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Status

Table 1: Gauge visits during the summer 2026 campaign. Comments: DD=gauge data download, MN=general gauge maintenance (cleaning, re-level), CA= rain gauge calibration, CV= vegetation clearing, ECC=electric contact cleaning treatment, and BR = data logger battery replacement.

Date	Gauges Visited	Technicians	Comments	Vehicle
7/1/2026	104, 110*, 108	Doug, Lisa	DD, MN, CV, ECC, MV, CA	car
7/6/2026	107, 109, 106, 10	Doug	DD, MN, CV, ECC	car
7/7/2026	111, 112, 105	Doug	DD, MN, CV, ECC	car
7/13/2026	101, 102, 103, 100T*	Doug, Akarion	DD, MN, CV, ECC	car
7/14/2026	305, 309, 310	Doug, Tyler	DD, MN, CV, ECC	4wd
7/20/2026	3, 11, 4;	Doug, Bailey	DD, MN, CV, ECC	4wd
7/21/2026	304, 307s	Doug, Akarion	DD, MN, CV, ECC	4wd
7/27/2026	311, 100T	Doug, Tyler	DD, MN, CV, ECC	car
7/28/2026	303s, 306, 308*	Doug, Ben	DD, MN, CV, ECC	car
8/3/2026	301, 302, 300, 308	Doug, Ben	DD, MN, CV, ECC	car
8/4/2026	2; 5; 8	Doug, Don	DD, MN, CV, ECC	car

g110* - 1 July - ECC NOT completed, finish when soil moisture sensor is installed, g100T* - 13 July – afternoon T-storms made gauge visit impossible; postponed until 27 July, and g308* - 28 July – morning and afternoon severe T-storms made gauge visit impossible; postponed until 3 August.

Gauge visitation in support of the Duke Great Smoky Mountain Rain Gauge Network (GSMRGN) during the summer 2026 campaign occurred over eleven days spanning a period of six weeks in July - August 2026. The primary purpose of the visits in the summer 2026 was [1] to perform downloads of gauge tip observations since the previous gauge visits in the spring 2026, [2] to complete rain gauge and data logger maintenance tasks, [3] to clear vegetation and tree limbs and, [4] to clean the electronic contact between the data logger lead wires and the tipping bucket (rain gauge) switch using a chemical solvent from a spray can. Four technicians and two volunteers (listed on the front page) made the visits and performed the required work. It is important to note that the volunteers were NOT directly involved in any critical gauge visit tasks but were volunteering primarily to assist with personal safety should someone get injured during a particular series of gauge visits.

The general tasks completed at every gauge visit consist of (1) gauge data download from the data loggers [DD in Table 1], (2) general gauge maintenance and ML1 logger condition monitoring [MN in Table 1], (3) clear vegetation within a five foot radius of the rain gauge [CV in Table 1], and, (4) electrical contact cleaning [ECC in Table 1]. Task (1) merely required a serial port link between the field study laptop and the gauge data logger and consisted of pulling the data (often in files having raw [*.txt] and CSV formats) onto a desktop folder on the laptop, checking for completeness of the data, and comparing the data logger time and date to the actual GPS time and date (making a screenshot of the time comparison). The standard that has been chosen for this study is to maintain the clocks on Eastern Daylight Time, since most of the “warm” precipitation will be occurring during the season when EDT is in effect. Most ML1A-FL data logger times have been adjusted (using “TA” command) during previous gauge visits to coincide with the EDT given by the GPS locator. Task (2) required the cleaning of debris from the funnel filter, cleaning the tipping buckets of debris (if necessary), cleaning the gauge drain ports and siphon, re-leveling the gauge if it has come unlevelled, and fixing or

replacing the gauge mesh if it had been damaged. Task (3) consisted of cutting briars and other growing vegetation during the summer season within a five-foot radius of the gauge using handsaw, clippers, or weeding by hand. Task (4) was completed successfully at all (but g #110) rain gauge locations. It was another Jekyll and Hyde summer campaign as the weather was cooperative for hiking during the first half of July (a dry spell) and switched to a rainy period during the second half of July and early August. Many streams and creeks had water flow that was as strong as has ever been observed. It appears the drought was over in the mountains by August 2026.

