### U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

WEATHER BUREAU F. W. REICHELDERFER, Chief

# CLIMATOLOGICAL DATA

# **VIRGINIA**

## **ANNUAL SUMMARY 1949**

Volume LIX No. 13



#### VIRGINIA - 1949

#### S. S. Schworm, Section Director - Richmond

#### Weather Summary

The annual temperature, 57.6°, has been exceeded only twice and equalled once since 1891, however, there were no large departures from the normal temperature except in January and February. The average precipitation, 45.38 inches, was seven percent above normal.

These high lights of the year's weather are listed chronologically.

JANUARY - The fourth warmest January of record; the lowest temperature of the year (3°) occurred at Big Meadows on the 30th. (Equalled at same place on March 1st). Precipitation was well above normal; snowfall was little more than half of the usual amount. Sleet and glaze on the 30th-31st caused hazardous driving conditions in some north-central counties.

FEBRUARY - The third warmest of record and also somewhat drier than usual. Snowfall was less than half of the normal amount.

MARCH - Temperature approximately normal; precipitation somewhat deficient; snowfall very light. Moderate floods occurred in the James River below Scottsville and in the Roanoke River on the 23d-25th, with no material damage.

APRIL - April had a slight deficiency in temperature and a small excess in precipitation. A major flood occurred on the 13th-14th in the Jackson River and as far downstream in the James River as Buchanan, and there was a minor flood in the James River on the 14th-16th at and below Bremo Bluff, but damage was negligible.

MAY - Temperature approximately normal; precipitation well above average. Temperatures fell below freezing at several stations in the Great Valley area on the 27th and 29th. It was an unusually violent month with many hail, wind, and electric storms. Those causing greatest damage: lightning on the 7th caused a \$150,000 fire at Timberville; hail and high winds in Albemarle County on the 9th destroyed an estimated 200,000 bushels of fruit, with crop, property, live stock, and poultry losses totalling \$300,000; on the 22nd at Lynchburg lightning and hail with stones up to 2-1/4 inches in diameter damaged power and telephone lines and several buildings; on the same day a tornado did a small amount of damage at Cauthornville. There was an earthquake on the 8th with slight surface shocks felt in portions of Buckingham, Fluvanna, Henrico and Chesterfield Counties.

JUNE - June was both warmer and wetter than usual. Rainfall distribution was extremely uneven. Big Meadows had a total of 17.13 inches, the greatest monthly amount for any station during the year, while Cardinal had only 1.10 inches. Severe flash floods occurred in the Little and North Rivers and Briery Run in the upper reaches of the Shenandoah River Basin during the night of the 17th and the early morning of the 18th. At North River Dam 7.25 inches of rain fell during the 24 hours ending at 8 A. M. of the 17th. Damage was heaviest in the Stokesville-Bridgewater area where three lives were lost. The total damage was more than \$2,100,000. On the 29th flash floods occurred in the Smith and Little Rivers in southern Virginia, causing the Roanoke River to rise to 11.2 feet above flood stage at Altavista, but only minor damage resulted.

JULY - July was well above normal in both temperature and precipitation. The highest temperature for the year, 102° occurred at Danville Airport on the 28th. There were a few severe local storms but damage was not extensive; the worst was a windstorm at Newport News on the 13th which did about \$12,000 damage. Flash floods occurred in many small streams, particularly in Roanoke, Bedford, Floyd and Franklin Counties during the 15th-17th with no important damage.

AUGUST - August was very wet and slightly warmer than normal. Precipitation occurred somewhere in the State on every day except the 25th. The remnant of a hurricane passed northward ower the Piedmont and inner Tidewater counties during the afternoon and night of the 28th. There was some damage over these entire areas but the greatest destruction was in Sussex and Richmond Counties. The total damage was estimated at \$200,000. Thunderstorms of cloudburst proportions, concentrated over the middle James River Basin om the 14th-15th produced extraordinarily rapid rise in the James River at and below Bremo Bluff to a little above flood stages. Losses were small. A flash flood at Harrisonburg on the 15th inundated three blocks of the town and caused \$220,000 damage.

SEPTEMBER - September was cool and rather dry. Earth tremors were noted on the 16th-17th in Lee and Scott Counties.

OCTOBER - October was warm and dry until heavy showers began on the 25th which brought the total precipitation for the month to a little above normal.

NOVEMBER - November was generally pleasant and dry with temperature averaging near normal. A large percentage of the precipitation occurred in the first four days. Amissville reported a total of 0.46 inch which was the least monthly amount during the year. There was little snowfall.

DECEMBER - December was mild and dry with very little snowfall. There were only three cold spells and none that lasted more than two days.

The growing season for the State, based on the records for 91 stations, averaged 203 days, and ranged from 151 days at Chatham 4 N to 283 days at Fredericksburg. It was an exceptionally fine year for corn, hay and pastures. Corn yields were disappointing in some southern and central counties, but the average for the State exceeded all previous years. The hay crop was the best in many years. Late frosts killed most of the peaches and apples in the southern and southwestern counties, but in the chief commercial districts the fruit was of high quality though under average yield. Flue-cured tobacco got a poor start and matured early with low yields; dark-fired and sun cured types were better but were below average. Peanuts were a little under last year's bumper crop. Cotton made a poor showing. Soybeans did unusually well. Truck crops were generally good except that blight greatly reduced the supply of canning tomatoes. Excellent grazing continued through most of November. --- S.S.S.

#### ACKNOWLEDGMENTS

ACROWLE

In addition to the climatological data from some 6,000 Weather Bureau and cooperative weather stations, this bulletin series contains records from Hydroclima tic Network Stations which were formerly reproduced in the Hydrologic Bulletin Series. The Hydroclimatic Network is a nationwide net of rain gages--mostly of the recording type which produce continuous records of precipitation. It was established in 1939 at the request of the Corps of Engineers, Department of the Army, to supplement existing precipitation stations in order to provide records of rainfall intensity which were essential to the planning of flood control and related works by the Corps of Engineers. This Network, now numbering about 2,000 recording, and 1,000 non-recording rain gages, has been maintained by the Weather Bureau through working funds transferred annually to the Weather Bureau by the Corps of Engineers. These transfers averaged about \$250,000 per year between 1940 and 1944, and nearly \$375,000 since that date. For the years 1940-42, the Department of Agriculture transferred about \$100,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$250,000 per year to provide data required in its work, and since 1947 the Bureau of Reclamation has transferred about \$250,000 per year to meet the increasing needs of their program in the Western States.

Previous to the introduction of this bulletin series, data from Hydroclimatic Network stations were presented in bulletins (Hydrologic Bulletins) which were issued monthly for each of 8 drainage areas embracing the entire United States, but since the Network was established to meet the internal requirements of the Pederal agencies referred to above, no provision was made for public dissemination of the data, distribution being limited to cooperating agencies and to certain public repositories. A list of locations where reference copies of the Hydrologic Bulletin Series are available for inspection may be obtained upon application to Chief, U. S. Weather Bureau, Washington 25, D. C.

Many other records published in this bulletin have been made available through the cooperation of various public offices, private agencies, and individuals as listed in the Station Index.

