



HOURLY PRECIPITATION DATA

VIRGINIA OCTOBER 2011

VOLUME 61 NUMBER 10

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Director

National Climatic Data Center

Thom R. Karl

DAILY PRECIPITATION TOTALS

	STATION	٦														DA	Y OI	F MC	ONTI	H													
GAGE	STATION	TOTAL	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 F F F F F T F F F F T T F F F F N N F F F F	BEDFORD 4 NW BLACKSBURG NWSO BREMO BLUFF CAMP PICKETT CHATHAM DANVILLE REGIONAL AP GALAX WTP GATHRIGHT DAM JOHN H KERR DAM LYNCHBURG INTL AP MILLGAP NORFOLK INTL AP PAINTER 2W PIEDMONT RSCH STN PULASKI 2 E RICHMOND INTL AP ROANOKE INTL AP ROANOKE INTL AP ROCKY MT STAFFORDSVILLE 3 ENE TROUT DALE 3 SSE WAKEFIELD INW WASHGTN DULLES INTL AP WASHINGTON REAGAN AP WILLIAMSBURG 2 N WILLIS WISE 3E WOOLWINE	2.6 3.5 2.8 4.9 .0 I 3.2 3.45 2.9 2.5 3.8 2.95 3.0 I 2.13 1.9 5.8 2.6 2.79 4.06 3.8 .0 P .5 I 6.27 3.91 4.24E 2.7 P .0 P 5.5 2.0	m T .22 .03 T P P .80 .29 I P	T .01	.01 I T	T T m	m I	m I	m .1	m m	m .1	.1 m	.4	1.1 1.7 .4 1.4 m .9 .61 .7 .6 1.0 1.33 1.1 T 2.2 .9 .71 1.29 1.3	.2	.1 .1 .2 .211 .12	m · · · m	m · · · m	m	.1	2 1.1 2 1.3 m 2 2.64 4 3 3 .5 5 .21 4 4 .74 8 8 1.1 2 2.21 .54 5 5 -	m 2 m T	m · · · m	m m	m · · · m	.1 m T T .1	m .1	m .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	m T .1 .1	.2	.6		.2 .51 .1 .31 .4 .4

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STATION						A	.М. Н	OUR I	ENDI	NG								P.	М. Н	OUR I	ENDI	NG				
SIATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ALTAVISTA	11 12			.1	.1		.1	.5	.1	.1		.1					.1				.1		.1		.1	.4 1.1
	14 19						.1		.1							.1										.1 .2
BEDFORD 4 NW	28 29 11	.1	.1	.1	.1	.1		.1									,	.1				.1	.1	1	1	.6
BEDFORD 4 NW	11 12 13		.1		.2	.1	.1	.3	.2	.1	.5						.1					.1		.1	.1	1.7 .2
	14 18						.1																		.1	.1 .1
	19 28 29		.1		.1	.1	.1 .1										.1		.1				.1	.1		.1 .5 .4
BLACKSBURG NWSO	10 11		.1			.1	.1			.1									.1		.1	.1	.2	.2		.1
	12 13	.1		.1	.1		.1				.2															.4
	14 18 19		.1		.1														.1	.1			.1	.1		.2 .2 .2 .2
	28 29	.1			.1									.1		.1	.1		.1	.1	.1		.1			.6 .2
BREMO BLUFF	11 12 13		.1 .1	.1	.1	.1			.2	.2			.6												.1 .1	1.4
	14 19	.1	.1	.1 .1	.1	.1			.1		.1					.3	.4									.7 .2 1.3
	24 28																			.1		.1			.1	.1
CAMP PICKETT	29 1 31	[m m	m m	.1 m m	.2 m m	.2 m m	m m	.3 m m	m m	.1 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	m i]	.9 m I
СНАТНАМ	11 12			.1			.2	.4	.1	.1						.1			.1			.2		.1	.1	.6 .9
	13 14 18			.1											.1								.1		.1	.1 .1 .2
	19 28										.1					.1	.1		.1				.1	.1	.1	.2 .4
DANVILLE REGIONAL AP	29	.1	.2	.1	.2		.1 T		.01																	.7
	3 11 12	.02	T .04	.04	.01	T .01	.01 .22	.02 .11	T .01	.01 .11	.01	T T	T	Т	.01 .01	.01	Т	.02	.05	.01	.01	.02	.07	.04	.01 .03	.02 .29 .61
	13 14		.02	T .04	.06	.12	Т			T T	.01		T	Т			.06	.01								.08 .24
	18 19 27	.27	.17	T	Т	T				.10	.03	T	.01	.01	.01	T	Т	.04				.08	.19 T	.10	.17	.54 .64 T
	28			T	T	T	T	Т			Т	T	T	.01	.02	.02	.01	T	.02	.07	.02	.01	.03	.03	.01	.25