Specialized tasks were video and photograph downloads of the cameras at g #304 and #309 (SD card was again stolen from g #110), movement of the camera from g #110 to a location next to g #302 (Snake Den Ridge Trail), the removal of ants from an infestation at g #107, the cutting of small trees and tree limbs near the five-foot radius of the opening at several locations (g #110, g #010, g #106, g #105, g #305, g #304, g #302, g #008, and g #005), and the movement of g #104 from under a tree (moved in 1 April 2025 due to construction of a quad ski lift) back to near its original position on 1 July 2026. Calibration trials were run at g #104 on 1 July after being moved. The drought experienced during the spring and early summer 2026 allowed for enough time for a spider to assemble a super-strong web attached to the tipping buckets of g #102 (Hemphill Bald) that prevented it from tipping until it was cleared on 13 July. The funnel cover of g #103 (JL Rich property) was found removed again and the leading suspect is a bull elk. Owners of the property have been consulted, and it is hoped they will approve the installation of a fence similar to what was done at g #110 (Hawkings property) that has successfully prevented bull elk from removing the gauge cover there. It was also found that someone had defecated next to the gauge post of g #303s (Mt Cammerer) and had left part of their wipe packaging disposed of inside of the funnel cover. We're thankful they chose not to defecate inside the funnel cover. Wild pigs are making a mess of the mountainside on Sunup Knob and it is possible another stabilizing post may need to be installed next to g #306 to keep it from sliding down the mountain. Plumbers putty was installed along the lip of the funnel covers at g #301 and #308 to direct water dropping into the gauge opening toward the syphon and tipping buckets. The logger battery at g #308 had run down completely by 3 August and was replaced. The new threshold for lithium battery replacement is **3.55 V** when tested by multimeter.

Details of every gauge visit along with raw precipitation text and CSV format files are found via Google Drive https://drive.google.com/file/d/1Q6cXfPdcfoC9LfmGQn1JOAK4J7reWTo_/view?usp=drive_link which contains sub-folders for each gauge that consist of the individual data files (often having at least two different formats), pictures taken at the gauge site during the visit, screenshots of the GPS (laptop) and ML1 logger time comparison, and a MS Word document that mirrors the notes made in the field journal during each visit.

Noteworthy precipitation events of March – June 2026 as observed at KAVL are highlighted **in yellow** in **Appendix A**. The significantly below-normal rainfall in three of the four months (March – June) led to extreme drought conditions by late-spring, leading to burn bans in most of western North Carolina in May. Significant rainfall returned to the region in mid-July and continued into early August.

Plans for the autumn months of 2026

Table 2: Planned gauge visits during the autumn 2026 campaign. DD=gauge data download, MN=general gauge maintenance (cleaning, re-level), CA= rain gauge calibration, CV= vegetation clearing, ECC=electric contact cleaning treatment, and BR = data logger battery replacement.

Date	Gauges Visited	Technicians	Comments
?? Oct 2026	3; 11; 10, 4	Doug + 1 technician	DD, MN, CV, BR
?? Oct 2026	107, 109, 104, 108	Doug + 1 technician	DD, MN, CV, BR
?? Oct 2026	110, 105, 111, 112	Doug + 1 technician	DD, MN, CV, BR
?? Oct 2026	304, 307s	Doug + 2 technicians	DD, MN, CV, BR
?? Oct 2026	101, 102, 103, 100T	Doug + 1 technician	DD, MN, CV, BR
?? Nov 2026	303s, 306, 308	Doug + 2 technicians	DD, MN, CV, BR
?? Nov 2026	305, 309, 310	Doug + 2 technicians	DD, MN, CV, BR
?? Nov 2026	311;	Doug + 1 technician	DD, MN, CV, BR
?? Nov 2026	2; 5; 8; 106	Doug + 1 technician	DD, MN, CV, BR
?? Nov 2026	301, 302, 300	Doug + 2 technicians	DD, MN, CV, BR

Gauge visitation in support of the Duke GSMRGN during the autumn 2026 will occur over at least ten days spanning October and November 2026. The primary purpose of the visits will be to download precipitation observations that were made since the previous gauge visits in July - August 2026 [DD in Table 2], perform maintenance and check if the ML1 logger times have drifted between visits and make the corresponding needed adjustments [MN in Table 2], and clear vegetation (and tree branches) from overhanging gauges [CV in Table 2], and replace ALL logger lithium batteries in anticipation of the cold wintry weather that provides challenging conditions to the smooth operation of lithium batteries.

Details of every gauge visit along with each gauge precipitation record will be posted online and shall contain sub-folders for each gauge that consist of the individual data files (often having at least two different formats), pictures taken at the gauge site during the visit, screenshots of the GPS (laptop) and ML1 logger time comparison, and a MS Word document that mirrors the field notes made during each visit.