-	Janu	ıary	Febr	nary	Ma	ırch	Ar	ril	Ma	ıy	Ju	ne	Ju	l <del>y</del>	Aug	ust	Septe	mber	Octo	ber	Nove	mber	Dece	mber	Ann	
Station	Temp	Departure	Тепр	Departure	Temp.	Departure	Тещр	Departure	Temp.	Departure	Temp	Departure	Тетр	Departure	Гепр.	Departure	Тепр	Departure	Тетр	Departure	Temp.	Departure	Тешр.	Departure	Temp.	Departure
ALEXANDRIA POTOMAC YDS ANNANDALE ASE'AND BALCONY FALLS BARCROFT	44.7 40.6 45.3 44.7M 41.5M	8.8	45.8 42.7 44.9 43.3M	7.6	48.9 43.5 47.0 45.3	.1	56.2 51.8 54.0 52.4 54.0M	- 1.7	67.3 63.8M 64.3 63.7M 64.4M		76.1 72.9 73.3 72.2 72.9 M	1.0	82.1 78.6 79.4M	1.9	78.6 75.2 75.4 72.9 75.5	5	68.6 64.4M 65.7M 63.2 64.7M	- - 3.4	64.4 60.3± 61.2 59.0 61.1	3.3	48.9M 45.0 48.8 46.5 45.3M	1.8 - - -	43.014 38.2 38.5	-	60.4	=
BEDFORD BIG MEADOWS BLACKSBURG BLACKSTONE AIRPORT BRISTOL	45.6 36.9 43.0 46.4 46.2	8.2 9.1	45.6 36.0 41.7 47.5 46.1	6.8 7.1	47.3 38.0M 44.3 48.6 47.2	1.4	46.4 51.6 55.7	- 1.0 .4 .5 -		2,6 1.3	73.8 63.8M 70.9M 75.2 74.8	-	78.2 68.6M 74.7 80.3 77.8	3.4	74.8 65.1 71.1 76.6 74.5	.9	56.1M 62.1	- 2.8	54.5M	3.5			41.3 33.1 38.8 43.0 43.2	3.3	58.5 49.6 55.1 59.9 58.8	1.8 1.8 2.7 4.2
BUCHANAN BUGGS ISLAND DAM BURKES GARDEN CAMP LEE CAPE HENRY	45.1 46.8 41.4 46.1 48.7	9.2	45.0 47.4 40.0 47.4 48.6	7.6	47.1 48.8 40.8 48.8	.4	54.5 57.1 48.0 55.0 57.3	1	65.3 67.6 58.24 65.9 64.8	1.1	73.2 76.4 65.5 74.3 74.1	-	77.4 81.5 69.0 80.0 80.8	1.8	74.1 78.8 66.5 76.3 77.8	-	65.1 68.9M 58.2 67.3 71.5	- 2.4	61.4 61.8 56.0 62.7 66.6	3.3 5.8 4.5	46.0 48.8 40.4 48.6 52.0	5 .2 1	40.4 43.1 36.9 42.2 46.6	- 1	57.9 60.6 51.8 59.6	2.8
CARDINAL CATAWBA SANATORIUM CHANTILLY CHARLOTTE COURT HOUSE CHARLOTTESVILLE 2 W	46.0M 43.0 41.4 - 43.2M	_	47.4 42.0 42.6 45.5M 44.3	3.9	48.8m 43.0 45.3 46.4m 48.4m		55.7 52.2M 53.0 55.7M 55.3	-	65.8 62.1 63.6 65.3 65.7	4 - -	74.8 70.2 72.3 74.3	-	81.6M 73.3 78.4 79.4M 78.8	.6 - -	78.7 71.0 1.0 74.0 76.2 1.5	_	69.0M 62.5 63.6 - 66.0	_	64.1M 58.8 60.7 62.3	2.2 - 3.6	47,1M 45.0 44.9 49,1	7 1	38.4 42.3M	8 - 2.3	60.0 55.1 56.5 58.6	.3 - 1.8
CHATHAM 4 N CHERITON CLARKSVILLE COLUMBIA CROZET 2 N	45.3M 48.9M 46.2 43.0 45.7	8.0	45.7M 48.1M 46.5 43.1 46.0	6.2	46.3 50.0M 46.7M 46.3M 48.1	9.8	56.1M 58.2M 66.5 53.9 53.5	.4	66.2M	1.5	74.6 75.9M 79.6 78.5 72.8	2.0	78.9 83.1M 76.1 74.8 77.6	1	75.9M 79.1M 67.4M 64.1 75.3	- 3.0	67.0 71.5M 61.5 59.4 64.7	3.2	61.8 66.5M 46.7 46.7M 63.0	5	51.91	.0 - 2.6 2.2 1.8	44.71	2.2 - - -	58.9 62.0	1.0 2.2 - - -
CULPEPER DAHLGREN PROV GROUND DALE ENTERPRISE DANTE DANVILLE	44.4M 42.8 42.9 43.2 49.0M	9.5	44.8 44.3 42.4 43.7 48.1	7.7	47.2 46.3 43.5 43.8 50.3	9	54.6 55.1 50.4 52.8 56.9	1,1 - 1.6 - 1.0	65.1 64.3 61.5 64.0 68.3	- 1.0 2.3	74.0 74.1 70.0 71.8 77.3	1.0 .0 2.6	79.4 79.8 75.1 75.9 80.8	3.7 2.9 1.3 3.8 1.7	70.7	1.4	66.0 66.3 62.3 62.6 68.6	- 4.5 - 4.6	61.6		48.4 44.4 43.0%	2.5 .7 .5 - 1.8	41.9 38.4 38.6M	3.1	58.3 58.5 55.1 56.1 61.0	3.1 2.1 1.5 1.6 1.3
DANVILLE AIRPORT DIAMOND SPRINGS ELEWOOD 7 S EMORY EPISCOPAL HIGH SCHOOL	47.3 49.4 43.6M 42.8M 43.4		47.4 49.9 43.8M 44.6M	6.2 8.5	49.7 50.7 45.9 - 47.4	1.2	56.4 58.1 53.3 55.8	- 2.3 - 2.3	68.5 66.9 63.8 65.7	- 6 - 1.6	76.3 75.9 72.3 74.7	1.8 3	80.1 81.2 78.1 80.7M	3.5 3.0 -	76.7 77.8 74.6 75.2M 76.7	1.2 3.5	67.6 70.9 64.1 66.9	- 1.7 - 3.4	62.7 66.0 60.1 66.2M 62.8	3.4 2.9 10.9	45.7	6 8	41.7 46.6 39.2 41.0	2.1 3.4 -	60.2 62.1 57.1 59.0	1.9
FARMVILLE FLOYD FREDERICKSBURG FRONT ROYAL 6 NW GLEN LYN	47.0 43.7 44.0 40.7 43.6	7.5	47.9 42.8 42.7 41.2 42.8	8.5 5.7	48.5 44.4 45.3 43.6 43.3	.8 - 1.4	54.8 52.4 54.3 51.4 52.5	8	62.7 65.1 62.5	.7	74.1 69.7 74.1 71.3 72.7	1.6	80.0 74.0 80.4 77.3 76.2	3.8	75.9M 70.3 76.9 72.8 72.6	1.8	67.0 61.8 66.4 62.3 63.6	- 3.2 - 3.3 - 2.9 - 3.8	60.4 59.5	4.0 2.5 4.7	48.14 44.3 47.4 44.6 43.3	.0	41.5 39.0M 39.8M 38.3 38.4	1.9	55.4 58.1 55.5 56.1	2.1 1.7 1.3
GORDONSVILLE 6 S GREENWAY DOWNS HALIFAX HOLLAND 1 E ROPEWELL	42.5 40.6 47.5 48.8 48.8	7.5 8.9	42.9 41.2 48.3 49.2 49.5	8.3 8.7	44.6 43.8 49.2 50.3 50.4	.5	52.1 51.9M 56.2 57.3 57.7	-	64.2 64.0M 67.0 66.6 67.5	7	72.5 72.8 75.6 76.3	1,0	78.1 78.8 79.8 81.1 81.0		73.9 75.3 76.0 77.1 76.5		63.6 64.6 68.2 69.5 68.7		59.6 60.5 61.6 64.6 64.0	4.1 4.1	45.6 45.8 47.5 50.5M 50.8	- - 2 1.2	38.6 - 41.9 46.8 45.2	5.0 4.2	56.5 59.9 61.4	- - - 2.3
HOT SPRINGS LANGLEY AIR FORCE BASE LAWRENCEVILLE LEE EXP FOREST LEXINGTON	37.7 47.7 47.0 44.7 45.9	6.0 7.2 - 11.5	39.2M 48.9 44.8 45.3	7.9	42.9M 49.9  47.0	2.1	48.2 57.4 - 54.7	1.6	59.4 66.7 	.7	67.9 75.9 - 72.5	-	72.2 82.1 - 77.2	2.7 3.7 - 2.6	67.9 78.7 - 73.7	4 1.3 - .7	59.1 71.1 - 65.4	- 3.6 8 - 1.4	56.5 65.9 - 61.2	4.3 4.6 	-	1.1 2.6	35.5 45.5 - - 40.5	2.1 3.3 - 4.6	52.3 61.8 - 57.9	1.5 2.9 - 3.7
LINCOLN LOUISA LURAY LYNCHBURG WB AIRPORT MANASSAS 4 S	41.9M 44.5 43.1M 45.0 42.6M	8.9	42.7 45.0 43.5 45.4 41.7M	7.3	46.8 46.5 43.8 46.9 44.5M	1.1	55.2 54.7 51.7 54.2		65.3 65.0 62.1 65.4 63.6	2.2 - 5	73.9 73.7 70.3 73.7 71.3M	1.8 2.7 .6	78.7 76.6	-	75.8 75.2 72.9 74.2 75.3M	- 1.1 1.4 1	65.5 62.8	-	62.4 60.9 59.1 61.7		46.6 47.7 44.9 47.6	2.4 2.4	38.5	3.3	58.0 58.2 55.8 58.2	3.1 3.0 2.2
MARTINSVILLE FILT PLANT MONS MONTEBELLO MONTEREY MOUNT JACKSON	44.6 40.9M 39.1 39.3 42.7	6.3	42.5 41.3M 39.3 37.5 42.9	2.2	43.8 42.8 40.1 36.7 44.2	- 4.9 - - -	53.1 51.3 49.5 46.1 50.5	- 5.3 - - -	64.3 61.7M 59.2 57.1 62.1	-	72,7M 69,2M 67,3 65,4 71,4	8 - - -	77.7 72.5 69.3 76.5	1.6 - - -	73.6 69.0 68.1 66.0 72.2M	- 2.1 - - - -	58.3M 59.6 56.7 62.5	- 5.1	59.5 56.0 56.7 54.9 44.9	.6 - - -	43.2 41.5 42.7 39.0 60.2	- 4.5	37.6 35.5M 37.9M 35.2 38.6	- 1.4 - -	56.4 53.0 50.3 55.8	1.3
MOUNT WEATHER NEW CANTON NEWPORT NEWS NORFOLK WB AIRPORT NORFOLK WB CITY	34.5 46.3 49.6 48.4 49.8	9.1	37.0 46.5 51.2 48.1 50.3	8.4	36.5 47.9 52.1 49.5 50.9	2.7	48.1 54.6 59.2 57.6 58.8	7 5 0	60.0 64.8 69.0 65.6 67.2		69.5M 73.3 77.7 74.9 75.8	1.9 1.1 - 1.4	74.7 78.4 83.1 80:5 81.7	3.1		1.8		- 4.8 - 3.6 3	54.7 60.5 67.0 64.8 66.7	1.1 3.1 - 4.2	40.9 48.0 53.4 51.0 52.8	1.4	41.0 46.9 45.9	1.1 2.6 - 4.4	51.7 58.4 63.5 61.2 62.7	.8 2.1 - - 3.2
ONLEY 1 S PENNINGTON GAP 1 W PHILPOTT DAM PIEDMONT FIELD STATION POOR MOUNTAIN	47.2 44.3 47.2M 44.8	8.1 8.0 - -	46.9 44.6 45.6		48.3 44.0 47.5 47.1	2.7 5 - -	55.6 52.1 54.6M 54.6	1.2 2.0	64.8 64.7 66.1M	1.4	74.1 71.7 73.1 74.2 69,0	.6	81.1 76.5 76.2M 78.9 70.8M	4.4	76.0 67.3	2.3 6 - -	63.5 66.8M 66.3 58.3	- 1.4 - 4.7	64.1 62.0 61.6 55.5	4.8 5.0	49.6 42.2 49.0M 47.7 39.4M	1 - 2.6 - -	43.4M 39.9 40.5 35.8	1.9 2.7 - -	56.5 58.6	2.8 1.5 - -
PULASKI AIRPORT QUANTICO 1 S RICHMOND WB RE BYRD FLD RICHMOND WB CITY ROANOKE	42.2 42.7 45.3 46.4 45.2		40.2 43.4 46.5 47.8 44.8	7.5	42.2 45.7 48.7 49.3 47.5	2.1	49.5 60.4 55.7 56.6 54.3	6.5	60.6 64.8 66.0 66.7 65.3	.8	68.8 74.3 75.3 75.5 73.2	1.4	73.0 80.3 80.1 80.3 77.0	1.8	69.4 76.9 76.6 77.0 73.1		60.3 66.5 67.4 68.3 63.7	- 2.2	57.6 62.2 62.5 63.6 60.7	4.0	42.6 47.0 49.0 50.6 47.3	1	37.6 39.9 42.4 43.9 40.3		58.2 59.6 60.5 57.7	2.6
ROANOKE WB WOODRUM FLD ROCKY KNOB ROCKY MOUNT SALTVILLE ALKALI WORKS SALUDA	44.8 41.5M 44.7 44.6	7.0	44.1 41.1 43.0 43.2	4.3 5.6	46.1 42.3  43.4 46.5M	-	53.7 50.1 - 52.8	- 1 <u>.</u> 0	65.0 60.3M 64.6	2.0	73.7 67.7M 73.5 74.7M	3.0 .8		=	73.2 68.5 73.1	- 1.3 4		- 3.5 -	61.5 57.3 60.9 62.4	4.0 3.9 6.5		- 2.2	40.4 38.41 40.9	-	57.7 53.5 56.9	2.1
STAUNTON STUART SUFFOLK LAKE KILBY SUGAR GROVE TIMBERVILLE	42.7 47.7 48.1 40.9 42.5		41.5 47.4 49.2 40.4 42.2	6.1	42.8 48.9 49.0 40.9 43.7	1.8	51.2 55.0M 55.9 48.5 50.4	- 1.0	61.7 64.63 65.2 58.5 62.1	7 -	70.9 72.2 74.5 67.5 70.8	5 - -	71.2 76.2	.o	71.6 72.1 77.3 68.1 71.7	=	64.8 69.0 59.3 62.4	- 4.2 - 5.0	59.4 62.8M 63.7 57.5 59.4		46.9% 48.6 49.0 39.4 46.7	1.7 .4 -	39.1 42.2 43.6 38.4 38.8	1.1	55.6 58.5 60.4 52.6 55.6	1.0
URBANNA WB WALKERTON WASHINGTON WB CITY DC WASHINGTON WB NAT AP WATERFORD	45.2 45.9 43.3 42.6 37.9	8.3 9.9	45.8 46.4 44.6 43.9 38.5	8.3 9.3 8.6	47.4 48.5 47.2 46.7 41.2	1.3 4.6 4.1	43.4 56.7 55.5 55.1 53.2	.7 2.2 1.8	55.5 66.9 66.6 66.0 61.0	2.9 2.3	65.5 75.0 75.8 75.1 69.8	3.6 2.9	74.3 79.9 81.5 81.0 75.3	2.8 4.7 4.2	77.3 77.2 78.2 77.6 70.9	1.5 3.1 2.5	68.3 67.8 67.1 67.1 61.1	- 2.9 - 2.3 - 1.0 - 1.0	62.8 64.0 63.4 57.7	6.6 6.0	48.6 48.4 48.1 44.0	.4 3.2	80.2 42.3 42.3 41.9 35.8	4.0 5.7 5.3	59.6 59.9 59.5 59.0 62.2	1.4 2.5 4.5 4.0
WAVERLY HILLS WILLIAMSBURG 2 NW WINCHESTER RESEARCH LAB WOODSTOCK WYTHEVILLE P O HLDG	43.0 47.8 41.7 43.1 44.5	8.5 9.1	44.2 48.2 43.0 43.3 43.3	7.4 8.4 8.8	46.7 49.7 45.3 45.6 45.2	2.2	54.8 56.6 53.4 52.8 52.6	1 .7	65.1 65.7 63.4 63.8 62.4	4 4	74.0 74.1 72.6 72.0 69.9M	.5 .3 1.6	80.1 79.4 78.2 77.8 74.1	2.0 1.8 3.0	76.5 75.8 73.8 73.4 70.7	5	66.1 67.7 63.8 63.0 62.2	- 3.2 - 4.3 - 4.5 - 1.4	60.8	3.1 4.3 4.5	.47.7 49.2 45.8 46.1 44.5M	1.1	40.8 44.3 39.0 39.2 40.8M	3.1 3.4 3.7	58.5 60.1 56.8 56.7 55.9	1.5 2.2 2.5 3.3

