
**Lake Thunderbird TMDL Monitoring
Plan Implementation: Sample Year
(SY) 2024- March Report**



OKLAHOMA
Water Resources Board

Lake Thunderbird TMDL Monitoring Plan Implementation: March 2024 Monitoring Report

Oklahoma Water Resources Board
WATER Division
Streams Monitoring and Assessment Section
3800 N. Classen, Oklahoma City, Oklahoma 73118
405-530-8800

Contact

Sarah Dexter, Project Leader, sarah.dexter@owrb.ok.gov
Lance Phillips, Streams Program Manager, lance.phillips@owrb.ok.gov
Bill Cauthron, Monitoring Coordinator, bill.cauthron@owrb.ok.gov

TABLE OF CONTENTS

TABLE OF CONTENTS	3
LIST OF TABLES.....	3
LIST OF FIGURES	3
SUMMARY OF MARCH SAMPLING	4
RESULTS.....	4

LIST OF TABLES

TABLE 1 FIELD DATA FORM	5
TABLE 2 LABORATORY ANALYSIS SUMMARY	6
TABLE 3 QA/QC DATA WHERE THE ASTERISK DENOTES RPD2.....	6
TABLE 4 STATION DISCHARGE SUMMARY	7

LIST OF FIGURES

FIGURE 1 MONITORING STATION MAP	4
FIGURE 2 DISCHARGE MEASUREMENT SUMMARY JB-1	8
FIGURE 3 DISCHARGE MEASUREMENT SUMMARY TE-1	9
FIGURE 4 MONTHLY HYDROGRAPH TG-1	10
FIGURE 5 MONTHLY HYDROGRAPH TE-1	10
FIGURE 6 MONTHLY HYDROGRAPH WC-1.....	11
FIGURE 7 MONTHLY HYDROGRAPH URC-2.....	11
FIGURE 8 MONTHLY HYDROGRAPH LRC-1	12
FIGURE 9 MONTHLY HYDROGRAPH LDB-1	12
FIGURE 10 MONTHLY HYDROGRAPH UDB-1	13
FIGURE 11 MONTHLY HYDROGRAPH JB-1	13
FIGURE 12 MONTHLY HYDROGRAPH CC-1	14
FIGURE 13 MARCH MESONET DATA.....	15

SUMMARY OF MARCH SAMPLING

Sampling for March 2024 occurred during base flow conditions on the eighteenth. Water samples were collected at nine locations and discharge was measured at two locations. Two samples were collected at JB-1, one on the upstream side of the bridge and the other on the downstream side of the bridge. Mesonet shows no precipitation on the eighteenth, 0.03 inches of precipitation in the 72 hours prior to sampling, and 1.37 inches of precipitation in the 72 hours after sampling occurred. The total rainfall amount in Norman for the month of March was 2.61 inches. Samples were not collected at LT-1 since this station will be relocated.