The technician roster during the 2025-2026 academic year consisted of Lexi Dooley, Adam Goodman, Alexa Kaley, Bailey Kelley, Akarion Kozma, Zachary Moss, Andrew Price, Stephen Reams, Lucas Shelton, Cameryn Shochet, Tyler Smith, and Ben Zeidell. New undergraduate research students at UNC Asheville will be recruited as field technicians for the Duke GSMRGN project in the Fall 2026. Mountain Raingers Lexi Dooley, Zachary Moss, and Andrew Price graduated in May 2026.

Table 3: The Duke Great Smoky Mountain Rain Gauge Network is currently (valid as of 5 August 2026) composed of 32 tipping bucket rain gauges.

Gauge #	Location	Latitude	Longitude	Elevation
RG002	Lickstone Bald	35°25.5' N	82°58.2' W	5680 ft.
RG003	High Top	35°23.0' N	82°54.9' W	5280 ft.
RG004	Lickstone Ridge S	35°22.0' N	82°59.4' W	6305 ft.
RG005	Deep Gap	35°24.5' N	82°57.8' W	4986 ft.
RG008	Double Spring Gap	35°22.9' N	82°58.4' W	5700 ft.
RG010	Beaty Spring Gap	35°27.3' N	82°56.8' W	4849 ft.
RG011	near Deep Gap	35°23.7' N	82°54.9' W	4081 ft.
RG100T	Purchase Knob	35°35.1' N	83°04.3' W	4905 ft.
RG101	The Swag	35°34.5' N	83°05.2' W	4986 ft.
RG102	Hemphill Bald	35°33.8' N	83°06.2' W	5365 ft.
RG103	JR Property	35°33.2' N	83°07.0' W	5539 ft.
RG104	Cat. Ski Area	35°33.2' N	83°05.2' W	5208 ft.
RG105	KH Property	35°38.0' N	83°02.4' W	4412 ft
RG106	Pinnacle Ridge	35°25.9' N	83°01.7' W	3969 ft
RG107	Lookout Point	35°34.0' N	82°54.4' W	4459 ft
RG108	Utah Mountain	35°33.2' N	82°59.3' W	4188 ft
RG109	Eaglesnest Ridge	35°29.7' N	83°02.4' W	4922 ft
RG110	JH Property	35°32.8' N	83°08.8' W	5128 ft
RG111	Hurricane Ridge	35°43.7' N	82°56.8' W	4573 ft
RG112	Ore Knob	35°45.0' N	82°57.8' W	3884 ft
RG300	Camel Hump Knob	35°43.5' N	83°13.0' W	5110 ft
RG301	Mt Guyot	35°42.3' N	83°15.3' W	6570 ft
RG302	Snake Den Ridge	35°43.2' N	83°14.8' W	6104 ft
RG303s	Mt Cammerer	35°45.7' N	83°09.7' W	4887 ft
RG304	Big Cataloochee	35°40.2' N	83°10.9' W	5971 ft

RG305	Mt Sterling 1	35°41.4'N	83°07.9'W	5349 ft
RG306	Sunup Knob	35°44.7'N	83°10.2'W	5039 ft
RG307s	Balsam Mountain	35°39.0'N	83°11.9'W	5327 ft
RG308	Cosby Knob	35°43.8' N	83°10.9'W	4826 ft
RG309	Mt Sterling 2	35°40.9'N	83°09.0'W	5262 ft
RG310	Mt Sterling 3	35°42.1'N	83°07.3'W	5761 ft
RG311	Big Creek	35°45.9'N	83°08.4'W	3398 ft