	Janu	ary	Febr	uary	Mar	ch	Ap	ril	M	ay	Ju	ne	Ju	ly	Au	grust	Septe	mber	Octo	ber	Nove	mber	Dece	mber	Ann	ual
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
ABINGDON AFTON BOXWOOD GARDENS ALEXANDRIA POTOMAC YDS ALTA VISTA AMISSVILLE	4.05 4.22 4.67 3.66 3.76	.79	3.29 - 1.96 2.17	1111	4.13 3.34 3.00 1.32 2.37	.04 - -	4,19 1,77 2,20 3,37 3,70	1 1 1 1	2.95 5.02 5.09 4.94 5.41	1.17	2.96 2.56 7.48 3.68	1111	13.02 3.11 4.06 6.02 5.43	-1.69 -	9.09 7.57 4.25 5.77 7.31	2.46	2.11 1.55 3.59 4.18 2.11	-2.33	2.67 3.35 3.14 4.57 4.22	79 -	2.74 1.32 0.86 1.64 0.46	-1.47	3.29 1.96 2.08 1.59	1 1 1 1	54.49 46.99 42.21	=
ANNANDALE APPOMATTOX ASHLAND BACON NR FAIRFAX BALCONY FALLS	4.91 4.71 4.00 4.33 4.36	- .97 -	3.11 2.57 2.90 2.58 1.41	- .03 - -1.26	3.22 2.93 2.35 - 2.90	-1.14 65	3.43 3.28 2.13 - 5.74	-1.44 2.37	4.51 5.40 3.97 4.69	- .12 - 1.07	3.13 5.86 6.26	2,12 -	5.51 2.68 - 6.73	- -2.04 - 2.60	3.60 4.12 7.08 - 5.63	2.41 .95	3.35 5.44 1.87	-1.44 -22	3.39 5.10 6.05	2.98 94	0.74 1.56 3.59	1.30	2.17 3.94 - 2.39	- - - 84	50.42	-
BARCROFT BEDFORD BERRYVILLE BIG KNOB BIG MEADOWS	4.88 3.81 4.27 4.74	1.71	2.43 2.10 3.22 2.47	86 - 32	5.19 3.22	1.38	3.62 5.36 2.72 4:04 2.77	2.21 - -1.19	4.56 5.24 2.38 4.90	.69 - .75	2.84 5.08 2.29 1.99 17.13	.80 - - 12.88	6.21 6.40 6.70 8.26	1.99 - 2.79	V9,44 5.20 6.09 6.21 8.68	- .25 - 3.38	4.45 2.33 2.15 1.37 4.30	 -1,00 - 45	3.19 2.71 2.87 3.74 5.06	41 01	0.78 1.26 0.86 1.63 1.09	-1.42 -2.77	2.34 2.63 2.74 2.57	87 70	47.55 41.51	4.47
BIG MEADOWS NO 2 BLACKSBURG BLACKSTONE AIRPORT BREMO BLUFF BRISTOL	4.21 4.50 2.71 5.28 3.54	1.21	1.83 2.95 2.88 2.91 2.43	13 - 96	2.37 2.65 1.93 3.59 3.59	-1.03 - - 63	2.73 5.72 2.54 3.02 4.55	2.53 - 1.59	4.46 4.12 4.71 2.85 2.28	- .44 - 77	9.39 5.03 6.18 2.39 2.56	.45 - -1.70	7.70 6.57 3.72 5.66 9.55	1.37	9.23 5.47 9.18 9.43 7.24	1.37	3.42 2.51 3.52 3.27 1.95	70 - - 33	4.95 3.53 3.05 3.55 4.61	.33 - 2.67	2.53 1.75 1.68 2.83	.22	2.07 1.34 2.12 3.23	-1.37  - 28	47.65 43.51 45.75 48.36	4.69 - 8.20
BRISTOL NEAR BUCHANAN BUENA VISTA BUGGS ISLAND DAM BURKES GARDEN	3.40 5.14 4.75 2.08 2.63	1.49 2.24 -1.05	3.05 2.17 1.71 3.16 2.62	55 39 96	3.10 3.02 2.29 2.53 2.22	40 25 -2.41	4.26 4.09 4.16 2.83 5.29	.89 1,71 1.69	4.00 6.28 3.60 4.18 4.08	2.82 04 05	2.04 4.18 4.06 3.40 3.91	16 .87 79	10.05 6.00 5.78 3.48 7.38	1.64 1.56 2.76	7.45 4.65 5.89 6.60	16 - 2.18	1.95 4.64 2.48 2.32	1.49 -1.01	3.34 3.08 - 3.25 1.72	63 - -1.23	2.78 1.80 	89 1.45	3.14 2.49 1.50 3.11	72 41	48.56 47.54 37.26 46.21	4.82
BYLLESBY CAMP LEE CAPE HENRY CARDINAL CATAWBA SANATORIUM	3,32 2,42 1,48 2,09 4,11	-1.67 1.17	2.02 2.47 3.71 4.08 1.96	.48	2.25 1.53 2.74 1.97 2.64	-1.13 85	4.36 2.67 1.37 2.01 5.42	-1.93 2.38	3.48 4.17 3.23 4.56 2.98	- 34 49	11.00 5.03 2.09 1.10 11.33	-1.87 6.58	5.23 4.50 4.30 3.57 5.57	-1.07 1,16	1.18 8.85 10.49 7.14 7.91	5.63 3.16	3.13 2.74 4.67 2.87 1.65	1.81 -1.81	2.64 2.63 2.11 2.42 3.97	- 90 .30	1.80 2.38 2.70 4.03 1.75	.34	1.32 1.87 1.62 1.99	-1.57 -1.03	40.71 41.76 37.46 51.28	- -2,22 9.07
CHANTILLY CHARLOTTE COURT HOUSE CHARLOTTESVILLE 2 W CHARLOTTESVILLE 1 SW CHATHAM 4 N	4.84 3.28 5.22 3.54	1.87	3.15 2.57 1.60 - 2.16	-1.20 -1.02	2.54 1.97 2.74 - 2.90	73 85	2.62 3.06 2.54 - 3.96	- 98 - .61	5.19 3.84 4.68 -	- .72 .76	2.53 3.70 3.01 6.59	- -2.28 - 2.82	8.08 4.03 4.50 -	- .17 - .27	3.69 6.49 10.65 4.91	5.53 .76	2.61 3.45 3.21 - 3.22	 01 20	3.79 2.83 2.79 2.33 6.58	- 84 3.66	0.66 6.84 0.91 0.94 1.86	-1.55 67	2.20 1.84 2.16 2.02 2.02	-1.30 -1.45	41.90 43.90 44.01 46.80	60 4.75
CHATHAM SCS CHERITON CHERITON CHINCOTEAGUE CHURCHVILLE CLARENDON LYON PARK	3.63 4.54 5.08	1.78	2.14 5.72 2.94 1.13 3.16	2.70	2.19 2.40 1.59 2.95	-1.18 - 05	4.68 2.22 1.19 3.16 3.27	-1.32 09	3.82 4.04 2.28 5.29 5.85	.97 - 2.08	3.81 1.55 8.15 2.86	-1.88 81	3.77 2.96 5.72 4.53	-2.10 - .60	6.59 4.74 6.62	- .25 - -	1.52 1.77 2.17 4.52	-2.66 - .78	5.56 1.82 3.39	~1.22	1,82 4,25 0.60	1.37	1.81		41.34	-
CLARESVILLE CLEVELAND CLIFTON FORGE CLINCEPORT COLUMBIA	2,59 3,76 4,68 5,23 4,86	1.64 .79 1.51	3.22 2.84 2.24 2.87 2.74	15 76 -1.16	4.90	-1.78 09 57	6.47 4.14 3.76 5.21 2.24	1.14 1.37 -1.23	5.39 3.91 5.88 1.72	1.52 2.30 -2.35	2.72 4.65 4.55 2.75 3.42	1.28 1.20 -1.81 52	8.55 7.27 2.93 8.60 4.46	3.92 91 3.63 .20	5.03 5.19 10.23 6.13 6.11	1.95 6.23 1.46 1.58	3.53 1.82 3.18 2.27 3.39	.72 .42 -1.08 42	2.41 4.60 4.45 4.52 3.98	.20 1.18 1.78 .69	2.06 3.28 2.14 2.61 1.81	-1.44 62 31 52	3.34 2.49 3.61 2.12	14 -1.01 -1.03	48.09 48.52 50.42	9,90 1.22
COOTES STORE COPPER HILL COVINGTON CROZET 2 N CULPEPER	2.19 2.16 4.25 5.91 4.98	1.72 1.99	2.22 1.63 1.88	.06	3.53 1.75 3.32 3.34	79 44	3.44 6.69 5.26 3.30 3.93	3.14	7.12 4.95 2.74 3.60 6.78	60 76	5.44 15.49 4.51 5.16 6.05	1.17 1.08	9.14 6.98 2.71 8.93 6.93	-1.01 3.11	5.56 12.85 6.75 9.87 4.93	3.32	1.75 4.33 3.56 2.64 1.97	1.18 -1.27	2.43 3.68 3.48 4.10 2.81	1.21	1.81 2.58 2.11 1.21	13	1.32 2.37 2.70 2.01	.80 -1.11	- 42.04 -	10.07
