

VOLUME 91

NUMBER 13

# CLIMATOLOGICAL DATA

## ANNUAL SUMMARY



VIRGINIA

1981

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801."

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND  
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER  
ASHEVILLE, N.C.

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

VIRGINIA  
1981

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
TIDEWATER 01																										
BACK BAY WL REF	33.4M						61.1M		64.5		78.9		80.1		76.2		72.8		63.5		53.8M		41.6M			
BRANCHVILLE 1 S	32.6M						62.8		65.1M		76.3M		79.2		76.7M		70.7M		58.2M		50.2M					
COLONIAL BEACH	32.8		42.5M		46.1M		62.8		65.1M	-1.7	76.8M	3.8	77.2	-3	73.0M	-2.1	67.2	-1.6	54.3M	-3.7	46.9	-1.1	34.9	-1.9	55.9M	-2
FREDERICKSBURG NATL PM	30.3M	-5.1	41.7M	5.0	43.8	-2.8	60.7		61.4M	-2.5	78.2	4.0	78.5	-9	74.0	-2.0	68.6	-2.1	57.3	-3.2	49.4	-1.5	37.5	-3.7	57.6	-1.2
MOLLAND 1 E	32.7	-7.0	42.5	1.5	45.6	-2.7	61.9		64.8	-2.5	78.2															
HOPEWELL	34.6	-5.9	45.3	3.0	47.3	-2.3	63.9		65.4	-3.2	78.6	2.8	79.2M	-1	74.5	-3.3	69.3	-2.6	57.8	-3.7	50.0	-1.5	37.6	-4.0	58.6M	-1.4
KILMARNOCK 1 N	30.2M		41.4		43.1		59.8M		62.7		76.5M		76.6M		72.8M		70.0M		57.2		48.0		36.8		56.3M	
LANGLEY AFB	32.6	-7.4	43.2	1.9	45.5	-2.7	60.9		64.1	-7	79.6	4.9	81.0	2.4	75.8	-1.5	71.5	-3	59.6	-2.0	50.0	-1.5	39.9	-1.9	58.8	-5
MATHEWS 2 ENE	31.5		41.7		44.2		60.4		63.2		76.7		77.8		73.7		69.1		57.7		49.0		38.5		57.0	
NORFOLK WSO AP	32.7	-7.8	43.1	1.7	45.4	-2.7	61.2		65.1	-1.6	78.3	3.8	79.8	1.5	75.1	-1.8	70.7	-1.1	59.6	-2.1	50.7	-9	41.0	-1.3	58.6	-7
OYSTER			42.3M	1.1	44.5M	-3.3	58.7M	1.2	63.4M	-3.3	77.0	2.4	78.0M	-6	73.5M	-3.9	68.6M	-3.7	58.0M	-4.8	52.0M	-3				
PAINTER 2 W	31.6		41.9		44.0		59.2		63.0		76.8		77.5		73.7		68.6		57.7		49.6		39.0		56.9	
STONY CREEK 3 ESE			41.3M		44.3		61.1M		65.0		76.8		79.1M		72.8		67.5M		56.8		48.9		37.3		56.8	
SUFFOLK LAKE KILBY	30.5		43.5		45.8		60.4		64.3		77.8		79.3		74.9		69.8		57.9		49.6		38.9		57.7	
TANGIER ISLAND	31.0		41.2		44.1M		59.3		64.3		78.2		80.5		76.8		72.6		60.1		50.4		38.2		58.1M	
WALKERTON 2 NW	30.4	-7.1	42.1M	2.6	43.6M	-3.2	60.7		63.5	-2.9	77.2	3.3	77.2	-3	73.8	-2.1	67.4	-2.3	55.1	-4.1	47.2	-1.7	35.6	-3.0	56.2M	-1.4
WAPSAW 2 M	31.0		42.9		44.3		60.7		63.4		76.8		77.3		73.5		68.4		56.5M		49.1		37.3		56.8M	
WAVELEY	29.9M		39.1M		41.2M						77.0M		78.1M		73.5M		67.1M		56.8M							
WEST POINT 2 SW	31.3		43.2		45.1		61.6		65.0		77.9		77.4		74.0		69.1		57.4		48.8		37.8		57.4	
WILLIAMSBURG 2 W	31.7	-7.6	43.4	2.6	44.4	-3.5	61.0		64.3	-2.4	77.2	3.3	78.0	-5	73.9	-2.2	68.6	-1.9	58.0	-2.3	48.5	-2.0	37.7	-2.9	57.2	-1.3
DIVISION	31.7	-7.4	42.4	2.0	44.6	-2.8	60.9		64.2	-2.3	77.6	3.5	78.6	-7	74.5	-2.3	69.3	-1.7	57.7	-3.2	49.5	-1.1	38.0	-2.7	57.4	-1.2
EASTERN PIEDMONT 02																										
AMELIA 4 SW	30.7M		39.0		43.2		58.2		61.5		76.9		76.3		71.9		65.8		52.9		46.6		34.1M		54.8M	
ASHLAND	29.9		41.1M		43.5		59.7		62.6		75.6		76.3		72.8		66.7		54.1		47.3		35.8		55.5M	
CAMP PICKETT	30.0M		39.3		42.2		58.8		61.9		76.2M		76.9		72.2		66.5		54.4		47.2		34.9		55.0M	
CHASE CITY	31.4		40.3M		43.1				65.8		77.3		77.1		73.1		67.5M		55.5		48.6M		36.7		56.7	
COLUMBIA	29.9	-5.9	39.0	1.6	43.1	-2.2	59.0		61.8	-3.5	74.7	1.8	76.5	-3	71.9	-3.3	66.7	-1.8	53.7	-4.2	46.9	-1.1	34.2	-3.0	54.8	-1.5
CORBIN	29.4		39.7M		43.1		58.9		61.5		74.5		75.9		73.0		67.5		54.3		47.5		35.3		55.1M	
CROZIER	30.0		39.4		43.0		58.5		62.0		74.8		76.3		71.7		66.5		53.3		47.1		34.8		54.8	
FARMVILLE 2 N	32.8	-5.2	42.3	2.6	44.6	-2.4	61.5		64.6	-2.2	77.2M	4.0	77.1	-3	72.7	-2.6	67.0	-1.7	56.4	-3.0	48.1	-2	35.6	-3.0	56.5M	-8
JOHN H KERR DAM	32.4		40.4		44.0		59.5		62.8		77.2		77.2		72.6		67.9		55.5		48.8		37.1		56.3	
LAWRENCEVILLE 5 W	33.2		43.4		45.6		61.7		63.8		77.2		76.5		71.9		66.3		55.7		48.5		36.8		56.7	
LOUISA	31.6	-4.5	41.5	3.5	43.8	-1.9	59.9		62.3	-3.0	74.9	2.2	75.4	-8	72.1	-2.6	66.8	-1.3	54.7M	-2.9	47.9M		36.8	-2.3	55.5M	-8
RICHMOND WSO AP	31.2	-6.3	42.2	2.8	44.5	-2.3	60.6		64.1	-2.4	77.9	3.7	78.6	-1.7	75.1	-1.2	69.4	-1.6	56.4	-2.9	49.1	-1	38.0	-1.0	57.4	-4
DIVISION	31.0	-6.2	40.6	1.6	44.0	-2.5	59.7		62.8	-3.0	76.2	2.9	76.8	-1	72.6	-2.8	67.1	-1.9	54.7	-3.7	47.8	-2	35.6	-2.7	55.7	-1.4
WESTERN PIEDMONT 03																										
APPOMATTOX	31.8M																									
BEDFORD	35.8M	-2.1	42.0M	2.6	46.3M	-5	61.7M		64.4M	-1.3	76.0	3.3	75.2	-6	71.3M	-3.1	65.4	-2.2	53.6		46.3M		33.4		56.5M	-4
BROOKNEAL	31.4		39.1		43.3		58.5		62.4		76.3		76.9		72.5		67.0		53.3		46.5		34.6		55.2	
CHARLOTTE COURT HOUSE	31.7		40.1		42.9		58.1M		61.2M		75.2M		75.5		71.5		65.6M		52.4		46.4		34.1		54.6M	
CHARLOTTESVILLE 2 W	31.8	-4.2	40.2	2.6	44.8	-4.8	60.8M		63.5	-2.5	75.4	2.1	75.8	-1.3	72.7	-2.9	68.1	-1.3	55.5	-4.0	49.0		35.3	-2.5	56.1M	-9
CHATHAM	29.6	-7.8	36.5	-2.7	40.6	-5.8	55.3M	-1.9	58.5	-7.4	73.7	-6	73.8	-2.7	68.6M	-6.5	63.9	-4.9	50.8	-7.8	44.8M	-2.9	34.0	-4.6	52.5M	-4.5
DANVILLE-BRIDGE ST	33.0	-6.3	41.0	-1.1	45.0	-3.3	60.3		63.1	-9.0	76.0	4.1	76.7	-8	75.1	-1.8	68.8	-1.8	55.7	-4.2	48.2		36.3	-3.7	57.1	-1.6
LYNCHBURG WSO AP	31.3	-5.3	40.8	2.7	43.3	-2.2	59.4		62.5	-7.7	75.7	3.1	76.1	-6	73.5	-1.1	66.3	-1.8	53.8	-4.2	47.0		34.0	-3.8	55.3	-1.0
MARTINSVILLE FILT PL	30.8	-6.3	37.3M	-1.7	42.2	-3.0	57.0M		59.7	-5.7	75.1M	2.7	76.3	-7	73.0M	-1.4	65.9M	-1.8	52.8	-4.4	45.9		34.2	-3.6	54.3M	-2.1
PHILPOT DAM 2	32.4		38.5		42.6		57.4		60.4		74.2		75.6		71.5		64.3M		53.3M		47.3		34.2		54.3M	
PINEY RIVER 2 SE	32.7		40.4		44.7		60.6		62.5M		74.7M		74.7		71.5		65.9		54.6M		45.9M		34.7		55.2M	
POKEY MOUNT	31.7		38.3		43.1		57.0		59.7		73.9M		75.2		72.0		65.8		52.8		45.8		33.6		54.1M	
SOUTH BOSTON	31.0		39.5		42.5		57.7M		61.4		77.1M		77.0		71.9		65.7		52.4		45.5		33.9		54.6M	
STUART 1 SSE	33.4		41.0M		44.5		60.0		63.6		74.5		74.3		71.8		66.3</									