Appendix A

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CXUS52 KGSP 010817

CF6AVL

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: ASHEVILLE NC

MONTH: MARCH

YEAR: 2026

LATITUDE: 35 25 N

LONGITUDE: 82 33 W

TEMPERATURE IN F:						:PCPN:		SNOW:		WIND		:SUNSHINE:				SKY		:PK WND	
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18	
12Z AVG MX 2MIN																			
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR	
1	70	36	53	8	12	0	0.00	0.0	0	2.3	15	340	M	M	1		22	340	
2	51	42	47	2	18	0	T	0.0	0	4.3	13	170	M	M	6		19	180	
3	64	40	52	7	13	0	T	0.0	0	8.6	20	190	M	M	7		29	170	
4	76	42	59	13	6	0	0.00	0.0	0	4.6	14	170	M	M	0		20	200	
5	77	45	61	15	4	0	0.00	0.0	0	5.7	18	210	M	M	1 1		26	210	
6	81	47	64	18	1	0	0.02	0.0	0	4.8	18	190	M	M	3		26	220	
7	76	60	68	22	0	3	0.44	0.0	0	9.7	22	190	M	M	3 13		31	210	
8	68	52	60	14	5	0	0.16	0.0	0	4.1	15	330	M	M	6 1		26	320	
9	75	50	63	16	2	0	0.00	0.0	0	2.7	10	160	M	M	4 128		15	150	
10	77	48	63	16	2	0	T	0.0	0	2.1	9	180	M	M	4 18		12	170	
11	83	58	71	24	0	6	0.00	0.0	0	8.4	21	200	M	M	1		31	200	
12	65	33	49	2	16	0	0.44	0.0	0	15.3	38	340	M	M	5 1		55	320	
13	59	29	44	-4	21	0	0.00	0.0	0	9.9	22	200	M	M	0		35	190	
14	71	35	53	5	12	0	0.00	0.0	0	5.5	16	140	M	M	0		22	340	
15	66	43	55	7	10	0	0.03	0.0	0	7.5	20	160	M	M	5 1		29	170	
16	62	26	44	-4	21	0	0.44	T	0	12.6	28	330	M	M	9 13		42	320	
17	40	22	31	-17	34	0	T	T	0	9.7	21	310	M	M	4 1		33	310	
18	45	26	36	-13	29	0	0.00	0.0	0	6.2	13	140	M	M	4		18	330	
19	63	28	46	-3	19	0	0.00	0.0	0	2.3	12	20	M	M	0		20	320	
20	73	31	52	3	13	0	0.00	0.0	0	3.9	18	210	M	M	0		28	200	
21	76	44	60	10	5	0	0.14	0.0	0	1.3	21	330	M	M	3 138		35	340	
22	83	44	64	14	1	0	0.00	0.0	0	5.1	21	200	M	M	2 12		28	190	
23	72	48	60	10	5	0	0.00	0.0	0	13.3	25	340	M	M	1		42	320	
24	58	41	50	0	15	0	0.00	0.0	0	8.4	22	340	M	M	0		31	340	
25	64	38	51	0	14	0	0.00	0.0	0	7.1	16	140	M	M	0		23	150	
26	76	45	61	10	4	0	0.00	0.0	0	5.0	18	200	M	M	3		25	190	
27	84	49	67	16	0	2	0.00	0.0	0	10.3	29	330	M	M	2 8		41	340	
28	59	37	48	-4	17	0	0.00	0.0	0	12.6	31	330	M	M	0		51	330	
29	61	29	45	-7	20	0	0.00	0.0	0	6.7	16	180	M	M	1		24	170	
30	73	44	59	7	6	0	0.00	0.0	0	7.5	17	210	M	M	5		25	230	
31	77	56	67	15	0	2	0.00	0.0	0	6.8	20	210	M	M	5		29	200	
SM	2125	1268			325	13	1.67	T		214.3			M		85				
AV	68.5	40.9								6.9	FASTST		M	M	3	MAX (MPH)			
								MISC	----		38 340					55 320			

NOTES:

LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: ASHEVILLE NC

MONTH: MARCH

YEAR: 2026
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 54.7 TOTAL FOR MONTH: 1.67 1 = FOG OR MIST
DPTR FM NORMAL: 6.3 DPTR FM NORMAL: -2.13 2 = FOG REDUCING VISIBILITY
HIGHEST: 84 ON 27 GRTST 24HR 0.47 ON 15-16 TO 1/4 MILE OR LESS
LOWEST: 22 ON 17 3 = THUNDER
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS
TOTAL MONTH: T 5 = HAIL
GRTST 24HR T ON 16-16 6 = FREEZING RAIN OR DRIZZLE
GRTST DEPTH: 0 7 = DUSTSTORM OR SANDSTORM:
VSBY 1/2 MILE OR LESS
8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]

MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 7
MAX 90 OR ABOVE: 0 0.10 INCH OR MORE: 5
MIN 32 OR BELOW: 7 0.50 INCH OR MORE: 0
MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65)]

TOTAL THIS MO. 325 CLEAR (SCALE 0-3) 18
DPTR FM NORMAL -190 PTCLDY (SCALE 4-7) 12
TOTAL FM JUL 1 3295 CLOUDY (SCALE 8-10) 1
DPTR FM NORMAL -201

[CDD (BASE 65)]