DAHLGREN PROV GROUND DALE ENTERPRISE DAMASCUS DANTE DANVILLE	5.20 3.65 3.24 4.09 3.77	2.35 1.01 13 .15 .40	2.51 1.43 2.92 2.47 2.33	.02 80 74 -1.13 86	2.85 1.38 3.53 3.97 2.76	50 -1.53 39 50 96	2.33 3.01 4.83 4.44 4.65	-1.08 .19 1.48 .90 1.27	5.52 4.68 3.28 4.41 6.05	2.39 1.16 -1.04 83 2.47	3.88 6.33 2.28 6.24 3.21	.01 1.54 -1.79 1.52 83	7.29 5.19 9.92 8.29 3.64	3.05 .76 4.20 2.39 55	4.14 8.79 5-99 8.15 7.05	-1.00 4.61 1.53 3.32 2.61	3.14 1.28 2.77 1.80 3.20	.45 -1.28 55 -1.52 .09	2.60 3.27 2.95 7.08 5.96	.21 .57 .58 4.13 3.04	0.63 1.14 4.00 3.23 2.27	-1.32 82 1.58 .37 .04	1.92 1.84 2.29 2.98 1.92	-1.17 75 66 61 -1.66	42.01 41.99 48.00 57.15 46.81	3.41 4.66 4.07 8.19 5.06
DANVILLE AIRPORT DANVIN DAVENPORT DEERFIELD 2 N DELAPLANE	3.23 2.34 4.39 4.53	1.65	2.41 1.77 1.86	26	3.04 3.31 1.69 1.79	- - -1.52	4.10 2.88 3.71 2.86	- - .67	5.28 2.80 6.36 3.74	3.35	1.81 3.70 7.21 4.47	3.64	4.41 5.33 2.85	- - - -	3.95 5.98 5.52	1111	3.52 3.38 2.04		5.56 4.53 2.33 3.36 3.32	.55	2.25 3.55 5.53 0.98	11111	1.77 1.89 2.32		41.52 42.31 35.82	11111
DIAMOND SPRINGS DRIVER 5 NE DUNBAR DUNGANNON ELEWOOD 7 S	1.51 5.91 4.85 5.00	-2.03 - - 2.45	4.05 4.00 3.85 2.43 2.02	.71	2.78 3.24 4.83 3.97 2.52	84	1.84 1.67 4.47 3.42 2.69	-1.43 - - .22	4.89 6.73 4.47 3.13 4.43	.74	2.87 3.78 2.89 4.34 2,19	-2.24 - -1.57	5.68 4.85 10.84 9.56 9.72	4.16	10.51 7.49 7.66 5.50 4.87	6.23	3.62 2.70 2.45 2.45 4.10	09 - - - .37	2.19 2.27 5.70 5.53 2.99	75 - - 28	4.17 4.40 3.50 2.64 0.70	1.81 - - -2.31	2.60 2.26 4.74 3.85 2.20	-1.55 - - - 51	46.71 61.31 51.67 43.43	3.17
EMORY EMPORIA 1 WNW PAIRPAX EPISCOPAL HIGH SCHOOL PALLS CHURCH	3.19 2.82 5.09	35 63 - -	2.68 3.76 3.49	63 .36 - -	4.82	-1.25 - - - -	5.51 3.36 2.41	2.46	1,49 7,43 6,15 5,32	-2.28 3.57 - - -	2,22 5,36 2,21 2,76	-1.57 .82 - -	9.94 3.53 5.02 5.34	5,92 -3.10 - -	6.19 6.59 4.61 4.12	1.35	1,57 5.09 2,40 3,53	-1.12 1.13	1.50 3.45 3.22	96 - -	2.76 2.80 0.76 0.89	,35 .18 - -	2.64 1.62 1.73 1.78 1.70	71 -1.17 - - -	1111	- - -
FARMVILLE FIELDALE FLOYD FLOYD NO 2 FORAKER	3.81 4.42 2.65 - 2.09	.97 -1.40 -	2.96	.21 - - -	2.33 2.39 3.13 3.37	22	3.51 4.29 6.00 - 3.37	.46 2.85	4.41 4.28 4.72 - 2.72	.45	4.07 4.82 4.81 3.70	51 .24 -	8.34 5.76 8.55 4.73	3.35	3.77 8.13 8.28 - 5.96	3.46	2.06 2.47 1.70 - 0.89	67 -3.06 -	5.91 3.01 3.62	.59	2.61 1.24 0.66	.27	2.11 1.43 2.11 2.01	-1.05 97	43.89 44.22 - - -	3.01
FREDERICKSBURG FREDERICKSBURG EMBRY PL FRONT ROYAL 6 NW GALAX GLEN LYN	3.30 5.04 3.52 3.08 2.40	90	2.09 2.53 1.97 2.15 1.04	63 - -1.94	1.32 1.92 1.28 2.13 1.52	-2.26 - - -1.71	2.50 2.43 2.70 7.18 3.78	1.06	3.75 3.75 4.33 4.28 4.25	.01 - - 1.15	2.02 1,91 5.56 5.15 5.87	-2.19 - - 2.49	5.67 6.14 4.30 4.96 3.64	1.31 - - - 67	3.94 3.32 5.06 9.57 7.46	3.55	2.58 3.09 1.98 2.35 2.18	58 - - - 38	2.55 2.46 4.15 3.58 2.30	66 - - - 52	0.67 1.03 1.33 1.82 1.83	-1.44 - - - 41	2.56 2.06 2.14 1.52 2.27	58 - - 57	32.95 35.68 38.32 47.77 38.54	-9.10 - - - 1.15
GORDONSVILLE 6 S GOSBEN GREENMAY DOWNS GROSECLOSE GRUNDY	5.30 3.98 4.81 2.84 2.71	-	2.09 3.97 2.84	-	2.95 1.78 3.05 1.81	-	3.31 4.14 3.14 5.75	-	3.82 4.27 5.63 3.34	-	7.17 6.45 2.74 5.70 2.94	-	8.61 5.59 5.39 7.48 4.65	-	8.16 5.41 3.46 5.10 3.55	1	2.27 3.67 3.27 1.29 1.68	11111	2.52 2.49 3.98 2.77 5.38	-	1.39 2.11 0.57 3.52 2.96		2.11 1.99 1.99 3.15	-	49.70	
HALIFAX HAYSI HIGH KNOB HILLSVILLE HOG IS LTL MACHIPONGO	3.32 2.70 4.45 2.92	21 - - - -	2.49 2.55 3.47 2.13	54 - - -	2.71 3.91 4.05 2.27 2.22	-1.11 - - -	3.43 3.64 4.43 5.92 1.42	.17 - - -	4.39 4.04 4.43 3.39	.39	6.17 1.78 3.29 6.28 1.74	2,17 - - -	3.78 7.90 8.69 6.57 2.37	-2.16	9.54 8.42 8.87 4.99	5.36	3.44 2.06 1.15 3.06	80 - - - -	4.05 5.13 5.75 4.24 1.90	1.34	1.97 3.19 2.36 2.16 2.60	-1.12 - - -	1.84 3.45 4.27 1.61 1.62	-1.32	47.13 48.77 54.21 45.54	2.17
HOLLAND 1 E HOLSTON HONAKER HONAKER NEAR HOPEWELL.	2.57 2.93 3.04 3.83 2.24	-1.22	4.98 2.86 2.68 2.72 2.36	1.45 - - - 65		61 - - -2.41	2.58 3.93 4.75 4.25 2.36	- ,98 - - - -1,04	6.12 1.60 3.00 4.91 4.83	1.16	7,44 2,21 2,68 4,10 5,21	2.75	9.57 4.06 7.72 7.73 5.19	2.42 - - - .87	4.31 4.96 5.49 6.88	9.53	3.51 0.96 2.15 1.97 2.37	92 - - -1.02	1.95 3.00 3.71 4.26 2.61	38 - - 05	4.49 2.42 3.25 3.52 2.23	1.54	2.07 3.13 2.97 1.57	56 - - - -1.95	63.79 35.05 49.26 39.34	15.18 - - - -3.13
HOT SPRINGS HURLEY INDEPENDENCE INDIAN VALLEY JEWELL RIDGE	4.27 3.68 2.90 3.28 3.41	1.02	3.15 1.23 2.45 3.22	-	2.02 3.67 2.19 2.12 3.59	-1.61 - - - -	6.04 3.81 4.14 4.78 3.96	2.70 - - - -	2.21 2.84 1.81 3.87 4.17	-1.39	7.70 1.92 4.63 4.96 2.67	3,19	4.22 6.03 6.15 5.04 4.84	02	10.33 4.93 9.68 5.79 9.33	6.17	3.30 3.92 2.38 1.41 1.97	.19 - - - -	3.61 4.47 2.36 3.33 3.67	.14 - - -	1.98 4.70 2.20 3.47	53 - - - -	3.28 3.71 2.10 2.34 3.45	.23 - - - -	44.27 41.57 47.75	-
JONESVILLE JONESVILLE JONDAN MINES KERRS CREEK LANGLEY AIR FORCE BASE	5.94 5.80 4.00 3.94 1.40	-1.87	2.78 2.98 2.05 1.26 5.58	2.24	4.77 4.11 1.94 2.03 2.35	- - -1.22	4.71 5.00 5.30 4.52 0.81	-2.17	2.89 2.69 2.32 5.57 3.87	- - - .48	4.17 3.79 3.99 5.99 1.56	- - -2.71	7.01 7.22 3.12 6.23 8.55	- - - 3.47	3.88 4.21 6.09 4.57	-	1.64 2.24 2.65 2.55 3.00	.23	5.75 3.22 3.25 1.84	- - - .66	2.23 1.68 1.21 3.13	1.00	3,87 2,33 1,33 2,02	-1.03	49.89 38.69 42.45	
LAWRENCEVILLE	2.03	- 1	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	-	-	-	-	-

