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Table 1: Gauge visits during the spring 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
3/10/2026	111, 112	Doug	DD, MN, CV, CA	any vehicle
3/11/2026	4*; 10, 106	Doug	DD, MN, CV, CA	any vehicle
3/20/2026	101, 102, 103	Doug, Lexi, Andrew	DD, MN, CV, CA	any vehicle
3/21/2026	311;	Doug, Lucas	DD, MN, CV, CA	any vehicle
3/29/2026	3; 11	Doug	DD, MN, CV, CA	4wd needed
4/3/2026	110, 4**, 108	Doug, Lisa	DD, MN, CV, CA	any vehicle
4/4/2026	303s, 306	Doug, Tyler, Cameryn	DD, MN, CV, CA	any vehicle
4/11/2026	305, 309, 310	Doug, Andrew, Lexi, Tyler	DD, MN, CV, CA	4wd needed
4/17/2026	107, 109	Doug	DD, MN, CV, CA	any vehicle
4/18/2026	301, 302	Doug, Akarion, Lucas	DD, MN, CV, CA	any vehicle
4/24/2026	304, 307	Doug, Andrew, Lexi	DD, MN, CV	any vehicle
4/25/2026	make-up day	Doug, Cameryn	DD, MN, CV, CA	any vehicle
5/1/2026	105, 100T	Doug	DD, MN, CV, CA	any vehicle
5/2/2026	300, 308	Doug, Zachary, Akarion	DD, MN, CV, CA	any vehicle
5/5/2026		Doug	DD, MN, CV, CA	any vehicle
5/7/2026	make-up day	Doug, Lexi, (Ben if needed)	DD, MN, CV, CA	any vehicle
5/8/2026	2; 5; 8	Doug	DD, MN, CV, CA	any vehicle

4* (3/11/2026) ==> data logger glitch fails to record calibration tips, 4** (4/3/2026) ==> successful calibration trials. ,

Gauge visitation in support of the Duke Great Smoky Mountain Rain Gauge Network (GSMRGN) during the spring 2026 campaign occurred over fourteen days spanning a period of nine weeks in March - May 2026. The primary purpose of the visits in the spring 2026 was [1] to perform downloads of gauge tip observations since the previous gauge visits in the autumn 2025, [2] to complete rain gauge and data logger maintenance tasks, [3] to clear vegetation and tree limbs and, [4] to calibrate ALL rain gauges since field calibrations were last completed in the spring 2025. Nine technicians and 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) calibration of rain gauges using a single trial of the 50, 100, and 300 mm nozzles [CA 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 ML1-FL and 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 emerging vegetation and/or tree limbs during the spring season within a five-foot radius of the gauge using a saw, clippers, or weeding by hand. Task (4) was completed successfully at most functional rain gauge locations. Calibration trials at gauges #304 and 307s, completed in fall 2025, represented the first trials at these gauges since before Helene (spring 2024). The visit to the rain gauge on Mt. Guyot (#301) was the first since summer 2025 as falling rime ice in November 2025 made its visit unsafe. Fortunately, the battery at g #301 was functional and the rainfall observations record was complete. A data logger glitch at g #004 on 11 March required a re-visit and re-do of the calibration trials on 3 April. Gauge #104 is still located under a tree near the newly installed quad ski lift and will be moved back to its climatological (tree-free) position by summer 2026. Gauge #112 is now experiencing increased elk encounters and may have a fence installed in summer 2026. Gauge #103 had its cover removed (elk?) and failed to register tips during the winter season. All in all, 31 of 32 rain gauges of the Duke GSMRGN had a complete record over the 2025-2026 winter season. Erosion at several locations (e.g., g #004, g #010, g #301, g #308) requires continuous monitoring so the gauges don’t become too unlevel since their installations in 2007-2009. The time adjust (“TA”) issue of some of the loggers has stabilized. Three field cameras have now been deployed in and near the GSMNP to illuminate the types of animals typical of each location. A fourth camera will be purchased and installed next to g #302 in summer 2026 if NOAA funding gains final approval.

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/1Xkn2CyKtQ0omS2nNULVfgjTEEdO4kVyY/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.