TOTAL THIS MO. 13
DPTR FM NORMAL 12 [PRESSURE DATA]
TOTAL FM JAN 1 13 HIGHEST SLP 30.59 ON 29
DPTR FM NORMAL 12 LOWEST SLP 29.47 ON 16

[REMARKS]
#FINAL-03-26#

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CXUS52 KGSP 010817
CF6AVL
PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: ASHEVILLE NC
MONTH: APRIL
YEAR: 2026
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

TEMPERATURE IN F:					:PCPN:	SNOW:	WIND	:SUNSHINE:					SKY	:PK WND				
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
12Z AVG MX 2MIN																		
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	77	56	67	14	0	2	0.08	0.0	0	4.4	21	190	M	M	1	3	28	190
2	80	52	66	13	0	1	0.00	0.0	0	6.4	20	160	M	M	1		26	170
3	78	54	66	13	0	1	0.00	0.0	0	7.1	17	180	M	M	2		24	170
4	75	58	67	13	0	2	0.17	0.0	0	7.3	18	220	M	M	6	1	30	210
5	66	50	58	4	7	0	0.44	0.0	0	9.3	24	340	M	M	6	1	33	20

6	64	44	54	0	11	0	0.00	0.0	0	10.2	22	330	M	M	0	34	320
7	67	40	54	0	11	0	0.00	0.0	0	6.1	22	330	M	M	0	31	310
8	60	37	49	-6	16	0	0.00	0.0	0	4.5	14	170	M	M	0	23	160
9	67	33	50	-5	15	0	0.00	0.0	0	4.4	13	140	M	M	0	21	110
10	76	34	55	0	10	0	0.00	0.0	0	2.7	13	190	M	M	0	23	340
11	79	40	60	4	5	0	0.00	0.0	0	3.9	16	330	M	M	2	25	330
12	81	45	63	7	2	0	0.00	0.0	0	5.3	21	160	M	M	0	31	150
13	80	55	68	12	0	3	0.00	0.0	0	6.7	17	210	M	M	0	26	190
14	81	48	65	8	0	0	0.00	0.0	0	3.3	13	190	M	M	1	17	190
15	86	49	68	11	0	3	0.00	0.0	0	4.9	15	180	M	M	0	23	220
16	85	51	68	11	0	3	T	0.0	0	4.7	18	350	M	M	1	31	340
17	81	55	68	10	0	3	0.01	0.0	0	5.9	17	20	M	M	1	29	40
18	86	47	67	9	0	2	0.00	0.0	0	6.6	20	200	M	M	1	28	160
19	66	44	55	-3	10	0	0.05	0.0	0	16.0	35	330	M	M	3 1	54	330
20	70	34	52	-6	13	0	0.00	0.0	0	6.0	24	320	M	M	1	44	290
21	72	36	54	-5	11	0	0.00	0.0	0	4.5	15	160	M	M	0	26	290
22	78	41	60	1	5	0	0.00	0.0	0	4.5	18	320	M	M	0	26	330
23	80	42	61	2	4	0	0.00	0.0	0	2.4	15	220	M	M	1 8	22	240
24	78	47	63	3	2	0	T	0.0	0	2.1	13	330	M	M	2	18	190
25	69	46	58	-2	7	0	0.40	0.0	0	3.1	15	330	M	M	5 1	23	310
26	76	57	67	7	0	2	0.00	0.0	0	5.5	13	140	M	M	7 1	19	150
27	68	51	60	0	5	0	0.00	0.0	0	7.8	16	150	M	M	5	23	150
28	72	49	61	1	4	0	0.72	0.0	0	5.4	16	170	M	M	4 13	22	180
29	80	58	69	8	0	4	T	0.0	0	6.8	22	320	M	M	6 13	32	320
30	68	53	61	0	4	0	0.00	0.0	0	10.5	22	330	M	M	2	32	10

SM	2246	1406		142	26	1.87	0.0		178.3		M		58				
AV	74.9	46.9							5.9	FASTST	M	M	2		MAX(MPH)		
									MISC	---->					54	330	

NOTES:

LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: ASHEVILLE NC
MONTH: APRIL
YEAR: 2026
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 60.9	TOTAL FOR MONTH: 1.87	1 = FOG OR MIST
DPTR FM NORMAL: 3.9	DPTR FM NORMAL: -2.30	2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS
HIGHEST: 86 ON 18,15	GRTST 24HR 0.72 ON 28-28	3 = THUNDER
LOWEST: 33 ON 9		4 = ICE PELLETS
	SNOW, ICE PELLETS, HAIL	5 = HAIL
	TOTAL MONTH: 0.0 INCH	6 = FREEZING RAIN OR DRIZZLE
	GRTST 24HR 0.0	7 = DUSTSTORM OR SANDSTORM: VSBY 1/2 MILE OR LESS
	GRTST DEPTH: 0	8 = SMOKE OR HAZE
		9 = BLOWING SNOW
		X = TORNADO
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	
MAX 32 OR BELOW: 0	0.01 INCH OR MORE: 7	
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 4	
MIN 32 OR BELOW: 0	0.50 INCH OR MORE: 1	
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 0	

[HDD (BASE 65)]		
TOTAL THIS MO. 142	CLEAR (SCALE 0-3)	23
DPTR FM NORMAL -112	PTCLDY (SCALE 4-7)	7
TOTAL FM JUL 1 3437	CLOUDY (SCALE 8-10)	0

DPTR FM NORMAL -310

[CDD (BASE 65)]

TOTAL THIS MO. 26

DPTR FM NORMAL 12 [PRESSURE DATA]

TOTAL FM JAN 1 39 HIGHEST SLP 30.49 ON 9

DPTR FM NORMAL 24 LOWEST SLP 29.75 ON 30

[REMARKS]

#FINAL-04-26#

999

CXUS52 KGSP 010817

CF6AVL

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: ASHEVILLE NC

MONTH: MAY

YEAR: 2026

LATITUDE: 35 25 N

LONGITUDE: 82 33 W

TEMPERATURE IN F:					:PCPN:			SNOW:		WIND		:SUNSHINE:				SKY		:PK WND		
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18		
										12Z	AVG	MX	2MIN							
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR		
1	65	47	56	-5	9	0	0.00	0.0	0	4.4	14	170	M	M	2		19	150		
2	62	46	54	-8	11	0	0.00	0.0	0	9.8	22	330	M	M	4		33	330		
3	66	36	51	-11	14	0	0.00	0.0	0	3.3	12	330	M	M	1		18	330		
4	76	37	57	-5	8	0	0.00	0.0	0	4.7	17	210	M	M	0		27	210		
5	74	44	59	-3	6	0	0.00	0.0	0	8.5	23	190	M	M	0		34	180		
6	71	60	66	4	0	1	0.76	0.0	0	6.3	16	180	M	M	5	13	25	190		
7	67	50	59	-4	6	0	0.23	0.0	0	8.8	26	340	M	M	6	13	42	330		
8	66	43	55	-8	10	0	0.00	0.0	0	5.3	15	160	M	M	1	1	23	140		
9	74	47	61	-2	4	0	0.00	0.0	0	3.6	14	340	M	M	3		20	330		
10	79	48	64	1	1	0	0.00	0.0	0	5.2	15	330	M	M	0		23	330		
11	69	55	62	-2	3	0	T	0.0	0	7.6	23	330	M	M	5		34	330		
12	69	50	60	-4	5	0	0.00	0.0	0	4.9	13	140	M	M	3		19	170		
13	75	43	59	-5	6	0	0.00	0.0	0	4.2	20	340	M	M	3		28	330		
14	66	48	57	-7	8	0	0.00	0.0	0	12.0	23	340	M	M	0		35	320		
15	75	40	58	-6	7	0	0.00	0.0	0	3.4	12	210	M	M	0		19	200		
16	84	45	65	0	0	0	0.00	0.0	0	2.5	12	170	M	M	0		15	170		
17	85	57	71	6	0	6	0.00	0.0	0	3.7	15	150	M	M	0		22	110		
18	86	59	73	8	0	8	0.00	0.0	0	5.6	17	160	M	M	1		25	190		
19	88	57	73	8	0	8	0.00	0.0	0	4.6	15	180	M	M	0		21	180		
20	87	56	72	6	0	7	0.12	0.0	0	3.7	13	320	M	M	1	13	18	360		
21	80	65	73	7	0	8	0.17	0.0	0	3.5	14	140	M	M	7	13	22	130		
22	69	59	64	-2	1	0	0.85	0.0	0	7.4	18	180	M	M	10	18	24	180		
23	67	58	63	-3	2	0	1.05	0.0	0	5.2	10	170	M	M	10	1	14	140		
24	66	60	63	-4	2	0	0.76	0.0	0	5.9	12	160	M	M	10	1	16	160		
25	79	65	72	5	0	7	2.89	0.0	0	5.2	14	340	M	M	9	13	21	330		
26	80	65	73	6	0	8	1.00	0.0	0	4.6	14	180	M	M	8	13	20	180		
27	83	66	75	8	0	10	0.80	0.0	0	4.0	14	330	M	M	6	13	22	190		
28	84	64	74	6	0	9	0.00	0.0	0	7.0	18	330	M	M	3	1	25	340		
29	80	60	70	2	0	5	0.00	0.0	0	3.8	12	150	M	M	3		19	160		
30	79	66	73	5	0	8	0.35	0.0	0	7.5	14	340	M	M	6	13	21	330		
31	73	57	65	-3	0	0	T	0.0	0	4.9	14	150	M	M	7		21	160		
SM	2324	1653			103	85	8.98	0.0		171.1			M		114					
AV	75.0	53.3								5.5	FASTST		M	M	4		MAX (MPH)			
							MISC	----		26	340						42	330		