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STATION						A.	М. Н	OUR I	ENDI	NG								P.	м. н	OUR I	ENDI	NG				l
SIATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GALAX WTP	29 9	.10	.11	.19	.13	.13	.06	.03	.02											.1						.77 .1
	11 12	.1	.4	.2															.1		.1	.1		.1		.4 .7
	13 14			.1	.1					.1				.1							.1	.1				.4 .2 .2
	18 19											.1		1	.1		,	.1	.1			.2		1		.4
GATHRIGHT DAM	28 29 11	.1										.1		.1			.1			.1				.1	.1	.4 .1 .3
Ommident Drive	12 13			.1		.1	.1	.1	.1 .3		.1						.1			''		.1	.1		.1	.6 .6
	14 19				.1			.1		.1							.1			.1						.2
	26 28																	.1					.1		.1	.1
JOHN H KERR DAM	29 10 11				.1			.1													.1		.1			.2 .1 .1
	12 18		.1				.2	.1	.2		.2	.2											.2	.4	.2	1.0
	19 28	.1	.2	.1							.1					.1								.1		.5 .2
A LANGUAGUE A NATURA A D	29 31	.1		.1	.2	.1	.1	.2	.1										.2							.9 .2 T
LYNCHBURG INTL AP	1 2 3	T	Т	.01																	T	T		T	.05	.05 .01
	11 12	.06	.04	.04	.06	T .02	T .01	T .49	.01 .28	.02	.01	.07	.05	T T	T T	T .02	T T	T .02	T .03	T .09	.01 .01	.02 .01	.01 T	.04	.07	.16 1.33
	13 14			.01	.02	T	.05	.02	.01					Т	.35	.01		.07	T							.43 .11
	18 19	.02		T	Т	T			T		.04	.01	T		.01	.02		.01	.02	.01	.01	T .06	T T	T	.02	.02 .21
	24 28 29	.02	.08	T .15	.05	T .03	T .09	T .04	.01	т	T		T	.02	T	.03	Т	.01	.03	.02	T T	T	.02	.02	.01	T .16 .47
MILLGAP	3	.02	.00		.00	.1	.0,		.01	•	-		[m	i]											.1	I .2
	12 13	.1	.1				.1	.1		.3	.1 .2	.1	.1	.1							.2	.1				1.1
	14 19									.1								.1		.1		.2				.1
	26 27 28										.1 .1												.1			.1 .1 .1
NORFOLK INTL AP	29 1		.1			.1			.1			.1							.15	.07			"-			.4 .22
	2 3									T	Т	T		Т												T T