A few noteworthy precipitation events of October 2025 – February 2026 as observed at KAVL are highlighted in yellow in **Appendix A**. The five month period at KAVL experienced significantly below-normal rainfall in late 2025 and early 2026, resulting in a prolonged burn ban in North Carolina [<https://www.ncagr.gov/news/press-releases/2026/03/28/statewide-burn-ban-issued-north-carolina-due-hazardous-forest-fire-conditions>]. The drought persisted through the entire period of rain gauge visits in the spring, resulting in zero postponements or cancellations due to rainfall interfering with the gauge calibration trials (highly unusual).

A young buck hanging out near g #304 (Big Cataloochee Mountain)

https://drive.google.com/file/d/1DgS4FqdzP5wdecqvikfC3X6Cj5TNXz_I/view?usp=drive_link

Table 2: Planned gauge visits during the summer 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
7/??/2026	3; 11; 107; 109	Doug + 1 field technician	DD, MN, CV, ECC
7/??/2026	2; 5; 8; 106; 10	Doug + 1 field technician	DD, MN, CV, ECC
7/??/2026	4; 104, 110, 105	Doug + 1 field technician	DD, MN, CV, ECC
7/??/2026	111, 112, 311	Doug + 1 field technician	DD, MN, CV, ECC
7/??/2026	101, 102, 103, 100T, 108	Doug + 1 field technician	DD, MN, CV, ECC
7/??/2026	303s, 306, 308	Doug + 2 field technicians	DD, MN, CV, ECC
7/??/2026	304, 307s	Doug + 2 field technicians	DD, MN, CV, ECC
8/??/2026	305, 309, 310	Doug + 2 field technicians	DD, MN, CV, ECC
8/??/2026	301, 302, 300	Doug + 2 field technicians	DD, MN, CV, ECC

Gauge visitation in support of the Duke GSMRGN during the summer 2026 will occur over at least nine days spanning July and August 2026. The primary purpose of the visits will be to download precipitation observations that were made since the previous gauge visits in March - May 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 electronic contact cleaning [ECC in Table 2]. Gauge parts and loggers may have to be replaced during some of the visits if less-than-acceptable conditions show no signs of improvement, as noted in the previous section description.

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, Bryce Glenn, Adam Goodman, Alexa Kaley, Akarion Kozma, Dylan Metcalf, Zachary Moss, Andrew Price, Obi Osaro, Stephen Reams, Lucas Shelton, Cameryn Shochet, Piper Shuster, 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. Field technicians Lexi Dooley, Bryce Glenn, Zachary Moss, Andrew Price, Obi Osaro, and Piper Shuster graduated in May 2026.

Table 3: The Duke Great Smoky Mountain Rain Gauge Network is currently (valid as of 12 May 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 Summer 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

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - <http://www.ncdc.noaa.gov>.

