

CLIMATOLOGICAL DATA ANNUAL SUMMARY

VIRGINIA

1989

VOLUME 99 NUMBER 13



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noaa

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE NORTH CAROLINA

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA
1989

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
VIRGINIA												
TIDEWATER 01												
BACK BAY WILDLIFE REFU	3.75		6.21		8.41		4.19		4.37		5.32	
COLONIAL BEACH	1.71		3.08		5.48		3.63			M	4.36	
EMPORIA 1 WNW	2.29	-.95	4.41	1.12	7.59	4.13	7.07	4.17	3.26	-.63	7.54	4.06
FREDERICKSBURG NATL PK	1.97	-1.14	2.97	.09	5.10	1.26	2.88	-.18	3.38	4.91	6.84	3.20
HOLLAND 1 E	2.71	-1.34	5.07	1.52	9.19	5.22	6.63	3.58	4.23	.20	6.26	1.99
HOPWELL	1.95	-1.62	4.81	1.56	6.55	2.87	4.70	1.53	4.23	.41	4.29	.83
KILMARNOCK 1 N	1.86		4.39		8.63		4.27		3.87		6.49	
LANGLEY AIR FORCE BASE	2.46	-1.26	5.83	2.34	8.65	4.39	M			M	4.95	1.21
MATHEWS 2 ENE	2.28		4.48		8.38		4.82		3.28		4.71	
NORFOLK WSO AIRPORT	2.69	-1.03	5.80	2.52	8.50	4.64	3.62	.75	2.97	-.78	5.10	1.65
PAINTER 2 W	2.07	-1.34	4.32		5.74	1.61	4.27	1.35	2.74	-.73	4.26	.75
STONY CREEK 3 ESE	1.47		5.35		5.64		7.97		5.08			
SUFFOLK LAKE KILBY	2.97	-.93	5.44	1.80	7.98	3.87	5.60	2.65	4.28	.47	10.13	6.09
TANGIER ISLAND	1.86		4.11		7.40		4.85		2.27		3.74	
WAKEFIELD 2	1.40		3.41		7.50		8.01		2.82		7.72	
WALKERTON 2 NW	2.11	-1.21	4.63	1.45	5.32	1.65	4.31	1.37	5.72	1.86	4.65	.62
WALLACETON LK DRUMMOND	3.88	-.15	6.35	2.71	10.35	6.33	4.80	1.59	7.04	2.90	7.93	
WARSAW 2 NW	1.87	-1.30	4.72	1.98	5.45	1.94	4.19	1.23	4.97	.96	3.75	.06
WEST POINT 2 SW	1.76		4.78		7.88		4.62		4.21		3.98	
WILLIAMSBURG 2 N	2.25	-1.49	6.11	2.62	8.40	4.18	5.54	2.56	5.14	.74	7.94	3.73
--DIVISIONAL DATA-->	2.18	-1.33	4.89	1.66	7.25	3.32	5.07	2.15	4.22	.52	5.67	1.97
EASTERN PIEDMONT 02												
AMELIA 4 SW	1.70		4.24		5.10		4.83		4.42		6.13	
ASHLAND	1.72		4.40		4.73		3.39		4.90		6.62	
BREMO BLUFF	.95	-2.13	3.60	.52	3.10	-.71	3.92	1.00	5.46	1.73	4.87	1.27
BUCKINGHAM	1.16	-1.93	3.74	.80	4.96	1.24	5.22	2.07	6.65	2.85	10.32	7.00
CAMP PICKETT	1.64		4.62		5.54		5.49		4.13		6.27	
CHASE CITY	1.98	-1.78	4.74		5.17		6.88	3.75	4.82	1.39	8.19	4.62
CLARKSVILLE	1.46	-2.17	4.77		6.10	2.31	M		6.22	-1.47	7.55	3.94
CORBIN	1.92		2.98		5.19		3.05		6.94		3.48	
CROZIER	.93		3.46		4.34		3.60		4.69		5.88	
CUMBERLAND	1.17		4.05		4.38		4.60		6.22		6.38	
FARMVILLE 2 N	1.82	-1.64	4.95	1.65	5.02	1.13	4.82	1.66	5.85	2.03	8.38	4.75
GORDONSVILLE 3 S	2.25		3.11		4.72		2.74		8.26		7.43	
JOHN H KERR DAM	1.73	-1.67	6.02	2.77	9.02	5.43	6.04	3.05	3.44	-.13	5.27	1.87
KEYSVILLE 8 N	1.17		2.09		2.36		2.62		4.81		1.86	
LAWRENCEVILLE 5 W	1.85	-1.77	3.99	.31	5.16	1.17	M		3.93	-.45	5.93	1.92
LOUISA	1.49	-1.58	3.31	.24	5.54	1.73		-.63	6.44	3.05	8.74	4.80
PALMYRA 1 E	1.13		2.78		3.89		3.25		5.63		5.83	
POWHATAN	1.60		3.58		4.53		3.97		4.53		7.06	
RICHMOND WSO AIRPORT R	1.88	-1.35	4.34	1.21	5.00	1.43	4.27	1.37	5.02	1.47	5.85	2.25
WINTERPOCK 4 W	1.95		4.97		5.43		4.96		4.40		5.60	
--DIVISIONAL DATA-->	1.63	-1.69	4.25	1.06	5.25	1.49	4.43	1.34	4.97	1.31	6.30	2.64
WESTERN PIEDMONT 03												
ALTAVISTA	1.28	-1.93	3.25	.18	3.95	.35	4.63	1.71	5.76	1.95	5.50	2.25
APPOMATTOX	1.37	-1.63	4.86	1.78	4.12	.25	5.85	2.52	6.65	2.86	7.69	4.29
BEDFORD	1.65	-1.43	2.77	-.44	4.89	1.02	3.48	.19	10.19	6.39	8.06	4.18
CHARLOTTE COURT HSE 3W	1.62	-1.63	3.97	.81	4.42	.62	5.40	2.14	5.43	1.96	5.78	2.05
CHARLOTTESVILLE 2 W	1.65	-1.63	3.48	.30	4.59	.43	2.32	-.96	8.83	4.66	6.88	2.97
CHATHAM	1.88	-1.53	2.54		4.67	.51	4.01	.47	5.61	1.72	9.35	5.75