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STATION						A	.М. Н	OUR I	ENDI	NG								Р.	м. н	OUR I	ENDI	NG				ı
SIATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	11 12					T	T	Т	T	T	T T	T T	T T	T T	Т	Т	Т									T T
	13 18							Т								.11	.02	.01	.03				Т	T	T	.17 T
	19 28	.16	.20	.18	.17	.03						T		T	T T	T .01	.02	T	T	Т	T	T	.02	.01	.02	.74 .08
PAINTER 2W	29 31 19	.02	.03			1	1	,	T .2	.28	.08	T		Т	T						.01	.05	.12	.21	.12	.41 .51
PAINIER 2W	20 29				.1	.1	.1	.3	.2		.1		.4	.2		.1	.1		.1							.8 .2 .8
PIEDMONT RSCH STN	31 12	.1		.1		.1			.1	.3	.7	.2	.1	.1	.2	.1					.1				.1	.1 2.2
	13 14	.4	.2				.1 .1			.1						.3					.1					1.1
	19 24 28		.2	.1	.1	.2											.3	.2		.1		.1		.1		1.1 .1 .2
PULASKI 2 E	29 11	.1	.1		.2	.1		.1	.1	.1	.1									.1	.1	.2		.1	.2	.9 .7
	12 19	.2	.3	.2	.1			.1								.1			.1							.9 .2
	25 28 29	1													.1		.1		.1 .1	.1	.1			.1		.1 .6 .1
RICHMOND INTL AP	1 2	.1				Т	T T	Т	.03			Т	Т													.03 T
	3 4				Т	T T	.01	Т	.01	T	Т	T														.02 T
	11 12	T T	.08 T	.13 T	T T	Т	T		.01	.03	T .06	T .19	.02	.02	.07	T .09	T T				.01 .01	.01	Т	T T	.03 T	.03
	13 14 18	1	1	1	1	1	T T				Т										.01	.01			Т	.02 T T
	19 27	.03	T	.03	.03	.03	.04	Т	T	.01	T		T			T	.01	.01	.01	.01		T	T T		T	.21 T
	28 29	T .01	T .05	T .13	.12	T .19	T .31	T .13	T .14	.22	.01	T T	T .01	T T	T T	T	.01	.02	.03	.01	.03	.01	T	.01	.02	1.32
ROANOKE INTL AP	31 1 2	Т			Т	.01	Т				Т							T	.08 T	.16 T	.03 T	T T	.02 T T	.02 T T	T	.31 T .01
	3 11		T	T	T	.01	T	Т	T	T	'				T T	T .02	T .03	.02	.01	.01	.02	.03	.05	.06	.03	T .28
	12 13	.06	.18	.12 T	.20 T	.20	.24	.14 .02	.13 .08	.01 T	.01 T	.01	Т	.02	T T	T .22	Т					.02	Т	T	T	1.29
	14 18 19	.02	.02	.04 T	.02	.06	.03	.01	.02	Т	.04	07	.03	.05	.14	.05	.08	.01	Т	.02	Т	.03	.04	.08	.15	.17 .30 .54
	24 27 28	.02		1				.01	.02	T	T T	.07	.03	.03	.17	.03	.00	.01 T	T	T T	1					T T
	28					T	.01					T	.02	.01	.05	.08	.05	.05	.04	.05	.03	.10	.05	.11	.08	.73