RESULTS

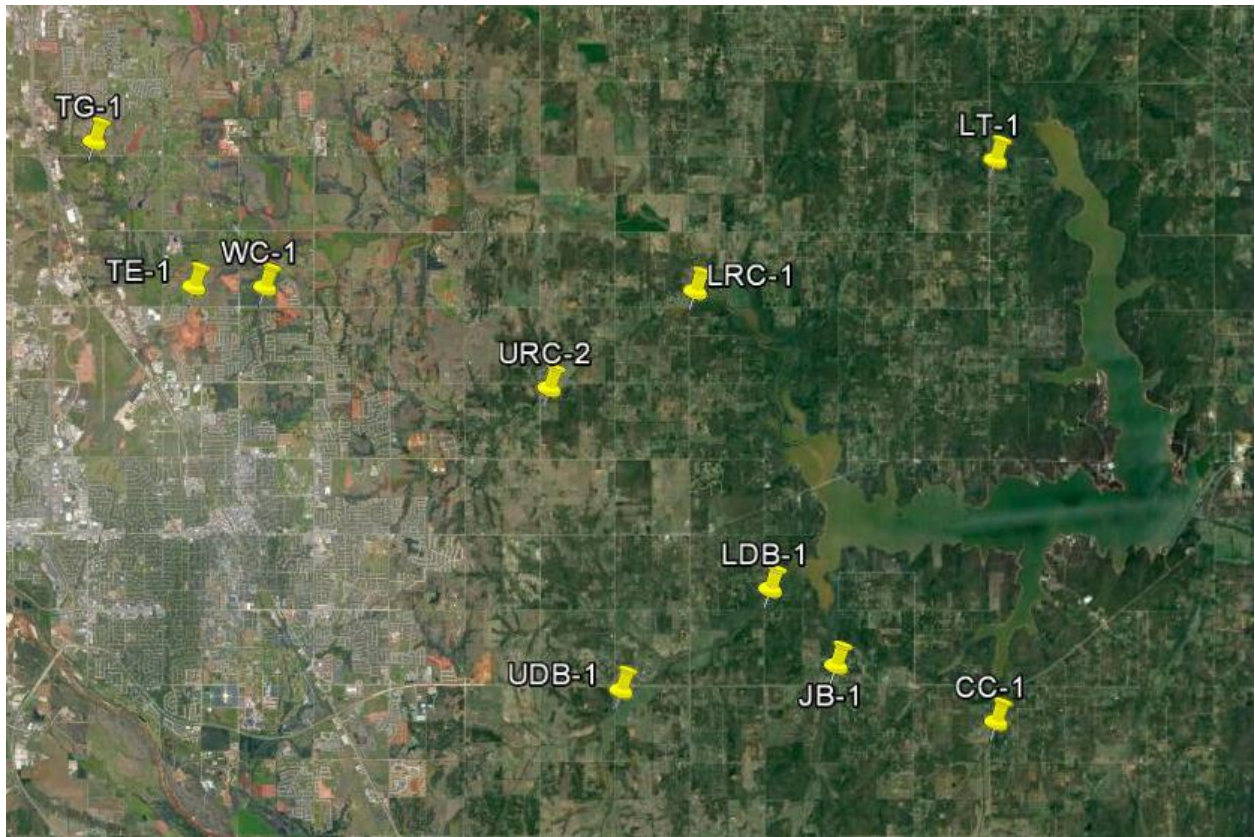


Figure 1 Monitoring Station Map

Monitoring Location ID	Monitoring Location Name	Date	Time	Field Crew	Water Temperature (°C)	Dissolved Oxygen (DO) (mg/L)	pH	Specific Conductance (µS/cm)	Turbidity (NTU)	Notes
CC-1	Clear Creek	3/18/2024	10:10	LES	11.9	8.28	7.74	663	5	Beaver dam still upstream of bridge
JB-1	Jim Blue Creek	3/18/2024	9:15	LES	8.2	7.94	7.38	955	6	Water present on both sides of bridge, so sampled up and downstream. Pool-like conditions us, low flow ds; lots of filamentous algae and trash
LDB-1	Lower Dave Blue Creek	3/18/2024	11:05	LES	13.4	8.54	8.17	847	25	Brown coloration to water
LRC-1	Lower Rock Creek	3/18/2024	11:48	LES	11.5	10.30	8.17	708	5	Pool-like with low flow
TE-1	Little River Tributary	3/18/2024	14:04	LES	15.1	9.77	8.03	891	17	Continued presence of two beaver dams upstream; roadwork ongoing around bridge
TG-1	Little River	3/18/2024	15:05	LES	14.8	13.83	8.31	1064	2	Orifice half out of water
UDB-1	Upper Dave Blue Creek	3/18/2024	8:53	LES	10.1	8.83	7.67	926	18	Water has brownish tint, filamentous algae starting to grow thick
URC-2	Upper Rock Creek	3/18/2024	12:45	LES	12.4	8.82	8.02	871	8	Construction appears finished, road was repaved on both sides of bridge
WC-1	Woodcrest Creek	3/18/2024	13:20	LES	13.2	11.70	8.16	989	4	Orifice half out of water

Table 1 Field Data Form

Monitoring Location ID	Monitoring Location Name	Nitrate and Nitrite (mg/L)	Kjeldahl Nitrogen (mg/L)	Phosphorus (mg/L)	Total Suspended Solids (mg/L)
CC-1	Clear Creek	<0.05	0.16	0.036	<5.0
JB-1	Jim Blue Creek (us)	<0.05	0.21	0.026	9.0
JB-1	Jim Blue Creek (ds)	<0.05	0.20	0.021	<5.0
LDB-1	Lower Dave Blue Creek	<0.05	0.33	0.041	28.0
LRC-1	Lower Rock Creek	<0.05	0.17	0.023	<5.0
TE-1	Little River Tributary	<0.05	0.44	0.038	8.0
TG-1	Little River	<0.05	0.27	0.021	<5.0
UDB-1	Upper Dave Blue Creek	<0.05	0.20	0.026	16.0
URC-2	Upper Rock Creek	<0.05	0.32	0.039	6.0
WC-1	Woodcrest Creek	<0.05	0.31	0.031	5.0

Table 2 Laboratory Analysis Summary

Monitoring Location Name	Nitrate and Nitrite (mg/L)	Kjeldahl Nitrogen (mg/L)	Phosphorus (mg/L)	Total Suspended Solids (mg/L)
Field Blank	<0.05	<0.10	<0.010	<5.0
Duplicate	<0.05	0.20	0.036	<5.0
Duplicate RPD	0%	22.22%*	0%	0%

Table 3 QA/QC Data Where the Asterisk Denotes RPD2

Quality assurance/quality control (QA/QC) of the data includes a field blank and duplicate sample from each collection event and is qualified by the OWRB. Relative Percent Difference (RPD) of the duplicate sample can be categorized into four levels, where Level 1 likely has no QA issues and Level 4 has major QA issues and should be used with caution.

Monitoring Location ID	Monitoring Location Name	Discharge (cfs)	Stream Stage (ft)
CC-1	Clear Creek	10.94	22.51
JB-1	Jim Blue Creek	0.15	7.37
LDB-1	Lower Dave Blue Creek	8.10	16.74
LRC-1	Lower Rock Creek	0.21	3.50
TE-1	Little River Tributary	0.17	10.60
TG-1	Little River	0.39	8.83
UDB-1	Upper Dave Blue Creek	0.06	17.15
URC-2	Upper Rock Creek	0.24	10.95
WC-1	Woodcrest Creek	0.03	7.28

Table 4 Station Discharge Summary

All rated stream discharges are provisional and subject to change.

File Information

File name: Jim Blue Creek_20240318.ft
 Start date and time: 3/18/2024 9:44 AM
 Start location latitude: 35.190
 Start location longitude: -97.303
 Calculations engine: FlowTracker2
 Data collection mode: Discharge

System Information

Discharge Summary

Start time: 3/18/2024 9:45 AM End time: 3/18/2024 10:01 AM
 # Stations: 14 Avg interval: 40
 Mean depth: 0.502 ft Max depth: 0.800 ft
 Mean velocity: 0.0498 ft/s Max velocity: 0.1613 ft/s
 Mean SNR: 32 dB Total width: 6.000 ft
 Mean temp: 47.462 °F Total area: 3.0125 ft²
 Wetted Perimeter: 6.359 ft Total discharge: 0.1501 ft³/s

Discharge Uncertainty

Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.7%	6.9%
Velocity	1.0%	16.3%
Width	0.2%	0.2%
Method	3.7%	
# Stations	3.6%	
Overall	5.4%	17.7%