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA
1989

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
VIRGINIA														
TIDEWATER 01														
BACK BAY WILDLIFE REFU	4.24		11.73		5.13		4.52		4.76	M	4.77		M	67.40
COLONIAL BEACH	7.92		1.41		5.15		3.84		2.48	M				
EMPORIA 1 WNW	5.09	.18	4.30	-.12	2.04	-1.61	2.83	-.13	3.15	.32	2.43	-.96	52.00	9.58
FREDERICKSBURG NATL PK	3.15	-.53	1.56	-2.85	7.74	4.38	4.38	1.18	4.26	1.22	1.83	-1.47	51.06	10.07
HOLLAND 1 E	7.39	2.17	6.09	.65	4.22	.14	3.54	-.50	4.78	1.78	3.38	-.08	63.48	15.33
HOPEWELL	5.35	.30	4.17	-.45	5.77	1.68	3.26	-.37	4.22	1.14	2.41	-.98	51.71	6.90
KILMARNOCK 1 N	5.72		8.64		4.00		3.88		3.29		1.87			56.91
LANGLEY AIR FORCE BASE	3.80	-1.00	8.37	3.60	6.42	1.82	4.17	.78	6.64	3.73	3.07	-.19		
MATHEWS 2 ENE	3.80		8.96		4.38		3.75		3.80		2.18		54.82	
NORFOLK WSO AIRPORT	4.86	-.29	7.49	2.16	5.10	.75	2.94	-.47	3.69	.81	3.86	.69	56.62	11.40
PAINTER 2 W	7.24	3.14	8.87	4.59	2.92	-.49	3.45	-.12	3.29	.33	2.31	-1.06	M	51.48
STONY CREEK 3 ESE	2.59		3.89		3.46		3.32		3.57		2.19			
SUFFOLK LAKE KILBY	3.76	-1.23	6.19	.99	5.76	1.48	3.23	-.40	4.24	1.30	4.34	.90	63.92	16.99
TANGIER ISLAND	4.04		10.01		2.34		3.49		4.67					
WAKEFIELD 2	M	.75	4.50		5.00	M			3.25	M	.00			
WALKERTON 2 NW	7.26	2.55	5.55	.69	6.31	2.63	4.29	.89	2.95	-.53	2.29	-1.11	55.39	10.86
WALLACETON LK DRUMMOND	6.70	1.73	11.94	6.42	6.45	2.28	M		4.90	2.04	4.73	1.13		
WARSAW 2 NW	7.83	3.45	4.47	.14	7.60	3.41	4.36	.83	2.39	-.91	2.36	-.84	53.96	10.95
WEST POINT 2 SW	8.20		6.29		4.01		3.61		3.34	M	2.50		M	55.18
WILLIAMSBURG 2 N	5.18	-.05	13.81	9.13	4.59	.17	2.55	-1.01	3.77	.56	2.42	-1.01	67.70	20.13
--DIVISIONAL DATA----->	5.41	.89	6.65	1.93	4.84	.90	3.63	.24	3.82	.79	2.64	-.64	56.27	12.40
EASTERN PIEDMONT 02														
AMELIA 4 SW	4.90		1.53		4.81		3.24		3.08		2.26		46.24	
ASHLAND	6.64		4.42		4.45		4.23		2.51		2.17		50.18	
BREMO BLUFF	6.07	2.57	M		3.75	M	3.87		3.46		.95			
BUCKINGHAM	7.81	4.05	2.36	-1.66	7.79	4.07	4.34	.79	3.99	1.04	1.71	-1.42	60.05	18.90
CAMP PICKETT	6.69		4.69		4.28		3.95		3.59		2.35		53.24	
CHASE CITY	4.69	.97	5.51	1.65	5.02	1.56	5.13	1.66	4.23	1.03	3.60		M	59.96
CLARKSVILLE	M		3.18	-.96	3.31	-.03	4.32	1.23	2.81	-.17	2.00	-1.18		
CORBIN	4.62		2.01		8.56		4.09		2.64		1.65		47.13	
CROZIER	6.75		4.11		3.78		2.94	M	2.41	M	2.20		M	45.09
CUMBERLAND	7.34		3.13		10.29	M	3.28		3.04		1.87		M	55.75
FARMVILLE 2 N	7.44	3.20	1.93	-2.14	5.92	2.54	3.67	.16	3.67	.50	2.28	-1.02	55.75	12.82
GORDONSVILLE 3 S	6.76		1.97		5.06		4.09		3.28		2.64		52.31	
JOHN H KERR DAM	8.08	3.77	6.98	3.19	2.81	-.70	4.61	1.19	3.61	.53	2.00	-1.22	59.61	18.08
KEYSVILLE 8 N	2.59		1.09		3.44		2.52		2.52	M				
LAWRENCEVILLE 5 W	3.47	-.59	M		5.89	2.05	3.89	.32	3.28	.15	2.63	-1.02	M	47.84
LOUISA	7.77	3.91	3.35	-1.11	4.34	1.08	4.21	.58	4.80	1.64	2.90	-.49	55.30	13.22
PALMYRA 1 E	9.78		2.90		5.79		4.12		3.80		3.18		52.08	
POWhatan	6.71		4.54		4.70		3.07		2.29		2.08		48.66	
RICHMOND WSO AIRPORT	R	-1.14	4.89	-.12	5.33	1.81	3.54	-.20	3.00	-.29	2.62	-.77	49.74	5.67
WINTERPOCK 4 W	3.57		3.33		3.42		3.26		2.99		2.59		46.47	
--DIVISIONAL DATA----->	5.93	1.79	3.94	-.42	5.02	1.33	3.95	.26	3.44	.29	2.18	-1.12	51.29	8.28
WESTERN PIEDMONT 03														
ALTAVISTA	M		7.17	3.46	8.46	5.32	4.55	1.26	2.35	-.45	2.70	-.34		
APPOMATTOX		1.06	3.88	.10	7.96	4.35	4.26	.82	2.86	-.20	1.17		M	55.76
BEDFORD	7.54	3.47	1.87	-2.08	6.62	3.22	4.04	.48	1.99	-.91	2.48	-.61	55.58	13.48
CHARLOTTE COURT HSE 3W	6.84	3.13	6.19	2.20	9.05	5.39	2.90	-.65	3.11	.21	1.68	-1.48	56.39	14.75
CHARLOTTESVILLE 2 W	8.02	3.51	4.58	.07	5.49	1.59	5.29	1.09	2.46	-.81	1.46	-1.89	55.05	9.33
CHATHAM	M		4.08	.28	6.06	2.27	4.99	1.44	2.89	-.20	2.22	-1.17		

