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www.martinmarietta.com

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ATTACHMENT 1 (Appendix C)
Martin Marietta Mill Creek 2022

Oklahoma Water Resources Board

2022

Appendix C . Consumptive use of Pitwater

Q1 2022 Q2 2022 Q3 2022 Q4 2022 Total

PIT GROUNDWATER VOLUME		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Total
1	Total volume pumped from producing mine pit(s) (AC-FT)	537.1	469.8	317.9	460.9	1785.8
2	Volume of precipitation that falls onto the surface of producing Mine Pits (AC-FT)	2.6	0.1	0.0	0.1	2.8
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water (AC-FT)	26.8	165.1	23.3	231.0	446.3
4	(WATER HELD IN PIT FROM PREVIOUS MONTHS) other non pit waters pumped from the producing mining pit (AC-FT)	94.9	2.1	-0.2	-0.9	96.0
5	add lines 2 through 4	124.4	167.3	23.2	230.2	545.1
6	Pit Groundwater Volume (AC-FT) (line 1 minus Line 5)	412.7	302.5	294.8	230.7	1240.7
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)	3.65	2.23	2.89	2.20	10.97
9	Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)	2.83	0.00	0.03	0.00	2.86
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)	15.52	13.26	12.90	7.81	49.49
11	DEFINED ELEMENTS OF CONSUMPTIVE USE of Pit groundwater (AC-FT) (add lines 7 through 10)	22.00	15.49	15.82	10.01	63.32
PIT GROUNDWATER BALANCE						
12	Lines 6 minus 11	390.68	287.01	278.94	220.72	1177.34
13	Groundwater Augmentation Volume of pit water returned to GW Basin or subbasin. (Troy Recharge AC-FT)	286.77	359.42	451.86	399.38	1497.43
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)	83.45	171.89	0.00	0.00	255.34
15	PPT and Runoff Volume of Precipitation and surface runoff into a recharge pit or holding pond (AC-FT)	11.62	48.79	7.85	38.61	106.87
16	Recycled Pit Groundwater - Volume of ground water returned to the mine pit or holding basin (AC-FT)	334.52	258.83	251.91	159.63	1004.89
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)	12.71	0.00	0.00	4.28	16.99
18	add lines 13 through 17	729.07	838.92	711.62	601.91	2881.52
19	OTHER CONSUMPTIVE USE Line 12 minus Line 18	-338.39	-551.91	-432.68	-381.19	-1704.18
TOTAL REPORTED CONSUMPTIVE USE (AC-FT)						
TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19		-316.39	-536.42	-416.86	-371.18	-1640.85

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ATTACHMENT 1 (Appendix C)
Martin Marietta (TXI) Mill Creek 2022

Oklahoma Water Resources Board

2022

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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)	3.65	2.23	2.89	2.20	10.97
9	Vol. of pit groundwater that evaporates from producing mine pits, process ponds and lined ponds (excluding structures used for augmentation) (AC-FT)	2.83	0.00	0.03	0.00	2.86
10	Volume of pit groundwater that is used for other beneficial uses off of the mine site (AC-FT) (includes on-site dust control)	15.52	13.26	12.90	7.81	49.49
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TOTAL REPORTED CONSUMPTIVE USE (AC-FT)						
TOTAL NET CONSUMPTIVE USE (AC-FT) Line 11 plus line 19		-316.39	-536.42	-416.86	-371.18	-1640.85

RESULTS FROM RUNOFF MODELLING

2022	PPT. Inches	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
		ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft	ac-ft
January	0.36	0.750	1.077	0.000	1.83	0.52	0.00	1.06	0.00	2.33	1.08
February	0.89	1.854	4.503	0.162	6.52	1.30	0.00	2.62	0.07	5.77	4.73
March	2.33	0.019	18.855	2.254	21.13	3.39	0.11	6.86	1.01	10.28	22.23
Q1 Subtotal	3.58	2.62	24.43	2.42	29.47	5.21	0.11	10.55	1.07	18.38	28.04
April	2.26	0.019	16.686	1.809	18.51	3.29	0.19	6.66	0.83	9.97	19.52
May	6.01	0.050	77.887	17.499	95.44	8.75	10.32	17.70	9.17	26.51	114.87
June	3.82	0.032	43.050	8.181	51.26	5.56	3.63	11.25	3.17	16.85	58.04
Q2 Subtotal	12.09	0.10	137.62	27.49	165.21	17.61	14.14	35.61	13.17	53.33	192.43
July	0.20	0.00	0.00	0.00	0.00	0.29	0.00	0.59	0.00	0.88	0.00
August	1.60	0.01	19.51	3.78	23.30	2.33	1.41	4.71	1.90	7.06	26.60
September	0.22	0.00	0.05	0.00	0.06	0.32	0.00	0.65	0.00	0.97	0.05
Q3 Subtotal	2.02	0.02	19.56	3.78	23.36	2.94	1.41	5.95	1.90	8.91	26.65
October	4.17	0.03	54.46	65.20	119.70	6.07	4.26	12.28	5.39	18.39	129.32
November	3.92	0.03	40.82	49.63	90.48	5.71	7.07	11.55	4.74	17.29	102.26
December	1.49	0.01	10.14	10.76	20.91	2.17	0.00	4.39	0.25	6.57	21.15
Q4 Subtotal	9.58	0.08	105.43	125.58	231.09	13.95	11.33	28.22	10.39	42.25	252.73
ANNUAL TOTALS	27.27	2.82	287.05	159.27	449.14	39.72	27.00	80.33	26.54	122.87	499.85

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Water Volume Movements										
	January	February	March	April	May	June	July	August	September	October
Pumped from Pit	210.2	132.3	194.6	137.5	151.0	181.4	110.8	108.6	98.5	106.8
Groundwater Component of Pitwater	130.3	107.9	174.5	117.2	55.6	129.7	111.0	85.4	98.3	-12.8
Quarry dust suppression	5.9	4.6	6.0	5.7	5.0	9.0	6.1	3.7	3.9	2.3
Q- freshwater pond	178.6	115.0	143.5	90.8	102.7	84.7	104.7	104.9	94.6	104.5
To Secondary FM7	505.8	310.0	494.1	580.0	440.7	491.3	484.6	495.0	406.6	656.7
To sand Plant FM8	159.9	95.4	159.0	174.9	149.5	161.1	143.9	152.8	122.1	112.6
to loadout FM6	394.7	227.1	397.4	421.7	371.0	424.1	365.5	380.2	319.2	329.9
to dust control FM9	0.000	0.000	0.000	0.000	0.000	0.005	-0.005	0.000	0.000	0.000
to Plant FM7+FM8+FM6	1060.3	632.5	1050.5	1176.6	961.2	1076.6	994.0	1028.1	847.9	1099.3
to stream Augmentation	25.79	12.58	45.08	40.89	43.34	87.66	0.00	0.00	0.00	0.00
bypass discharge	2.059187	0.5284378	1.5891711	0.3213309	0.674253	0.4962575	0	0.8987574	0.9915698	0.3788511
To Troy FM3	1066.8	636.3	1075.6	1236.7	1010.2	1115.7	1031.1	1082.1	864.7	784.6
To Booster FM2	1071.7	641.2	1074.4	1233.1	1034.5	1133.2	1069.5	1102.7	906.8	842.0
From Troy to Freshwater Pond FM4	867.3	531.2	858.1	1072.9	842.7	913.3	914.2	971.6	784.7	-66220.8

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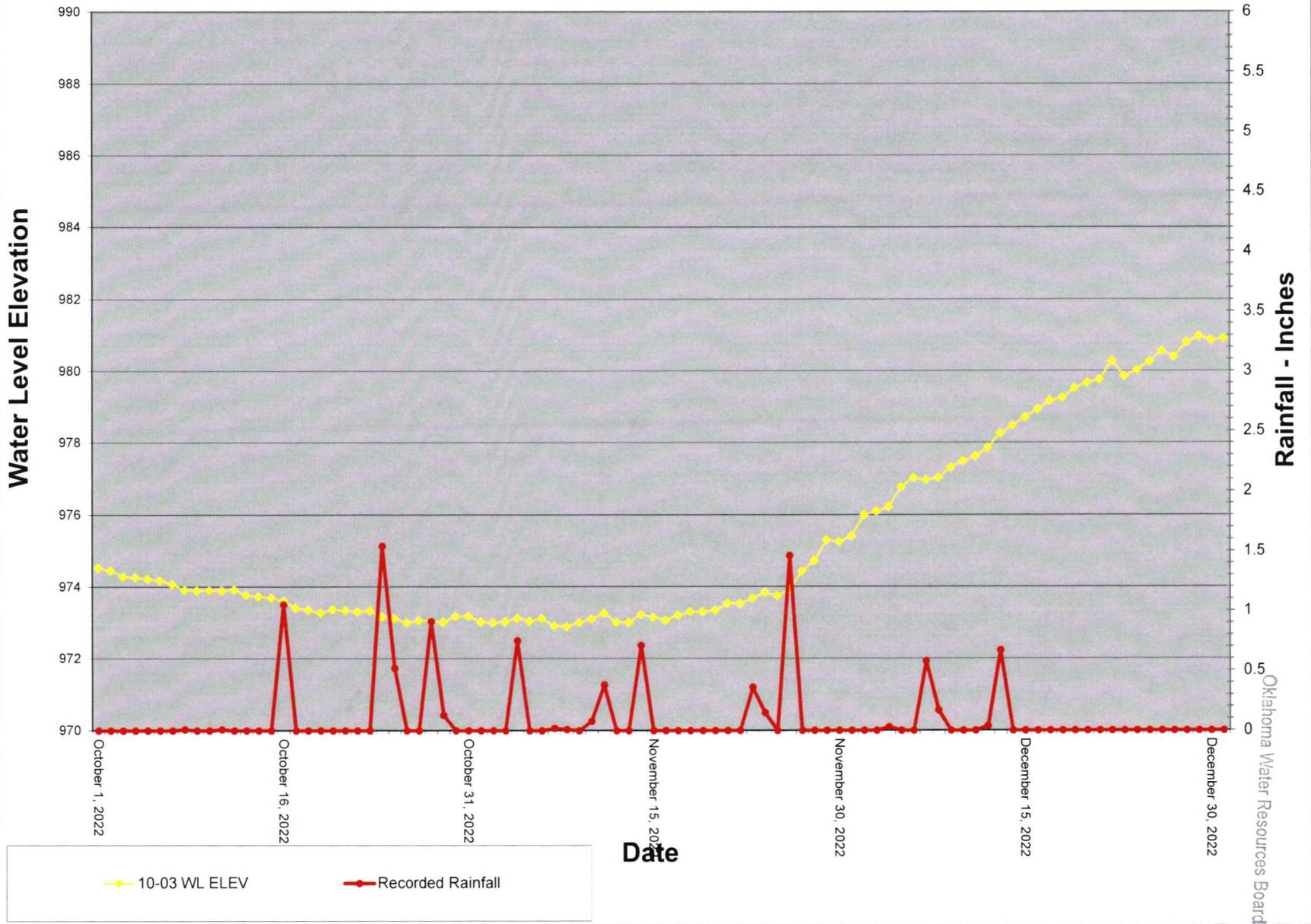
Water Volume Movements			November	December
Pumped from Pit			132.9	221.3
Groundwater Component of Pitwater			42.4	201.1
Quarry dust suppression			0.5	8.7
Q- freshwater pond			132.4	212.5
	To Secondary FM7		63.8	280.2
	To sand Plant FM8		117.5	86.2
	to loadout FM6		276.2	201.9
	to dust control FM9		0.000	0.000
to Plant FM7+FM8+FM6			457.6	568.4
	to stream Augmentation		0.00	0.00
bypass discharge			0.7577021	1.1365532
To Troy FM3			784.9	564.5
To Booster FM2			814.6	575.5
From Troy to Freshwater Pond FM4			67545.0	460.9