Viewer Controls

Chart size + Chart size -
 Reset all

Discharge Measurement Summary

Save PDF of summary

Summary overview

No changes were made to this file
 Quality control warnings

Supplemental data summary

Gauge height time	Gauge height (ft)	Rated discharge (ft ³ /s)	Temperature (°F)	Salinity (PSS-78)	Gauge height comments
3/18/2024 9:45 AM	7.370				

Measurement results

St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Samples	Velocity (ft/s)	Correct on	Mean Velocity (ft/s)	Area (ft ²)	Flow (ft ³ /s)	%Q	
0	9:45 AM	0.000	None	0.000	0.0000	0.000	0	0.0000		0.0000	0.0000	0.0000	0.00	✓
1	9:46 AM	0.500	0.6	0.300	0.6000	0.180	80	0.0000	1.0000	0.0000	0.1500	0.0000	0.00	✓
2	9:47 AM	1.000	0.6	0.400	0.6000	0.240	80	0.0010	1.0000	0.0010	0.2000	0.0002	0.14	✓
3	9:49 AM	1.500	0.6	0.500	0.6000	0.300	80	0.0002	1.0000	0.0002	0.2500	0.0000	0.03	✓
4	9:50 AM	2.000	0.6	0.500	0.6000	0.300	80	-0.0002	1.0000	-0.0002	0.2500	0.0000	-0.03	✓
5	9:51 AM	2.500	0.6	0.700	0.6000	0.420	80	0.0314	1.0000	0.0314	0.3500	0.0110	7.32	✓
6	9:52 AM	3.000	0.6	0.800	0.6000	0.480	80	0.1052	1.0000	0.1052	0.3000	0.0316	21.04	✓
7	10:01 AM	3.250	0.6	0.800	0.6000	0.480	80	0.1090	1.0000	0.1090	0.2000	0.0218	14.53	✓
8	9:53 AM	3.500	0.6	0.700	0.6000	0.420	80	0.1613	1.0000	0.1613	0.2625	0.0423	28.21	✓
9	9:55 AM	4.000	0.6	0.700	0.6000	0.420	80	0.1329	1.0000	0.1329	0.3500	0.0465	30.99	✓
10	9:56 AM	4.500	0.6	0.600	0.6000	0.360	80	0.0000	1.0000	0.0000	0.3000	0.0000	0.01	✓
11	9:57 AM	5.000	0.6	0.400	0.6000	0.240	80	-0.0142	1.0000	-0.0142	0.2000	-0.0028	-1.90	✓
12	9:59 AM	5.500	0.6	0.400	0.6000	0.240	80	-0.0025	1.0000	-0.0025	0.2000	-0.0005	-0.33	✓
13	10:00 AM	6.000	None	0.000	0.0000	0.000	0	0.0000		-0.0025	0.0000	0.0000	0.00	✓

Quality control warnings

St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Warnings
1	9:46 AM	0.500	0.6	0.300	0.6000	0.180	SNR Threshold Variation
2	9:47 AM	1.000	0.6	0.400	0.6000	0.240	SNR Threshold Variation
3	9:49 AM	1.500	0.6	0.500	0.6000	0.300	SNR Threshold Variation
4	9:50 AM	2.000	0.6	0.500	0.6000	0.300	SNR Threshold Variation
5	9:51 AM	2.500	0.6	0.700	0.6000	0.420	SNR Threshold Variation
6	9:52 AM	3.000	0.6	0.800	0.6000	0.480	SNR Threshold Variation,High Stn % Discharge
7	10:01 AM	3.250	0.6	0.800	0.6000	0.480	Low SNR,SNR Threshold Variation,High Stn % Discharge
8	9:53 AM	3.500	0.6	0.700	0.6000	0.420	SNR Threshold Variation,High Stn % Discharge
9	9:55 AM	4.000	0.6	0.700	0.6000	0.420	SNR Threshold Variation,High Stn % Discharge
10	9:56 AM	4.500	0.6	0.600	0.6000	0.360	SNR Threshold Variation
11	9:57 AM	5.000	0.6	0.400	0.6000	0.240	Beam SNRs Not Similar

Figure 2 Discharge Measurement Summary JB-1

File Information

File name: Little River Tributary E_20240318.ft
 Start date and time: 3/18/2024 2:39 PM
 Start location latitude:
 Start location longitude:
 Calculations engine: FlowTracker2
 Data collection mode: Discharge

System Information

Discharge Summary

Start time: 3/18/2024 2:40 PM End time: 3/18/2024 3:02 PM
 # Stations: 20 Avg interval: 40
 Mean depth: 0.614 ft Max depth: 0.900 ft
 Mean velocity: 0.0270 ft/s Max velocity: 0.0799 ft/s
 Mean SNR: 40 dB Total width: 10.500 ft
 Mean temp: 61.693 °F Total area: 6.4500 ft²
 Wetted Perimeter: 10.857 ft Total discharge: 0.1743 ft³/s

Discharge Uncertainty

Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.5%	4.3%
Velocity	1.0%	11.5%
Width	0.2%	0.2%
Method	2.6%	
# Stations	2.5%	
Overall	3.9%	12.3%

Viewer Controls

Chart size + Chart size -
 Reset all

Discharge Measurement Summary

Save PDF of summary

Summary overview

No changes were made to this file
 Quality control warnings

Supplemental data summary

Gauge height time	Gauge height (ft)	Rated discharge (ft ³ /s)	Temperature (°F)	Salinity (PSS-78)	Gauge height comments
3/18/2024 2:40 PM	10.600				