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TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA
1989

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
CONCORD 4 SSW	1.57	-1.76	3.70	.64	4.11	.22	4.87	1.65	6.54	2.94	9.26	5.72
DANVILLE	1.70	-1.73	4.76	1.44	5.21	1.20	4.55	1.10	7.21	3.48	8.26	4.40
FREE UNION	1.69		2.24		4.35		2.26		5.48		6.76	
HUDDLESTON 4 SW	1.77	-1.41	3.16	.09	3.98	.02	3.70	.33	5.14	1.63	7.81	4.57
LYNCHBURG WSO AIRPORT	1.37	-1.69	2.91	-.02	3.55	-.14	5.03	2.13	5.57	1.92	9.97	6.50
MARTINSVILLE FILTER PL	2.09	-1.23	2.43		4.06	-.22	2.91	-.80	6.03	2.16	7.35	3.42
MEADOWS OF DAN 5 SW	2.34	-1.68	3.64	-.33	4.89	-.35	3.07	-1.83	7.77	3.09	11.15	6.04
MONTEBELLO 2 NE	2.13	-1.59	3.24	-.69	5.39	.69	5.09	.97	7.97	3.50	4.35	.22
MONTICELLO	.98		2.65		2.49		3.89		4.71		4.92	
PHILPOTT DAM 2	1.58		3.01		4.04		3.06		7.11		10.30	
ROCKFISH	1.60	-1.82	3.89	.56	4.88	.64	4.25	.70	7.74	3.76	7.22	2.67
ROCKY MOUNT	1.44	-1.75	2.52	-.67			2.78	-.83	7.80	4.02	8.18	4.65
ROSELAND 1 NNW	2.36		3.05		3.46		4.65		8.25		7.28	
SOUTH BOSTON	1.50		4.85		5.04		5.11		3.58		8.34	
STUART 1 SSE	1.87		3.48		4.36		2.35		6.16		9.64	
TYE RIVER 1 SE	1.61	-1.70	3.70	.58	6.63	2.59	4.32	.98	8.26	4.36	8.00	4.34
WOOLWINE	2.20	-1.79	3.24	-.77	5.55	.39	2.39	-2.40	5.59	.88	10.11	5.12
--DIVISIONAL DATA----->	1.59	-1.70	3.58	.31	4.47	.35	3.93	.44	6.65	2.74	8.05	4.28
NORTHERN 04												
BIG MEADOWS	.74		1.37	-1.69	2.75	-1.45			7.20	2.72	6.80	2.48
CULPEPER									9.38	5.78	5.84	1.88
LINCOLN	2.62	-.32	2.36	-.28	4.49	.61	1.55	-1.92	9.76	5.75	3.93	-.33
LURAY 5 E	1.66	-1.33	1.80		3.49	.24	2.97	.08	7.35	3.91	5.49	1.90
MOUNT WEATHER	1.90	-.61	2.05	-.22	4.58	1.46	1.86	-1.49	11.63	7.51	4.53	.07
PIEDMONT RESEARCH STN	1.72	-1.07	2.20	-.38	4.10	.41	2.75	-.32	8.72	5.02	6.83	3.14
STERLING RCS	2.61		2.36		4.18		2.98		9.37		6.20	
THE PLAINS 2 NNE	2.05		2.16		4.42		2.69		8.80		4.84	
VIENNA DUNN LORING	3.22	.26	3.06	.35	4.76	1.05	3.41	.03	10.48	6.56	4.25	.14
WARRENTON 3 SE	2.05	-.97	2.15	-.46	4.44	.94	2.96	-.26	11.01	7.47	7.88	4.05
WASHINGTON WSO DULLES	2.65	-.18	2.50	-.14	4.01	.58	2.70	-.44	7.71	4.09	5.75	1.52
WASHINGTON NATL WSCMO	2.49	-.27	2.80	.18	4.30	.84	3.50	.57	7.77	4.29	6.02	2.67
WINCHESTER 'WINC'	1.84		1.79		5.00		1.23		6.95		4.21	
WINCHESTER 3 ESE	2.17	-.33			3.97	.69	1.29	-1.95	6.11	2.51	4.11	.05
WOODSTOCK 2 NE	1.90	-.50	2.11	.13	3.72	.80	1.59	-1.26	5.41	2.18	7.35	3.87
--DIVISIONAL DATA----->	2.15	-.67	2.17	-.33	4.09	.63	2.31	-.90	8.34	4.61	5.76	1.87
CENTRAL MOUNTAIN 05												
BUCHANAN	.89	-1.89	1.84	-1.18			3.52	-.69			4.87	1.30
BUENA VISTA												
COVINGTON	2.07	-.35	.92	-1.50	1.77	-1.61	3.95	1.21	4.53	1.15	5.84	2.61
COVINGTON FILTER PLANT	2.46		1.71		2.67		4.43		5.31		5.77	
CRAIGSVILLE 2 S	2.23		2.13		2.95		4.28		6.56		6.59	
DALE ENTERPRISE	1.48	-.51	1.49	-.58	2.44	-.43	3.55	.98	5.67	2.31	5.65	2.38
EARLEHURST	2.72		1.63		2.54		3.99		4.39		5.78	
GATHRIGHT DAM	2.41		2.33		3.08		6.05		4.73		7.17	
GLASGOW 1 SE	1.50		2.44		3.96		5.62		7.54		7.70	
GOSHEN	2.10	-.82	2.73	-.14	3.59	-.43	3.76	.61	7.79	4.02	6.29	2.74
HOT SPRINGS	3.87	.83	2.58	-.36	3.23		5.36	2.05	4.87	1.02	5.38	1.71
KERRS CREEK 6 NNW	2.72		1.94		3.69		4.65		6.98		6.10	
LEXINGTON	1.86	-.89	2.10	-.79	3.21	-.58	3.92	1.05	6.05	2.72	7.97	4.61
MCDOWELL 3 W	2.71		1.81		4.04		3.50		5.11		8.28	
MILLGAP 2 NNW	3.06		3.02		3.59		4.90		4.97		7.32	
MONTEREY	2.72	-.24	2.02	-.88	3.47	-.38	3.99	.52	5.88	2.23	7.27	3.39
MOUNTAIN GROVE	2.07		2.87		3.60		5.02		4.87		5.27	
ROANOKE WSO AIRPORT	1.31	-1.52	2.04	-1.15	2.96	-.73	2.54	-.55	6.46	2.95	7.76	4.42
STAUNTON SEWAGE PLANT	1.77	-.76	2.67	.48	3.69	.50	2.88	.09	5.94	2.58	5.30	2.27
TIMBERVILLE 3 E	1.38	-.91	1.80	-.29	2.79	-.20	1.88	-.68	6.42	3.19	4.47	1.05