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

VIRGINIA  
1981

Table 1-Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
NARION EVAP STATION	28.8		37.5		39.9		58.4		59.4		71.3		73.5		69.9		63.6		52.5		45.3		32.9		52.4	
MT LAKE BIOLOGICAL STA	21.5		30.6		32.8		51.1		53.2		65.5		65.6		62.5		55.2		44.9		37.2		22.8M		45.3M	
PENNINGTON GAP	29.3M	- 5.1	36.2	- .3	42.7	- 1.2	59.1	4.6	63.5	.5	75.7	5.7	76.4	3.4	72.8	.7	67.0	.6	55.5	- .5	46.0	1.8	35.2	- 1.0	55.0M	.8
PULASKI 2 E	30.0		37.7M		40.4		58.4M		58.8M		71.8		73.5		69.5		64.3		53.1		43.8		32.4		52.8M	
STAFFORDSVILLE 3 ENE	29.2		37.0		41.1		58.3M		60.4		70.6		72.1		71.3		-		53.2		44.6		31.6		-	
WISE 1 SE	28.0M		36.2M		39.8		58.6		59.7		71.1M		72.2		68.9		63.0		53.6		45.7		31.3		52.4M	
WYTHEVILLE 1 S	29.6	- 4.8	36.2	- .1	40.4	- 2.4	57.4	4.0	59.0	- 2.5	70.7	2.5	73.3	2.0	68.8	- 1.5	62.9	- 1.4	52.3	- 2.4	43.7	- .1	32.0	- 3.4	52.2	.8
DIVISION	28.2	- 6.0	35.7	- .1	39.7	- 3.3	57.1	3.5	58.5	- 3.5	70.8	2.0	72.3	.5	69.1	- 1.7	62.6	- 2.3	51.7	- 3.2	43.6	- .2	31.1	- 4.2	51.7	- 1.5