Measurement results

St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Samples	Velocity (ft/s)	Correct on	Mean Velocity (ft/s)	Area (ft ²)	Flow (ft ³ /s)	%Q	
0	2:40 PM	0.000	None	0.000	0.0000	0.000	0	0.0000		-0.0123	0.0000	0.0000	0.00	✓
1	2:40 PM	1.500	0.6	0.300	0.6000	0.180	80	-0.0123	1.0000	-0.0123	0.3000	-0.0037	-2.12	✓
2	2:42 PM	2.000	0.6	0.600	0.6000	0.360	80	-0.0001	1.0000	-0.0001	0.3000	0.0000	-0.01	✓
3	2:44 PM	2.500	0.6	0.800	0.6000	0.480	80	0.0267	1.0000	0.0267	0.4000	0.0107	6.12	✓
4	2:45 PM	3.000	0.6	0.900	0.6000	0.540	80	0.0372	1.0000	0.0372	0.4500	0.0167	9.60	✓
5	2:46 PM	3.500	0.6	0.900	0.6000	0.540	80	0.0392	1.0000	0.0392	0.4500	0.0176	10.11	✓
6	2:47 PM	4.000	0.6	0.900	0.6000	0.540	80	0.0623	1.0000	0.0623	0.4500	0.0288	16.08	✓
7	2:48 PM	4.500	0.6	0.900	0.6000	0.540	80	0.0639	1.0000	0.0639	0.4500	0.0288	16.50	✓
8	2:49 PM	5.000	0.6	0.800	0.6000	0.480	80	0.0799	1.0000	0.0799	0.4000	0.0320	18.34	✓
9	2:50 PM	5.500	0.6	0.800	0.6000	0.480	80	0.0234	1.0000	0.0234	0.4000	0.0094	5.37	✓
10	2:52 PM	6.000	0.6	0.800	0.6000	0.480	80	0.0040	1.0000	0.0040	0.4000	0.0016	0.92	✓
11	2:53 PM	6.500	0.6	0.800	0.6000	0.480	80	0.0083	1.0000	0.0083	0.4000	0.0033	1.90	✓
12	2:54 PM	7.000	0.6	0.700	0.6000	0.420	80	0.0290	1.0000	0.0290	0.3500	0.0102	5.82	✓
13	2:55 PM	7.500	0.6	0.700	0.6000	0.420	80	0.0245	1.0000	0.0245	0.3500	0.0086	4.91	✓
14	2:56 PM	8.000	0.6	0.600	0.6000	0.360	80	0.0129	1.0000	0.0129	0.3000	0.0039	2.21	✓
15	2:57 PM	8.500	0.6	0.600	0.6000	0.360	80	0.0317	1.0000	0.0317	0.3000	0.0095	5.46	✓
16	2:59 PM	9.000	0.6	0.600	0.6000	0.360	80	0.0004	1.0000	0.0004	0.3000	0.0001	0.07	✓
17	3:00 PM	9.500	0.6	0.600	0.6000	0.360	80	-0.0130	1.0000	-0.0130	0.3000	-0.0039	-2.24	✓
18	3:01 PM	10.000	0.6	0.300	0.6000	0.180	80	0.0110	1.0000	0.0110	0.1500	0.0016	0.95	✓
19	3:02 PM	10.500	None	0.000	0.0000	0.000	0	0.0000		0.0110	0.0000	0.0000	0.00	✓

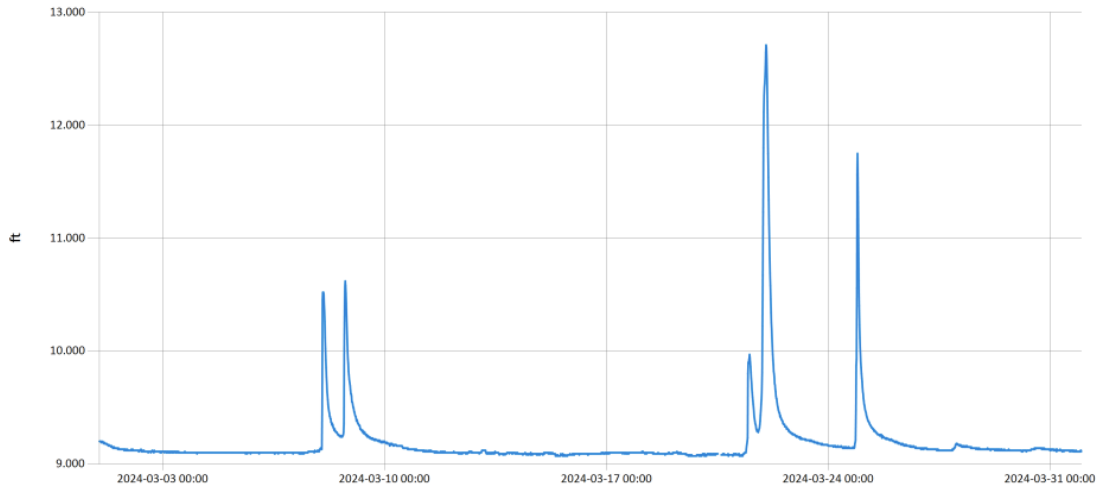
Quality control warnings

St#	Time	Location (ft)	Method	Depth (ft)	%Depth	Measured Depth (ft)	Warnings
2	2:42 PM	2.000	0.6	0.600	0.6000	0.360	SNR Threshold Variation
4	2:45 PM	3.000	0.6	0.900	0.6000	0.540	Large SNR Variation
5	2:46 PM	3.500	0.6	0.900	0.6000	0.540	Large SNR Variation, High Stn % Discharge
6	2:47 PM	4.000	0.6	0.900	0.6000	0.540	Large SNR Variation, SNR Threshold Variation, High Stn % Discharge
7	2:48 PM	4.500	0.6	0.900	0.6000	0.540	SNR Threshold Variation, High Stn % Discharge
8	2:49 PM	5.000	0.6	0.800	0.6000	0.480	SNR Threshold Variation, High Stn % Discharge
9	2:50 PM	5.500	0.6	0.800	0.6000	0.480	Large SNR Variation
10	2:52 PM	6.000	0.6	0.800	0.6000	0.480	Large SNR Variation
11	2:53 PM	6.500	0.6	0.800	0.6000	0.480	Large SNR Variation
13	2:55 PM	7.500	0.6	0.700	0.6000	0.420	Large SNR Variation
15	2:57 PM	8.500	0.6	0.600	0.6000	0.360	SNR Threshold Variation
16	2:59 PM	9.000	0.6	0.600	0.6000	0.360	Large SNR Variation, SNR Threshold Variation
18	3:01 PM	10.000	0.6	0.300	0.6000	0.180	Large SNR Variation

