



# HOURLY PRECIPITATION DATA

**VIRGINIA**

**AUGUST 2011**

**VOLUME 61 NUMBER 8**

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"I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites supervised by NOAA/National Weather Service and received at the National Climatic Data Center, Asheville, North Carolina 28801."

A handwritten signature in black ink, which appears to read "Thomas R. Karl". The signature is fluid and cursive.

**Director  
National Climatic Data Center**

**noaa**

National Oceanic and  
Atmospheric Administration

National Environmental Satellite,  
Data and Information Service

National Climatic Data Center  
Asheville, North Carolina

VIRGINIA

## DAILY PRECIPITATION TOTALS

AUGUST 2011

GAGE	STATION	TOTAL	DAY OF MONTH																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
F	VIRGINIA																																
F	ALTAVISTA	2.6					.2								.1		.1				.1						2.1						
F	BEDFORD 4 NW	6.2 P	P			.1	.3							4.3	.3						.1		.2				.9						
F	BLACKSBURG NWSO	1.25E					.2							.4	.2													I					
F	BREMO BLUFF	6.5	.1				.1	.9					.1	1.1	2.1								.2				.9		1.0				
F	CAMP PICKETT	.0 P	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	CHATHAM	.01	I	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
F	COVINGTON FLTR PLT	1.56E						P	-					P	-							.4		.2				m	m	m	m	m	m
T	DANVILLE REGIONAL AP	1.47			.01		.91					T	.16	T	.06								.01				.09	.15	.08				
F	GALAX WTP	5.28E	I	m	m	m	m	m	m	m	m		.2	.5	.2					.1				.2			1.9	.8					
F	GATHRIGHT DAM	1.8					.7			.1										.1	.2			.1			.3				.3		
F	HOT SPRINGS	.0 P	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	JOHN H KERR DAM	3.43E					I	m					.1	.8									I	m		.1	.2		1.7				
T	LYNCHBURG INTL AP	2.06			.02		.01							.05	.01	T		T					.44				1.42	T	.11				
F	MILLGAP	3.8					.3	.1						1.4	.3					.1	.1		.3				.3		.3		.6		
T	NORFOLK INTL AP	10.79			.10		T	.45					T	1.61	.01	.04						.05	.08				.26	.09	7.92	.18		T	
F	PAINTER 2W	8.0	.1	.3				.1							.1							.1	.1			.2	.2	5.5	1.3				
F	PIEDMONT RSCH STN	7.2			.1		2.4	.5						.4	1.1							.6				.8		1.1	.2				
F	PULASKI 2 E	.78E												.1	.1					.3						I	m						
T	RICHMOND INTL AP	7.10	.01		T		T	.07						.27	.49	.01				.03	.27		.07	T			.51	T	5.36	.01			
T	ROANOKE INTL AP	1.45			T		.52				T		.02	T	.05	T				.57			.28			T	T	T		.01			
F	ROCKY MT	.0 P	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	STAFFORDSVILLE 3 ENE	1.0					.2							.3	.1			.1							.1		.2						
F	STAR TANNERY	.0 P	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	TROUT DALE 3 SSE	3.8 P	P				.7				P	-	-	-	-	.1	P	-	-	-	-	-	-	-	-	-	1.8	1.2	P	-	-	-	-
F	WAKEFIELD 1NW	9.1					.1						.1	.6	.7	.8													6.6	.1	.1		
N	WASHGTN DULLES INTL AP	3.74	.14	T	.03		.55	.01		T				.36	.08					.65	.04		.39	T			.08		1.17	.24			
N	WASHINGTON REAGAN AP	8.92			.28	.01	.04	.67						.41	1.37	T				T	1.61		.27	T			.42	.01	3.33	.50			
F	WILLIAMSBURG 2 N	11.7					.4							.1	.1	.8						.1							9.3	.2	.6	.1	
F	WILLIAMSVILLE 2 S	1.5 P					.3		P						.8						.2		.2										
F	WILLIS	.4				.1									.1													.1	.1				
F	WISE 3E	.0 P	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	WOOLWINE	1.9				.2	.1						.1	.6		.1				.5							.3						
F	WYTHEVILLE 1 S	3.78E	I	m	m	m			I	m		.1		.1	.7					1.1				.2			.3						