WFO Monthly/Daily Climate Data

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CXUS52 KGSP 010817

CF6AVL

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

STATION: ASHEVILLE NC

MONTH: OCTOBER

YEAR: 2025

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	78	57	68	5	0	3	0.00	0.0	0	2.1	10	150	M	M	4		14	310
2	69	49	59	-4	6	0	0.00	0.0	0	1.9	8	180	M	M	5		11	130
3	72	43	58	-5	7	0	0.00	0.0	0	1.6	8	200	M	M	1	12	15	120
4	74	47	61	-1	4	0	0.00	0.0	0	2.0	12	160	M	M	4	12	17	150
5	69	54	62	0	3	0	0.00	0.0	0	1.6	13	150	M	M	9		17	150
6	71	58	65	3	0	0	0.09	0.0	0	3.6	12	160	M	M	9	18	16	170
7	73	61	67	6	0	2	0.03	0.0	0	5.1	13	160	M	M	9	12	18	140
8	77	58	68	7	0	3	0.01	0.0	0	8.9	21	330	M	M	4		33	330
9	69	49	59	-1	6	0	0.00	0.0	0	3.0	12	180	M	M	3		19	190
10	65	41	53	-7	12	0	0.00	0.0	0	1.1	9	170	M	M	2	1	16	150
11	67	46	57	-3	8	0	0.00	0.0	0	3.2	16	330	M	M	1	1	37	350
12	75	50	63	4	2	0	0.00	0.0	0	7.7	16	330	M	M	2		29	350
13	75	53	64	5	1	0	0.00	0.0	0	8.2	18	330	M	M	3		31	320
14	76	53	65	6	0	0	0.00	0.0	0	12.6	22	330	M	M	0		34	340
15	79	50	65	7	0	0	0.00	0.0	0	8.0	21	330	M	M	0		29	330
16	74	52	63	5	2	0	0.00	0.0	0	9.0	17	330	M	M	0		26	320
17	73	42	58	0	7	0	0.00	0.0	0	2.4	9	170	M	M	0		12	190
18	78	46	62	5	3	0	0.00	0.0	0	3.3	13	160	M	M	1	1	16	160
19	67	49	58	1	7	0	0.05	0.0	0	12.8	25	330	M	M	6	1	35	330
20	66	42	54	-2	11	0	0.00	0.0	0	5.4	22	330	M	M	0		31	330
21	73	37	55	-1	10	0	T	0.0	0	5.0	17	200	M	M	2		24	180
22	67	42	55	-1	10	0	0.00	0.0	0	6.8	17	320	M	M	0		27	330
23	71	36	54	-1	11	0	0.00	0.0	0	4.0	18	300	M	M	1		30	270
24	62	37	50	-5	15	0	0.00	0.0	0	5.7	15	340	M	M	0		26	340
25	61	37	49	-6	16	0	0.00	0.0	0	3.3	12	150	M	M	0		17	160
26	59	43	51	-3	14	0	0.11	0.0	0	2.5	13	170	M	M	7	1	17	160
27	47	44	46	-8	19	0	1.63	0.0	0	2.6	7	110	M	M	10	1	13	130
28	50	44	47	-7	18	0	0.19	0.0	0	3.8	10	20	M	M	10	1	20	40
29	48	44	46	-7	19	0	0.78	0.0	0	5.3	15	150	M	M	10	1	22	150
30	56	39	48	-5	17	0	T	0.0	0	8.1	23	320	M	M	7	12	37	340
31	56	37	47	-5	18	0	T	0.0	0	8.7	21	330	M	M	3		32	320
=====																		
SM	2097	1440			246	8	2.89	0.0		159.3			M		113			
=====																		
AV	67.6	46.5								5.1	FASTST		M	M	4		MAX (MPH)	
MISC ---->										25	330						#	37 350
=====																		

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: OCTOBER
YEAR: 2025
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 57.0	TOTAL FOR MONTH: 2.89	1 = FOG OR MIST
DPTR FM NORMAL: -0.9	DPTR FM NORMAL: -0.48	2 = FOG REDUCING VISIBILITY
HIGHEST: 79 ON 15	GRTST 24HR 1.81 ON 27-28	TO 1/4 MILE OR LESS
LOWEST: 36 ON 23		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
		9 = BLOWING SNOW
		X = TORNADO
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	
MAX 32 OR BELOW: 0	0.01 INCH OR MORE: 8	
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 4	
MIN 32 OR BELOW: 0	0.50 INCH OR MORE: 2	
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 1	
[HDD (BASE 65)]		
TOTAL THIS MO. 246	CLEAR (SCALE 0-3) 16	
DPTR FM NORMAL 7	PTCLDY (SCALE 4-7) 9	
TOTAL FM JUL 1 258	CLOUDY (SCALE 8-10) 6	
DPTR FM NORMAL -16		
[CDD (BASE 65)]		
TOTAL THIS MO. 8		
DPTR FM NORMAL -11	[PRESSURE DATA]	
TOTAL FM JAN 1 1139	HIGHEST SLP 30.41 ON 25	
DPTR FM NORMAL 92	LOWEST SLP 29.63 ON 30	