Figure 3 Discharge Measurement Summary TE-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

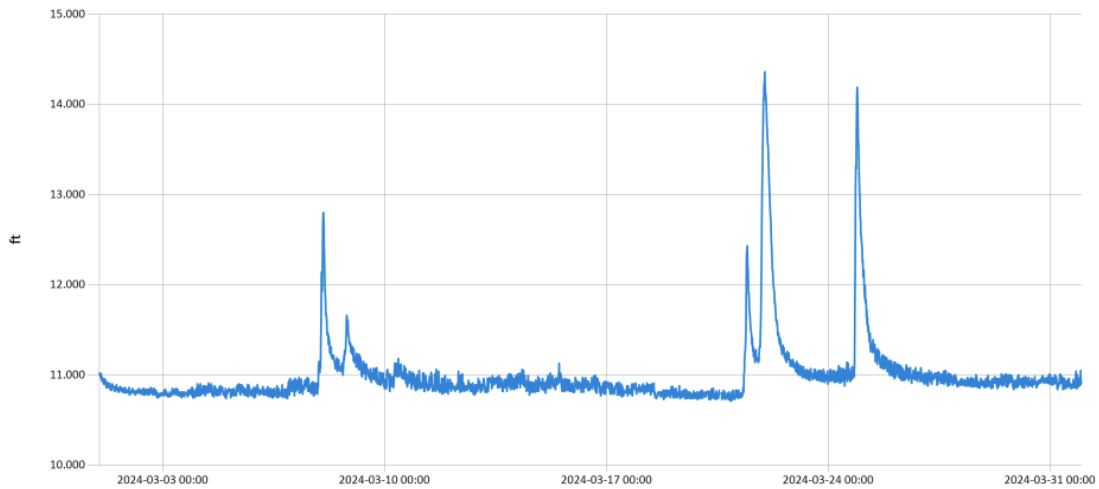


— Stage@TG

Figure 4 Monthly Hydrograph TG-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

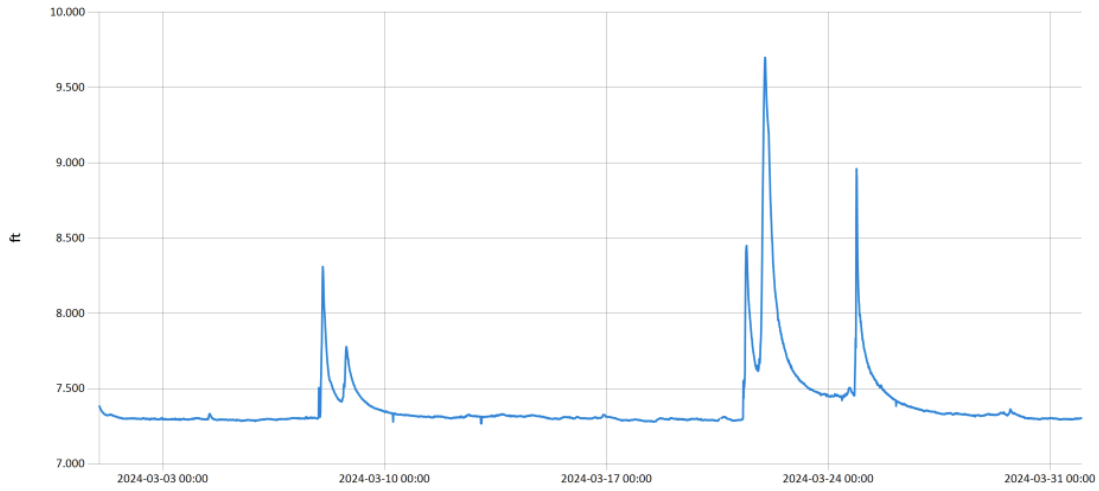


— Stage@TE

Figure 5 Monthly Hydrograph TE-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

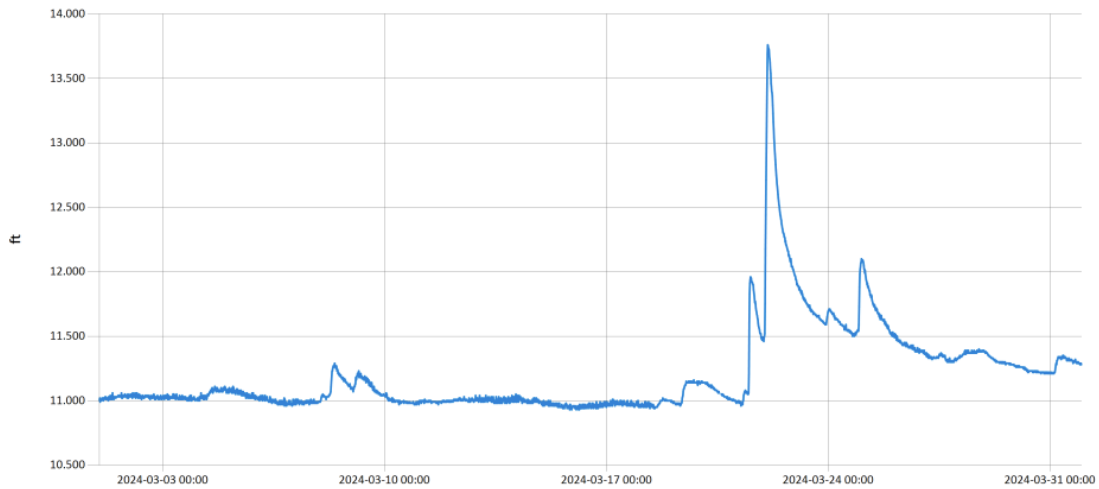


— Stage@WC

Figure 6 Monthly Hydrograph WC-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