VIRGINIA

## HOURLY PRECIPITATION

AUGUST 2011

STATION	DATE	A.M. HOUR ENDING												P.M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
ALTAVISTA	6																									.2
	13														.1											.1
	15																			.1						.1
	18	.1																								.1
BEDFORD 4 NW	25																	1.0	.1	.5		.4	.1			2.1
	1		{ -	-	-	-	-	-	-	- }																P
	5			.1																						.1
	6										.1										.1		.1			.3
	13																					.1				4.3
	14	.2	.1																			.1	.2	1.5	2.5	.3
	19																							.1		.1
	21													.2										.1		.2
BLACKSBURG NWSO	25															.2	.7									.9
	6																.2									.2
	13																	.1	.3							.4
	14			.1													.1									.2
BREMO BLUFF	26		[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m ]	I
	1													.1												.1
	6																									.1
	7																					.1				.9
	12		.1															.3	.6							.1
	13												1.0	.1												1.1
	14					1.1	.7														.2		.1			2.1
	21															.2										.2
	25																.9									.9
CAMP PICKETT	27														.1	.1	.1	.1		.1		.2	.1	.1	.1	1.0
	1		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- }	-
CHATHAM	1						[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	I
	31	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m ]	m
COVINGTON FLTR PLT	7		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- }	-
	13		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- }	-
	19										.4															.4
DANVILLE REGIONAL AP	21																						.2			.2
	3																			T	.01					.01
	6						.01			T									.37	.53						.91
	11																		T							T
	12																			.16	T					.16
	13									T	T	T														T
	14	T	.03																T			.03	T			.06
	21															.01										.01
	25																						.06	.03		.09
	26																	.09	.06							.15
	27								T	T				.01	.02	.01	T	T	.01	.03						.08
GALAX WTP	1		[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m ]	I
	9	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m ]	m
	12															.2										.2
	13														.4											.5
	14		.1		.1													.1								.2

VIRGINIA

## HOURLY PRECIPITATION

AUGUST 2011

STATION	DATE	A.M. HOUR ENDING												P.M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
GATHRIGHT DAM	18													.1												.1
	22		.2																							.2
	25																						.8	.4	.7	1.9
	26	.6			.1															.1						.8
	6													.5	.2											.7
	9							.1																		.1
	18																	.1								.1
	19									.2																.2
	22	.1																								.1
	25													.3												.3
HOT SPRINGS	29																.3									.3
JOHN H KERR DAM	1	{ -	-	-	-	-	-	-	-	- }	{ q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6		[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	I
	7	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	12																		.1							.1
	13											.4	.4													.8
	21		[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	I
	22	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	24																					.1				.1
	25																									.2
LYNCHBURG INTL AP	27				.1		.2		.2			.1	.2	.1	.1	.2	.1		.1	.2	.1		.1		.1	1.7
	3													T		.02										.02
	6																									.01
	13	T	.05					T	T	T				T						T	T	.01				.05
	14	.01		T				T	T											T						.01
	15																	T								T
	17													T	T											T
	21														.43									T	.01	.44
	25																1.00	.11		T	.02	T	T		.29	1.42
	26	T																								T
MILLGAP	27										T			T	.01	T		.10	T							.11
	6																		.2	.1						.3
	7															.1										.1
	13																				.4	.2	.2	.2	.4	1.4
	14		.1	.1													.1				.1					.3
	18																									.1
	19											.1														.1
	21												.2		.1	.1		.1								.3
	25														.1	.1		.1								.3
	27																			.1	.1		.1			.3
NORFOLK INTL AP	29															.1	.4		.1							.6
	3																				.10	T				.10
	6														T	T		T								T
	7																						.45			.45
	12								T		T															T
	13									T							.02	.52	.68	.39	T					1.61
	14								T		T	.01														.01
	15		T	.03	.01														T							.04
	20		.05	T																						.05
	21													T	.06			T	T	.02						.08