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Mill Creek Water Levels 4th Quarter 2022



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Site Martin Marietta - MC Limestone
JID(s) j-GEO-41292
Date Nov 4th 2022 8:51:16 am

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Mill Creek Weather Station - Daily Total Rain
Total Rain 4.17

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j-GEO-41292

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Date	Daily Total Daily Evaporation (in)	
10/1/2022	0	0.1644
10/2/2022	0	0.1918
10/3/2022	0	0.1917
10/4/2022	0	0.2063
10/5/2022	0	0.1936
10/6/2022	0	0.1914
10/7/2022	0	0.1984
10/8/2022	0.01	0.1176
10/9/2022	0	0.1155
10/10/2022	0	0.1758
10/11/2022	0.01	0.1574
10/12/2022	0	0.1944
10/13/2022	0	0.2093
10/14/2022	0	0.2066
10/15/2022	0	0.1639
10/16/2022	1.05	0.1046
10/17/2022	0	0.2022
10/18/2022	0	0.223
10/19/2022	0	0.1817
10/20/2022	0	0.1546
10/21/2022	0	0.1983
10/22/2022	0	0.2377
10/23/2022	0	0.1543
10/24/2022	1.54	0.2124
10/25/2022	0.52	0.1418
10/26/2022	0	0.2189
10/27/2022	0	0.2325
10/28/2022	0.91	0.2112
10/29/2022	0.13	0.1128
10/30/2022	0	0.0569
10/31/2022	0	0.1886

Date	Reference ET, Short (in.)	Reference ET, Tall (in.)	Cool Season Grass ET (in.)	Warm Season Grass ET (in.)	Pan Evapotranspiration (in.)
11/1/2022	0.1	0.14	0.09	0.06	0.12
11/2/2022	0.07	0.1	0.06	0.04	0.09
11/3/2022	0.07	0.1	0.06	0.04	0.09
11/4/2022	0.03	0.03	0.02	0.02	0.03
11/5/2022	0.08	0.11	0.07	0.05	0.1
11/6/2022	0.12	0.18	0.12	0.08	0.16
11/7/2022	0.05	0.08	0.05	0.03	0.07
11/8/2022	0.03	0.04	0.03	0.02	0.04
11/9/2022	0.11	0.16	0.1	0.07	0.14
11/10/2022	0.03	0.03	0.02	0.02	0.03
11/11/2022	0.08	0.13	0.08	0.05	0.12
11/12/2022	0.08	0.13	0.08	0.05	0.11
11/13/2022	0.06	0.09	0.06	0.04	0.08
11/14/2022	0.03	0.04	0.03	0.02	0.04
11/15/2022	0.06	0.08	0.05	0.04	0.07
11/16/2022	0.07	0.1	0.06	0.04	0.09
11/17/2022	0.06	0.08	0.05	0.03	0.07
11/18/2022	0.1	0.15	0.09	0.06	0.14
11/19/2022	0.07	0.1	0.06	0.04	0.09
11/20/2022	0.06	0.08	0.05	0.03	0.07
11/21/2022	0.05	0.07	0.05	0.03	0.06
11/22/2022	0.05	0.07	0.05	0.03	0.06
11/23/2022	0.01	0.01	0.01	0.01	0.01
11/24/2022	0.02	0.02	0.02	0.01	0.02
11/25/2022	0.06	0.09	0.06	0.04	0.08
11/26/2022	0.02	0.03	0.02	0.02	0.03
11/27/2022	0.05	0.07	0.05	0.03	0.07
11/28/2022	0.07	0.1	0.06	0.04	0.08
11/29/2022	0.14	0.22	0.13	0.09	0.21
11/30/2022	0.07	0.1	0.06	0.04	0.09
12/1/2022	0.07	0.11	0.07	0.04	0.1
12/2/2022	0.04	0.06	0.04	0.03	0.06
12/3/2022	0.13	0.21	0.12	0.08	0.19
12/4/2022	0.05	0.07	0.04	0.03	0.06
12/5/2022	0.08	0.12	0.07	0.05	0.1
12/6/2022	0.03	0.03	0.03	0.02	0.03
12/7/2022	0.03	0.04	0.03	0.02	0.04
12/8/2022	0.02	0.03	0.02	0.02	0.03
12/9/2022	0.08	0.11	0.07	0.05	0.1
12/10/2022	0.03	0.04	0.03	0.02	0.04
12/11/2022	0.03	0.03	0.03	0.02	0.03
12/12/2022	0.02	0.02	0.02	0.01	0.03
12/13/2022	0.07	0.1	0.06	0.04	0.09

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12/14/2022	0.07	0.1	0.06	0.04	0.09
12/15/2022	0.07	0.1	0.06	0.04	0.09
12/16/2022	0.06	0.1	0.06	0.04	0.09
12/17/2022	0.06	0.09	0.06	0.04	0.08
12/18/2022	0.06	0.09	0.06	0.04	0.08
12/19/2022	0.06	0.1	0.06	0.04	0.09
12/20/2022	0.05	0.07	0.04	0.03	0.06
12/21/2022	0.04	0.07	0.04	0.03	0.05
12/22/2022	0.06	0.09	0.05	0.04	0.08
12/23/2022	0.03	0.05	0.03	0.02	0.05
12/24/2022	0.03	0.05	0.03	0.02	0.04
12/25/2022	0.05	0.08	0.05	0.03	0.07
12/26/2022	0.09	0.14	0.08	0.05	0.12
12/27/2022	0.06	0.1	0.06	0.04	0.08
12/28/2022	0.12	0.19	0.11	0.07	0.17
12/29/2022	0.07	0.11	0.07	0.05	0.09
12/30/2022	0.07	0.1	0.06	0.04	0.08
12/31/2022	0.08	0.12	0.07	0.05	0.1

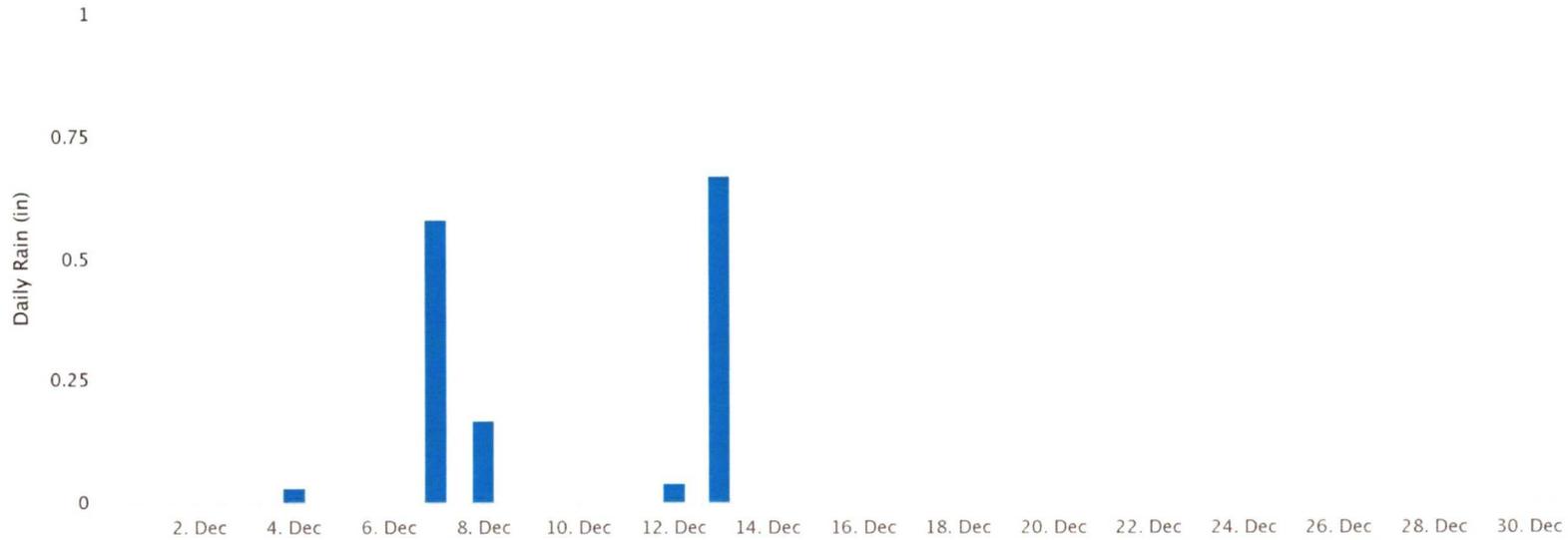
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Martin Marietta Mill Creek Limestone Weather Station – Daily Total Rain