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VIRGINIA
1989

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
CONCORD 4 SSW	6.86	3.09	5.41	1.90	6.31	2.83	4.75	1.06	2.66	-.48	2.18	-.96	58.22	16.85
DANVILLE	6.59	2.53M			4.26	.58	5.95	2.72	3.54	.72	2.38	-.93		
FREE UNION	8.70		4.96		5.46		5.88		2.37		1.44		51.59	
HUDDLESTON 4 SW			3.88	.27	7.64	4.07	4.35	.87	2.36	-.62	2.04	-1.06		
LYNCHBURG WSO AIRPORT	8.30	4.45	4.39	.70	9.90	6.67	3.73	.37	1.38	-1.54	3.01	-.15	59.11	19.20
MARTINSVILLE FILTER PL	9.28	4.74	1.99	-2.11	8.56	4.73	3.74	.19	2.28	-.66	3.39	-.01M	54.11	
MEADOWS OF DAN 5 SW	7.81	2.46	6.06	1.03	9.29	4.06	6.87	2.31	3.43	-.28	2.26	-1.69	68.58	12.83
MONTEBELLO 2 NE	7.05	2.68	5.06	1.07	6.79	2.57	5.26	.37	2.60	-1.63	1.34	-2.38	56.27	5.78
MONTICELLO	8.17		6.36		5.61		5.00		2.00		1.80		48.58	
PHILPOTT DAM 2	11.86		5.04		8.84		2.98		2.21		1.45		61.48	
ROCKFISH	9.23	5.09	6.74	2.50	8.31	4.05	6.26	1.89	2.29	-1.07	1.71	-1.90	64.12	17.07
ROCKY MOUNT	11.47	7.35	2.82	-1.04	8.98	4.96	3.51	-.23	2.34	-.45	1.92	-1.23		
ROSELAND 1 NNW	9.61		5.31		6.77		4.62		2.17					
SOUTH BOSTON			6.07		5.72		4.04		2.63		2.65			
STUART 1 SSE														
TYE RIVER 1 SE	12.89	8.77	2.53	-1.24	5.83	2.28	4.70	.90	2.54	-.57	1.68	-1.63	62.69	19.66
WOOLWINE			7.00	2.61	12.83	7.11	3.60	-1.20	2.67	-1.09	4.03	-.01		
--DIVISIONAL DATA----->	8.73	4.52	4.15	.07	7.14	3.32	4.24	.59	2.52	-.50	2.21	-1.07	57.26	13.35
NORTHERN 04														
BIG MEADOWS	7.04	2.99	4.30	-.97	8.61	3.62	5.71	.53M	1.94					
CULPEPER	7.97	4.14	1.69	-2.41	5.22	1.54	5.37	1.92M			1.74	-1.26		
LINCOLN	5.03	1.09	.56	-3.78	1.60	-1.73	5.30	2.24	1.91	-1.13	1.34	-1.88	40.45	-1.68
LURAY 5 E	2.34	-1.23	2.85	-1.27	3.34	-.25	3.76	.17M	1.27		.56		36.88	
MOUNT WEATHER	6.96	3.09	1.36	-2.69	3.21	-.25	4.55	1.09	1.86	-1.43M	1.01		45.50	
PIEDMONT RESEARCH STN	7.43	3.66	2.32	-2.12	4.31	.95	4.31	.50	3.00	-.09	1.59	-1.51	49.28	8.19
STERLING RCS	5.00		1.07		2.93		4.26		2.32		.95		44.23	
THE PLAINS 2 NNE	2.73		1.71		2.64		4.54		1.68		1.06		39.32	