[REMARKS]
#FINAL-10-25#

005
CXUS52 KGSP 010917
CF6AVL
PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: ASHEVILLE NC
MONTH: NOVEMBER
YEAR: 2025
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	59	32	46	-6	19	0	0.00	0.0	0	4.4	15	320	M	M	0	27	340
2	57	39	48	-4	17	0	0.00	0.0	0	3.5	14	150	M	M	4	22	130
3	58	36	47	-4	18	0	0.00	0.0	0	9.2	18	340	M	M	0	28	320
4	67	33	50	-1	15	0	0.00	0.0	0	4.0	13	340	M	M	0	17	330
5	77	35	56	5	9	0	0.00	0.0	0	4.2	16	330	M	M	0	23	330
6	69	46	58	8	7	0	0.00	0.0	0	5.5	16	330	M	M	0	25	330
7	70	43	57	7	8	0	0.01	0.0	0	8.5	23	180	M	M	3 1	33	180
8	68	52	60	10	5	0	0.22	0.0	0	3.7	12	180	M	M	5 13	18	340
9	72	37	55	5	10	0	T	0.0	0	7.6	28	340	M	M	7 12	43	330
10	37	23	30	-19	35	0	0.01	0.2	0	14.5	29	330	M	M	8 1	43	340
11	43	23	33	-16	32	0	T	T	T	9.0	25	330	M	M	2	35	340
12	64	29	47	-2	18	0	0.00	0.0	0	10.2	21	340	M	M	0	32	330
13	62	37	50	2	15	0	0.00	0.0	0	9.0	25	340	M	M	0	34	330
14	68	33	51	3	14	0	0.00	0.0	0	4.1	10	190	M	M	0	15	190
15	69	32	51	3	14	0	0.00	0.0	0	1.9	16	310	M	M	0	22	310
16	68	47	58	10	7	0	0.00	0.0	0	11.3	29	330	M	M	M	39	330
17	60	38	49	2	16	0	0.00	0.0	0	9.1	21	340	M	M	0	30	340
18	67	31	49	2	16	0	0.00	0.0	0	4.5	15	200	M	M	1	20	210
19	72	46	59	12	6	0	0.00	0.0	0	4.1	14	340	M	M	2	21	350
20	71	41	56	10	9	0	T	0.0	0	2.7	10	180	M	M	4 12	14	190
21	67	55	61	15	4	0	T	0.0	0	2.3	12	340	M	M	6	17	180
22	73	50	62	16	3	0	0.00	0.0	0	6.4	16	330	M	M	4 1	25	360
23	66	41	54	8	11	0	0.00	0.0	0	7.2	16	340	M	M	2	25	360
24	62	34	48	2	17	0	0.00	0.0	0	3.5	14	160	M	M	2	22	140
25	61	49	55	10	10	0	0.38	0.0	0	6.8	17	180	M	M	9 1	25	210
26	67	39	53	8	12	0	0.01	0.0	0	9.9	28	300	M	M	3 12	39	300
27	43	31	37	-8	28	0	0.00	0.0	0	13.0	26	340	M	M	0	38	340
28	41	26	34	-11	31	0	0.00	0.0	0	10.0	21	340	M	M	0	29	330
29	41	21	31	-13	34	0	0.00	0.0	0	6.4	15	140	M	M	2	21	140
30	50	35	43	-1	22	0	0.03	0.0	0	9.0	21	340	M	M	8 1	29	340

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SM 1849 1114	462	0	0.66	0.2	205.5	M	72
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AV 61.6 37.1	6.8	FASTST	M	M	2	MAX (MPH)
MISC ---->	# 29 330					# 43 330

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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: NOVEMBER
 YEAR: 2025
 LATITUDE: 35 25 N
 LONGITUDE: 82 33 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 49.4	TOTAL FOR MONTH: 0.66	1 = FOG OR MIST
DPTR FM NORMAL: 1.6	DPTR FM NORMAL: -3.06	2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS
HIGHEST: 77 ON 5	GRTST 24HR 0.39 ON 25-26	3 = THUNDER
LOWEST: 21 ON 29	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: 0.2 INCH	5 = HAIL
	GRTST 24HR 0.2 ON 10-10	6 = FREEZING RAIN OR DRIZZLE
	GRTST DEPTH: T	7 = DUSTSTORM OR SANDSTORM: VSBY 1/2 MILE OR LESS
		8 = SMOKE OR HAZE
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	9 = BLOWING SNOW
		X = TORNADO
MAX 32 OR BELOW: 0	0.01 INCH OR MORE: 6	
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 2	
MIN 32 OR BELOW: 9	0.50 INCH OR MORE: 0	

MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65)]

TOTAL THIS MO. 462 CLEAR (SCALE 0-3) 20
DPTR FM NORMAL -55 PTCLDY (SCALE 4-7) 8
TOTAL FM JUL 1 720 CLOUDY (SCALE 8-10) 2
DPTR FM NORMAL -71