tes following Station Ind

	Jan	uary	Feb	ruary	Ma	rch	Ap	ril	M	ay	Ju	ne	Ju	ly	Aug	rust	Septe	mber	Octo	ober	Nove	mber	Dece	mber	Ann	
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
LEE EXP FOREST LEESBURG LEXINGTON LINCOLN LOUISA	4.48 5.13 5.65 5.31 5.32	2.66 2.31 2.20	2.98 3.57 2.08 2.69 2.34	59 .08 30	2.17 2.54 1.71 3.42	- 89 -1.37 .04	3.23 3.42 3.79 3.35 3.16	- .85 .04 .02	3.04 4.24 3.50 5.11 3.24	- .18 1.51 58	2.73 5.44 2.29 2.64	1.32 -2.44 -1.50	6.35 5.50 5.59 7.98	1.61 2.15 3.58	4.59 5.54 6.81	.50 1.28 2.31	2,83 3,49 2,27	- .09 .85 80	3.46 3.27 2.91	- .33 .26 37	1.77 1.30 1.78	- 38 -1.05 48	2.24 3.21 2.11	- 87 .47 97	48.39 42.86 43.98	4.81 4.09 3.15
LOVES MILL LURAY LYNCHBURG 7TH ST BRG LYNCHBURG WB AIRPORT MANASSAS 4 S	3.00 3.47 4.24 4.45 4.79	1.02 1.67	3.13 1.95 2.71 2.50 2.68	-	3.17 1.58 3.48 3.49 2.76	- - 05 30	4.74 4.00 3.25 3.91	- - - - 96	3.95 6.07 6.77 3.84 5.29	- - .21 1.65	1.97 9.23 6.22 8.50 3.12	4.71	5,48 6,62 3,53 4,07 6,17	- - 14 2.36	5.49 7.03 4.53 4.03 5.26	- - . 25 . 34	1.58 2.12 4.05 2.68 2.58	- - 63	4.32 3.38 2.54 2.83 3.31	- - 32 .80	3.65 0.83 1.04 1.20	-1.13	1.89 1.67 2.16 2.31	- - 95	42.37 47.95 44.52 43.81	3.28
MANION NR FAIRFAX MARION MARSHALL MARTINSVILLE FILT PL MCGAHEYSVILLE 3 S	4.46 2.97 4.23 4.56 3.59	- - - -42	2.24 2.69 2.01 2.56	-	2.62 1.83 2.60 1.56	-1.73	4.05 3.83 3.78 2.25	.18	5.05 3.82 6.67 5.14	2.96	5.08 4.90 3.73 3.75	52	5.40 2.25 4.28 4.25	-1.92	7.29 5.91 6.90 6.18	- - 1.61	1.44 2.33 3.61 2.42	1.37	2.89 3.67 3.74 3.11	.29	3.92 0.90 1.36	- - -1.60	1.95 2.14 1.91 1.83	- - -1.66	45.35 37.82 45.70	- - - 1.53
MENDOTA MONS MONTEDELLO MONTEDELLO FISH NURS MONTEREY	4.49 4.86 3.84 1.80 2.73	.30 .20 77	3.17 2.55 2.57 1.83	51 19 -1.08	4.44 4.09 3.04 -	07 16 -2.45	4.13 6.80 4.63 - 4.36	.45 .86 1,03	2.12 8.17 3.65 3.84 4.26	-1.81 -1.71 18	1.69 7.96 9.74 14.58 5.54	- 1	11.75 11.50 4.69 4.99 7.67	6.48 72 2.85	8.16 8.38 5.78 8.25 5.99	3.75 07 1.55	2.98 2.99 4.30 4.58 1.67	07 .04 97	4.55 3.57 4.33 3.78 2.70	1.66 .20 52	1.55 3.02 2.16 2.27	- 43 12	2.92 2.96 2.84 3.21 2.80	91 46 50	65.38 52.43 43.64	1.78 11
MOORES CREEK DAM MOUNT JACKSON MOUNT WEATHER NATURAL BRIDGE STATION NEW CANTON	3.35 4.42 3.47 5.35	1.46 1.80	1.69 2.23 2.89 2.72	.04 09 23	1.12 1.44 2.49 3.75	-1.19 -1.41 08	2.17 2.67 5.01 2.82	.01 97 50	3.30 4.55 4.74 4.00 2.88	.44 .64 .94 54	3.85 4.50 4.73 5.66 2.71	.80 .69 .47 ~1.02	3.04 3.96 1.80 7.10 6.15	-1.57 -1.19 -1.86 -2.26	6.53 5.43 8.02 8.05	2.02 .99 3.12	1.30 1.20 2.22 2.21 3.23	-2.16 -1.64 -1.00	1.47 3.48 2.75 3.56	91 23 38	3.54 1.28 1.98 1.61	.87 -1.18 74	2.09 2.80 3.09 2.18	- .02 .22 -1.12	36.17 37.24 48.67 45.01	.34 - 2.66 3.53
NEW CASTLE NEWPORT NEWPORT NEWS NORFOLK WB AIRPORT NORFOLK WB CITY	4.14 4.11 1.79 1.60 1.62	1.41 - - - -1.48	2.53 2.99 5.40 4.38 4.27	.00 - - - 1.05	2.10 2.55 2.90 2.85	71 - - - 92	4.33 4.72 1.88 1.66 1.71	2.08 - - -1.52	3.68 2.41 5.64 5.42 5.42	40 - - - 1,61	4.04 5.26 2.15 2.84 2.57	.34 - - -1.65	4.13 4.75 5.27 6.11 6.35	22 - - - .60	4.75 5.91 7.31 9.35 14.51	20 - - - 9.29	2.27 1.45 4.62 3.01 2.06	54 - -1.17	2.79 2.30 1.96 2.34 2.29	.04 - - - 75	1.76 2.11 4.51 3.39 3.51	1.35	2.82 2.01 2.28 2.49 2.10	.47 - - -1.24	39.31 45.36 45.49 49.26	1.83 - - 5.17
NORTH BRISTOL SUBSTA NORTH RIVER DAM OLINGER ONLEY 1 S ORANGE 1 SW	3.34 4.05 5.98 2.33 5.21	1.21 70 2.18	2.65 1.79 3.01 4.21 1.57	51 55 -1.03	3.40 4.82 3.05	- - 14	4.18 4.33 3.64 1.97 3.24	1,22 -1,29 - ,10	3.21 3.36 4.17 3.52 3.97	65 30 .31	2.43 13.18 2.63 2.93 3.87		11.80 8.50 6.52 1.96 6.89	2.97 -2.32 -2.29	6.67 9.37 6.51 6.83	4.73 2.21	2.12 2.24 1.66 1.83 4.07	-1.05 -1.28 -81	3,18 2,32 6,67 4,09 3,10	94 79 .02	2.73 2.42 2.67 3.83 0.78	1.67	3.19 2.07 4.91 1.39 2.46	36 -2.29 75	48.90 53.19 45.04	3.25
PEDLAR DAM PENNINGTON GAP 1 W PHILPOTT DAM PIEDMONT FIELD STATION PILOT	5.52 6.33 4.52 4.82	2.55	2.05 2.65 2.43 2.14	76 -2.17 -	3.20 5.01 2.92 2.77	04 39 -	4.00 6.46 2.92	.57 - -	4.55 V7.26 7.87 - 1.52	.38 43 - -	5.69 4.73 5.18 3.75	1.49 .43 -	7.75 7.71 7.16 6.93 5.84	2.41 2.19 - -	5.69 7.02 11.03 6.26 5.37	47 2.55 - - -	3.83 2.43 2.35 3.25 3.37	.64 .06 - -	2.65 6.29 2.99 2.37	51 3.75 - -	1.32 3.30 1.42 V2.90 2.15	-1.60 .46 -	4.26 4.68 2.63 1.73	.80 .64 -	50.51 57.41 - -	5.46 +8.39 - -
PINNACLES MEADOWSOFDAN POOR MOUNTAIN PULASKI PULASKI AIRPORT QUANTICO 1 S	3.08 3.93 5.19	34 - - 2.11	3.12 2.44 2.40 2.24	30	5.80 2.35 2.26 2.69	1.42 - - 63	6.42 5.04 6.93 2.48	2.41 - - - 77	4.83 3.06 2.46 5.24	05 - - - 2,11	7.99 4.87 5.31 5.33 2.39	1.89 - - -1.43	6.28 9.49 7,31 4,86	.89	10.86 9.16 10.30 4.87	- - - .4ì	2.00 1.05 0.96 2.87	- - 13	3.97 3.48 3.87 2.64	32	2.25 1.33 2.75 1.08	- - -1.02	1.82 2.68 2.43 2.00	- - 83	48.47 50.93 38,55	- - 01
RADFORD RANDOLPH RAPIDAN RICHMOND WB RE BYRD FL RICHMOND WB CITY	3.19 2.44 4.49 3.35 3.25	.09 -1.33 - .04	2.41 2.43 1.91 2.55 2.50	20 75 - - 67	1.89 2.72 2.60 2.12 2.34	-1.25 98 - - -1.34	4.49 3.06 3.47 2.22 2.31	1.81 .29 -1.18	3.91 4.30 4.73 5.11 6.11	.74 .67 - 2.32	4.88 3.62 4.49 3.53 4.65	1.41 24 - .75	5.74 6.34 4.25	.85 - - 48	9.33 7.84 5.14 8.99 8.56	6.21 3.52 - 4.14	2,16 3,21 4,24 2,64 3,46	51 .45 - .21	2.93 6.00 2.88 3.87 5.36	05 3.13 - 2.48	2.49 1.91 0.78 1.88 2.24	.53 45 - .03	2.03 1.84 2.84 1.94 1.84	85 -1.42 -1.45	44.87 43.31 44.54 46.87	8.78 - - - 4.87
RIVERTON ROANOKE ROANOKE WB WOODRUM FLD ROCKFISH ROCKY KNOB	3.22 4.04 4.35 5.91 4.94	.96 1.25 2.33	1.68 1.73 1.93 2.44 2.71	44 85 28	2.45 2.91 5.61 3.55	41 2.45	3.06 5.12 5.15 3.14 6.04	.45 2.25 .03	5.14 4.66 3.37 5.38 4.90	1.49 01 1,17	4.32 6.81 6.81 6.70 11.22	.97 2.45 1.40	3.30 6.99 7.85 4.48 7.91	3.67 -1.52	4.48 8.61 9.12 9.72 11.40	.77 5.19 4.64	3.71 2.30 1.46 4.57 3.76	.40 -1.74 69	3.41 2.80 3.29 3.10 2.67	36 53 .11	1.33 1.33 1.68 1.40	86 53 -1.71	2.13 1.83 1.80 2.99 2.54	48 -1.30 48	48.67 49.72 55.44	9.44 7.45
ROCKYMOUNT ROSE HILL SALTVILLE SALTVILLE SALTVILLE ALKALI WORKS SALUDA	3.17 7.58 2.86 3.25	19	2.41 3.12 2.48 2.61 3.25	80 - -1.00 59	4.84 3.19 3.36 2.49	-1.07 -1.64	4.93 4.41 4.43 3.10	1.39 81	4.04 2.82 3.63 6.30	18 2.98	4.11 2.96 3.01 4.34	-1.25 .07	8.85 6.84 6.94 4.67	1.91 -1.33	3.44 8.33 8.96 7.99	4.58 3.45	1.84 1.64 2.17 3.86	- - 77 .48	2.51 6.35 2.61 2.77	-1.35 - 05	2.56 3.06 3.53 2.99	- .98 .89	4.75 2.59 2.65 1.92	84 -1.51	56.41 43.79 47.31	3.35
SLATE SMITHFIELD SOMERSET SPEEDWELL SPRING CREEK	2.23 4.46 1.90 1.58		5.26 1.28 1.45 1.91	-	3.48 2.75 2.31 1.77 1.78	-	3.79 2.11 2.66 4.90	-	3.76 5.18 3.53 3.92 2.44	-	3.20 2.85 4.78 3.35 2.51		4.09 4.39 6.63 3.38 5.69	-	3.70 11.51 10.18 6.49 6.49	-	1.93 4.74 3,52 1.98 1.38	-	4.23 1.43 2.60 2.30 2.91	-	3.61 4.78 	-	2.23 2.55 2.99 0.96 2.11	-	49.78 36.46	. =
STAR TANNERY STATE FARM STAUNTON STONY CREEK STUART	2.96 3.48 4.13 2.03 4.84	1.29 1.79	1.82 2.85 1.15 2.93 3.05	-1,19 05	1.78 3.94	-1.36 25	2.03 2.68 3.35 2.44 6.01	.33	3.24 4.28 4.56 4.17 6.42	1.26	7,83 4,34 7,34 5,66 7,57	3.12	3.02 4.58 3.17 5.32	.35	6.33 3.71 11.82 12.33	- 38 6, 66	1,79 3,05 1,89 1,66 1,77	96 -2.12	3.00 4.44 3.24 1.69 3.61	.28 57	1.23 2.81 2.08 2.24 1.64	01 -1.34	1.63 2.62 1.89 - 2.70	75 -1.24	42.02 39.70 59.20	1.98 13.24
STUARTS DRAFT SUFFOLK LAKE KILBY SUGAR GROVE SWORDS CREEK TAZEWELL	1.95 2.96 3.15 2.53	1	4.78 2.24 3.13 2.73	-	2.02 3.24 2.71 2.99 3.10		2.81 1.95 6.98 4.94 3.99	-	4.43 7.60 2.80 4.07 3.36	1	8.70 7.38 4.36 3.14 5.63	-	4.49 9.86 6.24 4.93 5.35	-	3.63 8.76 6.87 5.12 4.38	-	3.71 2.04 2.62 1.92	=	V4.01 2.24 2.83 3.52 3.27	-	1.26 3.40 3.84 3.75 4.47	=	2.31 1.74 3.44 3.16	-	57.18 45.61 44.80 43.89	=
TIMBERVILLE TROUT DALE TYE RIVER URBANNA WB VIENNA DUNN LORING	3.49 3.85 5.63 2.70 5.22	1.24 2.40 81	1.41 3.03 2.42 2.81 3.20	64 28 -1.03	1.21 3.45 3.05	-1.59 - -1.08	2.87 8.68 3.25 1.62	.13 .44 -1.81		.73 -1.56	4.85 5.25 4.55 5.19	1.57 31 1.87	6.99	2.97 65 -1.59	5.51 7.48 7.00 6.07 3.75	1.83 1.53	1.75 2.26 3.52 3.16	.14	3.36 3.21 3.58 2.71 3.78	.55	1.22 3.98 0.79 2.67 0.75	77 -2.15 .57	4.33 2.19	33 41 -1.67	40.67 56.37 39.70	6.67 - - 6.16
WALKERS CHAPEL WALKERTON WALLACE WALLACETON LK DRUMMOND WASHINGTON VIRGINIA	4.94 3.80 3.91 1.86 3.84	35 -1.74	2.99 2.79 2.68 4.17 1.27	.55	3,29 2,65 3,39 4,26	88 .01	2.74 2.32 4,41 3.38 4.20	83 78	6.18 4.11 2.67 6.93 5.19	.28 3.10	2.40 5.12 4.45 7.69 6.10	.99 2.79	8.98 7.08 4.75	-1.46	5.77 6.21 7.09 10.71 7.85	1.80 5.27	3.70 3.52 2.38 4.37	.33	3.35 2.59 3.39 5.85	.42	73.62 2.44 2.52 2.03 0.51	- <u>.</u> 63 - <u>.</u> 87	2.05 1.89 2.97 3.25 1.58	79 -	72.67 42.10 48.04 59,12	7.93
WASHINGTON WB CITY DC WASHINGTON WB NAT AP WATERFORD WAVERLY HILLS WHITE GATE	5.02 5.08 4.94 5.00 3.14	1.47	3,27 2,68 2,78 2,98 2,28	.00 59 - -	3.96 3.42 1.18 3.25 1.96	21 33 - -	2.01 1.94 3.08 3.03 5.35	-1.26 -1.33 - - -	5.65 6.33 6.96 6.07 2.75	1.95 2.63 - -	1.85 2.42 2.37 2.78 8.39	-2.28 -1.71 -	6.54 5.31 5.77	14 49 -	4.57 4.09 3.84 4.44 8.71	.56 .08 -	3.55 3.49 3.54 4.13 1.42	.31 .25 - -	3.21 3.27 2.66 J.58 2.90	.37	0.74 0.94 0.98 0.70 2.46	-1.63 -1.43	1.72 1.98 2.76 1.76 2.22	-1.60 -1.34	41.63 43.03 47.35	- 2.04 - 2.30 -
WHITETOP MOUNTAIN WILLIAMSBURG 2 NW WILLIAMSBURG WILLIAMSVILLE WINCHESTER RESEARCH LAR	4.19 1.63 1.58 3.98 3.68	-2.11 - 1.15	3.25 3.21 4.20 1.95 2.08	17 - 01	3.77 1.40 1.68 1.90 0.92	-2.63 -1.96	6.86 2.46 2.05 4.29 2.12	-1.32	4.58 4.37 4.59 4.84 7.01	3.17	3.33 5.59 4.75	53	13.03 5.25 4.05 6.50 3.72	95 - .26	11.23 6.28 8.51 5.46 7.73	.45 - 4.05	2.49 3.95 1.99 2.96 2.45	.11	3.91 1.78 1.65 4.52 3.28	-1.03 - .40	4.73 2.75 - 2.51 1.56	.35	2.55 1.13 1.61 3.44 1.88	-2.18 - 76	64.43 38.39 47.94 41.18	- 8,93 - 5,41
WOODSTOCK WYTHEVILLE P O BLDG	3.89 2.82	1.36 26	1.97	02	-	-	V3.73 4.89	.13 1.90	4.45 2.17	1.16 -1.49	4.37	.46 .64	3.82 5.48	.46 1.48	6.21 6.59	2.43 2.40	1.31	-1.18 -	2.35 2.66	31 18	1.43 3.04	37 .90	2.27 2.56	01 36	35,80	+2.23