Total Rain: 1.49 (in)



Created: Tue, 03 Jan 2023 08:07:14 -06:00, GSVT Data services

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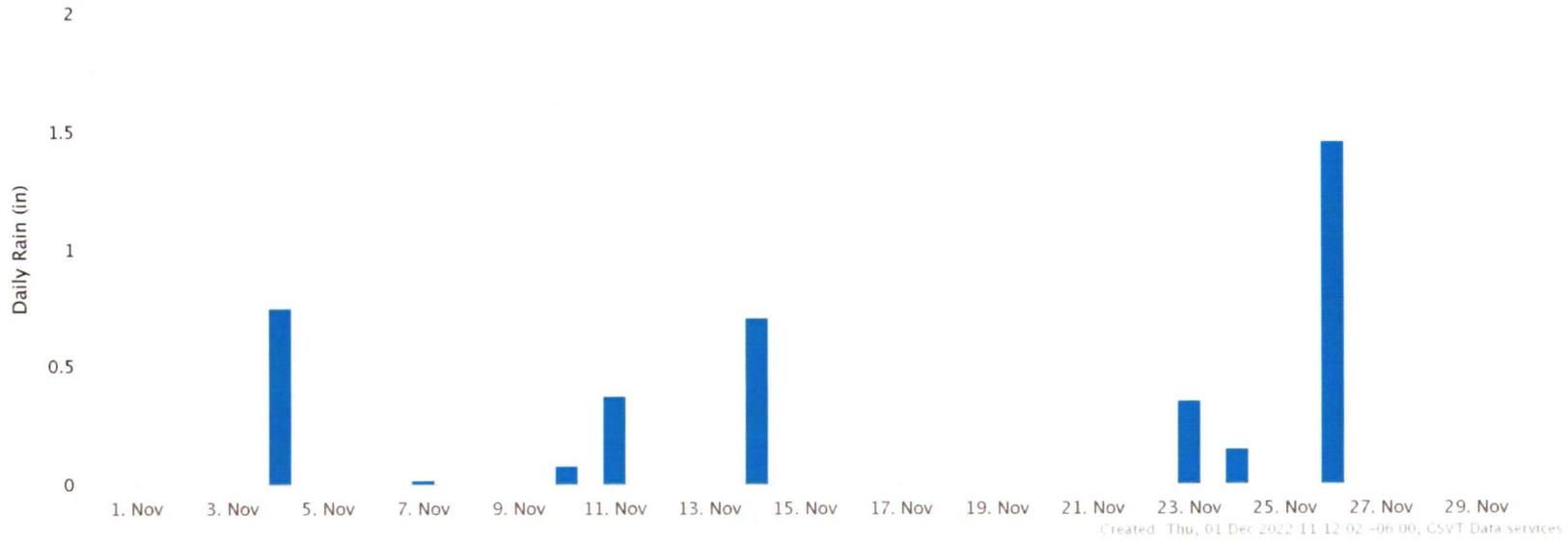
Date	Daily Rain (in)
12/1/2022	0
12/2/2022	0
12/3/2022	0
12/4/2022	0.03
12/5/2022	0
12/6/2022	0
12/7/2022	0.58
12/8/2022	0.17
12/9/2022	0
12/10/2022	0
12/11/2022	0
12/12/2022	0.04

12/13/2022	0.67
12/14/2022	0
12/15/2022	0
12/16/2022	0
12/17/2022	0
12/18/2022	0
12/19/2022	0
12/20/2022	0
12/21/2022	0
12/22/2022	0
12/23/2022	0
12/24/2022	0
12/25/2022	0

12/26/2022	0
12/27/2022	0
12/28/2022	0
12/29/2022	0
12/30/2022	0
12/31/2022	0

Martin Marietta Mill Creek Limestone Weather Station – Daily Total Rain

Total Rain: 3.92 (in)



Date	Daily Rain (in)
11/1/2022	0
11/2/2022	0
11/3/2022	0
11/4/2022	0.75
11/5/2022	0
11/6/2022	0
11/7/2022	0.02
11/8/2022	0.01
11/9/2022	0
11/10/2022	0.08
11/11/2022	0.38

11/12/2022	0
11/13/2022	0
11/14/2022	0.71
11/15/2022	0
11/16/2022	0
11/17/2022	0
11/18/2022	0
11/19/2022	0
11/20/2022	0
11/21/2022	0
11/22/2022	0
11/23/2022	0.36
11/24/2022	0.15

11/25/2022	0
11/26/2022	1.46
11/27/2022	0
11/28/2022	0
11/29/2022	0
11/30/2022	0

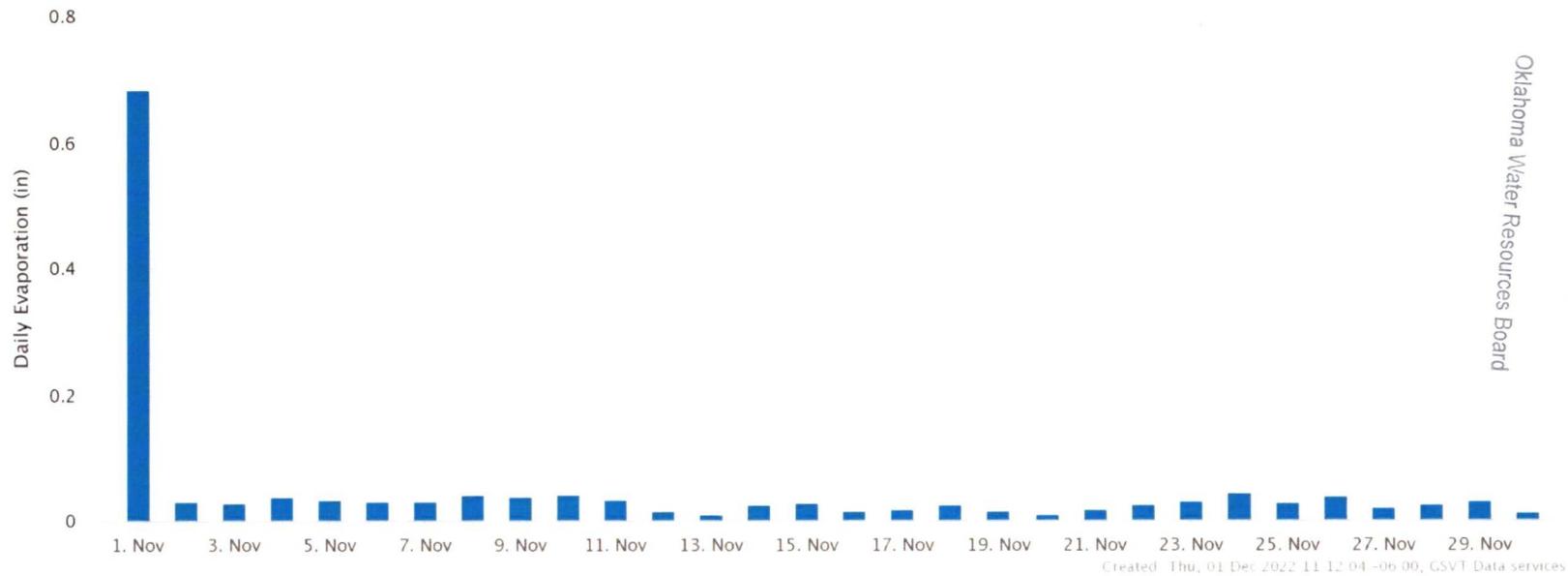
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Created: Thu, 01 Dec 2022 11:12:02 -06:00, GSVT Data services