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STATION						A.	М. Н	OUR I	ENDI	NG								P.	М. Н(OUR I	ENDI	NG				l l
STATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ROCKY MT	29 11 12 13 14	.04	.11 .1	.02 .2 .1	.05	.05 .2 .1	.02	.1	.01	.01	Т			.2	.1		.1	.1		.1	.1	.1 .1	.1		.1	.31 .7 1.3 .4
	18 19 28 29	.1	.1	.1		.1		.1				.1			.1		.1	.1 .1					.1 .1			.1 .5 .2 .4
STAFFORDSVILLE 3 ENE	1 31		{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -}	P
TROUT DALE 3 SSE	1 31	_	{ - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -}	P -
WAKEFIELD INW	5 30	m	m	m	m	m	m	m	m	i]		.1			[i	m	m	m	m	m	m	m	m	m	m	.1I
WASHGTN DULLES INTL AP	31 1 2 3	.03	.03	.02	T T		T	Т	.08 T	.01 T	.02 T	T T	.05 T .02	.01 T T	Т	.02	T .03	.11 T	.10	.14 T	.04 .01 T	.1 .03 .01 .01	.1 .08 .01 T	.1 .08 T	.1 .05 T	.4 .80 .16 .03 T
	11 12 13 14	Т	.02 .01	T .04	.01 .25	T .06	T .01	.05	.03 .01	T .03	.04 .04	.01 .01 .49	.03 .02	T T	.11 .02	.13	.01	.02 .56	.01 .46	.01 .06	.02 .12	T T .07	.02 .12	T .03	.01	.44 1.92 .61
	18 19 24 26	Т	.01	.16	.08	.13	.13	.03					.01	T .09	T .06	T .02	Т	.03	.15 .02	.07 .07	.01 T			T	T	.81 .09
	27 28			T	Т	.02	.01	.01	T	.01	.01	.04	.01	T				.01	Т	Т	T	.01	.01	.03	.02	.12 .07
WASHINGTON REAGAN AP	29 1 2 3 4	.02	.02 .03 T T	.04 .06 T	.07	.10	.07	.08 T	.06 .01	.08 .01	.13	.03	.12 .04	.06 T T T	.03 T T T	.05 .03 T	.05 .01 T	.02 T T	T .05 T	T	T T	.03 T	Т	.01 T T	.05	1.03 .29 .18 T
	11 12 13 14 19	Т	T T	.01 T	T T	T T	.01 T	.18 .01 .08	T .05	.02 .04 T	.01 T	T .12 T	.05 T .02 T	T .01 T	T T	T .22 T	.05 T T	.01 T T .04	.05 .10	.02 T	.02 T	.01	T .30	T .10	T	T .44 .72 .25 .50
	20 24 26 27		T	T	Т	.01	.02	Т	T	.01	Т	.06	.02	T .01	T T	T .01	T T	T	T	.02 T	.11				T	T .13 .01 .13
WILLIAMSBURG 2 N	28 29 1 6 12	.05 m	.04 m	.02 m	.08 m	.07 m	.08 m	.07 m]	.07 [i	.20 m	.16 m	.02 m	.06 m	.08 m	.02 m	.06 m	.07 m	.02 m	.01 m	T m	T T m	T m	.01 m	.03 m	.04 m	.08 1.18 I I .3
	13 19 26			.5	.4	.2			.1			.2			.1	.3							.1			.3 1.3 .1

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VIRGINIA

HOURLY PRECIPITATION

STATION						A	.M. H	OUR	ENDI	NG								P.	М. Н(OUR E	NDI	NG				l l
STATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
WILLIS	29 31 11 12 13	.1		.3	.1		.1	.2	.3	.4		.1					.1	.1		.1	.1	.1 .1	.1 .2	.1 .2	.1 .1	1.1 .4 1.0 .5 .3 .2
	14 18 19 28 29	.1	.1	.1	.1	.1							.1		.1			.1	.1q	.1q		.2q	.2q	.1	.1q	.2 P P .5 .2 P
WISE 3E	1 31	_	{ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- - }	P
WOOLWINE	7 11 12 13	.2	.2	.3	.3	.3	.1			.1		.1			.1		.1		.1	.1	.1	.4	.2	.2	.2	.1 1.4 1.5 .4
	18 19 28 29	.1	.1	.1		.1	.1		.1	.1	.1 .1		.1	.1		.2		.1	.1				.2	.1 .1	.1	.4 1.0 .3 .4
WYTHEVILLE 1 S	11 12 14 19	.2	.2	.1 .1													.1	.1		.1		.1			.1	.3 .5 .1
	28 29	.1									.1		.1		.1	.1	.1	.1	.1	.1		.1				.3 .7 .1