VIRGINIA

## HOURLY PRECIPITATION

AUGUST 2011

STATION	DATE	A.M. HOUR ENDING												P.M. HOUR ENDING												TOTAL	
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
PAINTER 2W	25																				.18	.03	.05	T	.26		
	26									.02													T	.07	.09		
	27	.08	.14	.26	.14	.42	.27	.16	.18	.22	.59	.92	.42	.58	.38	.12	.18	.27	.50	.40	.12	.16	.34	.60	.47	7.92	
	28	.08	.10	T	T																					.18	
	30							T	T																	T	
	1														.1											.1	
	2	.2												.1												.3	
	7																	.1								.1	
	14															.1										.1	
	20									.1																.1	
PIEDMONT RSCH STN	21													.1												.1	
	25									.1			.1													.2	
	26											.1	.1		.1										.2		
	27							.1	.5	.3	.1	.1	.1	.4	.5	.9	.5	.6	.4	.1	.1	.1		.5	.3	5.5	
	28	.1	.3	.2	.1			.1	.1	.1		.1	.1			.1										1.3	
	3																.1									.1	
	6																			.2	.1		1.3	.8		2.4	
	7																.1	.4								.5	
	13													.1						.2				.1		.4	
	14		.1	.1	.1															.5	.1	.1	.1			1.1	
PULASKI 2 E	21															.6										.6	
	25																.8									.8	
	27															.1	.1	.2		.1	.1	.2	.1	.1	.1	1.1	
	28	.1	.1														.1	.2		.1	.1	.2	.1	.1	.1	.2	
	13																			.1						.1	
	14			.1																						.1	
	18																									.1	
	25		[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	.1	.1	m	m	m	m	m	m	m	m	.3
	26	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	I
	1																					T	.01	T		.01	
RICHMOND INTL AP	3								T									T	T	T						T	
	6															T		T	T	T						T	
	7																	T	T	.07						.07	
	13												T	.27												.27	
	14							T	.07	.24	T	T	T										.15	.03	T	.49	
	15															T		.01								.01	
	18																.03									.03	
	19														.11		.04	.10				T	T	.02		.27	
	21																T	.07								.07	
	22	T	T																							T	
ROANOKE INTL AP	25																		.31	.07	.13	T				.51	
	26																									T	
	27					T	.06	.15	.22	.10	.14	.12	.26	.35	.59	.88	.55	.44	.54	.39	.30	.14	.07	.05	.01	5.36	
	28	.01	T	T	T	T																				.01	
	3															T										T	
	6	T						T	T						T	T	.03	.02	.47							.52	
	9								T																	T	
	12													T									.02			.02	
	13						T														T	T				T	
	14					.03	.02	T										T	T							.05	
15																							T		T		