[CDD (BASE 65)]

TOTAL THIS MO. 0
DPTR FM NORMAL -1 [PRESSURE DATA]
TOTAL FM JAN 1 1139 HIGHEST SLP 30.50 ON 29
DPTR FM NORMAL 91 LOWEST SLP 29.61 ON 16

[REMARKS]

#FINAL-11-25#

644

CXUS52 KGSP 010917

CF6AVL

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

STATION: ASHEVILLE NC

MONTH: DECEMBER

YEAR: 2025

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	45	30	38	-6	27	0	0.01	0.0	0	8.3	21	330	M	M	4		28	340		
2	46	32	39	-5	26	0	0.34	0.0	0	10.7	23	340	M	M	9	1	32	340		
3	46	26	36	-8	29	0	0.00	0.0	0	7.0	22	330	M	M	1		27	330		
4	43	26	35	-8	30	0	0.03	0.0	0	5.8	17	340	M	M	3		22	330		
5	40	35	38	-5	27	0	0.13	0.0	0	2.8	9	190	M	M	10	1	12	130		
6	44	27	36	-7	29	0	0.00	0.0	0	4.9	14	330	M	M	6	1	21	340		
7	49	24	37	-6	28	0	0.00	0.0	0	2.9	13	150	M	M	4	12	17	160		
8	43	31	37	-6	28	0	0.06	0.0	0	6.3	16	340	M	M	8	1	26	350		
9	42	27	35	-7	30	0	0.00	0.0	0	5.0	13	200	M	M	4		21	170		
10	57	26	42	0	23	0	T	0.0	0	6.8	23	310	M	M	4		34	220		
11	42	31	37	-5	28	0	T	T	0	9.7	23	330	M	M	4		33	340		
12	49	29	39	-3	26	0	0.00	0.0	0	4.3	13	140	M	M	4		20	110		
13	60	25	43	1	22	0	0.00	0.0	0	2.5	18	200	M	M	1		26	210		
14	47	15	31	-11	34	0	0.02	T	0	17.0	31	340	M	M	5	1	49	330		
15	41	11	26	-16	39	0	0.00	0.0	0	3.7	13	340	M	M	0	8	20	320		
16	56	18	37	-4	28	0	0.00	0.0	0	3.9	16	340	M	M	0		22	330		
17	60	23	42	1	23	0	0.00	0.0	0	2.7	9	330	M	M	1		15	340		
18	54	32	43	2	22	0	0.20	0.0	0	5.9	15	160	M	M	9	1	21	160		
19	56	36	46	5	19	0	0.39	0.0	0	10.5	22	200	M	M	2	1	35	210		
20	58	26	42	1	23	0	0.00	0.0	0	6.4	15	160	M	M	0		21	160		
21	54	28	41	1	24	0	0.00	0.0	0	8.1	24	340	M	M	0		34	340		
22	51	23	37	-3	28	0	0.00	0.0	0	5.3	13	110	M	M	2		20	100		
23	64	40	52	12	13	0	0.00	0.0	0	6.0	14	340	M	M	5		23	330		
24	68	52	60	20	5	0	0.00	0.0	0	5.6	16	340	M	M	4		24	340		
25	70	42	56	16	9	0	0.00	0.0	0	2.7	15	340	M	M	4		24	340		
26	58	44	51	11	14	0	0.00	0.0	0	3.7	14	160	M	M	7		19	150		
27	70	42	56	16	9	0	0.00	0.0	0	1.8	13	340	M	M	3	1	18	330		

28	58	43	51	11	14	0	0.00	0.0	0	7.1	18	200	M	M	7	1	25	200
29	58	24	41	1	24	0	T	0.0	0	16.5	32	340	M	M	3		48	330
30	32	20	26	-13	39	0	T	T	0	15.2	28	330	M	M	2		42	330
31	45	26	36	-3	29	0	0.00	0.0	0	6.4	12	320	M	M	5		17	360