See Reference Notes Following Station Index

## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

VIRGINIA  
1981

TABLE 2

		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
STATION		PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
* * *																											
TIDEWATER 01																											
BACK BAY WL REF		1.37		3.21		2.10		1.73		2.25		4.97		5.40		10.30		3.61		2.66		1.82		4.67		2.44.00	
BRANCHVILLE 1 S		.48		3.45		2.39		1.88		4.07		3.12		3.09		5.78		4.10		3.33		.52		3.25		3.46.66	
COLONIAL BEACH		.41		3.65		1.70		3.60		5.36		1.76		4.69		2.11		4.10		3.33		.52		3.25		3.46.66	
DRIVER 4 NE		.90	-2.43	2.54	-1.02	2.15	-1.36	2.42	-.45	5.09	-1.34	4.08	-.14	3.48	-1.95	8.91	3.56	5.10	1.06	3.16	1.28	-1.74	5.30	2.01	44.41	.83	
EMPORIA 1 NW		.48	-2.30	2.02	-1.28	2.77	-.50	1.50	-1.38	3.98	-.24	2.22	-1.70	2.73	-3.32	5.59	1.03	1.12	2.58	2.48	.09	1.06	1.65	3.74	.52	29.69	-12.89
FREDERICKSBURG NATL PK		.34	-2.49	3.26	.75	.99	-2.56	2.69	-.12	3.73	-.28	2.63	-.51	4.29	-.11	2.53	2.26	1.27	1.97	4.65	1.80	-.20	2.72	3.29	.11	30.09	-9.76
HOLLAND 1 E		.55	-2.91	2.26	-1.29	2.55	-.92	2.27	-.68	3.45	-.04	3.85	-.68	3.84	-2.06	8.47	2.22	3.31	.63	4.04	.74	.43	2.69	5.13	1.48	40.17	-7.26
HOPEWELL		.54	-2.31	2.93	-.15	1.61	-1.56	2.66	-.33	5.89	2.20	3.21	.74	2.68	-2.58	2.46	2.08	2.32	1.32	2.47	.44	.94	1.99	4.27	1.18	31.98	-10.14
KILMARNOCK 1 N		.57		3.50		1.75		3.88		5.40		4.45		11.45		1.92		4.92		2.60		.95		4.18		45.57	
LANGLEY AFB		.72	-2.38	2.20	-1.22	2.02	-1.57	3.11	-.46	3.75	-.25	7.42	3.83	8.56	-1.60	7.57	2.79	4.92	.86	3.59	.69	1.79	.97	5.73	2.73	49.38	7.07
MATHEWS 2 EME		.80		2.99		1.85		2.82		4.43		2.56		6.22		2.73		1.70		3.37		.95		5.23		35.65	
NORFOLK WSO AP		1.05	-2.30	2.26	-1.05	1.88	-1.54	2.26	-.45	2.75	-.59	5.00	1.38	5.10	-.60	6.87	.95	3.18	-1.02	3.28	-.22	1.78	-1.16	5.77	2.66	41.18	-3.50
OYSTER		.89	-2.18	2.64	-.71	2.42	-1.30	3.28	-.57	3.21	-.19	3.59	.25	7.43	3.13	5.08	.79	3.45	.36	2.43	-.51	1.75	1.31	5.48	2.27	41.61	.83
PAINTER 2 W		.97		2.95		1.89		4.05		3.46		3.11		6.45		4.05		4.13		3.00		.53		5.53		38.78	
STONY CREEK 3 ESE		.49		3.67		2.72		3.33		7.37		8.76		6.49		6.78		1.20		4.26		1.51		4.90		51.48	
SUFFOLK LAKE KILBY		.67		2.88		2.06		1.96		2.91		4.97		3.86		7.78		2.74		3.99		.92		6.00		40.77	
TANGIER ISLAND		.17		3.38		2.17		2.46		5.49		2.50		6.28		1.64		3.42		1.56		.13		5.59		35.99	
WALKERTON 2 NW		.75	-2.29	3.38	-.34	1.40	-2.00	4.09	-1.19	6.04	-2.04	3.79	-1.95	4.07	-1.15	2.22	2.91	2.28	1.30	3.00	-.05	.76	-2.59	4.21	.90	34.17	-9.73
WALLACETON LK DRUMMOND		1.29	-2.28	2.98	-.60	2.29	-1.52	2.28	-.74	2.48	-1.40	4.82	-.26	8.18	-2.43	7.05	1.17	2.12	2.09	2.41	1.13	1.78	-1.22	5.58	2.05	43.26	-5.07
WARSAW 2 NW		.26		3.03		1.34		3.37		5.98		3.55		4.79		3.10		4.42		2.27		.98		3.22		36.31	
WAVERLY		.48		3.29		2.29		3.19		5.12		5.15		4.29		3.25		3.75		2.67		.85		5.74		40.27	
WEST POINT 2 SW		.59		2.94		1.67		2.91		4.40		2.10		2.85		1.90		3.36		2.86		.91		4.55		31.14	
WILLIAMSBURG 2 N		.62	-2.63	3.09	-.32	1.94	-1.71	2.62	-.23	3.98	-.12	2.34	-1.80	3.65	-1.61	1.65	3.14	2.03	1.60	2.82	.00	.89	-2.00	5.52	2.31	31.15	-12.61
DIVISION		.64	-2.44	3.05	-.07	1.95	-1.59	2.94	-.12	4.45	-1.04	3.85	-.15	5.04	-.02	4.31	-.64	3.17	-.51	3.12	-.15	1.08	-1.86	4.85	1.70	38.45	-3.93
* * *																											
EASTERN PIEDMONT 02																											
AMELIA 4 SW		.77		2.78		1.77		1.93		4.15		3.40		5.87		4.00		2.96		5.03		1.14		3.95		37.75	
ASHLAND		.88		3.61		1.56		2.92		5.84		.98		7.59		2.80		2.63		2.74		.70		3.88		35.93	
BREMO BLUFF		.72	-2.52	3.07	-.26	1.36	-2.31	2.35	-.58	2.75	-.79	1.44	-1.72	5.51	-1.49	4.10	-.20	1.62	-1.77	4.50	1.75	.75	-2.04	3.45	.16	31.12	-8.25
BUCKINGHAM		.39		4.07		1.31		2.10		2.73		2.15		7.90		6.17		4.09		5.14		.71		3.79		40.55	
CAMP PICKETT		.50		2.30		1.55		2.75		4.89		4.91		4.33		3.35		3.05		2.63		1.27		4.77		36.30	
CHASE CITY		.28		2.75		1.78		2.66		2.94		3.06		9.19		3.55		7.00		3.37		.71		5.75		37.75	
CLARKSVILLE		.64	-2.55	3.10	-.28	2.23	-1.43	2.14	-1.08	3.57	-.17	2.45	-1.43	5.34	-1.01	1.75	-2.66	2.45	1.24	3.32	1.00	.71	-2.33	4.38	1.26	32.38	-9.56
COLUMBIA		.27	-2.33	3.04	-.38	1.40	-2.14	2.22	-.73	2.44	-1.03	1.87	-.93	5.84	-1.97	3.71	-.93	5.84	-1.97	3.71	-.93	.72	-1.94	3.52	.42	31.23	-7.04
CORBIN		.26		3.78		1.46		3.03		4.79		1.71		4.44		1.60		1.73		4.17		.24		3.24		30.45	
CROZIER		.72	-2.10	2.83	-.12	1.50	-2.25	2.83	-.12	3.83	-.57	3.32	-.57	3.32	-.57	3.32	-.57	2.68	-1.05	3.68	-.63	.81	-2.14	3.90	.55	32.56	-9.72
CUMBERLAND		.62		2.78		1.73		2.62		3.30		1.19		5.61		3.86		3.20		4.45		.74		3.88		35.26	
FARMVILLE 2 N		.90	-2.26	3.34	-.02	1.73	-2.12	3.01	-.12	3.40	-.10	2.88	-.90	5.61	-.88	6.59	2.55	3.20	-.40	4.45	1.55	.94	-2.16	3.98	.59	40.26	-2.49
GORDONSVILLE 3 S		.24		3.65		1.30		1.99		3.12		2.24		7.59		4.27		2.82		4.17		.84		3.03		35.26	
JOHN H KERR DAM		.67		2.47		2.14		2.25		4.59		2.68		6.03		3.00		1.57		3.91		.63		4.08		34.02	
KEYSVILLE 8 N		.52		3.83		1.50		2.85		2.47		3.82		4.99		.92		4.08		5.14		.71		2.89		33.72	
LAWRENCEVILLE 5 W		.80		2.41		2.10		1.31		3.67		2.89		6.16		4.59		1.31		3.17		1.36		4.82		35.68	
LOUISA		.10	-2.90	3.08	-.13	1.35	-2.55	2.14	-.95	4.05	-.79	2.11	-1.21	6.46	-1.80	3.59	1.20	2.74	-.37	3.80	.86	.70	-2.40	3.54	.04	33.66	-7.96
PALMYRA 1 E		.10		3.17		1.24		2.28		2.30		2.18		5.98		5.32		1.45		4.31		.60		3.59		32.42	
PETERSBURG		.41		2.63		1.75		2.67		7.37		4.20		5.06		3.05		2.95		2.44		.63		3.89		37.05	
POWHEATAN 1 E		.50		2.33		1.52		2.25		3.03		1.96		4.35		4.71											
RICHMOND WSO AP		.64	-2.22	2.76	-.25	1.52	-1.64	2.96	-.19	6.62	-3.20	3.69	-.17	4.01	-1.62	2.89	2.17	2.70	-.88	2.36	-.56	.68	-2.52	5.04	1.82	35.87	-6.72
WINTERPOCK 4 W		.94		3.02		1.80		2.46		5.30		3.69		4.68		2.84		2.85		2.66		.79		4.47		35.48	
DIVISION		.57	-2.38	2.93	-.10	1.64	-1.95	2.59	-.45	4.27	-.82	2.77	-.74	5.74	-1.00	3.56	-.80	2.76	-.77	3.69	-.83	.84	-2.17	4.21	.95	35.59	-5.76
* * *																											
WESTERN PIEDMONT 03																											
ALTAVISTA		.70		4.15		1.73		2.81		1.95		2.65		4.78		5.18		5.83		3.35		.90		3.87		38.08	
APPOLOITOX		.40	-2.36	4.03	-.99	1.86	-1.72	2.67	-.56	3.02	-.95	4.85	-.84	4.24	-.06	2.37	-2.25	3.70	-.07	4.48	1.65	.50	-2.39	4.80	.44	35.29	-7.76
BEFORD		.36	-2.64	3.71	.51	2.16	1.72	2.67	-.56	3.02	-.95	4.85	-.84	4.24	-.06	2.37	-2.25	3.70	-.07	4.48	1.65	.50	-2.39	4.80	.44	35.29	-7.76
BROOKNEAL		.72		4.34		1.82		3.36		1.87		3.97		6.													

## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

VIRGINIA  
1981

TABLE 2

STATION		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
		PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
WARRENTON 3 SE		.26		4.63		1.02		2.35		3.54		4.21		6.27		7.76		1.77		3.75		.62		2.38		39.16	
WASHINGTON 3 SSW		.23				.64																					
WASH DULLES WSO AP		.40	2.44	4.10	1.49	.99	2.49	3.05	.09	4.36	.66	3.86	.25	4.05	.07	3.55	.70	2.07	1.22	3.00	.26	.74	2.82	2.46	1.01	32.13	7.98
WASH NATL WSO MO AP		.38	2.24	2.82	.37	1.49	1.64	2.63	.23	3.42	.26	2.55	.93	5.69	1.57	3.02	1.65	1.94	1.14	3.64	.98	.29	2.61	2.80	.24	30.67	8.22
WINCHESTER 3 ESE		.39	1.84	2.61	.42	.98	2.29	3.10	.10	4.06	.42	4.27	.56	4.77	.65	1.28	2.47	2.87	.18	3.63	.67	1.12	1.63	1.57	.95	30.77	6.54
WOODSTOCK 2 NE		.35	1.70	3.65	1.84	.62	2.31	2.33	.35	4.80	1.42	4.94	1.47	2.76	1.44	3.35	.34	3.78	.75	3.41	.90	.85	1.38	1.50	.73	31.93	1.87
DIVISION		.33	2.24	4.06	1.69	1.16	2.22	2.97	.08	4.16	.34	3.93	.27	5.36	1.19	3.63	.68	2.62	.83	3.51	.45	.64	2.37	2.30	.64	34.67	5.12
* * *																											
CENTRAL MOUNTAIN 05																											
BUCHANAN		.19	2.56	2.09	.77	1.67	1.92	2.00	.91	3.37	.35	3.09	.79	4.62	.22	1.93	2.35	2.69	1.08	4.61	1.25	.62	2.38	2.64	.58	29.52	12.26
BUENA VISTA		.08	2.60	3.70	.92	1.66	1.73	1.44	1.45	3.66	.72	2.64	.56	7.80	3.91	1.07	2.57	1.79	1.67	3.27	.71	.59	2.09	2.85	.33	31.65	6.74
CLIFTON FORGE 2 SE		.17	2.13	1.78	.60	1.51	1.80	2.36	.11	5.75	2.49	2.85	.49	2.93	.52	1.15	2.44	2.45	.51	3.65	1.19	.85	1.42	2.55	.04	28.00	6.38
COVINGTON		.36		2.28		1.69		2.35		7.34		3.28		3.33		1.33		2.00		4.62		.88		3.13		32.59	
COVINGTON FILT PLANT																											
CRAIGSVILLE 2 S		.28		3.53		1.62		2.28		4.81		3.68		5.27		2.06		7.02		5.91		1.63		2.10		39.59	
DALE ENTERPRISE		.29	1.48	2.03	.13	.41	2.42	1.61	.82	4.33	.61	4.03	.66	5.47	1.56	1.10	3.01	2.70	.59	3.40	1.02	.72	1.45	1.52	.61	27.61	6.40
DEERFIELD 1 S																											
EARLEHURST		.41		2.78		1.86		2.58		6.50		3.61		4.76		1.05		2.15		3.64		.97		2.81		33.12	
GATHRIGHT DAM		.41		2.30		1.57		2.26		7.45		3.06		2.51		1.33		3.47		4.34		.92		2.55		32.17	
GLASGOW 1 SE		.24		4.47		1.86		1.90		4.78		3.24		6.42		3.21		2.76		4.77		.93		2.61		37.59	
GOSMEN		.24	2.28	3.96	1.29	1.26	2.35	1.83	1.01	4.71	1.40	3.37	.04	3.65	.06	1.50	2.26	5.50	2.03	5.39	2.61	.35	2.48	2.07	.71	33.83	3.86
HOT SPRINGS		.47	2.31	2.96	.19	1.54	2.38	1.80	1.33	7.19	3.58	2.60	1.26	3.77	.32	1.36	2.83	2.72	.78	5.52	2.51	1.13	1.65	2.64	.42	33.70	7.00
KERPS CREEK 6 WNW		.39		3.55		1.66		2.42		4.52		3.05		3.23		1.39		3.74		4.91		.93		2.90		32.96	
LEXINGTON		.28	2.26	3.00	.21	1.53	2.05	1.56	1.25	3.96	.74	2.45	.89	3.70	.24	1.42	2.01	2.85	.76	4.06	1.29	.74	1.94	2.83	.17	28.40	9.33
MC DOWELL 3 W								2.12		5.76		3.91		5.38		1.51		4.13		6.39		.97		2.37		37.66	
MILLGAP 2 NNN		.55		3.46		1.82		2.32		6.42		3.76		4.94		1.12		3.77		5.99		1.01		2.52		37.01	
MONTEREV		.57	1.89	4.15	1.43	1.67	1.83	2.41	.88	4.79	1.07	3.83		4.95	.93	1.37	2.79	3.23	.04	6.25	3.56	1.05	1.52	2.63	.36	37.01	1.72
MOUNTAIN GROVE		.62		2.45		1.57		2.12		6.71		3.74		3.61		1.73		2.48		5.34		1.19		3.05		33.91	
MT SOLOM		.30		2.86		.73		1.90		4.14		3.18		4.71		1.89				4.77		.58		3.36		37.36	
NEW CASTLE		.34	2.27	2.43	.45	1.62	1.72	1.29	1.45	5.93	2.47	3.62	.28	4.36	.86	1.41	2.57	1.51	.89	4.13	1.42	.85	1.66	2.44	.53	30.17	7.51
ROANOKE WSO AP		.29	2.45	2.43	.66	2.30	1.03	1.75	1.05	4.54	1.08	2.49	.10	2.86	.68	1.32	2.83	4.52	1.10	3.40	.71	.69	1.80	3.79	.68	30.89	8.14
STAUNTON SEWAGE PLANT		.12	2.25	2.67	.63	.73	2.35	1.26	1.46	4.30	.86	3.00	.57	4.50	1.04	1.59	1.78	3.68	.12	3.08	.33	.88	1.79	1.34	1.41	27.85	7.49
TEMPERVILLE 3 E		.27	1.75	3.10	1.11	.51	2.49	1.88	.56	4.18	.66	2.71	.49	3.64	.48	3.28	1.00	3.66	.21	3.65	1.26	.82	1.44	1.61	.75	29.31	5.72
WEST AUGUSTA								1.77		5.27		3.08		6.58		1.26				4.82		.88		2.12			
DIVISION		.33	2.17	2.70	.06	1.56	2.04	1.89	1.00	5.15	1.54	3.14	.43	3.94	.02	1.60	2.41	3.16	.41	4.34	1.33	.82	1.79	2.47	.42	30.90	7.76
* * *																											
SOUTHWESTERN MOUNTAIN 06																											
ABINGDON 3 S		1.60		3.44		2.28		4.70		7.12		5.01		4.94		2.65		5.78		2.61		1.35		4.00		45.38	
ALLISONIA 2 S		.72		3.29		2.41		2.48		4.95		1.75		3.77		.91		2.85		2.25		.68		3.01		29.07	
BLACKSBURG 3 SE		.60		2.78		2.84		2.86		4.81		2.31		5.86		2.91		3.53		4.15		.49		2.76		35.90	
BLAND		.62		2.24		1.15		3.29		6.95		2.45		4.49		2.73		2.52		2.79		.98		3.49		35.92	
BURKES GARDEN		.94	2.38	2.83	.65	3.21	.85	3.53	.21	6.52	2.76	3.23	.60	6.40	1.62	3.33	.57	3.58	.47	2.92	.53	1.73	1.30	3.57	.13	41.79	.63
BYLESBY 3 W		.67		3.94		3.20		2.33		7.74		2.97		3.17		1.02		3.33		2.94		.65		2.67		34.83	
COPPER HILL 1 NNE		.62	2.12	3.68	.51	2.09	1.59	3.10	.26	5.83	1.88	1.51	2.67	4.21	.45	1.84	2.70	3.93	.46	3.78	.04	.71	2.07	2.98	.14	34.08	10.03
FLOYD 2 NE		.78	2.06	3.42	.16	2.46	1.09	2.80	.61	5.07	1.25	1.10	2.88	2.13	2.68	1.77	2.08	5.77	1.41	4.63	1.49	.23	2.53	3.17	.17	33.33	9.77
GALAX RADIO WBOB		.75	1.97	3.85	.80	2.08	1.41	1.96	1.34	5.65	2.09	2.89	1.07	5.70	1.14	.62	3.40	4.71	.66	3.31	.26	.66	2.11	3.98	.84	36.16	5.31
GLENN LYN		.51	1.95	2.71	.11	2.67	.61	2.18	.63	5.24	1.90	3.15	.02	3.07	.91	1.83	1.92	3.96	1.25	2.44	.23	.83	1.44	1.79	.86	30.38	4.77
GRUNOV		1.11		3.21		2.44		4.41		4.96		5.13		7.71		3.41		3.99		2.51		.84		2.42		42.14	
HILLSVILLE 1 S		.87	1.75	4.34	1.38	2.66	1.01	2.51	.71	5.86	1.96	3.65	.40	5.02	.57	.70	3.11	4.02	.21	4.05	1.06	.92	1.91	3.08	.02	37.66	3.63
INDEPENDENCE 2		.65		3.76		1.88																					

Table 3

## TEMPERATURE EXTREMES AND FREEZE DATA

VIRGINIA  
1981

Station	Highest	Date	Lowest	Date	Last spring minimum of										First fall minimum of										Number of days between dates																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					16° or below		20° or below		24° or below		28° or below		32° or below		32° or below		28° or below		24° or below		20° or below		16° or below		16° or below	20° or below	24° or below	28° or below	32° or below																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Table 3—Continued