VIENNA DUNN LORING	4.84	.58	.38	-4.30	2.52	-1.48	5.72	2.62	2.17	-1.07	2.05	-1.17	46.86	3.57
WARRENTON 3 SE	6.00	2.07	1.74	-2.16	5.03	1.71	5.96	2.82	2.04	-.94	1.14	-1.92	52.40	12.35
WASHINGTON WSO DULLES	5.99	2.24	.76	-3.40	3.14	-.12	4.73	1.72	2.68	-.31	1.72	-1.57	44.34	3.99
WASHINGTON NATL WSCMO	5.66	1.78	1.15	-3.25	6.68	3.46	5.48	2.58	2.37	-.45	2.10	-1.08	50.32	11.32
WINCHESTER 'WINC'	3.90		1.20		2.81		4.51		2.59		.74		36.77	
WINCHESTER 3 ESE	4.63	.62	2.20	-1.54	2.30	-.85M			1.77		.42			
WOODSTOCK 2 NE	5.54	1.93	3.07	-.40	2.49	-.73	3.23	.31	2.22	-.08M	.83		39.46	
--DIVISIONAL DATA----->	5.65	1.85	1.87	-2.30	3.97	.47	4.76	1.40	2.33	-.77	1.42	-1.58	44.82	4.28
CENTRAL MOUNTAIN 05														
BUCHANAN	7.95	3.82	2.29	-1.75	7.19	3.78	4.26	.56	3.08	.23	1.62	-1.29		
BUENA VISTA	6.91	3.18	7.16	3.92	4.99	1.95	3.43	-.29M	1.64		2.70	-.34		
COVINGTON	6.05	2.50	3.72	.16	6.91	4.15	4.77	1.87	2.82	.64M	1.56		44.91	
COVINGTON FILTER PLANT	5.93		3.73		7.41		4.77		2.69		2.06		48.94	
CRAIGSVILLE 2 S	4.56		5.11		5.33		5.43		3.03		1.59		49.79	
DALE ENTERPRISE	5.79	2.11	4.78	.88	2.71	-.52	3.47	.61	1.79	-.62	1.77	-.43	40.59	6.18
EARLEHURST	4.95		4.12		7.50		4.55		3.07		2.60		47.84	
GATHRIGHT DAM	4.07		5.31		8.23		4.69		2.72		1.89		52.68	
GLASGOW 1 SE	5.37		3.50		6.60		5.62		2.79		1.71		54.35	
GOSHEN	5.47	1.67	4.93	1.46	9.61	6.16	5.27	1.79	3.18	.19	2.51	-.29	57.23	16.96
HOT SPRINGS	4.18	.03	4.60	.78	6.48	2.97	4.63	1.10M	2.92		.96		49.06	
KERRS CREEK 6 WNW	5.65		6.10		8.26		5.95		3.45		.38		55.87	
LEXINGTON	4.75	1.09	4.37	1.28	5.49	2.21	2.98	-.27	2.30	-.37	2.45	-.47	47.45	9.59
MCDOWELL 3 W	5.05		4.78		5.88		3.77		3.45		2.74		51.12	
MILLGAP 2 NNW	4.70		6.31		3.62		3.59		2.89		2.01		49.98	
MONTEREY	3.77	.02	7.42	4.10	4.84	1.48	3.69	.30M						
MOUNTAIN GROVE	4.73		5.81		5.37		3.44		3.69		1.10		47.84	
ROANOKE WSO AIRPORT	10.09	6.64	1.65	-2.26	8.94	5.80	4.13	.65	3.86	1.27	2.60	-.33	54.34	15.19
STAUNTON SEWAGE PLANT	3.15	-.36	7.60	4.20	6.51	2.96	4.80	1.54	1.63	-.93M	1.25		47.19	
TIMBERVILLE 3 E	5.69	2.07	3.42	-.60	3.33	-.17	2.93	.13	2.34	-.07	1.49	-.90	37.94	2.62