VIRGINIA

## HOURLY PRECIPITATION

AUGUST 2011

STATION	DATE	A.M. HOUR ENDING												P.M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
ROCKY MT	18													.53	T		.03	.01								.57
	21													.28		T									T	.28
	25											T				T	T								T	
	26																T		T						T	
	27																		T		T				T	
	29																		T			.01			T	.01
	1		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6													.2												.2
	13																			.3						.3
STAR TANNERY	14		.1																							.1
	17								.1																	.1
	23																									.1
	25					.1																				.1
	1		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1	{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[ i	m	i ]				P
	5				.5									.2												.7
	9		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TROUT DALE 3 SSE	14													.1												.1
	15		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	24								.1				.1	.2	.3	.1		.2		.3			.1		.4	1.8
	25	.1			.1	.2	.3	.2			.1	.2														1.2
	26											{ q		-	-	-	-	-	-	-	-	-	-	-	-	P
	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6													.1												.1
	12								.1																	.1
	13													.1	.2			.1	.1	.1						.6
WAKEFIELD 1NW	14											.7														.7
	15	.5									.3															.8
	27				.1	.1	.2	.3	.5	.1		.1	.2	.7	.9	.5	1.1	.6	.4	.3	.3	.1	.1			6.6
	28			.1																						.1
	29															.1										.1
	1																.07	.06	.01	T						.14
	2																							T		T
	3	T					T	T	T	T	T				T	.01	.01		T	.01	.01	T	T			.03
	6															.21	T	T	.15	.01	.18	T				.55
	7														T	.01	T	T								.01
WASHGTN DULLES INTL AP	9										T	T				T	T									T
	13									.02	T			.11	.21	.02	T			T						.36
	14					T	.04	T	.02										.16	.11	T	.01	.01	T	T	.08
	18														T	T				T	.36	T			.02	.65
	19	.04	T																							.04
	21													T	.39	T										.39
	22			T	T																					T
	25								T	T	T		.02	T	T	.04	.02									.08
	27												.04	.02	.02	.05	.05	.15	.12	.17	.16	.08	.13	.12	.06	1.17
	28	.10	.03		.02		.06		.03																	.24
WASHINGTON REAGAN AP	3						T	T			.01	T	T	T	T	.05	.14			.03	.04	T	.01	T	T	.28

VIRGINIA

## HOURLY PRECIPITATION

AUGUST 2011

STATION	DATE	A.M. HOUR ENDING												P.M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
WILLIAMSBURG 2 N	4			T	.01													.04		T	T	T	T		T	.01
	6																	.36	.01							.04
	7	T															.30									.67
	13									T			.22	.15	T		.04								T	.41
	14	.01	T	T	T	T	.01	T	.01	T	.01						T						.85	.48	T	1.37
	15	T																								T
	18																	T	T	T	T	T			T	T
	19	.06	.02																	1.22	.31	T				1.61
	21															.27										.27
	22		T	T																						T
	25											T	.17	.22	.01		T	.02								.42
	26																T	.01								.01
	27										.02	.02	.08	.11	.15	.29	.31	.41	.29	.20	.17	.27	.39	.31	.31	3.33
	28	.07	.01	.12	.16	.01	T	.04	.09	T																.50
	6																.4									.4
	13															.1										.1
	14																							.1		.1
	15		.1														.7									.8
	20	.1																								.1
	27				.2	.1	.4	.3	.5	.2	.3	.2	1.1	1.0	.9	1.4	.5	.4	.4	.5	.6	.1	.2			9.3
	28	.1	.1																							.2
	29														.4	.2										.6
WILLIAMSVILLE 2 S	30																		.1							.1
	5								.2		.1															.3
	7		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
WILLIS	14	.2	.2	.2	.1														.1							.8
	19											.1		.1												.2
	21														.2											.2
WISE 3E	4		.1																							.1
	14				.1																					.1
	26																									.1
WOOLWINE	27																				.1					.1
	1		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYTHEVILLE 1 S	5														.2											.2
	6																	.1								.1
	12																						.1			.1
	13																.5	.1								.6
	15																									.1
	18														.3	.1						.1				.5
	25																			.2	.1					.3
	1		[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	I
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	7		[ m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	I
	8	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	11																									.1
	13																		.1							.1
	14		.3	.2	.1												.1									.7
	18																	.9	.1	.1						1.1
	22	.2																								.2
	25																			.1	.2					.3

VIRGINIA

# HOURLY PRECIPITATION

AUGUST 2011

STATION	DATE	A.M. HOUR ENDING												P.M. HOUR ENDING												TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	