SM	1606	914		749	0	1.18	T		205.5				M			121		
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AV	51.8	29.5							6.6	FASTST	M	M	4			MAX (MPH)		
								MISC	----	>			32	340		49	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: DECEMBER
YEAR: 2025
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 40.6	TOTAL FOR MONTH: 1.18	1 = FOG OR MIST
DPTR FM NORMAL: -0.8	DPTR FM NORMAL: -3.00	2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS
HIGHEST: 70 ON 27,25	GRTST 24HR 0.59 ON 18-19	3 = THUNDER
LOWEST: 11 ON 15		4 = ICE PELLETS
	SNOW, ICE PELLETS, HAIL	5 = HAIL
	TOTAL MONTH: T	6 = FREEZING RAIN OR DRIZZLE
	GRTST 24HR T ON 11-11	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: 1	0.01 INCH OR MORE: 8	
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 4	
MIN 32 OR BELOW: 23	0.50 INCH OR MORE: 0	
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 0	
[HDD (BASE 65)]		
TOTAL THIS MO. 749	CLEAR (SCALE 0-3) 11	
DPTR FM NORMAL 17	PTCLDY (SCALE 4-7) 16	
TOTAL FM JUL 1 1469	CLOUDY (SCALE 8-10) 4	
DPTR FM NORMAL -52		
[CDD (BASE 65)]		
TOTAL THIS MO. 0		
DPTR FM NORMAL 0	[PRESSURE DATA]	
TOTAL FM JAN 1 1139	HIGHEST SLP 30.57 ON 22	
DPTR FM NORMAL 91	LOWEST SLP 29.58 ON 19	

[REMARKS]
#FINAL-12-25#

264
CXUS52 KGSP 010917
CF6AVL
PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: ASHEVILLE NC
MONTH: JANUARY
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	54	29	42	3	23	0	0.00	0.0	0	6.4	18	340	M	M	1		30	340
2	56	25	41	2	24	0	T	0.0	0	2.5	9	340	M	M	2		19	320
3	54	35	45	6	20	0	0.01	0.0	0	2.7	10	170	M	M	8		13	170
4	57	27	42	3	23	0	0.00	0.0	0	4.2	14	340	M	M	0	1	20	340
5	59	33	46	7	19	0	0.00	0.0	0	4.1	12	200	M	M	3	12	17	140
6	67	33	50	11	15	0	0.00	0.0	0	3.6	14	240	M	M	3	12	20	240
7	67	33	50	11	15	0	0.00	0.0	0	3.2	10	10	M	M	0	1	16	360
8	61	34	48	9	17	0	0.00	0.0	0	4.6	13	150	M	M	2		18	130
9	62	52	57	19	8	0	0.12	0.0	0	7.1	21	190	M	M	9	1	30	180
10	63	50	57	19	8	0	2.68	0.0	0	8.6	24	210	M	M	8	13	37	200
11	50	26	38	0	27	0	T	T	0	13.5	29	340	M	M	2		46	340
12	47	22	35	-3	30	0	0.00	0.0	0	6.7	17	340	M	M	0		24	320
13	56	23	40	2	25	0	0.00	0.0	0	1.8	8	180	M	M	0		14	360
14	54	28	41	3	24	0	0.03	0.0	0	5.1	22	340	M	M	4	1	35	340
15	31	17	24	-14	41	0	0.01	0.1	T	13.6	25	340	M	M	4	1	38	320
16	46	15	31	-7	34	0	0.00	0.0	0	7.4	17	190	M	M	2		25	190
17	50	33	42	4	23	0	0.02	0.0	0	6.4	17	180	M	M	6		24	170
18	39	23	31	-7	34	0	0.00	0.0	0	10.0	22	330	M	M	4		33	340
19	40	18	29	-9	36	0	0.00	0.0	0	8.1	18	330	M	M	0		26	360
20	36	20	28	-10	37	0	0.00	0.0	0	8.1	21	340	M	M	0		29	330
21	50	14	32	-7	33	0	0.00	0.0	0	4.4	17	180	M	M	2		26	170
22	49	35	42	3	23	0	0.00	0.0	0	5.7	17	340	M	M	9		23	340
23	53	31	42	3	23	0	0.00	0.0	0	6.7	23	320	M	M	5		31	330
24	36	21	29	-10	36	0	0.02	T	0	8.0	15	170	M	M	9	146	20	160
25	35	21	28	-11	37	0	0.85	0.1	T	7.4	16	340	M	M	10	146	24	340
26	35	10	23	-16	42	0	T	T	T	15.2	25	330	M	M	4		44	340
27	37	8	23	-16	42	0	0.00	0.0	T	9.4	17	340	M	M	0		29	350
28	37	20	29	-10	36	0	0.00	0.0	0	9.6	21	340	M	M	1		32	340
29	35	19	27	-12	38	0	0.00	0.0	0	7.8	16	350	M	M	3		28	340
30	38	17	28	-11	37	0	T	T	0	3.6	12	140	M	M	7		18	140
31	28	10	19	-21	46	0	0.18	4.0	2	16.0	35	340	M	M	10	128	53	340
=====																		
SM	1482	782			876	0	3.92	4.2		221.5			M		118			
=====																		
AV	47.8	25.2								7.1	FASTST		M	M	4		MAX (MPH)	
										MISC	---->	35	340				53	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: JANUARY
YEAR: 2026
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