Martin Marietta Mill Creek Limestone Weather Station – Daily Evaporation



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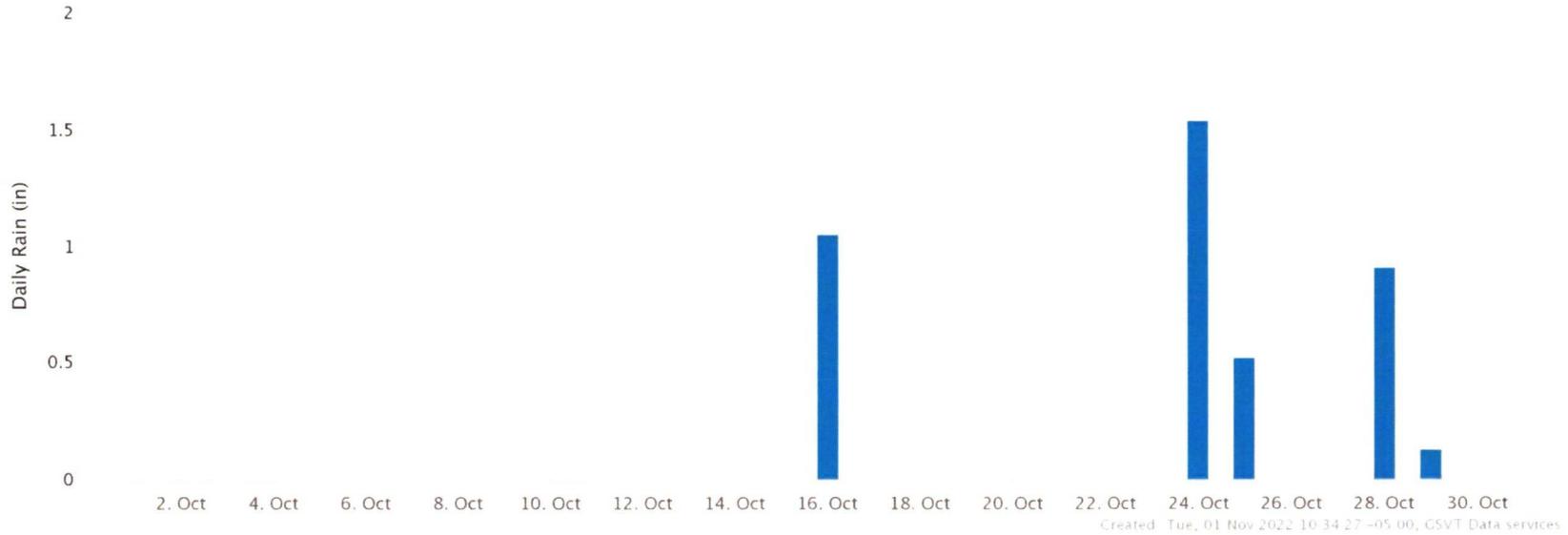
Date	Daily Evaporation (in)
11/1/2022	0.684
11/2/2022	0.0312
11/3/2022	0.0278
11/4/2022	0.0381
11/5/2022	0.0347
11/6/2022	0.0299
11/7/2022	0.0302
11/8/2022	0.0402
11/9/2022	0.0378

11/10/2022	0.0403
11/11/2022	0.0334
11/12/2022	0.0163
11/13/2022	0.0094
11/14/2022	0.0269
11/15/2022	0.0278
11/16/2022	0.0155
11/17/2022	0.0182
11/18/2022	0.0248
11/19/2022	0.0144
11/20/2022	0.0091

11/21/2022	0.019
11/22/2022	0.0262
11/23/2022	0.0302
11/24/2022	0.0426
11/25/2022	0.0291
11/26/2022	0.0394
11/27/2022	0.021
11/28/2022	0.0254
11/29/2022	0.0302
11/30/2022	0.0126

Martin Marietta Mill Creek Limestone Weather Station – Daily Total Rain

Total Rain: 4.17 (in)



Date	Daily Rain (in)
10/1/2022	0
10/2/2022	0
10/3/2022	0
10/4/2022	0
10/5/2022	0
10/6/2022	0
10/7/2022	0
10/8/2022	0.01
10/9/2022	0
10/10/2022	0
10/11/2022	0.01
10/12/2022	0

10/13/2022	0
10/14/2022	0
10/15/2022	0
10/16/2022	1.05
10/17/2022	0
10/18/2022	0
10/19/2022	0
10/20/2022	0
10/21/2022	0
10/22/2022	0
10/23/2022	0
10/24/2022	1.54
10/25/2022	0.52

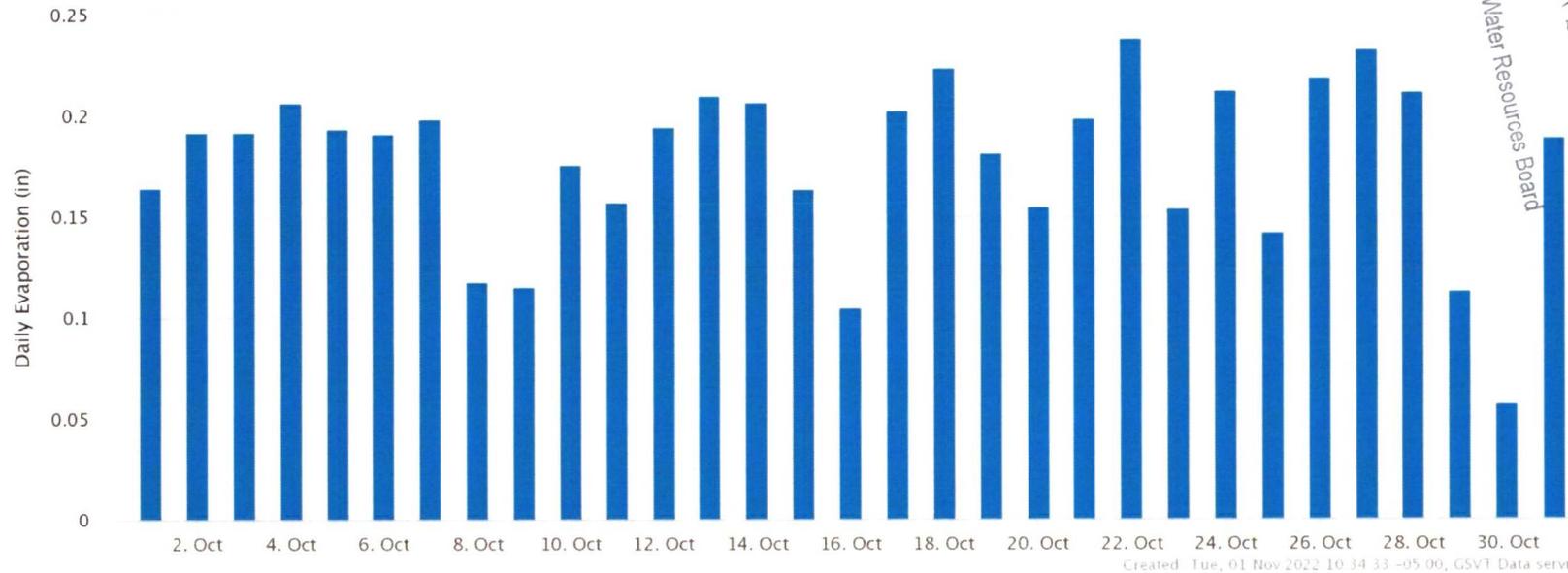
10/26/2022	0
10/27/2022	0
10/28/2022	0.91
10/29/2022	0.13
10/30/2022	0
10/31/2022	0

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Martin Marietta Mill Creek Limestone Weather Station – Daily Evaporation



Created Tue, 01 Nov 2022 10:34:33 -05:00, GSVT Data services

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Date	Daily Evaporation (in)
10/1/2022	0.1644
10/2/2022	0.1918
10/3/2022	0.1917
10/4/2022	0.2063
10/5/2022	0.1936
10/6/2022	0.1914
10/7/2022	0.1984
10/8/2022	0.1176
10/9/2022	0.1155

10/10/2022	0.1758
10/11/2022	0.1574
10/12/2022	0.1944
10/13/2022	0.2093
10/14/2022	0.2066
10/15/2022	0.1639
10/16/2022	0.1046
10/17/2022	0.2022
10/18/2022	0.223
10/19/2022	0.1817
10/20/2022	0.1546

10/21/2022	0.1983
10/22/2022	0.2377
10/23/2022	0.1543
10/24/2022	0.2124
10/25/2022	0.1418
10/26/2022	0.2189
10/27/2022	0.2325
10/28/2022	0.2112
10/29/2022	0.1128
10/30/2022	0.0569
10/31/2022	0.1886

Quarter Summary	4th Qtr
Total Tons Shipped	1,140,000
Total Acre Feet	24.16
Average Moisture %	2.88%