### TEMPERATURE EXTREMES AND FREEZE DATA

Station	Highest	Date	Lowest	Date		t spring minimum			rst fall minimum		1	No. of days between dates	1
	Hic				24° or below	28° or below	32° or below	32° or below	28° or below	24° or below	24° or below	28° or below	32° or below
LEXANDRIA POTOMAC YDS NNANDALE SHLAND ALCONY FALLS ARCROFT	99 97 97	7- 5+ 8-10 7- 5	18 12 - 13	12-17 12-16+ - 3- 1+	3-19 (24°) 3-20 (23°) 3-19 (23°) 3-20 (24°) 3-14 (24°)	3-19 (24°) 3-20 (23°) 3-19 (23°) 3-20 (24°) 3-14 (24°)	3-24 (31°) 3-21 (28°) 4-17 (30°) 4-20 (30°) 4-17 (31°)	11- 7 (29°) 10-27 (32°) 11- 6 (26°) 11- 6 (28°) 11- 6 (25°)	11-25 (25°) 11- 6 (24°) 11- 6 (26°) 11- 6 (28°) 11- 6 (25°)	12- 4 (24°) 11- 6 (24°) 11-22 (22°) 11-23 (20°) 11-23 (20°)	260 231 248 248 254	251 231 232 231 237	228 220 203 200 203
EDFORD IG MEADOWS LACKSBURG LACKSTONE AIRPORT RISTOL	98 89 92 99	8-12 8-13 7-28 7-25+ 7-4	10 3 10 18 14	12-17 1-30+ 3- 1 12-17 3-16	3-20 (23°) 4-17 (18°) 3-20 (22°) 3-16 (21°) 3-16 (14°)	3-21 (25°) 4-19 (26°) 4-17 (26°) 3-20 (27°) 4-17 (25°)	4-19 (30°) 5-29 (32°) 4-25 (31°) 4-17 (30°) 4-25 (31°)	10-20 (32°) 9-30 (32°) 10-27 (31°) 11-6 (28°)	11-15 (28°) 11- 1 (28°) 11- 5 (28°) 11- 6 (28°)	11-22 (20°) 11-4 (24°) 11-19 (23°) 11-23 (24°)	247 201 244 252	239 196 202 231	184 133 185 203
UCHANAN UGGS ISLAND DAM URKES GARDEN AMP LEE APE HENRY	97 99 88 97 96	7-28 7-29 7-27 6-27+ 7-22	10 16 6 16 27	12-17 12-17 12-16 12-17 3- 1	3-16 (20°) 3-23 (16°) 4-10 (21°) 3-16 (17°)	4-10 (28°) 3-19 (27°) 5-29 (27°) 3-16 (17°)	4-25 (30°) 3-21 (31°) 5-30 (32°) 4-17 (32°) 3- 3 (30°)	11- 2 (30°) 11- 5 (32°) 9-25 (29°) 11- 6 (27°) 11-22 (31°)	11- 6 (25°) 11- 6 (27°) 11- 4 (27°) 11- 6 (27°) 3- 1 (27°)	11-22 (20°) 12-3 (18°) 11-6 (21°) 12-3 (23°) None	251 255 210 232	210 232 159 235	191 229 118 203 264
ARDINAL ATAWBA SANATORIUM HANTILLY HARLOTTE COURT HOUSE HARLOTTESVILLE 2 W	97 90 98 -	7-25 7- 7+ 7- 4 -	14 10 -	3- 1 2- 3	3-19 (22°) 3-20 (21°) 3-20 (23°) 3-19 (23°) 3-20 (24°)	3-20 (28°) 3-20 (21°) 3-20 (23°) 3-21 (25°) 3-20 (24°)	3-20 (28°) 5-29 (32°) 4-29 (31°) 4-20 (31°) 4-17 (32°)	11- 6 (31°) 9-25 (31°) 10-27 (31°) 11-18 (28°) 11- 6 (31°)	11-19 (26°) 11-17 (25°) 11- 6 (24°) 11-18 (28°) 11-22 (26°)	11-23 (21°) 11-22 (20°) 11- 6 (24°) 11-23 (24°) 11-23 (24°)	249 247 231 249 248	244 242 231 242 247	231 119 119 212 203
HATHAM 4 N HERITON LARKSVILLE OLUMBIA ROZET 2 N	98 99 99 98 96	7-28+ 6-25+ 7-28+ 7- 6+ 8-11	13 - 12 - -	12-17 12-18*	3-20 (23°) 	3-21 (26°) 3-19 (28°) 2-24 (28°) 3-21 (27°) 3-21 (28°)	4-17 (31°) 3-19 (28°) 2-27 (30°) 4-25 (30°) 4-17 (30°)	11- 6 (27°) 11-23 (26°) 11- 6 (24°) 11- 6 (25°) 11- 6 (29°)	11-6 (27°) 11-23 (26°) 11-6 (24°) 11-6 (25°) 11-22 (27°)	11-23 (23°) 	248 - 268 243 248	230 249 256 230 246	203 249 253 195 203
ULPEPER AHLGREN PROV GROUND AALE ENTERPRISE ANTE ANVILLE	97 96 93 94 101	7-28 7-6 6-6 6-25+ 8-11	13 17 11 12 14	12-17 12-17 12-16 12-15 12-17	3-19 (23°) 3-4 (24°) 3-20 (17°) 3-17 (18°) 3-16 (23°)	3-22 (29°) 3-19 (26°) 4-20 (28°) 3-20 (25°) 3-21 (27°)	3-22 (29°) 3-21 (30°) 4-29 (32°) 4-25 (30°) 4-20 (32°)	11- 6 (28°) 11- 6 (31°) 11- 2 (31°) 11- 3 (31°) 11- 4 (31°)	11- 6 (28°) 12- 3 (26°) 11- 6 (25°) 11- 6 (26°) 11- 6 (26°)	11-23 (19°) 12- 9 (23°) 11-22 (23°) 11-19 (22°) 11-23 (22°)	249 250 247 247 252	229 259 200 231 230	229 230 187 192 198
ANVILLE AIRPORT IAMOND SPRINGS LKWOOD 7 S MORY PISCOPAL HIGH SCHOOL	102 99 97 97 97	7-28 7-25 7- 5+ 7- 5	14 25 7 - 18	12-17 2- 3+ 12-17 - 1-30+	3-16 (24°) 3-20 (20°) 3-19 (23°)	3-20 (28°) 3-16 (27°) 4-20 (27°) - 3-20 (27°)	4-17 (30°) 3-20 (30°) 4-29 (29°) - 3-21 (30°)	11- 4 (32°) 11-23 (25°) 11- 2 (29°) 11-16 (32°) 11- 6 (30°)	11- 6 (28°) 11-23 (25°) 11- 6 (21°) - 11-22 (28°)	11-23 (23°) 11-6 (21°) 11-23 (25°)	252 - 231 - 249	231 252 200 - 247	201 250 187 -
ARMVILLE LOYD REDERICKSBURG RONT ROYAL AIRPORT LEN LYN	99 92 99 96 94	8-10 7-29 6-27 7- 5+ 7- 7	9 10 11 8 11	12-17 3- 1+ 12-16+ 2- 3 2- 2+	3-20 (21°) 3-20 (20°) 3-19 (21°) 3-20 (16°) 3-20 (21°)	4-20 (28°) 4-20 (28°) 3-20 (26°) 3-21 (28°) 3-21 (26°)	4-29 (31°) 4-25 (30°) 4-20 (31°) 4-29 (32°) 4-25 (31°)	11- 6 (23°) 11- 2 (27°) 11- 2 (32°) 10-27 (30°) -11- 2 (31°)	11- 6 (23°) 11- 2 (27°) 11- 6 (25°) 11-16 (25°) 11-14 (28°)	11-6 (23°) 11-19 (22°) 11-21 (23°) 11-22 (19°) 11-22 (24°)	231 244 247 247 247	200 196 231 240 238	191 191 196 181 191
ORDONSVILLE 6 S REENWAY DOWNS ALIFAX OLLAND 1 E OPEWELL	98 96 98 97 99	7- 5+ 7- 6+ 7-29+ 6-23+ 6-27	5 - 13 19 17	12-17 - 12-17 2- 3 12-17	3-21 (22°) 3-19 (22°) 3-16 (24°) 3-16 (20°) 3-16 (20°)	4-20 (27°) 3-21 (28°) 3-21 (27°) 4-10 (28°) 3-19 (28°)	4-29 (32°) 3-21 (28°) 4-25 (31°) 4-17 (30°) 4-27 (32°)	11- 5 (28°) 11- 6 (27°) 11- 6 (25°) 11- 6 (32°) 11- 6 (28°)	11- 5 (28°) 11- 6 (27°) 11- 6 (25°) 11-19 (26°) 11- 6 (28°)	11-6 (21°) 11-23 (20°) 11-23 (20°) 11-22 (22°) 11-19 (23°)	230 249 252 251 248	199 230 230 223 232	180 230 195 203 193
OT SPRINGS ANGLEY AIR FORCE BASE EE EXP FOREST EXINGTON INCOLN	91 97 - 93 99	6-22 6-26+ - 7-27+ 7-5	11 24 - 13 13	12-16 3- 1 - 12-17 2- 3+	3-21 (18°) 3- 1 (24°) 2-18 (22°) 3-20 (22°) 3-20 (21°)	4-25 (28°) 3-16 (27°) 2-26 (26°) 3-21 (28°) 3-20 (21°)	4-25 (28°) 3-16 (27°) 2-28 (31°) 4-20 (30°) 4-17 (30°)	11- 2 (30°) 11-22 (30°) - 11- 6 (26°) 11- 6 (28°)	11- 6 (26°) 12- 4 (27°) - 11- 6 (26°) 11- 6 (28°)	11-22 (19°) None - 11-22 (24°) 11-23 (18°)	246 304 - 247 248	193 263 - 230 231	191 251 - 200 203
OUISÅ URAY YNCHBURG WB AIRPORT ANASSAS 4 S ARTINSVILLE FILT PL	98 96 95 98 98	7- 6+ 7- 6 7-26+ 7-28+ 7-28+	11 8 16 - 8	12-17 12-16 12-17 	3-20 (21°) 3-20 (11°) 3-16 (21°) 3-21 (21°) 3-22 (21°)	4-17 (28°) 4-17 (27°) 3-20 (26°) 3-21 (21°) 4-25 (28°)	4-29 (32°) 5-27 (31°) 4-17 (30°) 4-25 (29°) 4-25 (28°)	10-28 (32°) 10-27 (28°) 11-6 (28°) 10-27 (30°) 11-3 (30°)	11- 6 (23°) 10-27 (28°) 11- 6 (28°) 10-28 (28°) 11- 6 (21°)	11- 6 (23°) 11- 6 (23°) 11-23 (21°) - 11- 6 (21°)	200 200 252 - 229	203 193 231 221 193	213 153 203 185 192
ONS ONTEBELLO ONTEREY OUNT JACKSON OUNT WEATHER	88 - 89 96 92	7- 5+ - 7- 5+ 7- 5+ 7-31	9 8 7 10 12	3- 1 3- 1 3- 2+ 12-16+ 3- 1+	3-17 (20°) 4-17 (24°) 3-20 (14°) 3-20 (17°) 3-21 (22°)	4-17 (28°) 4-17 (24°) 4-25 (27°) 4-17 (28°) 4-28 (27°)	4-25 (32°) 4-25 (29°) 5-27 (29°) 4-20 (30°) 4-28 (27°)	11- 1 (30°) 11- 2 (31°) 9-25 (31°) 10-27 (30°) 11- 2 (31°)	11- 6 (24°) 11- 4 (27°) 10-27 (26°) 11- 6 (25°) 11-18 (28°)	11-23 (19°)	234 203 231 248 247	203 201 185 203 204	190 191 121 190 198
EW CANTON EWPORT NEWS ORFOLK WB AIRPORT ORFOLK WB CITY NLEY 1 S	95 101 97 98 99	6-25+ 6-27+ 6-26+ 6-26+ 7-30	9 26 26 26 21	12-17 3- 1 1- 3+ 3- 1 2- 3	3-19 (22°) None None None 2- 4 (23°)	3-21 (26°) 3-16 (27°) 3-16 (27°) 3-16 (28°) 3-20 (26°)	4-25 (30°) 3-19 (30°) 3-20 (30°) 3-19 (32°) 3-20 (26°)	11- 6 (24°) 11-26 (32°) 11-22 (28°) 11-23 (32°) 11-19 (32°)	11- 6 (24°) None 11-22 (28°) None 11-23 (22°)	11- 6 (24°) None None None 11-23 (22°)	232 365 365 365 293	230 289 251 289 248	193 252 247 249 244
ENNINGTON GAP 1 W HILPOTT DAM HELMONT FIELD STATION ULASKI AIRPORT UANTICO 1 S	92 98 90 99	6-25+ - 7-27+ 7-28+ 8-11	13 - 12 10 13	3-16 	4-18 (24°) 2-21 (22°) 3-20 (23°) 3-20 (22°) 3-19 (24°)	4-18 (24°) 2-21 (22°) 4-17 (27°) 4-20 (25°) 3-20 (25°)	4-25 (31°) 2-21 (22°) 4-17 (27°) 4-25 (31°) 3-22 (32°)	11- 2 (32°) 11- 2 (31°) 11- 6 (24°) 9-25 (32°) 11- 6 (26°)	11- 6 (22°) 11- 7 (25°) 11- 6 (24°) 11-16 (27°) 11- 6 (26°)	11-2 (26°) 11-17 (24°) 11-6 (24°) 11-19 (23°) 11-22 (22°)	200 244	202 257 203 213 231	191 253 203 153 229
ICHMOND WB RE BYRD FLD ICHMOND WB CITY OANOKE OANOKE WB WOODRUM FLD OCKY KNOB	99 97 96 96 87	6-26+ 6-27 7-28+ 7-28 7-29	16 21 13 11 9	12-17 12-17 12-17 12-17 3- 1	3-16 (19°) 3-23 (16°) 3-16 (22°) 3-20 (24°) 3-13 (16°)	3-19 (26°) 3-19 (27°) 3-21 (28°) 3-21 (29°) 3-20 (21°)	4-17 (31°) 3-20 (32°) 4-20 (30°) 4-20 (30°) 4-25 (32°)	11- 6 (27°) 11- 6 (32°) 11- 6 (30°) 11- 6 (32°) 11- 2 (32°)	11-6 (27°) 11-22 (28°) 11-22 (25°) 11-19 (28°) 11-4 (28°)	12-3 (23°) 12-16 (23°) 11-23 (21°) 11-22 (24°) 11-19 (23°)	247	232 232 246 243 229	203 231 200 200 191
SALTVILLE ALKALI WORKS SALUDA STAUNTON STUART SUFFOLK LAKE KILBY	95 94 93 97	7- 6 - 7- 7 7-28 6-27+	16 - 11 10 19	3-16+ 2- 3+ 12-16 3-16	3-17 (17°) 3-16 (21°) 3-20 (20°) 3-16 (20°) 3-16 (19°)	4-17 (27°) 3-20 (27°) 3-20 (20°) 3-20 (26°) 3-20 (27°)	4-20 (31°) 3-22 (32°) 4-25 (30°) 4-19 (31°) 4-17 (31°)	11- 6 (26°) 11-22 (28°) 11- 2 (32°) 11- 6 (28°) 11- 6 (30°)	11- 6 (28°)	11-22 (23°) 11-19 (23°)	247 248	203 247 231 231 243	200 245 191 201 203
SUGAR GROVE FIMBERVILLE FRBANNA WB VALKERTON VASHINGTON DC WB CITY	89 95 96 96 100	7- 5+ 7- 6 8-11+ 6-26+ 7- 5	5 10 20 14 19	3-16 2- 3 4-17 12-17 1-30	4-20 (20°) 3-20 (16°) 3-16 (23°) 3-19 (24°) 3- 1 (23°)	4-20 (20°) 4-20 (27°) 3-16 (23°) 3-21 (27°) 3-19 (26°)	5-12 (32°) 4-29 (31°) 4-17 (32°) 4-17 (32°) 3-20 (30°)	9-24 (31°) 10-27 (31°) 11-6 (29°) 11-6 (27°) 11-6 (32°)	11-19 (28°) 11- 6 (27°)	11-23 (22°)	249	198 200 248 230 249	135 181 203 203 234
VASHINGTON WB NAT AP VATERFORD VAVERLY HILLS VINCHESTER RESEARCH LAB	97 90 98 96 96	8-11 8-28 7- 5+ 7-23 7- 5+	21 14 18 16 14	1-30+ 2- 3 1-30 12-17 1-30+	3-21 (23°) 3-19 (21°) 3-16 (17°)	3-19 (26°) 3-21 (23°) 3-20 (27°) 3-19 (27°) 3-21 (28°)	3-20 (30°) 4-17 (32°) 4-17 (32°) 4-20 (30°) 4-17 (29°)	11- 6 (31°) 11- 6 (31°) 11- 6 (27°) 11- 6 (28°) 11- 6 (31°)	11- 6 (27°) 11- 6 (28°)	11-23 (24°) 11-19 (23°)	248	249 246 231 232 246	234 203 203 200 203
YOODSTOCK YYTHEVILLE P O BLDG	96 92	7- 5+ 7-28	11 11	2- 3 12-24	3-20 (19°) 3-18 (24°)	3-21 (28°) 3-20 (25°)	4-17 (30°) 4-25 (31°)	10-27 (32°) 11- 4 (30°)	11-16 (27°) 11- 6 (27°)	11-23 (18°) 11-21 (24°)	248 248	240 231	193 195