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

AVERAGE MONTHLY: 36.5 TOTAL FOR MONTH: 3.92 1 = FOG OR MIST
DPTR FM NORMAL: -2.2 DPTR FM NORMAL: -0.21 2 = FOG REDUCING VISIBILITY
HIGHEST: 67 ON 7, 6 GRTST 24HR 2.79 ON 9-10 TO 1/4 MILE OR LESS
LOWEST: 8 ON 27 3 = THUNDER
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS

8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

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8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

8 = SMOKE OR HAZE
9 = BLOWING SNOW
X = TORNADO

20	74	55	65	22	0	0	0.09	0.0	0	9.3	26	260	M	M	4	1	45	260
21	66	44	55	12	10	0	0.33	0.0	0	5.9	18	350	M	M	8	1	32	360
22	52	22	37	-7	28	0	0.01	0.1	0	15.0	26	330	M	M	9		41	320
23	28	18	23	-21	42	0	0.01	0.7	1	16.7	30	320	M	M	10	1	41	320
24	45	20	33	-11	32	0	0.00	0.0	0	8.3	23	330	M	M	3		34	330
25	61	33	47	3	18	0	0.00	0.0	0	7.8	21	310	M	M	4		33	190
26	58	45	52	8	13	0	0.39	0.0	0	3.3	17	340	M	M	8	1	24	340
27	58	43	51	7	14	0	0.00	0.0	0	3.8	14	160	M	M	6	12	19	160
28	70	44	57	12	8	0	0.00	0.0	0	4.6	14	340	M	M	4	1	18	330

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=====
SM 1507 871          625 0 1.48 1.0      216.8          M      121
=====
AV 53.8 31.1          7.7 FASTST  M      M      4      MAX(MPH)
                        MISC ---->  43 340          64 340
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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: FEBRUARY
YEAR: 2026
LATITUDE: 35 25 N
LONGITUDE: 82 33 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 42.5	TOTAL FOR MONTH: 1.48	1 = FOG OR MIST
DPTR FM NORMAL: 0.4	DPTR FM NORMAL: -1.98	2 = FOG REDUCING VISIBILITY
HIGHEST: 74 ON 20	GRTST 24HR 0.42 ON 20-21	TO 1/4 MILE OR LESS
LOWEST: 8 ON 1		3 = THUNDER
	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: 5.0 INCHES	5 = HAIL
	GRTST 24HR 0.7 ON 23-23	6 = FREEZING RAIN OR DRIZZLE
	GRTST DEPTH: 3 ON 1	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: 2	0.01 INCH OR MORE: 8	
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 4	
MIN 32 OR BELOW: 17	0.50 INCH OR MORE: 0	
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 0	
[HDD (BASE 65)]		
TOTAL THIS MO. 625	CLEAR (SCALE 0-3) 11	
DPTR FM NORMAL -18	PTCLDY (SCALE 4-7) 14	
TOTAL FM JUL 1 2970	CLOUDY (SCALE 8-10) 3	
DPTR FM NORMAL -7		
[CDD (BASE 65)]		
TOTAL THIS MO. 0		
DPTR FM NORMAL 0	[PRESSURE DATA]	
TOTAL FM JAN 1 0	HIGHEST SLP 30.32 ON 8	
DPTR FM NORMAL 0	LOWEST SLP 29.63 ON 20	

[REMARKS]

#FINAL-02-26#