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA
1989

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
WEST AUGUSTA	M		M		M		M		M		M	
--DIVISIONAL DATA----->	2.14	-.58	2.08	-.70	3.04	-.58	3.84	.81	5.70	2.11	6.16	2.65
SOUTHWESTERN												
MOUNTAIN												
ABINGDON 3 S	06											
ALLISONIA 2 SSE	3.79		M	4.15		3.92		2.95		3.59		4.61
BLACKSBURG 3 SE	1.45	-1.32		2.55		2.38	-1.25	2.72		4.08		9.52
BLAND	2.46	-.49		2.34		2.94	-.97	3.30	-.25	4.40	.78	7.08
BURKES GARDEN	2.21	-.81		2.48		2.55	-1.34	2.48	-.70	4.40	.81	4.66
BYLLESBY 3 W	3.28	-.22		3.03		3.29	-.81	3.26	-.42	5.46	1.45	5.14
COPPER HILL 1 NNE	1.74			3.12		2.55		2.97		4.51		4.81
FLOYD 2 NE	1.38	-1.59		2.21		3.17	-.83	2.70	-1.16	5.16	1.10	8.46
GALAX RADIO WBOB	M		M	.89		4.51	.57	M		4.74	1.23	9.31
GLEN LYN	1.51	-1.22	M	3.32		2.71		2.93	-.50	M		8.41
GRUNDY	1.87	-.79		2.38		2.55	-.94	3.28	.13	4.07	.55	4.91
HILLSVILLE	3.08			3.58		2.89		3.84		6.64		7.97
INDEPENDENCE 2	1.65	-1.21	M	2.78		2.50		3.06	-.48	4.41	.21	10.74
JOHN W FLANNAGAN LAKE	1.66			3.06		1.48		3.21		4.50		8.17
LAFAYETTE 1 NE	2.84			4.28		2.73		4.66		M		6.05
LEBANON	1.59	-1.42		1.89		2.35	-.97	3.47	.41	5.92	2.49	4.93
MARION			M		M		M			4.47		M
MOUNT LAKE BIOL STN	M		M	1.59		4.22		M		6.89		7.05
NEWPORT 2 NNW	3.09		M	2.45		3.65	.29	M		5.50	2.00	5.79
NORTH FORK LAKE	2.10	-.55		4.38		4.05		4.25	1.26	5.50		8.11
PENNINGTON GAP	3.65			4.11		3.87	-1.88	5.89		6.91		9.40
PULASKI	5.38	.50		1.26		1.77		2.56	.18	7.53	3.14	4.96
RADFORD	1.03			2.32		2.54	-.95	2.32	-.86	3.41		6.12
RICHLANDS	1.92	-.81								2.45	-.65	M
STAFFORDSVILLE 3 ENE												6.28
TROUT DALE 3 SSE	1.52	-1.22		2.65		2.49	-1.12	3.36	.00	3.97	.54	5.96
WILLIS	2.73	-1.38		3.07		2.48	-2.77	2.45	-2.13	4.86	.19	10.84
WISE 1 SE	1.79			2.96		3.77		2.55		6.62		11.61
WYTHEVILLE 1 S	3.69			5.01		3.31		3.41		6.64		4.15
--DIVISIONAL DATA----->	1.89	-.74		2.19		2.45	-1.01	2.55	-.56	4.51	.93	1.04
	2.76	-.60		3.02		3.24	-.99	3.27	-.44	5.19	1.24	7.16
												3.38

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA
1989

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
WEST AUGUSTA	M		M		M		M		M					
--DIVISIONAL DATA----->	5.54	1.77	4.52	.72	6.11	2.66	4.04	.59	2.55	-.15	1.98	-.84	47.70	8.46
SOUTHWESTERN MOUNTAIN 06														
ABINGDON 3 S	4.33		2.06		8.40		M		M		3.99			
ALLISONIA 2 SSE	6.18	2.60	3.34	.16	8.74	5.60	4.91	1.87	4.51	2.18	M	1.34	M	51.72
BLACKSBURG 3 SE	M		4.58	1.05	8.09	4.61	3.17	.03	3.39	.71		.32	-2.60	
BLAND	5.50	1.71	5.26	1.75	8.45	5.43	4.19	1.47	2.27	-.26	2.17	-.62	46.62	8.19
BURKES GARDEN	6.39	1.68	6.12	2.41	8.78	5.30	4.70	1.79	M	2.64	2.27	-1.01	M	54.36
BYLLESBY 3 W	9.36		6.99		10.76		4.66		3.92		1.94			57.33
COPPER HILL 1 NNE	6.66	2.96	2.79	-1.07	10.61	6.04	4.45	-.01	3.95	.75	1.56	-1.27		53.10
FLOYD 2 NE	6.94	3.21	2.52	-.73	11.43	7.24	4.08	-.38	M	3.22	.19		M	
GALAX RADIO WBOB	9.67	5.59	3.99	.42	13.05	9.16	2.74	-1.00	4.48	1.54	2.07	-1.01	M	59.70
GLEN LYN	4.57	.60	7.61	4.36	6.61	3.66	4.74	2.15	2.15	-.30	1.30	-1.31		46.04
GRUNDY	3.63		4.59		6.32		6.65		3.07		1.36			9.59
HILLSVILLE	6.75	2.61	4.28	.65	11.96	8.13	3.91	.34	5.61	2.78	1.81	-1.18	M	59.46
INDEPENDENCE 2														
JOHN W FLANNAGAN LAKE	4.94		2.84		6.78		6.52		4.57		.85			
LAFAYETTE 1 NE	4.83	1.02	1.89	-1.53	8.36	5.14	3.63	.41	2.91	.29	1.61	-1.16		43.38
LEBANON					6.58		2.95		2.80		1.01			5.46
MARION	M		M		M		M		M		M			
MOUNT LAKE BIOL STN	5.00		1.72		11.94		5.73		3.16					
NEWPORT 2 NNW	3.30	.08	2.00	-1.07	10.10	6.68	3.60	.36	M	2.95			M	
NORTH FORK LAKE	6.09		6.04		6.50		5.92				1.72			62.02
PENNINGTON GAP	3.45	-1.62	5.79	2.03	4.82	1.35	3.25	.29	6.08	2.19	M	2.63	M	60.84
PULASKI	5.53		3.04		9.99		2.85		2.64					41.47
RADFORD	M		2.39	-.88	6.31	3.37	3.42	.39	2.59	.12	M			
RICHLANDS	5.21		6.00		5.41		3.79		2.58		1.60			
STAFFORDSVILLE 3 ENE	4.45	.68	4.21	.68	8.30	5.02	4.42	1.65	2.98	.50	M	1.71	M	46.34
TROUT DALE 3 SSE	7.69	3.00	3.46	-.60	6.02	2.19	3.83	-.02	2.62	-.91	1.98	-1.75		47.15
WILLIS	5.63		7.69		12.68		3.90		4.49		2.94			65.86
WISE 1 SE	6.42		7.29		7.52		4.73		4.19		2.33			66.15
WYTHEVILLE 1 S	4.88	.39	4.77	1.41	8.86	5.80	3.83	-.88	3.13	.75	1.27	-1.33		44.48
--DIVISIONAL DATA----->	5.49	1.10	4.36	.71	8.54	5.10	3.93	.86	3.53	.54	1.63	-1.65	52.12	8.94