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# 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_waterdata_support@usgs.gov
# retrieved: 2022-12-16 16:31:05 EST (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
# 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.
# P Provisional data subject to revision.
#

```

agency_cd	site_no	datetime	111780_00060_00003	111780_00060_00003_cd
5s	15s	20d	14n	10s
USGS	07331200		2022-10-01	0.01 A
USGS	07331200		2022-10-02	0.21 A
USGS	07331200		2022-10-03	0.43 A
USGS	07331200		2022-10-04	0.19 A
USGS	07331200		2022-10-05	0.10 A
USGS	07331200		2022-10-06	0.15 P
USGS	07331200		2022-10-07	0.25 P
USGS	07331200		2022-10-08	0.28 P
USGS	07331200		2022-10-09	0.52 P
USGS	07331200		2022-10-10	0.49 P
USGS	07331200		2022-10-11	0.27 P
USGS	07331200		2022-10-12	0.11 P
USGS	07331200		2022-10-13	0.02 P
USGS	07331200		2022-10-14	0.00 P
USGS	07331200		2022-10-15	0.18 P
USGS	07331200		2022-10-16	2.19 P
USGS	07331200		2022-10-17	1.28 P
USGS	07331200		2022-10-18	0.71 P
USGS	07331200		2022-10-19	0.68 P
USGS	07331200		2022-10-20	0.95 P
USGS	07331200		2022-10-21	0.65 P
USGS	07331200		2022-10-22	0.44 P
USGS	07331200		2022-10-23	0.43 P
USGS	07331200		2022-10-24	2.31 P
USGS	07331200		2022-10-25	3.62 P
USGS	07331200		2022-10-26	1.51 P
USGS	07331200		2022-10-27	0.99 P
USGS	07331200		2022-10-28	1.18 P
USGS	07331200		2022-10-29	1.99 P
USGS	07331200		2022-10-30	1.54 P
USGS	07331200		2022-10-31	1.17 P

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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
 #
 # Contact: gs-w_waterdata_support@usgs.gov
 # retrieved: 2022-12-16 16:30:09 EST (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
 # 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
5s	15s	20d	14n	10s
USGS	07331200	2022-11-01	0.47	P
USGS	07331200	2022-11-02	0.24	P
USGS	07331200	2022-11-03	0.23	P
USGS	07331200	2022-11-04	1.31	P
USGS	07331200	2022-11-05	1.36	P
USGS	07331200	2022-11-06	0.98	P
USGS	07331200	2022-11-07	1.25	P
USGS	07331200	2022-11-08	1.21	P
USGS	07331200	2022-11-09	1.10	P
USGS	07331200	2022-11-10	0.70	P
USGS	07331200	2022-11-11	2.74	P
USGS	07331200	2022-11-12	1.83	P
USGS	07331200	2022-11-13	1.42	P
USGS	07331200	2022-11-14	2.67	P
USGS	07331200	2022-11-15	2.62	P
USGS	07331200	2022-11-16	1.87	P
USGS	07331200	2022-11-17	1.82	P
USGS	07331200	2022-11-18	1.43	P
USGS	07331200	2022-11-19	1.79	P
USGS	07331200	2022-11-20	1.75	P
USGS	07331200	2022-11-21	1.61	P
USGS	07331200	2022-11-22	1.13	P
USGS	07331200	2022-11-23	1.87	P
USGS	07331200	2022-11-24	4.28	P
USGS	07331200	2022-11-25	2.87	P
USGS	07331200	2022-11-26	17.4	P
USGS	07331200	2022-11-27	6.05	P
USGS	07331200	2022-11-28	4.12	P
USGS	07331200	2022-11-29	3.21	P
USGS	07331200	2022-11-30	2.72	P

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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
 #
 # Contact: gs-w_waterdata_support@usgs.gov
 # retrieved: 2023-02-17 18:25:35 EST (caww01)
 #

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.
 # P Provisional data subject to revision.
 # e Value has been estimated.
 #

agency_cd	site_no	datetime	111780_00060_00003	111780_00060_00003_cd
5s	15s	20d	14n	10s
USGS	07331200		2021-12-01	0.88 A
USGS	07331200		2021-12-02	0.91 A
USGS	07331200		2021-12-03	1.06 A
USGS	07331200		2021-12-04	4.01 A
USGS	07331200		2021-12-05	3.50 A
USGS	07331200		2021-12-06	2.51 A
USGS	07331200		2021-12-07	1.99 A
USGS	07331200		2021-12-08	1.49 A
USGS	07331200		2021-12-09	1.24 A:e
USGS	07331200		2021-12-10	0.91 A:e
USGS	07331200		2021-12-11	0.78 A
USGS	07331200		2021-12-12	0.74 A
USGS	07331200		2021-12-13	0.81 A
USGS	07331200		2021-12-14	0.82 A:e
USGS	07331200		2021-12-15	0.93 A:e
USGS	07331200		2021-12-16	0.85 A
USGS	07331200		2021-12-17	1.13 A:e
USGS	07331200		2021-12-18	3.23 A
USGS	07331200		2021-12-19	1.01 A
USGS	07331200		2021-12-20	0.98 A
USGS	07331200		2021-12-21	1.06 A
USGS	07331200		2021-12-22	1.00 A
USGS	07331200		2021-12-23	0.81 A:e
USGS	07331200		2021-12-24	0.93 A:e
USGS	07331200		2021-12-25	0.86 A:e
USGS	07331200		2021-12-26	0.84 A
USGS	07331200		2021-12-27	0.81 A
USGS	07331200		2021-12-28	1.17 A
USGS	07331200		2021-12-29	1.50 A
USGS	07331200		2021-12-30	1.87 A
USGS	07331200		2021-12-31	2.40 A

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USGS	07331200	2022-01-01	2.94	A
USGS	07331200	2022-01-02	1.73	A
USGS	07331200	2022-01-03	1.32	A
USGS	07331200	2022-01-04	1.06	A
USGS	07331200	2022-01-05	0.91	A
USGS	07331200	2022-01-06	0.71	A
USGS	07331200	2022-01-07	0.83	A
USGS	07331200	2022-01-08	0.97	A
USGS	07331200	2022-01-09	0.82	A
USGS	07331200	2022-01-10	0.61	A
USGS	07331200	2022-01-11	0.67	A:e
USGS	07331200	2022-01-12	0.57	A
USGS	07331200	2022-01-13	0.72	A
USGS	07331200	2022-01-14	0.78	A
USGS	07331200	2022-01-15	0.77	A
USGS	07331200	2022-01-16	0.70	A
USGS	07331200	2022-01-17	0.51	A
USGS	07331200	2022-01-18	0.44	A:e
USGS	07331200	2022-01-19	0.60	A:e
USGS	07331200	2022-01-20	0.73	A:e
USGS	07331200	2022-01-21	0.80	A
USGS	07331200	2022-01-22	0.92	A
USGS	07331200	2022-01-23	0.99	A
USGS	07331200	2022-01-24	2.06	A
USGS	07331200	2022-01-25	2.55	A
USGS	07331200	2022-01-26	2.11	A
USGS	07331200	2022-01-27	1.33	A
USGS	07331200	2022-01-28	1.37	A
USGS	07331200	2022-01-29	0.99	A
USGS	07331200	2022-01-30	0.62	A
USGS	07331200	2022-01-31	0.48	A
USGS	07331200	2022-02-01	0.66	A
USGS	07331200	2022-02-02	0.88	A
USGS	07331200	2022-02-03	1.14	A
USGS	07331200	2022-02-04	0.70	A
USGS	07331200	2022-02-05	0.69	A
USGS	07331200	2022-02-06	0.74	A
USGS	07331200	2022-02-07	0.75	A
USGS	07331200	2022-02-08	0.47	A
USGS	07331200	2022-02-09	0.39	A
USGS	07331200	2022-02-10	0.47	A
USGS	07331200	2022-02-11	3.22	A
USGS	07331200	2022-02-12	3.99	A
USGS	07331200	2022-02-13	2.46	A
USGS	07331200	2022-02-14	1.47	A
USGS	07331200	2022-02-15	0.92	A
USGS	07331200	2022-02-16	0.64	A:e
USGS	07331200	2022-02-17	0.72	A
USGS	07331200	2022-02-18	0.54	A
USGS	07331200	2022-02-19	0.74	A
USGS	07331200	2022-02-20	0.43	A:e
USGS	07331200	2022-02-21	0.45	A
USGS	07331200	2022-02-22	0.79	A
USGS	07331200	2022-02-23	0.71	A
USGS	07331200	2022-02-24	0.64	A
USGS	07331200	2022-02-25	1.38	A
USGS	07331200	2022-02-26	1.65	A
USGS	07331200	2022-02-27	1.96	A
USGS	07331200	2022-02-28	1.91	A
USGS	07331200	2022-03-01	1.64	A
USGS	07331200	2022-03-02	2.14	A
USGS	07331200	2022-03-03	2.36	A

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USGS	07331200	2022-03-04	2.08	A
USGS	07331200	2022-03-05	1.93	A:e
USGS	07331200	2022-03-06	1.94	A
USGS	07331200	2022-03-07	3.18	A
USGS	07331200	2022-03-08	2.17	A
USGS	07331200	2022-03-09	2.44	A
USGS	07331200	2022-03-10	2.75	A