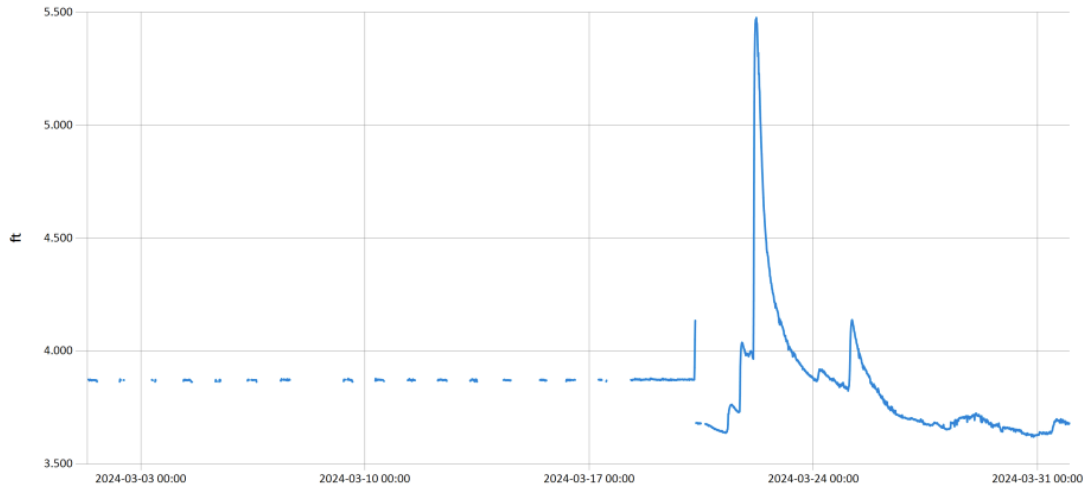


— Stage@URC

Figure 7 Monthly Hydrograph URC-2

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

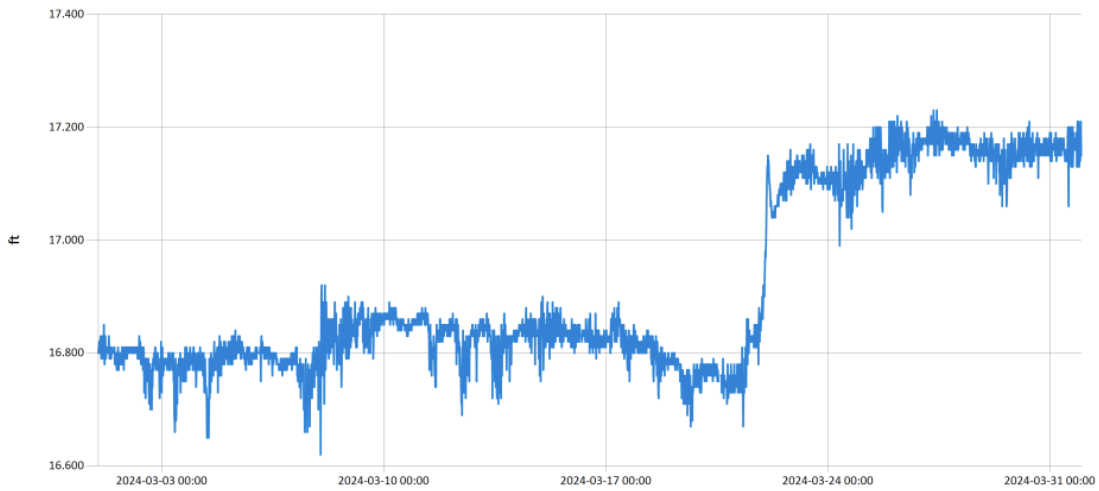


— Stage@LRC

Figure 8 Monthly Hydrograph LRC-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00



— Stage@LDB

Figure 9 Monthly Hydrograph LDB-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

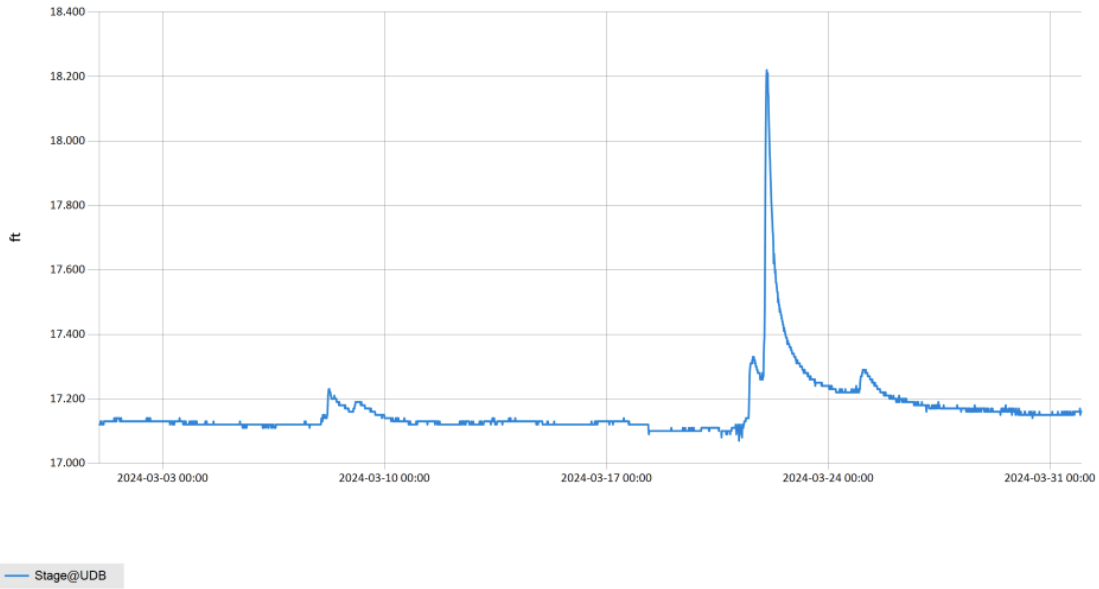


Figure 10 Monthly Hydrograph UDB-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