## TEMPERATURE EXTREMES AND FREEZE DATA

VIRGINIA  
1981

Station	Highest	Date	Lowest	Date	Last spring minimum of										First fall minimum of										Number of days between dates				
					16° or below		20° or below		24° or below		28° or below		32° or below		32° or below		28° or below		24° or below		20° or below		16° or below		16° or below	20° or below	24° or below	28° or below	32° or below
					Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.							
					Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.	Date	Temp.							
ROANOKE WSO AP	95	8- 5*	4	2-12	2-13	12	2-14	19	3-20	24	4- 7	26	5- 3	32	10-19	30	10-20	26	11-23	18	11-23	18	12-13	16	303	282	248	196	169
STAUNTON SEWAGE PLANT	93	8- 6*	0	1-13	2-15	16	3-28	20	3-21	24	4-26	27	5- 9	32	10- 4	28	10- 4	28	10-14	24	10-20	20	11-13	16	271	206	207	161	148
TIMBERVILLE 3 E	95	6-15	- 1	1-13	3-19	14	3-22	18	4- 7	23	4-26	27	5- 9	30	10- 4	30	10-14	26	10-20	24	11-13	19	11-23	15	249	236	196	171	148
* * *																													
SOUTHWESTERN MOUNTAIN	CE																												
ABINGDON 3 S	92	7-12	- 4	2-12*	3- 8	15	3-20	20	4- 7	24	5- 3	28	5- 3	28	10- 3	31	10-20	22	10-20	22	11-15	20	11-23	14	260	240	196	170	153
BLACKSBURG 3 SE	90	7-11	- 2	2-12*	3-20	16	4- 7	20	4- 7	20	5- 3	26	5-13	32	10- 4	30	10-20	20	10-20	20	10-20	20	11-23	14	248	196	196	170	144
BURKES GARDEN	85	7-27*	-17	1-31	3-20	16	4- 7	18	5- 4	23	5- 4	23	5-13	31	9-24	29	9-29	28	10-20	22	11-12	19	11-13	15	238	219	169	148	134
FLOYD 2 NE	90	8- 5	0	12-21*	3-20	15	4- 7	17	5- 3	23	5- 8	26	5-13	30	9-24	32	10- 4	25	10-17	23	10-20	17	11-13	14	238	196	167	149	134
GALAX RADIO WBOB	90	8- 5*	- 4	1-31	2-13	8	3-20	19	4- 7	22	5- 3	28	5-13	32	10- 4	29	10-20	21	10-20	21	11-13	19	11-23	15	283	238	196	170	144
GRUNDY	92	8- 6*	1	1- 5	2-14	10	3-15	19	3-20	24	4- 7	28	4- 7	28	10-14	31	10-20	27	11- 8	21	11-23	18	12-20	10	309	253	233	196	190
MARION EVAP STATION	91	7-12	- 4	2-12	3-19	7	3-25	20	4- 7	24	5- 3	28	5- 3	28	9-24	31	10-20	21	10-20	21	11- 8	20	11-23	13	249	228	196	170	144
MT LAKE BIOLOGICAL STA	82	6-16	-10	2-12	3-21	14	4- 7	20	4-21	24	5- 3	25	5-13	30	10- 2	29	10- 3	26	10-24	18	10-24	18	11-21	15	245	200	186	153	142
PENNINGTON GAP	93	7-11	-12	2-12	3-21	14	3-25	20	4- 7	24	4- 7	24	5- 3	29	10- 3	30	10-14	28	10-20	22	11- 8	20	11-23	16	247	228	196	190	153
PULASKI 2 E	92	7-22	- 1	1- 5	3-16	13	3-24	20	3-28	23	5- 3	26	5-13	31	9-24	31	10- 4	28	10-20	20	10-20	20	11-23	12	252	210	206	154	134
STAFFORDSVILLE 3 ENE	91	7-11	- 1	2-12	3- 9	15	3- 9	15	3-23	23	5- 8	28	5-13	30	9-17	29	10-20	25	10-21	20	10-21	20	11-16	16	252	226	212	165	127
WISE 1 SE	87	7-27	- 8	2-12	3- 8	16	3-20	17	4- 7	23	4- 7	23	4-21	31	10- 3	30	10-20	28	10-24	23	11-21	20	12- 6	15	273	246	200	196	165
WYTHEVILLE 1 S	89	8- 5*	- 9	1-31	3- 9	15	4- 7	19	4- 7	19	5- 8	27	5-13	32	9-24	30	10- 4	27	10-20	20	10-20	20	11-13	16	249	196	196	149	134
* * *																													
STATE EXTREMES																													
STONY CREEK 3 ESE	102	7-29*																											
BURKES GARDEN				-17	1-31																								

See Reference Notes Following Station Index

Table 4

## TOTAL EVAPORATION AND WIND MOVEMENT

VIRGINIA  
1981

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
JOHN H KERR DAM	EVAP	-	-	-	5.168	4.988	7.238	6.608	5.458	4.808	-	-	-	-
	WIND	-	-	-	20058	1620	1351	1257	1446	1060	-	-	-	-
* * *														
WESTERN PIEDMONT														
03														
PHILPOTT DAM 2	EVAP	-	-	-	3.81	4.07	5.448	4.418	4.36	3.328	2.428	-	-	-
	WIND	-	-	-	924	496	386	-	-	349	496	-	-	-
	MAX	-	-	-	-	56.9	-	-	-	-	72.0	-	-	-
	MIN	-	-	-	48.3	48.7	62.0	-	-	-	51.7	-	-	-
* * *														
CENTRAL MOUNTAIN														
05														
GATHRIGHT DAM	EVAP	-	-	-	-	4.168	-	4.23	5.03	3.72	-	-	-	-
	WIND	-	-	-	-	7548	-	570	585	621	-	-	-	-
	MAX	-	-	-	-	71.9	-	82.1	82.8	75.2	-	-	-	-
	MIN	-	-	-	-	48.2	-	63.4	60.0	54.0	-	-	-	-
* * *														
SOUTHWESTERN MOUNTAIN														
06														
MARION EVAP STATION	EVAP	-	-	-	4.628	5.008	5.528	5.41	5.53	4.078	2.83	-	-	-
	WIND	-	-	-	1270	965	753	750	774	536	1141	-	-	-
	MAX	-	-	-	73.4	74.7	87.3	88.2	84.0	76.7	62.9	-	-	-
	MIN	-	-	-	47.2	52.4	66.0	67.5	63.1	56.0	45.1	-	-	-

See Reference Notes Following Station Index



# STATION INDEX

VIRGINIA  
1981

Station	Index No.	Division No.	County	Drainage †	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
ABINGDON 3 S	0021	06	WASHINGTON	836 40	81 58	1920	13	13					1 2 3
ALLISONIA 2 S	0135	06	PULASKI	1136 54	80 45	1820		30					2
ALTAVISTA	0166	03	CAMPBELL	1537 06	79 18	510		36					2 C
AMELIA 4 SW	0187	02	AMELIA	137 18	78 02	360	13	13					1 2 3
AMISSVILLE	0193	04	RAPPAHANNOCK	1438 41	78 01	550		38					2
APPOMATTOX	0243	03	APPOMATTOX	937 22	78 50	910	20	43					1 2 3
ASHLAND	0327	02	HANOVER	937 45	77 29	220	69	69					1 2 3
BACK BAY WL REF	0385	01		236 40	75 55	5	29	29					1 2 3
BEDFORD	0551	03	BEDFORD	1537 21	79 31	975	53	67					1 2 3
BERRYVILLE	0670	04	CLARKE	1639 09	77 59	600	30	40					1 2 3
BIG MEADOWS	0720	04	MADISON	1438 31	78 26	3535	46	46					1 2 3
BLACKSBURG 3 SE	0766	06	MONTGOMERY	1137 11	80 25	2000	30	30					1 2 3
BLAND	0792	06	BLAND	1137 06	81 06	2000		31					2
BRANCHVILLE 1 S	0975	01	SOUTHAMPTON	1036 34	77 15	40	28	28					1 2 3
BREMO BLUFF	0993	02	FLUVANNA	937 42	78 18	225		41					2
BROOKNEAL	1082	03	CAMPBELL	1537 02	78 57	520	6	32					1 2 3
BUCHANAN	1121	05	BOTETOURT	937 32	79 41	880	63	80					1 2 3
BUCKINGHAM	1136	02	BUCKINGHAM	937 33	78 33	460		46					2
BUENA VISTA	1159	05	ROCKBRIDGE	937 44	79 21	840		44					2
BURKES GARDEN	1209	06	TAZEWELL	1137 05	81 20	3300	84	86					1 2 3
BYLLESBY 3 W	1259	06	CARROLL	1136 48	80 59	2610		16					2
CAMP PICKETT	1322	02	NOTTOWAY	1237 02	77 57	330	10	10					1 2 3 C
CHARLOTTE COURT HOUSE	1585	03	CHARLOTTE	1537 04	78 39	580	35	35					1 2 3
CHARLOTTESVILLE 2 W	1593	03	ALBEMARLE	938 02	78 31	870	78	105					1 2 3
CHASE CITY	1606	02	MECKLENBURG	1536 50	78 28	510	34	34					1 2 3
CHATHAM	1614	03	PITTSYLVANIA	736 49	79 24	640	58	58					1 2 3 C
CLARKSVILLE	1746	02	MECKLENBURG	1536 37	78 34	310		90					2
CLIFTON FORGE 2 SE	1801	05	ALLEGANY	937 48	79 48	1100		57					2
COLONIAL BEACH	1913	01	WESTMORELAND	1338 15	76 58	10	19	19					1 2 3
COLUMBIA	1929	02	GOOCHLAND	937 46	78 09	300	79	83					1 2 3 C
CONCORD 5 S	1955	03	CAMPBELL	1537 17	78 58	650		32					2
COPPER HILL 1 NNE	1999	06	FLOYD	1137 06	80 08	2720		40					2
CORBIN	2009	02	CAROLINE	1438 12	77 22	220	23	23					1 2 3
COVINGTON	2041	05	ALLEGANY	937 48	80 00	1245		44					2
COVINGTON FILT PLANT	2044	05	ALLEGANY	937 48	80 00	1230	21	21					1 2 3 C
CRAIGSVILLE 2 S	2064	05	AUGUSTA	938 03	79 23	1780		19					2
CROZIER	2142	02	GOOCHLAND	937 38	77 48	300	6	43					1 2 3
CULPEPER	2155	04	CULPEPER	1438 28	78 00	420	72	74					1 2 3
CULPEPER RVRSIDE CG	2159	04	CULPEPER	1438 21	77 57	260							C
CUMBERLAND	2160	02	CUMBERLAND	137 30	78 15	460		3					2
DALE ENTERPRISE	2208	05	ROCKINGHAM	1638 27	78 56	1400	99	101					1 2 3 C
DANVILLE-BRIDGE ST	2245	03	PITTSYLVANIA	736 35	79 23	410	64	91					1 2 3
DAVENPORT 2 NE	2269	06	BUCHANAN	337 07	82 06	1600							C
DRIVER 4 NE	2504	01	NANSEMOND	236 53	76 29	17		39					2
EARLEHURST	2600	05	ALLEGANY	937 40	80 14	2040		6					2
ELKWOOD 6 SE	2729	04	CULPEPER	1438 27	77 46	330	41	41					1 2 3 C
EMPORIA 1 NNW	2790	01	GREENSVILLE	1036 41	77 33	100		51					2
FARMVILLE 2 N	2941	02	CUMBERLAND	137 20	78 23	450	60	62					1 2 3
FLOYD 2 NE	3071	06	FLOYD	1136 56	80 18	2600	49	49					1 2 3
FREDERICKSBURG NATL PK	3192	01	SPOTSYLVANIA	1438 19	77 27	90	88	90					1 2 3
FREDERICKSBURG 2	3200	01	SPOTSYLVANIA	1438 18	77 28	120							C
FREE UNION	3213	03	ALBEMARLE	938 09	78 34	500		27					2
FRONT ROYAL 1 ESE	3229	04	WARREN	1638 55	78 11	527							C
GALAX RADIO WEGB	3267	06	CARROLL	1136 40	80 55	2385	27	38					1 2 3
GALAX WATER PLANT	3272	06	CARROLL	1136 39	80 55	2360							C
GATHRIGHT DAM	3310	05	ALLEGANY	937 57	79 57	1770	2	2		2			1 2 34
GLASGOW 1 SE	3375	05	ROCKBRIDGE	937 37	79 26	740		15					2
GLEN LYN	3397	06	GILES	1137 22	80 52	1520	49	68					2
GORDONSVILLE 3 S	3466	02	LOUISA	1738 05	78 11	460		21					2
GOSHEN	3470	05	ROCKBRIDGE	937 59	79 30	1350		42					2
GRUNDY	3640	06	BUCHANAN	337 16	82 05	1170	21	31					1 2 3
HILLSVILLE 1 S	3991	06	CARROLL	1136 44	80 44	2590		39					2
HOLCOMBS ROCK	4039	03	BEDFORD	937 30	79 16	575		22					2
HOLLAND 1 E	4044	01		436 41	76 47	80	49	49					1 2 3
HOPEWELL	4101	01	PR GEORGE	937 18	77 18	40	89	94					1 2 3
HOT SPRINGS	4128	05	BATH	938 00	79 50	2238	88	90					1 2 3 C
HUDDLESTON 2 SW	4148	03	BEDFORD	1537 09	79 30	1000		32					2
HURLEY	4180	06	BUCHANAN	337 25	82 01	990							C
INDEPENDENCE 2	4234	06	GRAYSON	1136 39	81 10	2610		29					2
INDIAN VALLEY	4246	06	FLOYD	1136 54	80 34	2700							C
JOHN W FLANNAGAN LAKE	4410	06	DICKENSON	337 14	82 21	1462		13					2 C
JOHN H KERR DAM	4414	02	MECKLENBURG	1536 36	78 17	250	33	33		30			1 2 34C
KERRS CREEK 6' NNW	4565	05	ROCKBRIDGE	937 51	79 35	1500		20					2
KEYSVILLE 8 N	4568	02	PRINCE EDWARD	137 10	78 31	550		3					2
KILMARNOCK 1 N	4600	01	LANCASTER	1437 43	76 23	60	3	3					1 2 3
LAFAYETTE 1 NE	4676	06	MONTGOMERY	1537 14	80 13	1380		31					2
LANGLEY AFB	4720	01		537 05	76 21	10	96	145					1 2 3
LAWRENCEVILLE 5 W	4768	02	BRUNSWICK	1036 46	77 56	300		36					1 2 3
LEXINGTON	4876	05	ROCKBRIDGE	937 47	79 26	1060	103	110					1 2 3
LINCOLN	4909	04	LOUDOUN	1339 07	77 43	500	80	81					1 2 3