## MONTHLY PRECIPITATION MAXIMA

STATION	MAXIMA FOR MEASUREMENT									MAXIMUM  ACCUMULATION
	MINUTES			HOURS						
	15	30	45	1	2	3	6	12	24	
ALTAVISTA	.6 25/1630	.8 25/1645	1.0 25/1700	1.0 25/1715+	1.1 25/1815+	1.6 25/1915+	2.1 25/2215+	2.1 26/0415+	2.1 26/1615+	
BEDFORD 4 NW										
BLACKSBURG NWSO										
BREMO BLUFF	1.0 14/0500	1.5 14/0515	1.7 14/0530	1.7 14/0545+	1.8 14/0615+	1.8 14/0715+	1.8 14/1015+	1.8 14/1615+	2.9 14/1115+	
CAMP PICKETT										
CHATHAM										
COVINGTON FLTR PLT										
DANVILLE REGIONAL AP				.53 06/1900	.90 06/1900	.90 06/2000+	.90 06/2300+	.90 07/0500+	.91 07/0500+	
GALAX WTP										
GATHRIGHT DAM	.5 06/1400	.5 06/1415+	.5 06/1430+	.5 06/1445+	.7 06/1545+	.7 06/1645+	.7 06/1945+	.7 07/0145+	.7 07/1345+	
HOT SPRINGS										
JOHN H KERR DAM										
LYNCHBURG INTL AP				1.00 25/1600	1.11 25/1700	1.11 25/1800+	1.13 25/2100+	1.42 26/0300+	1.42 26/1500+	
MILLGAP	.3 13/2330	.4 13/2330+	.5 13/2330+	.5 29/1545+	.8 13/2345+	.8 14/0045+	1.4 14/0100+	1.6 14/0700+	1.7 14/1900+	
NORFOLK INTL AP				.92 27/1100	1.51 27/1100	1.93 27/1200	3.11 27/1400	4.76 27/1900	7.92 28/0100+	
PAINTER 2W	.4 27/1500	.6 27/1515	.7 27/1530+	.9 27/1500	1.6 27/1530+	2.1 27/1630+	3.3 27/1800+	4.4 27/2400+	6.2 28/0700+	
PIEDMONT RSCH STN	.9 06/2200	1.7 06/2215	2.1 06/2215	2.1 06/2230+	2.1 06/2330+	2.2 06/2215	2.4 07/0030+	2.4 07/0630+	2.9 07/1830+	
PULASKI 2 E										
RICHMOND INTL AP				.88 27/1500	1.47 27/1500	2.02 27/1600	3.39 27/1900	4.70 27/2100	5.37 28/0500+	
ROANOKE INTL AP				.53 18/1400	.53 18/1500+	.56 18/1600	.57 18/1900+	.57 19/0100+	.57 19/1300+	
ROCKY MT										
STAFFORDSVILLE 3 ENE	.3 13/1900	.3 13/1915+	.3 13/1930+	.3 13/1945+	.3 13/2045+	.3 13/2145+	.3 14/0045+	.4 14/0645+	.4 14/1845+	
STAR TANNERY										
TROUT DALE 3 SSE										
WAKEFIELD INW	.4 27/1530+	.7 27/1530+	.9 27/1545	1.1 27/1600	1.7 27/1700+	2.6 27/1530	4.2 27/1815+	5.4 27/1900+	6.7 28/0330+	
WASHGTN DULLES INTL AP				.39 21/1400	.39 21/1500+	.47 18/2000	.81 27/2200	1.22 28/0200	1.41 28/1100+	
WASHINGTON REAGAN AP				1.22 19/1900	1.53 19/2000	1.53 19/2100+	1.73 27/2200	3.21 27/2400	3.83 28/0900+	
WILLIAMSBURG 2 N	.5 27/1215	.9 27/1215	1.3 27/1215	1.6 27/1215	2.3 27/1500+	3.4 27/1445+	5.4 27/1715	7.5 27/2045+	9.5 28/0300+	
WILLIAMSVILLE 2 S										
WILLIS	.1 27/2045+	.1 27/2100+	.1 27/2115+	.1 27/2130+	.1 27/2230+	.1 27/2330+	.1 28/0230+	.1 28/0830+	.2 27/2345+	
WISE 3E										
WOOLWINE	.5 13/1600	.5 13/1615+	.5 13/1630+	.5 13/1645+	.6 13/1745+	.6 13/1845+	.6 13/2145+	.6 14/0345+	.7 13/2245+	
WYTHEVILLE 1 S										

## REFERENCE NOTES

Hourly Precipitation Data (HPD) are obtained from recording rain gages. The rain gage may be located at a National Weather Service, Federal Aviation Administration, or Cooperative Observer Station. HPD time resolution is 15 minutes or 1 hour. Published data are displayed at an hourly resolution. Precipitation values in this bulletin are in inches. Times are local standard.