MONTHLY PRECIPITATION MAXIMA

						IIAI				OCTOBER 2011
STATION				MAXIM	A FOR M	EASURM	ENT			MAXIMUM
	N	IINUTES				HOUI	RS			ACCUMULATION
	15	30	45	1	2	3	6	12	24	
ALTAVISTA BEDFORD 4 NW BLACKSBURG NWSO BREMO BLUFF CAMP PICKETT CHATHAM DANVILLE REGIONAL AP GALAX WTP GATHRIGHT DAM JOHN H KERR DAM LYNCHBURG INTL AP MILLGAP NORFOLK INTL AP PAINTER 2W PIEDMONT RSCH STN PULASKI 2 E RICHMOND INTL AP ROANOKE INTL AP ROANOKE INTL AP ROANOKE INTL AP WASHINGTON DULLES INTL AP WASHINGTON REAGAN AP WILLIAMSBURG 2 N WILLIS WISE 3E WOOLWINE WYTHEVILLE 1 S	.2 12/0630 .3 12/0945 .1 29/0315+ .3 13/0100+ .3 12/0615 .2 12/0115 .2 13/0800 .1 31/1745+ .3 29/1200 .3 13/1500+ .1 29/0045+ .2 13/1230 .1 29/0400+ .2 11/2030 .1 29/0030+	.3 12/0645+ .4 12/1000 .2 13/0930+ .4 19/1515+ .3 12/0630+ .3 12/0130 .3 13/0800 .2 29/0630+ .3 29/1215+ .4 12/1015+ .2 12/0215+ .2 13/1245+ .2 13/1245+ .3 11/2030 .2 12/0115+	.4 12/0700+ .4 12/1015+ .2 19/1830+ .5 19/1515+ .4 12/0645+ .4 12/0145 .3 13/0815+ .3 18/2300+ .4 29/1230+ .5 12/1030+ .3 12/0215+ .2 13/1300+ .3 12/0245 .3 12/0345+ .3 12/0115	.5 12/0715+ .5 12/1000 .3 11/2215 .6 12/1200 .5 12/0615 .27 19/0100 .4 12/0200+ .3 13/0830+ .4 18/2300+ .49 12/0700 .28 29/0900 .4 29/1245+ .7 12/1000 .4 12/0215 .31 29/0600 .3 12/0545 .56 13/1700 .30 13/2200 .3 12/0315+ .4 12/0345+ .3 12/0145+	.7 12/0745+ .6 12/1030+ .4 11/2315+ .7 19/1630+ .7 12/0715 .44 19/0200+ .6 12/0300+ .4 13/0930 .7 18/2330 .77 12/0800 .38 19/0300 .6 29/1315+ 1.1 12/1030 .5 12/0315+ .50 29/0600 .44 12/0604 .4 12/0645+ 1.02 13/1800 .40 13/2300 .4 18/2215+ .6 12/0500+ .5 12/0230+	.8 12/0845+ .8 12/1000+ .5 12/0015+ .7 19/1730+ .7 12/0815+ .61 19/0200 .7 12/0315+ .4 13/1030+ .9 19/0030 .79 12/0900 .55 19/0400 .7 19/0745+ 1.3 12/1045+ .7 12/0300+ .63 29/0700 .64 12/0630+ 1.08 13/1900 .43 29/1000 .5 Q18/2315+ .9 12/0500 .6 12/0245+	1.0 12/0845+ 1.3 12/1045+ 7 12/0145+ 7 12/0145+ 1.0 12/1315+ 8 12/1115+ .98 19/0200 .9 12/0245 .5 12/0830+ 1.2 19/0330+ .92 12/1200 .74 19/0600+ .8 19/1045+ 1.7 12/1345+ 1.1 12/0430+ 1.11 29/0900 1.08 12/0700 1.0 12/0815+ 1.39 13/2200 .65 29/1000 .9 12/0345+ 1.5 12/0500+ .7 12/0245+	1.2 12/1130+ 1.8 12/1000 1.0 12/0745+ 1.3 12/1315+ 1.2 12/0800+ 1.00 19/0900 1.1 12/0515+ .7 12/1015+ 1.2 19/0930+ 1.17 12/1100 .74 19/1200+ .8 29/2315+ 1.9 12/1945+ 1.5 12/0715+ 1.34 29/1000 1.44 12/0800 1.6 12/0845+ 1.44 13/2200 .97 29/1500 1.5 12/0330+ 2.6 12/0600+ .8 12/0645+	1.5 12/1545+ 2.1 12/1530+ 1.1 12/1715+ 1.9 13/0400+ 1.5 12/1445+ 1.18 19/2000+ 1.1 12/1715+ 9 12/1845+ 1.3 19/2130+ 1.46 12/2000+ .74 19/2400+ 9 20/0445+ 2.7 13/0200+ 1.6 12/1830+ 1.46 29/1500+ 1.57 12/1400+ 2.0 12/1345+ 2.04 14/1100 1.26 29/2100+ 1.5 12/1530+ 2.9 12/1530+ 8 29/0945+	