USGS	07331200	2022-03-11	2.26	A
USGS	07331200	2022-03-12	2.69	A
USGS	07331200	2022-03-13	2.24	A:e
USGS	07331200	2022-03-14	2.66	A
USGS	07331200	2022-03-15	2.99	A
USGS	07331200	2022-03-16	3.41	A
USGS	07331200	2022-03-17	2.79	A
USGS	07331200	2022-03-18	2.22	A
USGS	07331200	2022-03-19	1.82	A
USGS	07331200	2022-03-20	1.51	A
USGS	07331200	2022-03-21	1.80	A
USGS	07331200	2022-03-22	1.87	A
USGS	07331200	2022-03-23	1.24	A
USGS	07331200	2022-03-24	1.13	A
USGS	07331200	2022-03-25	1.14	A
USGS	07331200	2022-03-26	0.93	A
USGS	07331200	2022-03-27	1.28	A
USGS	07331200	2022-03-28	1.16	A
USGS	07331200	2022-03-29	0.64	A
USGS	07331200	2022-03-30	1.13	A
USGS	07331200	2022-03-31	0.74	A
USGS	07331200	2022-04-01	0.75	A
USGS	07331200	2022-04-02	1.51	A
USGS	07331200	2022-04-03	1.64	A
USGS	07331200	2022-04-04	2.16	A
USGS	07331200	2022-04-05	2.27	A
USGS	07331200	2022-04-06	1.57	A
USGS	07331200	2022-04-07	1.51	A
USGS	07331200	2022-04-08	1.37	A
USGS	07331200	2022-04-09	1.06	A:e
USGS	07331200	2022-04-10	1.03	A
USGS	07331200	2022-04-11	0.94	A
USGS	07331200	2022-04-12	1.22	A
USGS	07331200	2022-04-13	1.53	A:e
USGS	07331200	2022-04-14	1.50	A
USGS	07331200	2022-04-15	2.25	A
USGS	07331200	2022-04-16	2.13	A
USGS	07331200	2022-04-17	1.81	A
USGS	07331200	2022-04-18	1.51	A
USGS	07331200	2022-04-19	1.56	A
USGS	07331200	2022-04-20	1.56	A
USGS	07331200	2022-04-21	1.41	A
USGS	07331200	2022-04-22	1.43	A
USGS	07331200	2022-04-23	1.24	A
USGS	07331200	2022-04-24	3.17	A
USGS	07331200	2022-04-25	6.14	A
USGS	07331200	2022-04-26	4.56	A
USGS	07331200	2022-04-27	2.88	A
USGS	07331200	2022-04-28	1.59	A
USGS	07331200	2022-04-29	1.17	A
USGS	07331200	2022-04-30	0.77	A
USGS	07331200	2022-05-01	1.00	A
USGS	07331200	2022-05-02	1.60	A
USGS	07331200	2022-05-03	1.80	A
USGS	07331200	2022-05-04	1.32	A

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USGS	07331200	2022-05-05	1.47	A
USGS	07331200	2022-05-06	5.34	A
USGS	07331200	2022-05-07	7.20	A
USGS	07331200	2022-05-08	5.35	A
USGS	07331200	2022-05-09	3.92	A
USGS	07331200	2022-05-10	2.79	A
USGS	07331200	2022-05-11	1.88	A
USGS	07331200	2022-05-12	1.84	A
USGS	07331200	2022-05-13	2.33	A
USGS	07331200	2022-05-14	2.26	A
USGS	07331200	2022-05-15	2.66	A
USGS	07331200	2022-05-16	2.41	A
USGS	07331200	2022-05-17	0.76	A
USGS	07331200	2022-05-18	4.39	A
USGS	07331200	2022-05-19	5.79	A
USGS	07331200	2022-05-20	3.69	A
USGS	07331200	2022-05-21	2.29	A
USGS	07331200	2022-05-22	1.18	A
USGS	07331200	2022-05-23	0.54	A
USGS	07331200	2022-05-24	18.7	A
USGS	07331200	2022-05-25	89.6	A
USGS	07331200	2022-05-26	25.7	A
USGS	07331200	2022-05-27	13.6	A
USGS	07331200	2022-05-28	10.2	A
USGS	07331200	2022-05-29	8.66	A
USGS	07331200	2022-05-30	8.16	A
USGS	07331200	2022-05-31	7.57	A
USGS	07331200	2022-06-01	7.66	A
USGS	07331200	2022-06-02	14.0	A
USGS	07331200	2022-06-03	8.28	A
USGS	07331200	2022-06-04	7.54	A
USGS	07331200	2022-06-05	6.64	A
USGS	07331200	2022-06-06	5.60	A
USGS	07331200	2022-06-07	4.97	A
USGS	07331200	2022-06-08	6.08	A
USGS	07331200	2022-06-09	13.0	A
USGS	07331200	2022-06-10	11.2	A
USGS	07331200	2022-06-11	6.98	A
USGS	07331200	2022-06-12	5.15	A
USGS	07331200	2022-06-13	3.53	A
USGS	07331200	2022-06-14	2.92	A
USGS	07331200	2022-06-15	2.53	A
USGS	07331200	2022-06-16	1.96	A
USGS	07331200	2022-06-17	4.45	A
USGS	07331200	2022-06-18	3.98	A
USGS	07331200	2022-06-19	3.22	A
USGS	07331200	2022-06-20	2.44	A
USGS	07331200	2022-06-21	1.57	A
USGS	07331200	2022-06-22	1.45	A
USGS	07331200	2022-06-23	1.31	A
USGS	07331200	2022-06-24	1.11	A
USGS	07331200	2022-06-25	1.37	A
USGS	07331200	2022-06-26	1.39	A
USGS	07331200	2022-06-27	1.50	A
USGS	07331200	2022-06-28	1.67	A
USGS	07331200	2022-06-29	1.35	A
USGS	07331200	2022-06-30	1.40	A
USGS	07331200	2022-07-01	0.99	A
USGS	07331200	2022-07-02	1.08	A
USGS	07331200	2022-07-03	1.18	A
USGS	07331200	2022-07-04	1.12	A
USGS	07331200	2022-07-05	0.95	A

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USGS	07331200	2022-07-06	0.69	A
USGS	07331200	2022-07-07	0.56	A
USGS	07331200	2022-07-08	0.47	A
USGS	07331200	2022-07-09	0.67	A
USGS	07331200	2022-07-10	1.05	A
USGS	07331200	2022-07-11	1.01	A
USGS	07331200	2022-07-12	0.67	A
USGS	07331200	2022-07-13	0.37	A
USGS	07331200	2022-07-14	0.65	A
USGS	07331200	2022-07-15	0.90	A
USGS	07331200	2022-07-16	0.74	A
USGS	07331200	2022-07-17	0.90	A
USGS	07331200	2022-07-18	0.82	A
USGS	07331200	2022-07-19	0.62	A
USGS	07331200	2022-07-20	0.51	A
USGS	07331200	2022-07-21	0.87	A
USGS	07331200	2022-07-22	1.28	A
USGS	07331200	2022-07-23	0.87	A
USGS	07331200	2022-07-24	0.89	A
USGS	07331200	2022-07-25	0.76	A
USGS	07331200	2022-07-26	0.50	A
USGS	07331200	2022-07-27	0.17	A
USGS	07331200	2022-07-28	0.14	A
USGS	07331200	2022-07-29	0.14	A
USGS	07331200	2022-07-30	0.75	A
USGS	07331200	2022-07-31	1.05	A
USGS	07331200	2022-08-01	0.88	A
USGS	07331200	2022-08-02	0.91	A
USGS	07331200	2022-08-03	0.52	A
USGS	07331200	2022-08-04	0.22	A
USGS	07331200	2022-08-05	0.24	A
USGS	07331200	2022-08-06	0.38	A
USGS	07331200	2022-08-07	0.44	A
USGS	07331200	2022-08-08	0.51	A
USGS	07331200	2022-08-09	0.41	A
USGS	07331200	2022-08-10	0.27	A
USGS	07331200	2022-08-11	0.25	A
USGS	07331200	2022-08-12	0.12	A
USGS	07331200	2022-08-13	0.45	A
USGS	07331200	2022-08-14	0.50	A
USGS	07331200	2022-08-15	0.39	A
USGS	07331200	2022-08-16	0.14	A
USGS	07331200	2022-08-17	0.05	A
USGS	07331200	2022-08-18	0.08	A
USGS	07331200	2022-08-19	0.10	A
USGS	07331200	2022-08-20	0.11	A
USGS	07331200	2022-08-21	1.12	A
USGS	07331200	2022-08-22	1.07	A
USGS	07331200	2022-08-23	0.69	A
USGS	07331200	2022-08-24	0.47	A
USGS	07331200	2022-08-25	0.45	A
USGS	07331200	2022-08-26	0.43	A
USGS	07331200	2022-08-27	0.35	A
USGS	07331200	2022-08-28	0.40	A
USGS	07331200	2022-08-29	0.44	A
USGS	07331200	2022-08-30	0.25	A
USGS	07331200	2022-08-31	0.26	A
USGS	07331200	2022-09-01	0.59	A
USGS	07331200	2022-09-02	0.87	A
USGS	07331200	2022-09-03	0.62	A
USGS	07331200	2022-09-04	0.42	A
USGS	07331200	2022-09-05	0.37	A

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USGS	07331200	2022-09-06	0.30	A
USGS	07331200	2022-09-07	0.18	A
USGS	07331200	2022-09-08	0.10	A
USGS	07331200	2022-09-09	0.03	A
USGS	07331200	2022-09-10	0.01	A
USGS	07331200	2022-09-11	0.13	A
USGS	07331200	2022-09-12	0.43	A
USGS	07331200	2022-09-13	0.27	A
USGS	07331200	2022-09-14	0.38	A
USGS	07331200	2022-09-15	0.19	A
USGS	07331200	2022-09-16	0.15	A
USGS	07331200	2022-09-17	0.05	A
USGS	07331200	2022-09-18	0.14	A
USGS	07331200	2022-09-19	0.07	A
USGS	07331200	2022-09-20	0.06	A
USGS	07331200	2022-09-21	0.00	A
USGS	07331200	2022-09-22	0.00	A
USGS	07331200	2022-09-23	0.00	A
USGS	07331200	2022-09-24	0.28	A