Standard rain gage types:

F	Weighing gage	: reported in inches to tenths
T	Tipping bucket	: reported in inches to hundredths
U	Weighing gage	: reported in inches to hundredths
N	Not specified	

HPD maxima cover 9 time periods from 15 minutes to 24 hours and do not necessarily end on whole hours. Stations that report hourly data only will not have maxima computed for periods less than 1 hour. If any data are missing, no maxima are computed. MAXIMUM ACCUMULATION is the largest accumulated precipitation amount from times with unknown data distribution during a month. Clock mechanisms sometimes stick or stop; some of the special symbols in the HPD section are used when such "signatures" are found in the data.

Information contained in the station name:

//	Rain gage equipped with a wind shield.
#	Inactive station. Symbol found by station name in the Station Index.
\$	Experimental rain gage or unusual measurement procedure which may have some effect on HPD. Common types are:
\$1	rain gage with a heated orifice
\$2	rain gage with an automatic siphon
\$3	rain gage with a remote orifice and funnel
8 SW	or other numbers and letters following the name, indicate the distance in miles, and the direction, from the nearest post office.

Special symbols in the HPD:

a	Begin accumulation sometime within the hour period or day period.
A	End accumulation during the day or hour. Will follow the distribution amount.
*	Temporal distribution unknown. First HPD value that follows is the total accumulated amount.
E	Estimated monthly total by spatial modelling.
i	Incomplete hourly total. One (1) or more 15 minute periods are missing.
I	Incomplete daily or incomplete monthly total. One (1) or more periods are missing.
P	Daily or monthly total excludes highly suspect data value(s).
q	Hourly total excludes one (1) or more questionable 15 minute periods.

Q	Questionable 15 minute data. Seen in Maxima tables.
R	Time of occurrence is suspect. Amount is included in daily total.
T	Trace amounts are included only for Federally funded meteorological observing sites.
X	Value greater than 9.99 - refer to Hourly Precipitation Section for daily total.
Z	Probable melting frozen precipitation included in total.
[	Begin missing period during the hour (inclusive) or day.
]	End missing period during the hour (inclusive) or day.
{	Begin delete period during the hour (inclusive) or day.
}	End delete period during the hour (inclusive) or day.
m	Data missing for part or all of the period.
-	Data deleted for part or all of the period.
+	Duplicate maxima for same time period; latest is shown.

NOTE: Missing (m) flag in the MONTHLY PRECIPITATION TOTALS page represents missing and/or deleted data for part or all of period.

NOTE: Only the first and last rows of long groups of missing (m), deleted (-), and accumulated (\*) data are shown.

NOTE: The special symbols in the HPD appear as a suffix to type "F" values, or directly below type "T" and type "U" gage values.

NOTE: TIPPING BUCKET precipitation gages become increasingly inaccurate with increasing rainfall intensities. TIPPING BUCKET gages also may NOT correctly report the amount or time distribution during frozen or freezing precipitation events (i.e. snow, hail, sleet, or freezing rain).

NOTE: Users of data from this publication may notice that daily totals may differ from those listed in the CLIMATOLOGICAL DATA (CD) publication. There are two primary reasons for the differences. The first is because the precipitation values are measured by two different gage types. The second reason is that the totals may be measured at different times. Most manual measurements are made at or near 8 AM or 5 PM local time while the daily totals from the hourly precipitation gages are computed on a midnight (calendar day) basis.