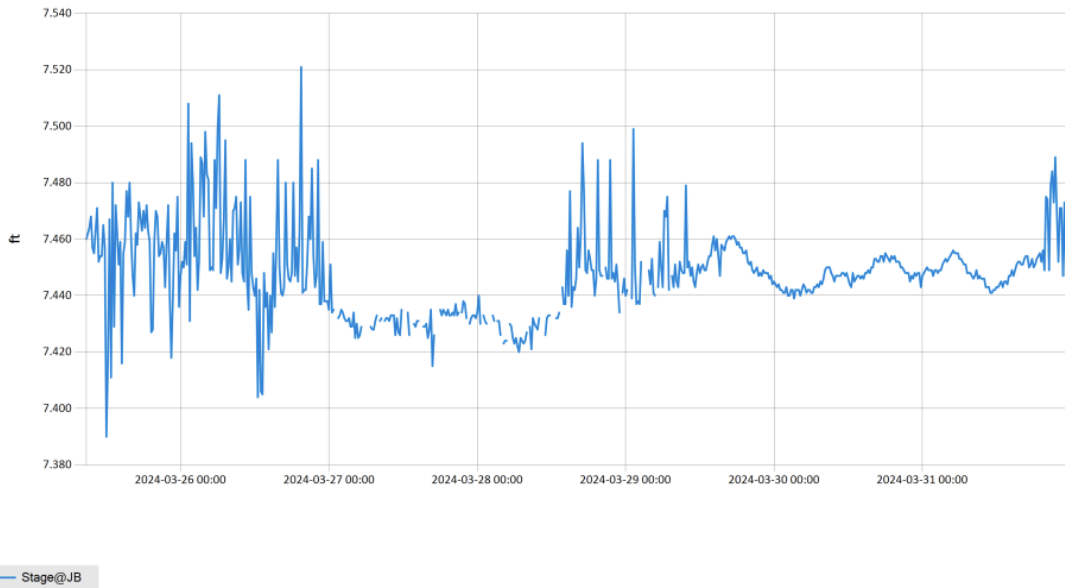


Figure 11 Monthly Hydrograph JB-1

Period Selected: 2024-03-01 00:00 - 2024-03-31 23:59

UTC Offset: -06:00

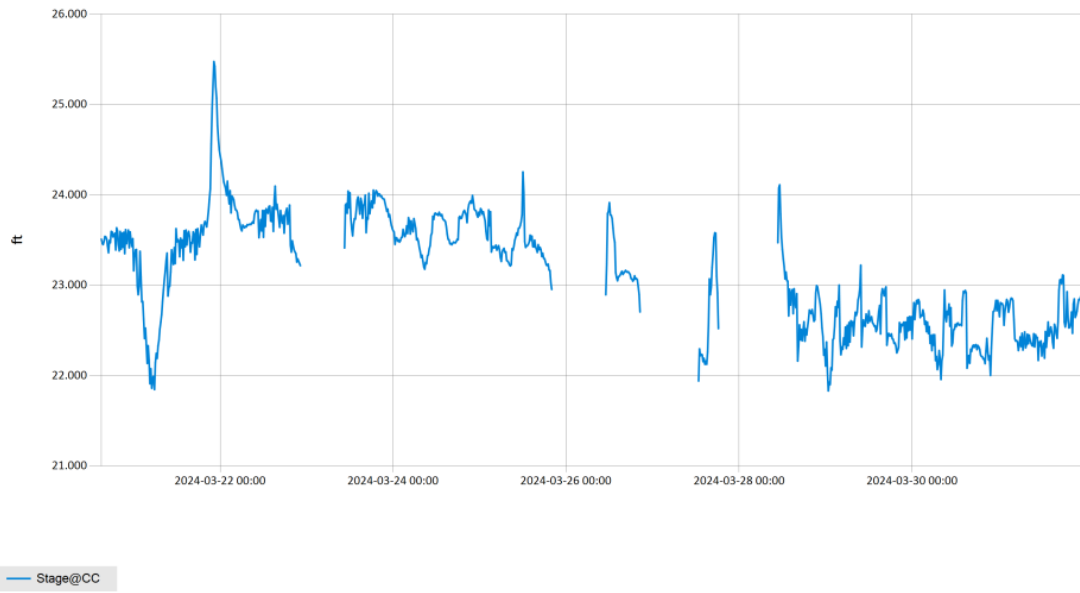


Figure 12 Monthly Hydrograph CC-1

MESONET CLIMATOLOGICAL DATA SUMMARY					March 2024					Time Zone: Midnight-Midnight CST											
(NRMN) Norman					Nearest City: 2.1 NW Norman					County: Cleveland											
Latitude: 35-14-09					Longitude: 97-27-53					Elevation: 1171 feet											
DAY	TEMPERATURE (°F)				DEG DAYS		HUMIDITY (%)			RAIN (in)		PRESSURE (in)			WIND SPEED (mph)		SOLAR (MJ/m ²)	4" SOIL TEMPERATURES			
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG	(in)	STN	MSL	DIR	AVG	MAX	SOD		BARE	MAX	MIN	
1	60	34	44.6	38.4	18	0	98	55	81	0.00	28.77	30.02	SSE	8.7	20.5	13.93	46.8	46.0	53	42	
2	81	45	62.0	42.3	2	0	94	20	56	0.00	28.59	29.84	S	11.4	29.4	18.77	49.9	52.7	62	46	
3	82	58	68.8	52.2	0	5	82	23	59	0.00	28.50	29.74	S	13.0	28.5	18.66	53.7	59.4	67	53	
4	79	50	65.8	48.7	0	0	89	22	58	0.00	28.52	29.76	S	11.4	29.2	16.54	56.0	61.9	68	58	
5	65	43	53.1	40.6	11	0	81	45	64	0.00	28.68	29.92	N	9.5	21.4	19.05	54.0	58.0	65	52	
6	72	43	56.5	47.2	7	0	95	48	73	0.00	28.66	29.90	NE	5.2	16.5	16.87	54.3	58.9	67	53	
7	76	52	64.8	51.9	1	0	95	39	65	0.31	28.48	29.72	S	10.2	32.0	13.70	56.1	61.6	67	58	
8	53	37	45.3	42.9	20	0	96	85	91	0.27	28.67	29.92	NNW	15.1	33.0	2.80	54.0	54.1	61	47	
9	54	36	43.4	27.8	20	0	86	31	57	0.01	28.95	30.20	N	10.7	26.9	19.98	50.3	48.3	54	44	
10	65*	31*	48.6*	31.5*	17*	0*	87*	29*	56*	0.00*	28.96*	30.21*	SSW*	5.6*	22.6*	NA	49.8*	47.9*	56*	41*	
11	70	40	55.8	37.4	10	0	73	34	52	0.00	28.86	30.11	S	9.8	25.9	19.77	51.3	51.3	59	44	
12	77	51	63.4	49.5	1	0	82	36	62	0.00	28.62	29.87	S	12.5	33.0	18.90	53.7	56.5	64	50	
13	82	58	69.4	56.2	0	5	91	26	67	0.00	28.44	29.68	S	12.9	30.1	19.57	56.8	61.8	69	56	
14	80	55	69.9	55.9	0	2	92	25	66	0.00	28.55	29.79	S	11.3	33.8	17.91	59.8	66.2	73	62	
15	64	45	53.7	45.2	11	0	87	55	74	0.00	28.88	30.13	N	11.1	30.4	7.74	57.3	59.9	64	57	