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• Station	No.	County	age	de	1	Longitude	tion	re	ears o		or cl durir	ened osed ig yr.	Refer to	
	Index		Drainage	Latitude	•	6 9	Elevation	Temp.	Preci	Evap.	Month	Month	tables	
ABINGDON APTON BOXWOOD GARDENS ALEXANDRIA POTOMAC YARDS ALTA VISTA AMISSVILLE	0013 0055 0097 0166 0193	NELSON ARLINGTON	14 34 29 35 35	36 42 38 02 38 49 37 06 38 41	77 79	00 50 03 18 01	2000 1280 20 503 550	12	B 19 12 4 6				2 2 1 2 3 2 2	
ANNAMDALE APPOMATTOX ASHLAND AUGUSTA SPRINGS BACON NR FAIRFAX	0216 0243 0327 0356 0390	APPONATTOX HANOYER	29 16 9 6 29	37 46 38 06	78 77 79	12 50 29 18 21	310 825 220 1700 380	37	3 11 37 8 7			MAR	1 2 3 2 1 2 3 2 2	
BALCONY FALLS BARCROFT BEDFORD BERRYVILLE BIG KNOB	0411 0449 0551 0670 0712	ARLINGTON BEDFORD CLARKE	16 29 27 38 14	37 38 38 52 37 20 39 09 36 40	77 79 77	27 06 32 59 30	725 190 950 580 3150	2 3 21	18 3 35 7 14				1 2 3 1 2 3 1 2 3 2 2	-
BIG MEADOWS BIG MEADOWS NO 2 BLACKSBURG BLACKSTONE AIRPORT BREWO BLUFF POWER PLANT	0720 0725 0765 0773 0993	MONTGOMERY	33 23 25 16	38 31 38 30 37 15 37 04 37 42	78 80 77	26 25 25 57 18	3420 3300 2170 440 225	14 57 4	14 57 4 9			ocr	1 2 3 1 2 3 1 2 3 2 2	
BRISTOL BRISTOL NB BUCHANAN BUCKINGHAM BUENA VISTA	1037 1047 1121 1136 1159	BOTETOURT BUCKINGHAM	14 14 16 39 20	36 36 36 37 37 32 37 33 37 44	82 79 78	10 10 41 33 21	1998 1920 875 550 835	16 31	16 1 48 14 12				1 2 3 2 1 2 3 2 2	
BUGGS ISLAND DAM BURKES GARDEN BYLLESBY CAMP LEE CAPE HENRY	1180 1209 1255 1316 1362	TAZEWELL, CARROLL PRINCE GEORGE	35 23 23 1 2	36 36 37 06 36 48 37 14 36 56	81 80 77	18 20 55 20	326 3250 2075 60 16	2 52 4 75	2 54 6 4 75				1 2 3 1 2 3 2 1 2 3 1 2 3	
CAPRON CARDINAL CATAWBA SANATORIUM CHANTILLY CHARLOTTE COURT HOUSE	1375 1383 1471 1570 1585	ROANOKE FAIRFAX	25 8 7 29 35	36 44 37 25 37 23 38 53 37 03	76 80	26	100 10 1900 320 560	9 2 38 2 3	9 2 38 2 3				1 2 3 1 2 3 1 2 3 1 2 3 1 2 3	
CHARLOTTESVILLE 2 W †CHARLOTTESVILLE 1 W CHASE CITY †CHATHAM 2 YE CHATHAM SCS	1593 1598 1606 1614 1619	ALBEMARLE MECKLENBURG PITTSYLVANIA	34 34 35 3	38 02 38 02 36 36 36 50 36 45	78 78 79	31 30 31 22 25	870 530 500 700 852	6 2 26	73 2 26 3				1 2 3 2 1 2 3 1 2 3	
CHERITON CHINCOTEAGUE CHURCHVILLE CLARENDON LYON PARE CLARESVILLE	1729	NORTHAMPTON ACCOMAC AUGUSTA ARLINGTON MECKLENBURG	2 38 29 35	37 17 37 56 38 14 38 54 36 38	75 79 77	58 26 10 05 24	11 26 1475 225 286	13 30	22 8 23 58				1 2 3 2 2 2 2 1 2 3	
CLEVELAND CLIFTON FORGE CLINCEPORT COLUMBIA COOTES STORE	1776 1801 1816 1929 1986	RUSSELL ALLEGHANY SCOTT FLUVANNA ROCKINGHAM	10 15 10 16 38	36 57 37 49 36 40 37 46 38 38	82 78	09 50 45 09 51	1540 1055 1260 300 1050	47	16 25 54 51 7				2 2 2 1 2 3	
COPPER HILL COVINCTON CROZET 2 % CULPEPER DABLGREN PROVING GROUNDS	1999 2041 2138 2155 2195	ALBEMARLE	23 15 34 32 29	37 05 37 48 38 05 38 28 38 20			2800 1245 750 475 18	7 40 30	9 12 7 42 30				2 2 1 2 3 1 2 3 1 2 3	
DALE ENTERPRISE DAMASCUS DANTE DANVILLE DANVILLE AIRPORT	2208 2216	ROCKINGHAM WASHINGTON RUSSELL PITTSYLVANIA PITTSYLVANIA	38 14 10 13 13	38 27 36 38 36 59 36 36 36 34	81 82 79	56 48 18 23 20	1350 1950 1765 580 590	67 31 32 6	69 23 32 59 6				1 2 3 2 1 2 3 1 2 3 1 2 3	
†DARWIN DAVENPORT DERFIELD 2 N DELAPLANE DIAMOND SPRINGS	2264 2269 2315 2326 2368	BUCHANAN	12 37 6 29 8	37 05 37 07 38 15 38 55 36 54	82 79 77	30 06 24 55	1500 1600 1750 500 25	41	1 8 23 8 41		SEPT		2 2 2 2 1 2 3	
DRIVER 5 NE DUNBAR DUNGANNON ELEWOOD 7 S EMORY	2504 2538 2548 2729 2782	WISE	22 10 10 33 14	36 52 36 58 36 50 38 26 36 46	82 82 77	30 45 26 46 51	17 2000 2500 314 2205	9 24	7 15 15 9 25				2 2 2 1 2 3 1 2 3	
ENPORIA 1 WAW EPISCOPAL HIGH SCHOOL FAIRFAX FPALLS CHURCH FARMYILLS	2790 2809 2890 2922 2941	GREENVILLE FAIRPAX FAIRPAX PAIRPAX PRINCE EDWARD	21 29 29 29	36 41 38 49 38 51 38 53 37 18	77 77 77	33 06 18 11 23	80 250 440 315 450	3 1 28	19 3 1 1 30		APR DEC		1 2 3 2 1 2 3 1 2 3 1 2 3	
FIELDALE FLOYD FLOYD NO 2 FORAKER FREDER ICKSBURG	2983 3071 3072 3082 3192	HENRY FLOYD FLOYD DICKINSON SPOTSYLVANIA		36 43 36 55 36 55 37 05 38 18	80 80 82	57 19 18 30 28	875 2600 2600 1500 100	17 56	6 17 1 9 58		жоч	ASG	1 2 3 2 2 2 1 2 3	
FREDERICKSBURG EMBRY PLANT FRONT ROYAL 6 NW GALAX GLEN LYN GORDONSVILLE 6 S	3231 3267 3397	SPOTSYLVANIA WARREN GRAYSON GILES LOUISA	38 23 23	38 19 39 00 36 39 37 20 38 04	77 78 80 80 78	14 55 49	25 677 2380 1524 438	11 17	3 11 8 36 11				2 1 2 3 2 1 2 3 1 2 3	
GOSHEN GREENWAY DOWNS GROSECLOSE GRUNDY HALIFAX	3470 3583 3623	ROCKBRIDGE PAIRPAX WYTHE BUCHANAN HALIFAX		37 59 38 53 36 53 37 16 36 46	77 81 82		1300 337 2520 1044 425	3	10 3 7 1		Jan	DEC	1 2 3 2 2 2 2 1 2 3	
HAYSI HIGH KNOB HILLSVILLE HOG ISLAND LITTLE MACHIPONGO HOLLAND 1 E	3862	DICKINSON	37 10 23 2 4	37 13 36 54 36 46 37 28 36 41	82 82 80 75 76	38	1500 4150 2570 5 80	8 17	8 14 7 8 17				2 2 2 1 2 3 1 2 3	
HOLSTON HOMAKER HOMAKER MEAR HOPEWELL HOT SPRINGS	4068 4078	WASHINGTON RUSSELL RUSSELL PR GEORGE	14 10 10 16 16	36 50 37 01 37 03 37 18 38 00	81 82 77	59 02 18	3450 1950 2150 40 2195	57 56	15 14 15 62 58				2 2 2 1 2 3 1 2 3	
HURLEY INDEPENDENCE INDIAN VALLEY JEWELL RIDGE JONESVILLE	4185 4229 4246 4404 4446	BUCHANAN GRAYSON FLOYD TAZEWELL	42 23 23 10 10	37 26 36 36 36 54 37 11 36 41	82 81 80 81	02 07 34 47	995 2540 2700 2750 1525		3 9 9 15				2 2 2 2 2 2	
JONESVILLE 2 SSE JORDAN MINES KERRS CREEK LANGLEY AIR FORCE BASE LAWRENCEVILLE	4448 4452 4565 4720 4768	ALLEGHANY ROCKBRIDGE	10 30 20 8 21	36 40 37 41 37 51 37 04 36 46	80 79	06 05 31 22 51	1375 1350 1400 9 254	64 4	3 8 8 113 4				2 2 2 1 2 3 1 2 3	
LEE EXPERIMENTAL FOREST LEESBURG LEXINGTON LINCOLN LOUISA	4802 4817 4876 4909 5050	BUCKINGHAM LOUDOUN ROCKBRIDGE LOUDOUN	39 29 20 29 24	37 32 39 07 37 47 39 07	78 77 79 77	33 34 26 43	500 321 1060 500 437	8 71 48 34	8 4 78 49 34				1 2 3 2 1 2 3 1 2 3 1 2 3	
LOVES MILL LURAY LYNCHBURG 7TH ST BRIDGE LYNCHBURG WB AIRPORT MANASSAS 4 3	5057 5096 5115 5120 5208	WASHINGTON PAGE CAMPBELL CAMPBELL	14 38 16 16 26	36 45 38 40 37 25 37 20	81 78 79 79	41 23 09 12 26	2060 1120 947 172	8 78 2	15 8 78 33				2 1 2 3 2 1 2 3 1 2 3	