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# STATION INDEX

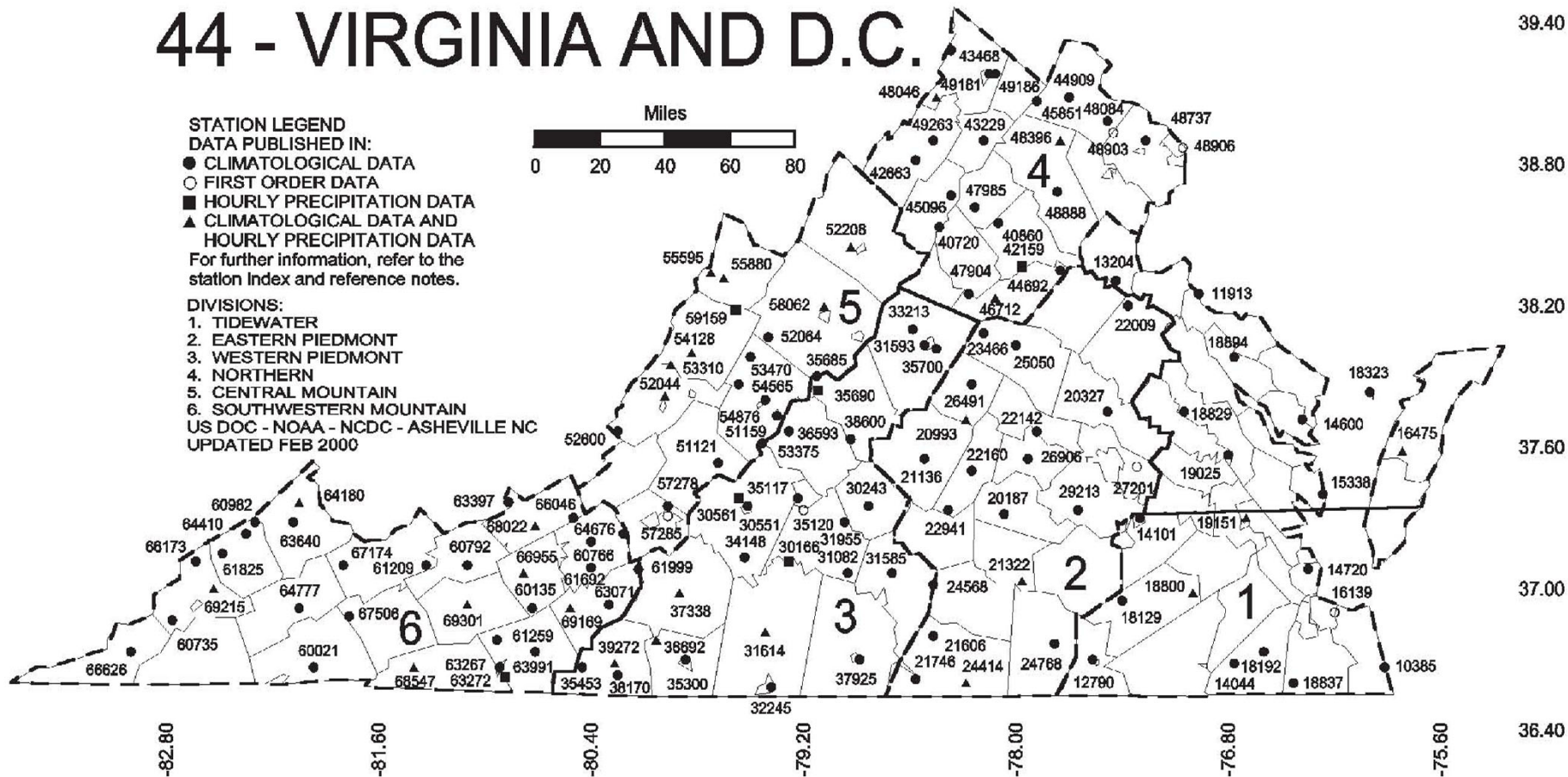
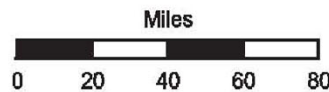
VIRGINIA