16	58	40	51.1	43.5	16	0	93	51	76	0.03	28.81	30.06	N	3.8	13.1	6.24	54.7	54.9	58	52	
17	64	45	55.7	31.1	10	0	84	23	43	0.00	28.83	30.08	NNE	11.9	28.3	19.34	55.0	57.3	64	53	
18	54	35	43.0	21.2	21	0	65	24	44	0.00	29.05	30.30	NNE	8.3	22.7	21.89	53.0	54.7	61	48	
19	71	37	54.3	30.7	11	0	55	27	41	0.00	28.84	30.09	SSW	10.8	25.4	21.56	52.0	54.7	64	46	
20	76	48	62.5	43.2	3	0	71	31	51	0.00	28.70	29.95	SSW	6.5	18.6	20.53	54.9	60.6	70	52	
21	63	52	56.7	53.0	8	0	97	64	88	1.37	28.68	29.93	ESE	6.3	22.4	5.40	56.0	59.2	62	57	
22	65	46	56.5	50.1	10	0	97	58	80	0.08	28.71	29.96	N	10.0	27.1	11.00	56.4	58.7	63	55	
23	63	35	49.6	38.6	16	0	90	41	68	0.00	28.83	30.08	NNE	9.4	22.7	19.08	54.6	53.6	60	47	
24	62	53	56.7	50.7	7	0	96	71	80	0.53	28.35	29.59	SSE	15.1	32.6	5.68	55.0	54.8	56	53	
25	61	34	50.1	38.3	17	0	92	44	64	0.00	28.29	29.52	WNW	13.6	31.1	16.75	54.6	55.8	61	51	
26	51	32	39.7	25.0	24	0	78	41	56	0.00	28.68	29.92	NW	10.6	30.4	22.79	50.6	48.6	54	43	
27	45	30	38.5	29.8	27	0	97	52	72	0.01	28.89	30.15	NE	4.9	14.7	5.17	49.2	44.5	47	42	
28	69	30	51.5	37.7	16	0	98	33	65	0.00	28.88	30.13	SSE	7.0	24.3	22.93	49.7	47.7	56	39	
29	75	55	63.8	50.4	0	0	81	50	63	0.00	28.62	29.86	S	12.9	31.3	11.92	53.6	53.7	58	50	
30	78	56	67.1	57.5	0	2	91	50	72	0.00	28.59	29.83	S	8.7	19.7	17.85	56.8	58.8	65	53	
31	73	63	67.5	62.1	0	3	93	73	83	0.00	28.50	29.74	S	10.4	23.4	7.91	59.3	61.5	64	59	
67* 44* 55.8* 42.9*					<- Monthly Averages ->					28.69* 29.94*		S * 10.0* 33.8*		15.34*		53.8* 55.6* 62* 50*					
Temperature - Highest: 82*					Degree Days - Total HDD: 304*					Number of Days With:											
Lowest: 30*					Total CDD: 18*					Tmax ≥ 90: 0*				Rainfall ≥ 0.01 inch: 8*							
Rainfall: Monthly Total: 2.61* in.					Humidity - Highest: 98*					Tmax ≤ 32: 0*				Rainfall ≥ 0.10 inch: 4*							
Greatest 24 Hr: 1.37* in.					Lowest: 20*					Tmin ≤ 32: 4*				Avg Wind Speed ≥ 10 mph: 18*							
										Tmin ≤ 0: 0*				Max Wind Speed ≥ 30 mph: 10*							

© 1993-2024 Oklahoma Climatological Survey and the Oklahoma Mesonet

* Denotes incomplete record

Figure 13 March Mesonet Data