SEE REFERENCE NOTES FOLLOWING STATION INDEX

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

VIRGINIA
1989

1989																										
STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		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
VIRGINIA																										
TIDEWATER 01																										
BACK BAY WILDLIFE REFU	M		M	46.3	M	49.8	M		M		79.3	M			78.1	M		M		M		M		M		
COLONIAL BEACH	39.9			38.5		47.0		55.8		62.9		77.8		78.4		76.5		71.4		60.8		49.9		28.9		56.4
EMPORIA 1 WNW	40.5			40.2		45.9		54.5		62.9		75.6		76.0		74.5		69.4		58.8		49.0		28.9		56.4
FREDERICKSBURG NATL PK	37.3	2.6	M	35.8	-1.6	43.4	-2.0	51.1	-4.8	60.2	-4.8	73.2	4	74.6	-2.5	72.0	-3.7	66.3	-2.9	58.4	8	47.9	8	26.9	-11.0	53.9
HOLLAND 1 E	43.9	5.3	41.6	1.3	48.2	0	56.4	-1.8	64.9	-1.4	77.3	3.8	77.4	-1	76.3	-3	71.9	1.0	60.6	9	51.3	7	32.3	-9.3	58.5	
HOPEWELL	41.9	2.2	42.3	4	50.5	6	59.0	-1.2	66.7	-1.4	78.6	3.5	79.7	7	77.7	-5	72.6	4	60.6	9	52.0	4	32.6	-10.1	58.5	
KILMARNOCK 1 N	40.9			39.7		47.0		54.0		63.5		76.0		76.7		74.6		69.7		58.0		47.6		28.5		56.4
LANGLEY AIR FORCE BASE	45.6	6.4	43.7	2.8	49.2	9	54.6		63.7		77.6	3.5	78.0	-4	77.5	-3	72.9	1.0	63.2	2.2	50.8	-5	33.8	-8.9	57.9	
MATHEWS 2 ENE	42.4			41.1		48.2		54.6		63.7		76.3		77.3		75.4		71.7		60.3		50.8		32.5		57.9
NORFOLK WSO AIRPORT	45.3	5.4	43.6	2.5	50.1	1.6	56.5	-1.7	65.6	-8	78.5	4.2	79.2	8	77.7	0	73.9	1.7	62.7	1.4	53.3	1.4	34.8	-8.7	60.1	
PAINTER 2 W	42.6	4.9	40.3	1.2	48.0	1.6	54.4	-1.6	63.9	-7	77.2	4.7	77.7	7	76.7	7	71.7	1.6	61.7	2.3	51.0	1.0	32.1	-9.2	58.1	
STONY CREEK 3 ESE	41.4			40.1		47.2		55.3		64.1		76.1		76.1		75.9		70.7		60.0		49.1		29.9		57.8
SUFFOLK LAKE KILBY	44.5	5.6	41.6	7	48.6	3	56.7	-1.5	65.4	-1.0	77.0	3.1	77.5	-4	74.2	-3.0	69.5	-1.7	58.1	-1.9	47.7	-2.8	32.4	-9.6	57.8	
TANGIER ISLAND	M	41.5	40.1		46.2		55.9		65.2		78.6		79.0		78.4		74.7		63.7		52.4		30.3		57.8	
WAKEFIELD 2	44.1			39.1		47.2		54.7		64.3		78.0		78.0		80.5		71.3		60.0		49.4		30.3		57.8
WALKERTON 2 NW	41.8	5.4	40.4	1.7	48.1	1.2	55.9	-1.5	64.4	-1.4	76.5	3.3	77.1	-2	75.5	-7	70.9	1.3	59.9	1.7	49.4	1.1	29.4	-9.9	57.4	
WARSAW 2 NW	41.6	5.1	40.1	1.5	47.5	9	55.4	-1.6	64.4	-1.2	76.7	3.3	77.1	-3	75.2	-1.2	70.7	7	60.1	1.3	49.6	6	29.1	-10.8	57.3	
WEST POINT 2 SW	42.6			41.0		48.1		56.9		64.9		77.1		77.1		75.1		70.6		60.0		50.0		31.1		57.9
WILLIAMSBURG 2 N	43.1	4.7	41.4	1.2	48.3	4	55.3	-2.8	64.3	-2.0	76.2	2.8	77.5	0	76.1	-6	71.5	6	60.9	1.1	50.6	2	31.8	-9.8	58.1	