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.
- 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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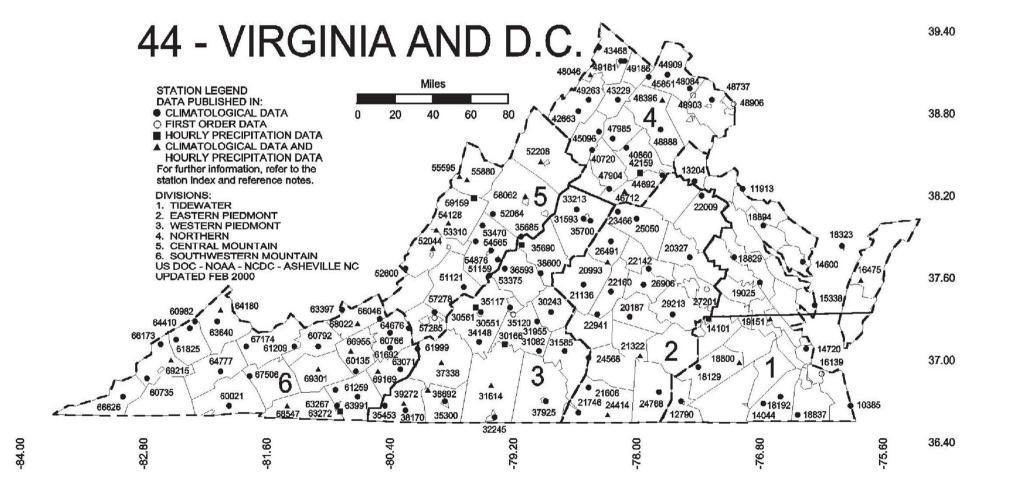
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STATION INDEX

OCTOBER 2011 **VIRGINIA**

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation Ft.	Years Of
ALTAVISTA BEDFORD 4 NW BLACKSBURG NWSO BREMO BLUFF CAMP PICKETT CHATHAM DANVILLE REGIONAL AP GALAX WTP GATHRIGHT DAM JOHN H KERR DAM LYNCHBURG INTL AP MILLGAP NORFOLK INTL AP PAINTER 2W PIEDMONT RSCH STN PULASKI 2 E RICHMOND INTL AP ROANOKE INTL AP ROCKY MT STAFFORDSVILLE 3 ENE TROUT DALE 3 SSE WAKEFIELD 1NW WASHINGTON REAGAN AP WILLIAMSBURG 2 N WILLIS WISE 3E WOOLWINE WYTHEVILLE 1 S	0166 05616 0769321614 2257014 2257331195955 6471555615728382470385899051992701 8889003619992701	CAMPBELL BEDFORD MONTGOMERY FLUVANNA NOTTOWAY PITTSYLVANIA PITTSYLVANIA CARROLL ALLEGHANY MECKLENBURG CAMPBELL HIGHLAND NORFOLK (CIT ACCOMACK ORANGE PULASKI HENRICO ROANOKE FRANKLIN GILES GRAYSON SUSSEX LOUDOUN ARLINGTON YORK FLOYD WISE PATRICK WYTHE	15 927 19599557119551114 1391671	37 23 37 12 37 43 37 49 36 39 36 39 37 39 36 59 37 51 38 51 51 51 51 51 51 51 51 51 51 51 51 51 5	79 17 79 34 80 25 78 17 77 29 20 80 57 79 12 77 80 12 77 80 47 79 58 49 78 07 77 79 58 40 77 79 58 43 77 77 6 42 80 32 81 77 76 42 80 82 31 81	515 1220 2100 225 330 6471 23600 17700 9421 3200 1854 1175 13150 2813 2910 2814 2915 200 24500 24500	65 16 7 25 87 8 52 36 55 60 73 8 42 10 65 50 60 73 8 12 70 65 50 60 73 8 13 75 60 73 78 13 76 76 76 76 76 76 76 76 76 76 76 76 76
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