AUGUST 2011

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation Ft.	Years Of
ALTAVISTA	0166	CAMPBELL	15	37 07	79 17	515	65
BEDFORD 4 NW	0561	BEDFORD		37 23	79 34	1220	16
BLACKSBURG NWSO	0766	MONTGOMERY		37 12	80 25	2100	7
BREMO BLUFF	0993	FLUVANNA	9	37 43	78 17	225	25
CAMP PICKETT	1322	NOTTOWAY	12	37 02	77 57	330	58
CHATHAM	1614	PITTSYLVANIA	7	36 49	79 25	640	87
COVINGTON FLTR PLT	2044	ALLEGHANY	9	37 49	79 59	1230	38
DANVILLE REGIONAL AP	2250	PITTSYLVANIA		36 34	79 20	571	8
GALAX WTP	3272	CARROLL	11	36 39	80 55	2360	52
GATHRIGHT DAM	3310	ALLEGHANY	9	37 57	79 57	1770	31
HOT SPRINGS	4128	BATH	9	38 00	79 50	2236	115
JOHN H KERR DAM	4414	MECKLENBURG	15	36 36	78 18	250	62
LYNCHBURG INTL AP	5120	CAMPBELL	9	37 19	79 12	940	139
MILLGAP	5595	HIGHLAND	9	38 18	79 43	2421	35
NORFOLK INTL AP	6139	NORFOLK (CIT	5	36 54	76 12	30	65
PAINTER 2W	6475	ACCOMACK	5	37 35	75 49	30	55
PIEDMONT RSCH STN	6712	ORANGE	17	38 14	78 07	520	60
PULASKI 2 E	6955	PULASKI	11	37 03	80 47	1850	69
RICHMOND INTL AP	7201	HENRICO	9	37 30	77 19	164	73
ROANOKE INTL AP	7285	ROANOKE	15	37 19	79 58	1175	78
ROCKY MT	7338	FRANKLIN	15	36 59	79 54	1315	42
STAFFORDSVILLE 3 ENE	8022	GILES	11	37 16	80 43	1950	16
STAR TANNERY	8046	FREDERICK	16	39 05	78 27	950	68
TROUT DALE 3 SSE	8547	GRAYSON	11	36 39	81 24	2839	75
WAKEFIELD 1NW	8800	SUSSEX	4	36 59	77 00	113	38
WASHGTN DULLES INTL AP	8903	LOUDOUN		38 56	77 28	290	12
WASHINGTON REAGAN AP	8906	ARLINGTON	13	38 51	77 02	10	70
WILLIAMSBURG 2 N	9151	YORK	9	37 18	76 42	70	65
WILLIAMSVILLE 2 S	9159	BATH	9	38 11	79 35	1640	33
WILLIS	9169	FLOYD	11	36 55	80 30	2810	15
WISE 3E	9215	WISE	6	37 00	82 32	2549	56
WOOLWINE	9272	PATRICK	7	36 47	80 17	1500	60
WYTHEVILLE 1 S	9301	WYTHE	11	36 56	81 06	2450	137

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**STATION LEGEND**  
**DATA PUBLISHED IN:**  
 ● CLIMATOLOGICAL DATA  
 ○ FIRST ORDER DATA  
 ■ HOURLY PRECIPITATION DATA  
 ▲ CLIMATOLOGICAL DATA AND  
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 For further information, refer to the  
 station Index and reference notes.  
**DIVISIONS:**  
 1. TIDEWATER  
 2. EASTERN PIEDMONT  
 3. WESTERN PIEDMONT  
 4. NORTHERN  
 5. CENTRAL MOUNTAIN  
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This publication contains hourly precipitation amounts obtained from recording rain gages located at National Weather Service, Federal Aviation Administration, and cooperative observer stations. Published data are displayed in inches and tenths or inches and hundredths at local standard time. HPD includes maximum precipitation for nine (9) time periods from 15 minutes to 24 hours, for selected stations.

### **Climatological Data**

Monthly editions contain station daily maximum and minimum temperatures and precipitation. Some Stations provide daily snowfall, snow depth, evaporation, and soil temperature data. Each edition also contains monthly summaries for heating and cooling degree days (65 degree F base). The July issue contains a recap of monthly heating degree days and snow data for the preceding July through June.

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