USGS	07331200	2022-09-25	0.44	A
USGS	07331200	2022-09-26	0.14	A
USGS	07331200	2022-09-27	0.15	A
USGS	07331200	2022-09-28	0.09	A
USGS	07331200	2022-09-29	0.34	A
USGS	07331200	2022-09-30	0.20	A
USGS	07331200	2022-10-01	0.01	A
USGS	07331200	2022-10-02	0.21	A
USGS	07331200	2022-10-03	0.43	A
USGS	07331200	2022-10-04	0.19	A
USGS	07331200	2022-10-05	0.10	A
USGS	07331200	2022-10-06	0.15	A
USGS	07331200	2022-10-07	0.24	A
USGS	07331200	2022-10-08	0.26	A
USGS	07331200	2022-10-09	0.49	A
USGS	07331200	2022-10-10	0.44	A
USGS	07331200	2022-10-11	0.23	A
USGS	07331200	2022-10-12	0.08	A
USGS	07331200	2022-10-13	0.01	A
USGS	07331200	2022-10-14	0.00	A
USGS	07331200	2022-10-15	0.14	A
USGS	07331200	2022-10-16	2.00	A
USGS	07331200	2022-10-17	1.12	A
USGS	07331200	2022-10-18	0.57	A
USGS	07331200	2022-10-19	0.53	A
USGS	07331200	2022-10-20	0.76	A
USGS	07331200	2022-10-21	0.49	A
USGS	07331200	2022-10-22	0.29	A
USGS	07331200	2022-10-23	0.28	A
USGS	07331200	2022-10-24	2.00	A
USGS	07331200	2022-10-25	3.18	A
USGS	07331200	2022-10-26	1.18	A
USGS	07331200	2022-10-27	0.71	A
USGS	07331200	2022-10-28	0.88	A
USGS	07331200	2022-10-29	1.57	A
USGS	07331200	2022-10-30	1.15	A
USGS	07331200	2022-10-31	0.82	A
USGS	07331200	2022-11-01	0.25	A
USGS	07331200	2022-11-02	0.09	A
USGS	07331200	2022-11-03	0.08	A
USGS	07331200	2022-11-04	0.94	A
USGS	07331200	2022-11-05	0.92	A
USGS	07331200	2022-11-06	0.59	A

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USGS	07331200	2022-11-07	0.79	A
USGS	07331200	2022-11-08	0.75	A
USGS	07331200	2022-11-09	0.67	A
USGS	07331200	2022-11-10	0.34	A
USGS	07331200	2022-11-11	2.01	A
USGS	07331200	2022-11-12	1.21	A
USGS	07331200	2022-11-13	0.86	A
USGS	07331200	2022-11-14	1.90	A
USGS	07331200	2022-11-15	1.83	A
USGS	07331200	2022-11-16	1.17	A
USGS	07331200	2022-11-17	1.13	A
USGS	07331200	2022-11-18	0.80	A
USGS	07331200	2022-11-19	1.06	A
USGS	07331200	2022-11-20	1.01	A
USGS	07331200	2022-11-21	0.90	A
USGS	07331200	2022-11-22	0.53	A
USGS	07331200	2022-11-23	1.08	A
USGS	07331200	2022-11-24	3.07	A
USGS	07331200	2022-11-25	1.85	A
USGS	07331200	2022-11-26	15.4	A
USGS	07331200	2022-11-27	4.56	A
USGS	07331200	2022-11-28	2.84	A
USGS	07331200	2022-11-29	2.06	A
USGS	07331200	2022-11-30	1.64	A
USGS	07331200	2022-12-01	2.28	A
USGS	07331200	2022-12-02	2.21	A
USGS	07331200	2022-12-03	1.52	A
USGS	07331200	2022-12-04	1.47	A
USGS	07331200	2022-12-05	1.45	A
USGS	07331200	2022-12-06	1.34	A
USGS	07331200	2022-12-07	1.22	A
USGS	07331200	2022-12-08	2.90	A
USGS	07331200	2022-12-09	2.53	A
USGS	07331200	2022-12-10	2.17	A
USGS	07331200	2022-12-11	2.22	A
USGS	07331200	2022-12-12	2.21	A
USGS	07331200	2022-12-13	11.6	A
USGS	07331200	2022-12-14	3.49	A
USGS	07331200	2022-12-15	2.79	P
USGS	07331200	2022-12-16	2.50	P
USGS	07331200	2022-12-17	2.05	P
USGS	07331200	2022-12-18	2.11	P
USGS	07331200	2022-12-19	2.26	P
USGS	07331200	2022-12-20	1.73	P
USGS	07331200	2022-12-21	1.89	P
USGS	07331200	2022-12-22	1.92	P
USGS	07331200	2022-12-23	1.09	P
USGS	07331200	2022-12-24	1.19	P
USGS	07331200	2022-12-25	1.47	P
USGS	07331200	2022-12-26	1.50	P
USGS	07331200	2022-12-27	1.93	P
USGS	07331200	2022-12-28	2.11	P
USGS	07331200	2022-12-29	1.47	P
USGS	07331200	2022-12-30	1.73	P
USGS	07331200	2022-12-31	1.30	P

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

October 2022
 Nearest City: 6.0 N Tishomingo
 Longitude: 96-40-44

Time Zone: Midnight-Midnight CST
 County: Johnston
 Elevation: 879 feet
 Oklahoma Water Resources Board

DAY	TEMPERATURE (F)		DEG DAYS HDD CDD	HUMIDITY (%)		RAIN (in)	PRESSURE (in)		WIND SPEED (mph)		SOLAR (MJ/m2)		4" SOIL TEMPERATURES				
	MAX	MIN		AVG	DEWPT		MAX	MIN	STN	MSL	DIR	AVG	MAX	SOD	BARE	MAX	MIN
1	83	43	62.7	39.1	87	17	49	0.00	29.13	NNW	3.7	20.60	75.6	75.5	87	66	
2	86	44	64.3	39.6	79	17	46	0.00	29.22	N	3.7	20.02	75.4	75.5	87	66	
3	85	47	65.4	41.5	79	20	47	0.00	29.23	NNW	4.1	19.80	75.5	75.7	87	66	
4	85	50	66.4	44.4	76	23	49	0.00	29.16	S	4.3	19.47	75.6	75.8	87	67	
5	88	48	67.1	44.8	86	21	50	0.00	29.16	S	3.5	18.62	75.6	76.1	87	67	
6	89	57	74.0	46.5	62	23	40	0.00	29.21	N	5.6	15.84	76.7	77.9	87	71	
7	83	58	70.6	47.7	65	28	46	0.00	29.31	N	7.5	10.78	76.5	76.7	84	72	
8	65	52	58.4	42.4	85	42	56	0.02	29.41	NNE	6.9	5.18	73.3	70.3	75	67	
9	77	52	62.6	51.0	87	45	67	0.00	29.32	NW	3.2	12.1	72.3	70.7	79	66	
10	84	55	68.8	56.7	90	40	68	0.01	29.20	E	4.6	20.5	73.7	73.3	82	67	
11	80	62	69.4	57.4	80	45	67	0.01	29.08	SSE	7.6	27.1	73.6	72.5	77	69	
12	88	64	74.0	52.0	82	23	50	0.00	28.97	N	9.5	22.2	75.0	75.9	86	69	
13	78	47	63.0	30.7	59	14	33	0.00	29.11	NNE	7.6	21.1	73.3	72.7	82	66	
14	87	46	67.3	34.9	64	15	34	0.00	28.99	WSW	7.4	25.9	71.8	71.4	82	62	
15	92	55	74.5	55.8	80	31	54	0.00	28.98	S	7.2	23.8	74.0	75.0	85	66	
16	73	62	64.9	57.7	97	50	78	1.02	29.13	N	8.7	33.9	72.2	69.8	76	64	
17	63	45	56.4	32.7	66	24	42	0.00	29.24	NNE	11.3	26.2	68.0	61.4	67	55	
18	59	34	46.8	20.7	74	17	39	0.00	29.34	N	9.2	25.8	62.7	56.3	66	49	
19	64	30	46.0	26.0	88	20	52	0.00	29.30	SSE	4.0	14.4	60.0	56.2	69	46	
20	75	39	54.1	39.2	91	29	62	0.00	29.02	E	3.5	11.6	61.4	60.4	74	50	
21	90	40	65.2	44.6	96	19	56	0.00	28.91	S	8.2	23.5	63.1	64.4	77	53	
22	84	63	73.6	55.8	80	41	55	0.00	28.80	S	17.9	39.2	66.2	70.2	78	63	
23	84	65	74.5	59.9	87	44	62	0.00	28.83	SSE	17.8	37.4	68.4	72.4	80	67	
24	73	56	63.5	59.7	98	56	89	1.48	28.80	SSE	10.5	36.8	67.7	68.1	72	63	
25	65	42	54.0	41.4	96	29	68	0.29	28.95	NW	10.5	39.2	63.6	59.9	64	55	
26	69	42	55.2	37.1	96	27	55	0.00	29.12	E	6.0	17.2	61.7	57.0	66	51	
27	69	45	56.4	40.7	82	36	57	0.00	29.07	ESE	7.8	22.7	61.2	56.3	63	51	
28	57	51	53.0	48.2	96	56	84	0.96	29.19	NNE	7.7	32.2	60.3	55.5	56	55	
29	61	53	56.5	54.2	98	82	92	0.13	29.10	N	9.3	19.7	60.6	57.4	60	55	
30	70	50	58.8	52.1	98	54	80	0.00	29.01	NW	5.5	16.8	62.2	60.1	67	54	
31	74	43	56.8	46.1	97	29	73	0.01	29.07	NW	3.6	13.2	62.0	58.9	68	52	
	77	50	62.7	45.2	Monthly Averages ->			29.11	30.05	N	7.3	39.2	14.26	69.0	67.7	76	61

Temperature - Highest: 92 Lowest: 30	Degree Days - Total HDD: 127 Total CDD: 71	Number of Days With: Tmax >= 90: 2 Tmax <= 32: 0 Tmin <= 32: 1 Tmin <= 0: 0	Rainfall - Highest: 9 Lowest: 5
Rainfall: Monthly Total: 3.93 in. Greatest 24 Hr: 1.48 in.	Humidity - Highest: 98 Lowest: 14	Avg Wind Speed >= 10 mph: 5 Max Wind Speed >= 30 mph: 6	

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 Monthly data generated on Thursday, December 15, 2022 at 18:48 UTC
 * Denotes incomplete record

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MESONET CLIMATOLOGICAL DATA SUMMARY November 2022 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
Oklahoma Water Resources Board