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Station	Index No.	County	Drainage	Latitude	Longitude	Elevation	Temp.	Precip.	Evap.	Month	Month	to tables
MANION NE PAIRPAX MARION MARSHALL MARTINSVILLE PILTER PLANT MC GAHRYSVILLE 3 S	5218 5266 5289 5300 5423	PAIRPAX SMYTH PAUQUIER HENRY ROCKINGHAM	29 14 33 40 36	38 51 36 51 38 52 36 42 38 21	77 21 81 31 77 53 79 52 78 44	450 2200 575 760 1080	12	7 43 4 19 8				2 2 2 1 2 3 2
MENDOTA MONS MONTEBELLO MONTEBELLO FISH NURSERY MONTEREY	5501 5677 5685 5690 5698	WASHINGTON BEDFORD NELSON NELSON HIGHLAND	14 27 20 20 29	36 42 37 27 37 54 37 51 38 25	82 18 79 37 79 06 79 07 79 36	1350 2505 2500 2700 2950	4 4 8	42 4 12 7 24				2 1 2 3 1 2 3 2 1 2 3
MOORES CREEK DAM MOUNT JACESON MOUNT WEATHER NATURAL BRIDGE STATION NEW CANTON	5729 5822 5851 5941 6004	ROCKERIDGE SHENANDOAH LOUDOUN ROCKERIDGE BUCKINGHAM	20 38 29 16 16	37 45 38 50 39 04 37 35 37 42	79 38 78 39 77 55 79 31 78 18	1780 1050 1725 800 300	2 45 54	14 12 46 7 56		:		1 2 3 1 2 3 2 3 1 2 3
NEW CASTLE NEWPORT NEWPORT NEWS NORFOLK WB AIRPORT NORFOLK WB CITY	6012 6046 6054 6139 6144	CRAIG NEW WARWICK PRINCESS ANNE NORPOLK	11 23 16 8	37 30 37 19 36 59 36 53 36 51	80 06 80 31 76 26 76 12 76 17	1300 1900 25 25 11	28 4 79	12 4 28 4 79				2 2 1 2 3 1 2 3 1 2 3
NORTH BRISTOL SUBSTATION NORTH BIVER DAM OLINGER ONLEY 1 S ORANGE 1 SW	6169 6199 6345 6362 6383	Wash Ington Augusta Lee Accomac Orange	14 38 10 2 24	36 37 38 21 36 49 37 41 38 14	82 11 79 16 82 52 75 43 78 06	1740 1918 1400 40 514	32	19 15 32 37				2 2 2 1 2 3
PEDLAR DAM PENNINGTON GAP 1 W PHILPOTT DAM PIEDMONT FIELD STATION PILOT	6593 6626 6691 6712 6723	AMHERST LEE HENRY ORANGE MONTGOMERY	28 31 40 24 23	37 41 36 46 36 47 38 13 37 03	79 17 83 02 80 02 78 06 80 22	800 1386 831 500 2200	18 2 2	15 18 2 3 8				1 2 3 · 1 2 3 1 2 3 1 2 3
PINNACLES MEADOWS OF DAN POOR MOUNTAIN PULASKI PULASKI AIRPORT QUANTICO 1 S	6750 6838 6955 6960 6979	PATRICK ROANGEE PULASKI PULASKI PRINCE WM	13 35 23 23 29	36 41 37 12 37 02 37 05 38 30	80 25 80 09 80 47 80 47 77 19	2820 3960 1850 2190	1 11 49	16 1 8 11 45		JUNE		1 2 3 2 1 2 3 1 2 3
RADFORD RANDOLPH RAPDIAN RICHMOND WB R E BYRD FIELD RICHMOND WB CITY	7004 7025 7033 7201 7206	MONTGOMERY CHARLOTTE ORANGE HENRICO HENRICO	23 35 32 16 16	37 08 36 54 38 18 37 30 37 32	80 34 78 43 78 04 77 20 77 45	1800 334 300 167 162	12 69	44 44 4 12 78				2 2 2 1 2 3 1 2 3
RIVERTON ROANOKE ROANOKE WB WOODRUM PIELD ROCEPISH ROCKY KNOB	7254 7275 7285 7312 7330	WARREN ROANGEE ROANGEE MELSON PLOYD	38 35 35 36 18	36 57 37 16 37 19 37 48 36 51	78 11 79 56 79 58 78 46 80 22	500 907 1176 500 3100	42 15	19 55 17 12 8				1 2 3 1 2 3 2 3 1 2 3
ROCKYMOUNT ROSE HILL SALTVILLE SALTVILLE ALEALI WORKS SALUDA	7338 7372 7501 7506 7514	Pranklin LRE Smyth Smyth Middlesex	35 10 14 14 33	37 00 36 40 36 53 36 53 37 36	79 54 83 22 81 46 81 46 76 36	1132 1475 1725 1735 107	56 31 8	56 16 28 33 8			•	1 2 3 2 2 1 2 3 1 2 3
SLATE SMITHFIELD SOMERSET SPEEDWELL SPRING CREEK	7843 7864 7904 7971 7996	BUCHANAN ISLE OF WEGHT ORANGE WYTHE TAZEWELL	17 16 32 23 10	37 16 36 59 38 14 36 49 37 00	81 56 76 38 78 15 81 10 81 39	1550 37 390 2340 3150		8 8 1 9				2 2 2 2 2 2
STAR TANNERY STATE FARM STAUNTON B and B INSTITUTE STONY CREEK STUART	8046 8054 8062 8129 8169	PREDERICE GOOCHLAND AUGUSTA SUSSEX PATRICE	38 16 38 25 41	39 05 37 38 38 09 36 57 36 38	78 26 77 51 79 04 77 24 80 16	950 185 1480 77 1350	57 25	7 11 63 7 25				2 2 1 2 3 1 2 3
STUARTS DRAFT SUFFOLE LAKE KILBY SUGAR GROVE SWORDS CREEK TAZEWELL	8172 8192 8200 8282 8354	AUGUSTA NANSEMOND SMYTH RUSSELL TAZEWELL	38 22 14 10 10	38 00 36 44 36 46 37 02 37 07	79 03 76 36 81 24 81 55 81 31	1450 23 2680 1900 2450	3 10	1 3 10 14 15		MAR		1 2 3 1 2 3 2 2
TIMBERVILLE TROUT DALE TYE RIVER URBANNA WB CITY †VIENNA DUNN LORING	8448 8547 8600 8642 8737	ROCE INGHAM GRAYSON NELSON MIDDLESEX PAIRPAX	38 23 43 33 29	38 38 36 42 37 40 37 38 38 54	78 45 81 26 78 57 76 35 77 13	1030 3100 551 31 370	13	18 14 11 13 1		JULY		1 2 3 2 2 1 2 3 2
VIENNA TYSONS CORNER WALKERS CHAPEL WALKERTON WALLACE WALLACETON LAKE DRUMMOND	8737 8821 8629 8833 8637	PAIRFAX ARLINGTON KING & QUEEN WASHINGTON NORFOLK	29 29 19 14 2	38 55 38 55 37 44 36 39 36 37	77 14 77 08 77 02 82 08 76 26	500 240 35 1885 25	16	4 3 17 14 24			JUNE	1 2 3 2 2 2 2
WASHINGTON VIRGINIA WASHINGTON WB CITY DC WASHINGTON WB NATIONAL APT WATERPOED WAVERLY HILLS	8902 8904 8906 8915 8938	RAPPAHANNOCK LOUDOUN ARLINGTON	33 29 29 29 29	38 43 38 54 38 51 39 11 38 53	78 10 77 03 77 02 77 36 77 07	650 72 64 525 340	9 4 3	4 9 4 3				2 1 2 3 1 2 3 1 2 3 1 2 3
WHITE GATE WHITETOP MOUNTAIN WILLIAMSBURG 2 NW WILLIAMSBURG WILLIAMSVILLE	9060 9094 9146 9151 9159	GILES WASHINGTON JAMES CITY JAMES CITY BATH	23 23 16 16 5	37 12 36 38 37 17 37 16 38 12	80 50 81 36 76 45 76 42 79 34	1850 5470 100 70 1700	54	8 3 49 4 9				1 2 3 2 2 2 2
WINCHESTER RESEARCE LAB WOODSTOCK WYTHEVILLE P O BLDG	9186 9263 9301	PREDERICK SHENANDOAH WYTHE	29 38 23	39 11 38 52 36 56	78 10 78 30 81 05	720 875 2299	44 51 46	43 57 76				1 2 3 1 2 3 1 2 3
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Paramirly Charletterville 1 00 prior to Septe Forumrly Chales 6 8 prior to Secondar Forumrly Terains prior to Secondar Forumrly Greatery Seems prior to Secondar Forumrly Greatery Seems prior to Secondar Forumrly Terain Terains (Terains Assessed to Secondary)

#### REFERENCE NOTES

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 Bureau type pan of 4 foot diameter unless otherwise shown by foot note following Table 4.

The four digit identification numbers in the Index are assigned on a state basis. There will be no duplication of numbers within a state. Figures and letters following the station name, such as (2 SSW) indicates distance in miles and direction from the Post Office.

Delayed data and corrections will be carried only in the June and December issues of Climatological Data.

_	No record.
+	Also later dates or months.
//	Gage is equipped with a windshield.
// B	Adjusted to full month.
E	Water equivalent of snowfall wholly
	or partially estimated, using a
	ratio of 1 inch water equivalent to
	every 10 inches of new snowfall.
М	l to 10 days' record missing; see
	monthly Climatological Data for de-
	tailed daily record.
R	Station equipped with a recording
	gage only,
T	Trace, an amount too small to measure.
v	Includes total for previous month.

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W.R.P.C., Chattanooga, Tennessee--- 7/11/50--- 1350