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NOTES:

LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: ASHEVILLE NC
 MONTH: MAY
 YEAR: 2026
 LATITUDE: 35 25 N
 LONGITUDE: 82 33 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 64.1	TOTAL FOR MONTH: 8.98	1 = FOG OR MIST
DPTR FM NORMAL: -0.7	DPTR FM NORMAL: 4.85	2 = FOG REDUCING VISIBILITY
HIGHEST: 88 ON 19	GRTST 24HR 3.67 ON 25-26	TO 1/4 MILE OR LESS
LOWEST: 36 ON 3		3 = THUNDER
	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: 0.0 INCH	5 = HAIL
	GRTST 24HR 0.0	6 = FREEZING RAIN OR DRIZZLE
	GRTST DEPTH: 0	7 = DUSTSTORM OR SANDSTORM:
		VSBY 1/2 MILE OR LESS
		8 = SMOKE OR HAZE
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	9 = BLOWING SNOW
MAX 32 OR BELOW: 0	0.01 INCH OR MORE: 11	X = TORNADO
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 11	
MIN 32 OR BELOW: 0	0.50 INCH OR MORE: 7	
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 3	
[HDD (BASE 65)]		
TOTAL THIS MO. 103	CLEAR (SCALE 0-3) 17	
DPTR FM NORMAL 19	PTCLDY (SCALE 4-7) 10	
TOTAL FM JUL 1 3540	CLOUDY (SCALE 8-10) 4	
DPTR FM NORMAL -293		
[CDD (BASE 65)]		
TOTAL THIS MO. 85		
DPTR FM NORMAL 9	[PRESSURE DATA]	
TOTAL FM JAN 1 124	HIGHEST SLP 30.13 ON 31	
DPTR FM NORMAL 33	LOWEST SLP 29.88 ON 30	
[REMARKS]		
#FINAL-05-26#		

927
 CXUS52 KGSP 081424
 CF6AVL

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: ASHEVILLE NC
 MONTH: JUNE
 YEAR: 2026
 LATITUDE: 35 25 N
 LONGITUDE: 82 33 W

TEMPERATURE IN F:	:PCPN:	SNOW:	WIND	:SUNSHINE:	SKY	:PK WND
=====	=====	=====	=====	=====	=====	=====
1 2 3 4 5 6A 6B 7 8 9 10 11 12 13 14 15 16 17 18						
			12Z AVG MX 2MIN			

DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	81	60	71	2	0	6	T	0.0	0	5.2	15	340	M	M	4		24	340
2	66	51	59	-10	6	0	0.06	0.0	0	2.5	9	240	M	M	8	3	14	220
3	75	49	62	-7	3	0	0.00	0.0	0	3.5	9	140	M	M	4	12	14	140
4	79	48	64	-5	1	0	0.00	0.0	0	3.5	12	310	M	M	0		19	30
5	83	52	68	-2	0	3	0.00	0.0	0	3.9	12	170	M	M	0		17	320
6	84	55	70	0	0	5	0.00	0.0	0	2.7	12	210	M	M	1		19	220
7	83	61	72	2	0	7	0.00	0.0	0	4.2	14	330	M	M	2		19	330
8	83	66	75	5	0	10	0.00	0.0	0	3.8	10	170	M	M	5		16	150
9	78	68	73	3	0	8	0.22	0.0	0	5.1	12	140	M	M	5	1	18	150
10	84	67	76	5	0	11	0.24	0.0	0	4.1	15	230	M	M	4	1	22	240
11	87	65	76	5	0	11	T	0.0	0	3.3	13	340	M	M	1	3	18	310
12	89	66	78	7	0	13	0.45	0.0	0	4.4	26	290	M	M	2	138	33	320
13	88	67	78	7	0	13	0.00	0.0	0	3.7	13	210	M	M	2	3	18	340
14	83	64	74	2	0	9	0.11	0.0	0	4.2	14	340	M	M	2	1	23	360
15	77	62	70	-2	0	5	0.00	0.0	0	9.8	23	340	M	M	0		35	360
16	79	58	69	-3	0	4	0.00	0.0	0	5.3	14	190	M	M	2		21	120
17	84	58	71	-1	0	6	0.00	0.0	0	5.4	18	220	M	M	0		28	210
18	88	68	78	6	0	13	0.40	0.0	0	7.9	20	180	M	M	3	1	30	230
19	83	66	75	2	0	10	0.05	0.0	0	11.8	24	330	M	M	0		34	340
20	79	56	68	-5	0	3	0.00	0.0	0	3.0	13	200	M	M	0		17	230
21	83	57	70	-3	0	5	0.00	0.0	0	4.2	12	190	M	M	0		16	130
22	87	63	75	2	0	10	0.41	0.0	0	4.6	14	250	M	M	2		21	240
23	79	62	71	-2	0	6	0.04	0.0	0	10.2	25	330	M	M	2	1	38	340
24	77	59	68	-6	0	3	0.00	0.0	0	3.7	12	190	M	M	1		19	350
25	83	57	70	-4	0	5	0.00	0.0	0	4.2	13	180	M	M	2		16	190
26	85	63	74	0	0	9	0.03	0.0	0	3.2	13	180	M	M	3	13	19	170
27	87	67	77	3	0	12	T	0.0	0	2.7	16	340	M	M	1		27	350
28	81	68	75	1	0	10	0.37	0.0	0	4.3	14	340	M	M	4	1	23	340
29	90	67	79	5	0	14	T	0.0	0	5.0	17	350	M	M	4	3	27	350
30	89	70	80	6	0	15	0.16	0.0	0	2.5	15	280	M	M	7	13	23	300
=====																		
SM	2474	1840			10	226	2.54	0.0		141.9			M		71			
=====																		
AV	82.5	61.3								4.7	FASTST		M	M	2		MAX (MPH)	
								MISC	----	>	26	290					38	340
=====																		

NOTES:

LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: ASHEVILLE NC
MONTH: JUNE
YEAR: 2026
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

[TEMPERATURE DATA]

AVERAGE MONTHLY: 71.9
DPTR FM NORMAL: 0.1
HIGHEST: 90 ON 29
LOWEST: 48 ON 4

[PRECIPITATION DATA]

TOTAL FOR MONTH: 2.54
DPTR FM NORMAL: -2.25
GRTST 24HR 0.45 ON 12-12
SNOW, ICE PELLETS, HAIL
TOTAL MONTH: 0.0 INCH
GRTST 24HR 0.0
GRTST DEPTH: 0

SYMBOLS USED IN COLUMN 16

1 = FOG OR MIST
2 = FOG REDUCING VISIBILITY
TO 1/4 MILE OR LESS
3 = THUNDER
4 = ICE PELLETS
5 = HAIL
6 = FREEZING RAIN OR DRIZZLE
7 = DUSTSTORM OR SANDSTORM:
VSBY 1/2 MILE OR LESS
8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

[NO. OF DAYS WITH]

MAX 32 OR BELOW: 0

[WEATHER - DAYS WITH]

0.01 INCH OR MORE: 12

MAX 90 OR ABOVE:	1	0.10 INCH OR MORE:	8
MIN 32 OR BELOW:	0	0.50 INCH OR MORE:	0
MIN 0 OR BELOW:	0	1.00 INCH OR MORE:	0

[HDD (BASE 65)]			
TOTAL THIS MO.	10	CLEAR (SCALE 0-3)	20
DPTR FM NORMAL	2	PTCLDY (SCALE 4-7)	9
TOTAL FM JUL 1	3550	CLOUDY (SCALE 8-10)	1
DPTR FM NORMAL	-288		

[CDD (BASE 65)]			
TOTAL THIS MO.	226		
DPTR FM NORMAL	14	[PRESSURE DATA]	
TOTAL FM JAN 1	350	HIGHEST SLP 30.35 ON	3
DPTR FM NORMAL	47	LOWEST SLP 29.79 ON	14

[REMARKS]
#FINAL-06-26#