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Station	Index No.	Division No.	County	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
LOUISA	5050	02	LOUISA	1738 02	78 00	420	66	66					1 2 3
LURAY 5 E	5096	04	PAGE	1638 40	78 23	1200	40	40					1 2 3
LYNCHBURG WSO AP	5120	03	CAMPBELL	937 20	79 12	916	110	110					1 2 3 C
MANASSAS 3 NW	5213	04	PR WILLIAM	1338 47	77 30	330	34	65					1 2 3
MARION EVAP STATION	5271	06	SHYTH	836 49	81 31	2100	22	22	22				1 2 3 4
MARTINSVILLE FILT PL	5300	03	HENRY	736 42	79 53	760	43	51					1 2 3
MATHEWS 2 ENE	5338	01	MATHEWS	537 27	76 17	5	31	31					1 2 3
MC DOWELL	5414	05	HIGHLAND	938 20	79 30	2000		18				MAR	2
MC DOWELL 3 W	5416	05	HIGHLAND	938 21	79 32	2400		1			APR		2
MC GAHEYSVILLE 2 S	5423	05	ROCKINGHAM	1638 21	78 44	1090							C
MEADOWS OF DAN 5 SW	5453	03	PATRICK	736 40	80 27	1500		32					2
MILLGAP 2 NNW	5595	05	HIGHLAND	938 21	79 43	2520		6					2 C
MILL RUN FARM	5599	05	RATH	938 13	79 44	2080		4				INAC	2
MONTEBELLO 2 NE	5685	03	NELSON	937 53	79 08	2680		44					2
MONTEBELLO FISH NRSY	5690	03	NELSON	937 51	79 08	2649							C
MONTEREY	5698	05	HIGHLAND	1338 25	79 35	2920	40	56					1 2 3
MOUNTAIN GROVE	5756	05	BATH	938 06	79 53	1767		6					2
MT LAKE BIOLOGICAL STA	5828	06	GILES	937 23	80 32	3870	11	11					1 2 3
MT SOLOH	5838	05	AUGUSTA	1638 21	79 05	1560		2					2
MOUNT WEATHER	5851	04	LOUDOUN	1339 04	77 53	1720	77	78					1 2 3 C
NEW CASTLE	6012	05	CRAIG	937 30	80 06	1310		44					2
NEWPORT 2 NW	6046	06	GILES	937 19	80 31	1900		36					2
NORFOLK WSO AP	6139	01		536 54	76 12	22	36	36					1 2 3 C
NORTH FORK LAKE	6173	06	WISE	337 08	82 38	1675		13					2
NORTH GARDEN	6178	03	ALBEMARLE	937 57	78 38	686							C
OYSTER	6456	01	NORTHAMPTON	237 17	75 56	27	45	45					1 2 3
PAINTER 2 W	6475	01	ACCOMACK	537 35	75 49	30	26	26					1 2 3 C
PALMYRA 1 E	6491	02	FLUVANNA	937 52	78 15	410		25					2
PEDLAR DAM	6593	03	AMHERST	937 40	79 17	1013		47					2
PENNINGTON GAP	6626	06	LEE	636 45	83 03	1510	49	49					1 2 3
PETERSBURG	6656	02		137 14	77 24	15		3					2
PHILPOTT DAM 2	6692	03	HENRY	1536 47	80 02	1123	29	29	29				1 2 3 4 C
PIEDMONT RESEARCH STN	6712	04	ORANGE	1738 13	78 07	515	34	35	9				1 2 3 4 C
PILOT 1 ENE	6723	06	MONTGOMERY	1137 04	80 21	2180		40					2
PINEY RIVER 2 SE	6747	03	AMHERST	937 42	79 00	750	6	6					1 2 3
POWHATAN 1 E	6906	02	POWHATAN	137 32	77 55	360		22				INAC	2
PULASKI 2 E	6955	06	PULASKI	1137 03	80 45	1850	21	21					1 2 3 C
RADFORD	6999	06		1137 08	80 33	1730		14					2
RANDOLPH 5 NNE	7025	03	CHARLOTTE	1536 59	78 42	350		76					2 C
RAPIDAN	7033	04	ORANGE	1438 18	78 04	300		36					2
REMINGTON 2	7130	04	FAUQUIER	1438 32	77 49	280							C
RICHMOND WSO AP	7201	02	HENRICO	937 30	77 20	164	44	44					1 2 3 C
ROANOKE WSO AP	7285	05	POANOKE	1537 19	79 58	1149	47	49					1 2 3 C
ROCKFISH	7312	03	NELSON	937 48	78 45	445		44					2
ROCKY MOUNT	7338	03	FRANKLIN	1537 00	79 54	1232	88	88					1 2 3 C
SOUTH BOSTON	7925	03	HALIFAX	736 42	78 53	340	26	26					1 2 3
SPEEDWELL	7971	06	WYTHE	1136 49	81 10	2340		41					2
STAFFORDSVILLE 3 ENF	8022	06	GILES	1137 16	80 43	1950	12	30					1 2 3
STAR TANNERY	8046	04	FREDERICK	1639 05	78 26	950							C
STAUNTON SEWAGE PLANT	8062	05	AUGUSTA	1638 09	79 02	1385	89	95					1 2 3 C
STERLING (RCS)	8084	04	LOUDOUN	1338 59	77 28	280		5					1 2 3
STONY CREEK 3 ESE	8129	01	SUSSEX	1236 55	77 21	70	22	22					1 2 3 C
STRASBURG 2 ESE	8149	04	SHENANDOAH	1338 59	78 20	540							C
STUART 1 SSE	8170	03	PATRICK	736 38	80 16	1455	22	22					1 2 3
STUARTS DRAFT	8172	05	AUGUSTA	1638 00	79 03	1450		32					C
SUFFOLK LAKE KILEY	8192	01		236 44	76 36	22	35	35					1 2 3
TANGIER ISLAND	8323	01	ACCOMACK	537 50	76 00	5	29	29					1 2 3
THE PLAINS 2 NNE	8396	04	FAUQUIER	1338 54	77 45	530		36					2 C
TIMBERVILLE 3 E	8448	05	ROCKINGHAM	1638 39	78 43	1000	39	50					1 2 3
TROUT DALE 3 SSE	8547	06	GRAYSON	1136 40	81 24	2820		46					2 C
TYE RIVER 1 SE	8600	03	NELSON	937 38	78 56	720	19	43					1 2 3
VIENNA DUNN LORING	8737	04	FAIRFAX	1338 54	77 13	418		33					2
WALKERTON 2 NW	8829	01	KING & QUEEN	1737 45	77 03	50	48	49					1 2 3
WALLACETON LK DRUMMOND	8837	01		236 36	76 26	25		55					2
WARRENTON 3 SE	8888	04	FAUQUIER	1338 41	77 46	500	31	31					1 2 3
WARSAW 2 NW	8894	01	RICHMOND	1437 59	76 46	140	31	31					1 2 3
WASHINGTON 3 SSW	8902	04	RAPPAHANNOCK	1438 40	78 11	640	26	35					1 2 3
WASH DULLES WSO AP	8903	04	LOUDOUN	1338 57	77 27	290	20	20					1 2 3
WASH NATL WSCMO AP	8906	04		1338 51	77 02	10	41	41					1 2 3 C
WAVERLY	8933	01	SUSSEX	437 02	77 06	110		7					1 2 3
WEST AUGUSTA	8975	05	AUGUSTA	938 16	79 18	2100		1			APR		2
WEST POINT 2 SW	9025	01	NEW KENT	1737 31	76 50	18	28	28					1 2 3
WHITE GATE	9060	06	GILES	1137 12	80 50	1850							C
WILLIAMSBURG 2 N	9151	01	YORK	937 18	76 42	70	31	36					1 2 3 C
WILLIAMSVILLE 2 S	9159	05	BATH	938 10	79 35	1640							C
WILLIS	9169	06	FLOYD	1136 51	80 29	2900		2					2
WINCHESTER 3 ESE	9186	04	FREDERICK	1339 11	78 07	680	76	75					1 2 3
WINTERPOCK 4 W	9213	02	CHESTERFIELD	137 20	77 39	300		3					2
WISE 1 SE	9215	06	WISE	636 58	82 34	2570	27	27					1 2 3 C
WOODSTOCK 2 NE	9243	04	SHENANDOAH	1638 54	78 28	660	83	89					1 2 3