DAY	TEMPERATURE (F)				DEG DAYS		HUMIDITY (%)			RAIN (in)		PRESSURE (in)			WIND SPEED (mph)			SOLAR	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL	DIR	AVG	MAX	(MJ/m2)	SOD	BARE	MAX	MIN		
1	77	44	59.5	49.7	5	0	97	43	73	0.00	29.19	30.13	SE	5.1	18.9	14.89	62.0	59.2	67	52		
2	72	50	59.4	55.2	4	0	99	61	87	0.00	29.21	30.16	SSE	7.4	22.2	6.83	62.2	59.3	64	55		
3	74	61	67.5	63.2	0	3	94	75	86	0.00	29.06	30.00	SSE	10.3	23.6	4.85	63.9	63.3	67	59		
4	73	42	61.7	58.8	8	0	99	81	90	0.41	28.87	29.80	SSE	11.0	36.8	2.79	65.7	64.7	69	55		
5	60	37	48.5	40.6	17	0	96	49	76	0.00	28.92	29.85	SE	7.6	20.2	15.45	60.7	54.3	61	48		
6	75	51	60.7	48.6	2	0	86	39	67	0.00	28.95	29.89	S	7.9	20.3	14.80	61.0	57.3	65	52		
7	72	56	63.4	59.9	1	0	98	71	89	0.05	29.24	30.18	NNE	6.8	14.8	4.08	62.4	60.7	65	57		
8	70	65	66.7	66.1	0	3	99	92	98	0.02	29.29	30.24	SE	6.6	15.6	3.35	65.3	65.8	68	64		
9	80	65	69.8	64.1	0	7	100	54	84	0.01	29.17	30.11	SSE	10.3	28.1	10.02	66.8	67.1	71	65		
10	71	53	66.3	63.0	3	0	98	75	90	0.00	28.96	29.90	SSE	8.2	22.2	3.64	66.3	65.3	67	63		
11	53	36	42.7	35.1	21	0	95	52	75	0.28	29.07	30.01	N	17.6	36.4	4.59	61.7	53.6	64	46		
12	49	30	37.3	22.9	26	0	88	33	58	0.00	29.33	30.28	NNW	8.8	22.3	14.90	56.1	45.5	52	41		
13	52	25	38.4	23.8	27	0	90	32	59	0.00	29.29	30.24	ESE	5.0	15.1	14.39	53.8	44.9	54	39		
14	39	33	35.4	31.2	29	0	98	63	85	0.68	29.16	30.10	ESE	7.0	21.8	1.64	51.3	42.2	44	41		
15	48	33	38.1	31.1	24	0	97	45	78	0.00	29.37	30.32	NNW	7.2	22.8	10.33	51.0	43.7	50	41		
16	53	29	39.0	26.9	24	0	91	35	65	0.00	29.49	30.45	NW	6.1	20.5	13.17	50.6	43.5	52	38		
17	57	23	39.8	29.1	25	0	93	35	70	0.00	29.42	30.37	S	3.9	16.5	13.83	50.0	43.9	52	37		
18	48	31	35.7	21.9	25	0	78	41	58	0.00	29.46	30.41	NNE	13.9	34.6	8.89	50.1	42.5	46	39		
19	47	30	35.8	18.3	27	0	77	31	50	0.00	29.48	30.43	NNW	5.5	14.9	12.11	49.3	41.6	50	37		
20	50	23	36.6	20.3	28	0	91	28	55	0.00	29.47	30.42	SSE	4.2	13.1	13.54	48.2	41.7	50	37		
21	54	26	38.3	31.9	25	0	96	52	80	0.00	29.39	30.34	S	4.2	16.8	11.04	48.3	42.7	51	37		
22	60	29	42.0	36.3	21	0	97	52	82	0.00	29.33	30.28	S	3.2	15.4	11.14	49.3	44.9	54	38		
23	51	34	45.3	44.6	23	0	99	92	97	0.65	29.14	30.09	SE	5.1	16.7	1.88	50.1	46.5	50	42		
24	53	46	50.3	49.2	15	0	99	88	96	0.20	29.09	30.03	NNE	9.4	25.9	2.15	51.8	50.1	52	48		
25	56	45	50.5	43.5	14	0	92	68	77	0.00	29.25	30.19	NNE	10.6	21.9	7.27	52.9	50.6	54	48		
26	53	47	49.1	48.2	15	0	98	85	97	1.27	28.87	29.80	WSW	8.9	22.0	2.11	53.0	51.1	53	50		
27	57	36	47.8	41.3	18	0	97	59	79	0.00	28.93	29.86	WNW	7.3	19.4	12.39	53.0	51.0	57	47		
28	62	31	47.7	40.2	19	0	98	53	78	0.00	28.93	29.86	SSE	8.2	22.4	11.51	51.6	47.9	54	41		
29	76	35	58.7	46.5	10	0	91	29	67	0.00	28.83	29.76	SW	15.5	35.2	11.79	54.7	54.4	62	46		
30	46	27	35.0	20.2	29	0	87	30	57	0.00	29.43	30.38	N	7.9	28.6	12.88	50.6	43.5	50	39		
59 39 48.9 41.1				<- Monthly Averages ->				29.19 30.13		SSE 8.0 36.8			9.08		55.8 51.4 57 47							

Temperature - Highest: 80 Lowest: 23	Degree Days - Total HDD: 485 Total CDD: 13	Number of Days With: Tmax ≥ 90: 0 Rainfall ≥ 0.01 inch: 9 Tmax ≤ 32: 0 Rainfall ≥ 0.10 inch: 6 Tmin < 32: 11 Avg Wind Speed ≥ 10 mph: 7 Tmin ≤ 0: 0 Max Wind Speed ≥ 30 mph: 4
Rainfall: Monthly Total: 3.57 in. Greatest 24 Hr: 1.27 in.	Humidity - Highest: 100 Lowest: 28	

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MAR 28 2023

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

December 2022
 Nearest City: 6.0 N Tishomingo
 Longitude: 96-40-44

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

Oklahoma Water Resources Board

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	52	27	40.9	25.2	25	0	88	29	55	0.00	29.36	30.31	SSE	8.2	27.2	5.45	48.3	41.4	45	38
2	59	48	52.5	49.0	12	0	99	52	89	0.01	29.09	30.03	S	10.0	29.8	1.75	50.6	48.2	52	44
3	58	36	42.5	25.1	18	0	91	33	51	0.00	29.46	30.41	NNE	12.9	32.4	10.85	50.5	45.8	51	42
4	49	39	42.9	34.3	21	0	89	49	72	0.05	29.26	30.20	ESE	5.0	19.9	4.56	49.7	44.8	49	42
5	75	45	57.8	53.1	5	0	99	56	86	0.01	28.87	29.81	S	7.6	23.8	9.20	52.3	51.9	60	45
6	60	47	54.3	52.4	12	0	100	80	93	0.01	28.97	29.91	S	5.5	13.2	4.79	54.5	54.3	58	51
7	55	47	49.7	48.2	14	0	99	84	95	0.28	29.21	30.16	NNE	6.3	15.1	2.40	54.0	52.0	54	50
8	61	51	56.3	55.6	9	0	100	91	97	0.23	29.18	30.12	WSW	4.4	16.6	3.58	55.4	55.5	59	52
9	61	53	55.8	46.7	8	0	100	47	74	0.00	29.19	30.13	NE	8.8	20.8	9.35	55.8	55.3	59	53
10	60	48	54.9	52.0	11	0	99	73	90	0.02	29.14	30.08	NNE	7.5	21.8	1.59	56.2	55.2	57	53
11	51	46	48.1	45.9	16	0	99	83	92	0.00	29.18	30.13	N	5.5	17.1	3.55	55.1	52.3	55	50
12	55	47	51.0	50.0	14	0	99	83	97	0.05	29.01	29.95	ESE	7.6	25.8	1.55	54.7	52.2	54	51
13	64	44	56.3	46.8	11	0	99	35	74	0.72	28.74	29.67	SW	9.6	34.8	8.18	56.2	56.2	61	51
14	50	35	43.1	27.4	23	0	73	36	54	0.00	28.88	29.81	W	7.6	20.0	9.61	53.0	48.1	52	43
15	49	29	39.9	22.5	26	0	83	33	51	0.00	29.05	29.99	WNW	7.1	21.3	11.81	49.5	42.8	49	38
16	45	26	36.3	17.8	29	0	83	27	49	0.00	29.15	30.10	NNW	7.6	24.5	7.77	47.1	39.4	44	37
17	48	24	34.8	18.2	29	0	85	28	53	0.00	29.22	30.17	NW	6.2	20.4	12.04	45.4	38.7	45	36
18	52	20	37.5	21.6	29	0	90	25	57	0.00	29.29	30.23	S	5.5	21.1	10.44	44.7	38.9	44	35
19	48	40	43.6	31.6	21	0	83	47	63	0.00	29.24	30.18	SE	8.9	26.0	4.55	46.7	42.3	45	40
20	48	28	38.1	31.9	27	0	93	60	79	0.00	29.44	30.39	N	9.5	22.8	11.53	46.8	42.2	49	38
21	48	26	35.7	29.2	28	0	99	48	80	0.00	29.21	30.16	S	6.2	20.1	7.71	45.5	39.4	44	36
22	41	6	18.0	11.8	42	0	99	59	77	0.01	29.27	30.22	SSE*	NA	31.5*	4.07	43.4	36.5	41	32
23	19	6	12.3	-2.4	52	0	70	39	51	0.00	29.69	30.65	NNW	9.9	25.0	8.58	38.0	29.4	31	28
24	34	13	21.6	4.9	41	0	82	21	53	0.00	29.58	30.54	W	3.2	13.5	11.27	36.9	29.6	32	28
25	48	15	30.6	12.3	33	0	88	19	53	0.00	29.36	30.31	S	5.0	18.4	11.14	37.4	30.7	32	29
26	53	21	36.4	20.5	28	0	72	36	53	0.00	29.28	30.23	NNW	9.9	37.0	9.92	40.1	31.6	32	31
27	46	17	30.9	18.0	33	0	87	35	61	0.00	29.22	30.17	SSE	8.3	21.4	11.72	39.4	32.4	33	32
28	67	35	52.2	39.6	14	0	85	46	63	0.00	28.85	29.78	S	15.5	36.6	9.89	42.3	39.7	48	33
29	67	50	60.1	49.6	7	0	96	37	71	0.00	28.95	29.89	S	8.8	24.0	4.72	48.2	50.7	55	46
30	61	36	48.8	35.7	17	0	90	38	62	0.00	29.04	29.98	NNE	5.3	18.4	8.34	48.1	47.6	53	42
31	68	35	51.5	41.5	14	0	98	42	71	0.00	28.89	29.82	S	7.5	26.8	9.95	47.6	46.8	53	41
	53	34	43.0	32.8	-< Monthly Averages ->						29.17	30.11	S *	7.7*	37.0*	7.48	48.2	44.3	48	41

Temperature - Highest: 75 Lowest: 6	Degree Days - Total HDD: 669 Total CDD: 0	Number of Days With: Tmax ≥ 90: 0 Tmax ≤ 32: 1 Tmin ≤ 32: 13 Tmin ≤ 0: 0	Rainfall ≥ 0.01 inch: 10 Rainfall ≥ 0.10 inch: 3 Avg Wind Speed ≥ 10 mph: 3* Max Wind Speed ≥ 30 mph: 5*
Rainfall: Monthly Total: 1.39 in. Greatest 24 Hr: 0.72 in.	Humidity - Highest: 100 Lowest: 19		