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Station	Index No.	Division No.	County	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
WOOLWINE	9272	03	PATRICK	736 43	80 17	1520			31				2 C
WYTHEVILLE 1 S	9301	06	WYTHE	1136 56	81 05	2450		78	108				1 2 3 C

See Reference Notes Following Station Index

# MONTHLY AND SEASONAL COOLING DEGREE DAYS

SEASON OF 1981

VIRGINIA

STATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	NORMALS JAN-DEC
* * *														
TIDEWATER 01														
BACK BAY WL REF	0			31	90	422	475	355	244	41	0	0		
BRANCHVILLE 1 S						330								
COLONIAL BEACH	0	0	0	54	93	430	475	367	192	24	0	0		
FREDERICKSBURG NATL PK	0	0	1	41	86	362	388	254	121	7	0	0	1260	1188
HOLLAND 1 E	0	0	1	55	93	402	425	286	163	20	0	0	1445	1361
HOPEWELL	0	0	2	81	98	412	448	301	166	27	0	0	1535	1606
KILMARNOCK 1 N	0	0	0	35	65	355	368	247	175	6	0	0	1251	
LANGLEY AFB	0	0	0	38	124	440	503	342	212	27	0	0	1686	1512
MATHEWS 2 ENE	0	0	0	42	75	357	406	277	154	21	0	0	1332	
NORFOLK WSO AP	0	0	0	51	103	407	468	320	189	29	0	0	1567	1441
OYSTER		0	0	19	71	367	414	272	138	15	3			
PAINTER 2 W	0	0	0	27	63	360	396	279	134	18	0	0	1277	
STONY CREEK		0	0	64	112		443	264	161	15	0	0		
SUFFOLK LAKE KILBY	0	0	1	40	87	389	450	312	176	20	0	0	1475	
TANGIER ISLAND	0	0	0	5	69	404	488	372	238	12	0	0	1588	
WALKERTON 2 NW	0	0	0	44	81	375	384	279	125	9	0	0	1297	1314
WARSAW 2 NW	0	0	0	37	75	359	387	274	144	20	0	0	1296	
WAVERLY	0	0	0			391		273	132	27				
WEST POINT 2 SW	0	0	1	53	100	392	390	288	162	21	0	0	1407	
WILLIAMSBURG 2 N	0	0	0	44	83	371	410	281	149	15	0	0	1353	1345
* * *														
EASTERN PIEDMONT 02														
AMELIA 4 SW	0	0	0	21	58	365	359	225	101	10	0	0	1139	
ASHLAND	0	0	0	33	68	325	358	247	109	7	0	0	1147	
CAMP PICKETT	0	0	0	29	56	346	376	240	114	17	0	0	1178	
CHASE CITY	0	0	0		107	373	383	264	130	12	0	0		
COLUMBIA	0	0	1	35	62	301	362	226	116	13	0	0	1116	1200
CORBIN	0	0	3	39	68	293	346	260	135	13	0	0	1157	
CROZIER	0	0	0	22	67	301	357	225	111	8	0	0	1091	
FARMVILLE 2 N	0	0	0	47	79	377	383	246	114	18	0	0	1264	1215
JOHN H KERR DAM	0	0	0	33	64	371	383	258	141	17	0	0	1267	
LAWRENCEVILLE 5 W	0	0	0	53	75	374	366	224	99	18	0	0	1209	
LOUISA	0	0	0	37	67	306	329	229	113	13	0	0	1094	1129
RICHMOND WSO AP	0	0	1	45	89	395	458	319	169	16	0	0	1492	1353
* * *														
WESTERN PIEDMONT 03														
APPOMATTOX 3 W	0									8	0	0		
BEDFORD	0	0	6	50	81	336	321	203	87	12	0	0	1096	1123
BROOKNEAL	0	0	0	29	60	349	374	242	125	12	0	0	1191	
CHARLOTTE COURT HOUSE	0	0	0	26	52	307	332	220	104	5	0	0	1046	
CHARLOTTESVILLE 2 W	0	0	0	48	78	323	342	244	132	15	1	0	1183	1263
CHATHAM	0	0	0	12	21	274	285	149	80	4	0	0	825	1195
DANVILLE-BRIDGE ST	0	0	0	46	68	425	431	322	158	13	0	0	1463	1448
LYNCHBURG WSO AP	0	0	0	35	59	331	361	265	101	11	0	0	1163	1100
MARTINSVILLE FILT PL	0	0	0	23	21	310	359	270	123	5	0	0	1111	1113
PHILPOTT DAM 2	0	0	0	22	29	286	336	216	98	5	0	0	992	
PINEY RIVER 2 SE	0	0	3	37	59	300	310	212	85	4	0	0	1010	
ROCKY MOUNT	0	0	0	18	29	279	317	226	98	12	0	0	979	
SOUTH BOSTON	0	0	0	23	43	368	379	234	104	10	0	0	1161	
STUART 1 SSE	0	0	1	33	53	291	295	219	92	13	0	0	997	
TYE RIVER 1 SE	0	0	0	32	58	303	336	229	123	13	0	0	1094	
* * *														
NORTHERN 04														
BERRYVILLE	0	0	2	15	52	224	292	206	106	1	0	0	898	
BIG MEADOWS	0	0	0	0	3	34	37	12	4	0	0	0	90	218
CULPEPER		0	0	21	86	328	367	279	124	7	0	0		1144
ELKWOOD 6 SE					31	263	292	196	82	0	0	0		1013
LINCOLN	0	0	7	17	60	281	361	256	122	4	0	0	1108	1172
LURAY 5 E	0	0	0	20	30	152	188	129	62	0	0	0	581	843
MANASSAS 3 NW	0	0	1	32	99	374		276	155	7	0	0		
MOUNT WEATHER	0	0	0	10	36	168	193	132	52	2	0	0	593	652
PIEDMONT RESEARCH STA	0	0	0	32	66	292	338	227	106	5	0	0	1066	
STERLING (RCS)	0	0	2	21	45	228	274	181	94	0	0	0	845	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY AND SEASONAL COOLING DEGREE DAYS

SEASON OF 1981

VIRGINIA

STATION	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	NORMALS JAN-DEC
WARRENTON 3 SE	0	0	1	27	58	262	339	228	96	4	0	0	1015	
WASHINGTON 3 SSW														
WASH DULLES WSO AP	0	0	2	20	49	268	320	227	120	5	0	0	1011	940
WASH NATL WSCMO AP	0	0	6	49	118	417	478	380	204	18	0	0	1670	1415
WINCHESTER 3 ESE	0	0	2	25	43	187	267	171	75	1	0	0	771	1046
WOODSTOCK 2 NE	0	0	0	25	61	250	300	200	118	1	0	0	955	944
* * *														
CENTRAL MOUNTAIN 05														
BUCHANAN	0	0	0	28	45	282	306	230	114	10	0	0	1015	1103
COVINGTON FILT PLANT	0	0	0	29	42	269	327	256	129	4	0	0	1056	
DALE ENTERPRISE	0	0	1	20	35	216	243	180	83	1	0	0	779	767
GATHRIGHT DAM	0	0	0	9	20		209	123	62	0	0	0		
HOT SPRINGS		0	0	5	28	146	192	114	59	0	0	0		479
LEXINGTON	0	0	0	27	59	297	339	273	116	8	0	0	1119	982
MONTEREY	0	0	0	3	4	106	142	70	34	0	0	0	359	330
ROANOKE WSO AP	0	0	2	26	39	278	350	267	97	13	0	0	1072	1030
STAUNTON SEWAGE PLANT	0	0	0	5		209	254	158	80	1	0			851
TIMBERVILLE 3 E	0	0	0	22	54	250	306	205	104	2	0	0	943	827
* * *														
SOUTHWESTERN MOUNTAIN 06														
ABINGDON 3 S	0	0	0	4	12	201	272	178	76	0	0	0	743	
BLACKSBURG 3 SE	0	0	0	4	8	167	204	137	44	0	0	0	564	
BURKES GARDEN	0	0	0	3	0	85	143	46	20	0	0	0	297	274
FLOYD 2 NE	0	0	0	0	9	168	195	115	39	0	0	0	526	620
GALAX RADIO WBOB	0	0	0	5	11	202	243	152	67	0	0	0	680	
GRUNDY	0	0	2	24	50	271	356	258	114	5	0	0	1080	
MARION EVAP STATION	0	0	0	3	6	196	269	160	75	0	0	0	709	
MT LAKE BIOLOGICAL STA	0	0	0	0	0	64	82	28	0	0	0	0	174	
PENNINGTON GAP	0	0	0	15	50	328	361	248	117	6	0	0	1125	828
PULASKI 2 E	0	0	0	23	21	213	273	161	67	0	0	0	758	
STAFFORDSVILLE 3 ENE	0	0	0	13	23	184	235	204		0	0	0		
WISE 1 SE	0	0	0	20	10	198	230	131	58	4	0	0	651	
WYTHEVILLE 1 S	0	0	0	3	12	181	264	133	68	0	0	0	661	621

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## R E F E R E N C E   N O T E S

Additional information regarding the climate of this State may be obtained by writing to the National Climatic Center, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data are contained in "HOURLY PRECIPITATION DATA" for this State.

AVERAGES: Division averages in the annual issue include late reports and corrected data and may differ slightly from values published in monthly issues.

DIMENSIONAL UNITS. Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table.

Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1941-1970. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

DIVISIONS, as used in this publication, became effective with data for November 1956.

STATION NAMES: Figures and letters following the station name, such as 12 SSW, indicate distance in miles and direction from the post office.

DAILY SOIL TEMPERATURE TABLES: Included are all soil temperature stations with any data published for the calendar year, whether or not opened or closed during the year. See the reference notes of the monthly issues for information on individual stations as to soil type, ground cover, and degree of slope.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (dates) or months.
- \* Amount included in following measurement.
- // Gage is equipped with a windshield.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage. (The amounts are essentially accurate but may vary slightly from the amounts to be published later in Hourly Precipitation Data.)
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

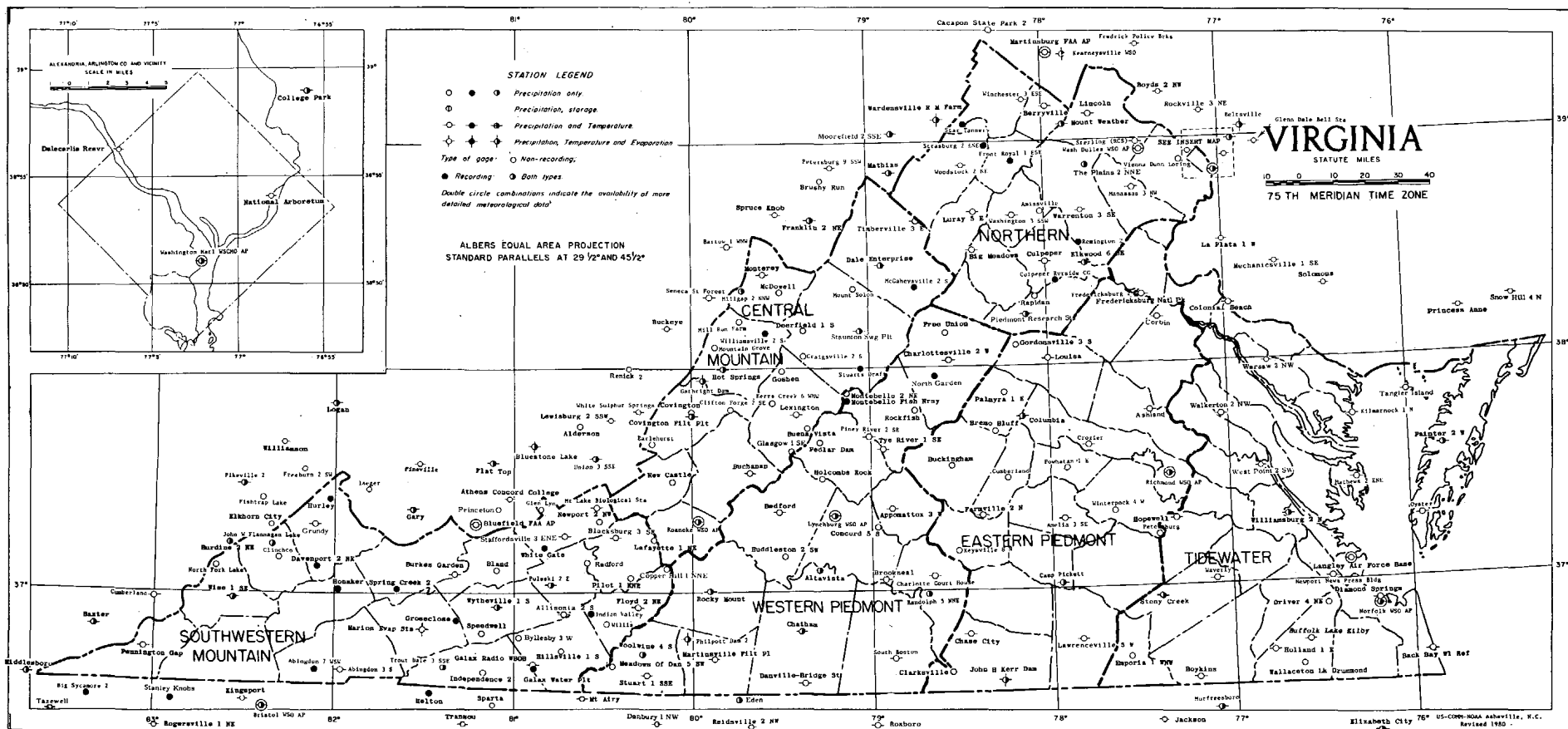
- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- C Data for recording rain gage stations processed for special purposes and published in Hourly Precipitation Data. Length of record for recorder-only stations may be found in the annual issue of Hourly Precipitation Data.

Years of record as shown in the Station Index are approximate since gaps in records may not have been considered in arriving at the totals shown.

Information concerning the history of changes in locations, exposure, etc., of substations through 1955 is available in the "Substation History" publication. Subsequent historical information is kept on file at the National Climatic Center. Similar information for regular National Weather Service Offices may be obtained from the "Local Climatological Data" annual publication.

SUBSCRIPTION, PRICE AND ORDERING INFORMATION AVAILABLE THRU: THE NATIONAL CLIMATIC CENTER, FEDERAL BUILDING, ASHEVILLE, N.C. 28801, ATTN: PUBLICATIONS.

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