--DIVISIONAL DATA-----	42.3	4.0	40.9	1.0	47.9	4	55.4	-2.1	64.3	-1.6	77.1	3.5	77.4	-4	76.2	-8	71.2	0	60.5	3	50.1	-4	31.0	-10.7	57.9	
EASTERN PIEDMONT 02																										
AMELIA 4 SW	39.6		37.2		44.1		52.0		60.6		73.7		74.2		72.2		67.0		55.9		46.1		28.5		54.3	
ASHLAND	M	40.8	38.2		46.9		M	55.1	63.3		75.3		76.4		74.4		69.3		58.3		47.8		28.4		56.2	
BREMO BLUFF	35.4		36.4		46.3		M	54.2	61.9		75.3		75.9		M		M		M		44.8		25.3		M	
CAMP PICKETT	41.0		38.8		45.4		53.9		62.1		75.2		76.0		74.1		69.5		57.7		48.0		29.2		55.9	
CHASE CITY	M	41.7	40.4		47.2		55.2		63.5		76.7		77.6		75.6		70.3		59.3		50.2		29.1		57.2	
CORBIN	38.5		36.7		44.8		51.8		62.3		74.3		75.9		73.2		68.2		58.1		45.9		26.5		54.7	
CROZIER	40.7		38.3		45.9		54.3		62.8		75.8		76.7		74.6		69.7		58.8		47.8		27.9		56.1	
FARMVILLE 2 N	39.5	2.5	37.8	-1.4	45.2	-2.3	53.2	-4.7	61.8	-3.7	75.4	2.8	76.0	-6	73.7	-1.8	68.6	-2	57.6	-1	47.4	-6	28.0	-11.4	55.4	
JOHN H KERR DAM	41.9	4.8	40.8	1.9	46.1	-1.1	55.4	-2.4	63.3	-3.0	76.8	3.3	77.6	0	76.1	-4	71.0	1.1	60.1	1.7	51.4	2.6	32.2	-7.9	57.7	
LAWRENCEVILLE 5 W	43.7	5.2	42.6	2.2	47.7	-7	54.8	-3.5	63.1	-2.9	74.9	2.1	77.2	-1	M	75.2	-1.2	70.8	9	59.6	9	49.8	2	30.0	-10.8	57.5
LOUISA	39.8	4.7	39.1	1.6	46.1	0	53.7	-2.7	62.5	-2.1	74.3	2.4	76.2	3	74.3	-6	68.6	2	58.7	1.5	47.5	3	26.3	-11.8	55.6	
RICHMOND WSO AIRPORT	R	42.3	39.6	7	47.9	7	55.8	-2.1	64.1	-2.0	76.1	2.6	77.7	-1	75.3	-1.5	70.8	6	60.2	1.6	49.3	4	31.3	-8.6	57.5	
--DIVISIONAL DATA-----	40.4	4.3	38.8	5	46.1	-5	54.1	-3.0	62.6	-2.5	75.3	2.8	76.5	-2	74.4	-1.3	69.4	2	58.6	9	48.0	0	28.6	-10.5	56.1	
WESTERN PIEDMONT 03																										
APPOMATTOX	40.5		37.2		45.3		M	53.9	62.1		74.6		76.3		73.8		68.5		58.5		47.3		28.2		55.5	
BEDFORD	40.2	3.5	38.0	-9	45.9	-1.5	M	53.2	-4.2	59.2	-6.1	71.2	-6	73.5	-2.0	69.5	-5.0	65.3	-2.8	55.3	-2.2	47.6	-3	28.1	-11.5	53.9
CHARLOTTE COURT HSE 3W	40.0	4.7	39.9	2.6	M	46.7	M	55.1	-1.4	62.3	-2.4	75.1	3.2	75.7	-4	74.0	-1.2	69.2	4	58.8	1.6	48.9	1.5	29.8	-8.5	56.3
CHARLOTTESVILLE 2 W	43.3	8.0	39.0	2.0	46.5	6	55.5	-1.6	62.6	-2.8	74.4	1.9	75.2	-1.6	73.2	-2.5	67.0	-2.6	59.2	5	47.9	-6	M	27.0	-11.5	55.9
CHATHAM	38.8	3.0	38.2	5	45.6	-2	52.2	-3.6	59.1	-5.3	73.1	1.7			71.5	-3.1	67.1	-1.2	55.3	-1.6	45.2	-2.1	28.3	-10.3		
DANVILLE	41.8	4.2	40.6	8	48.2	2	56.9	-1.7	63.8	-3.0	77.5	3.7	78.5	7			71.0	5	59.6	9	49.8	1.1	31.8	-8.2		
LYNCHBURG WSO AIRPORT	R	41.2	38.4	1.0	47.3	1.6	54.9	-1.5	62.0	-2.5	73.9	2.3	75.7	0	73.7	-1.1	67.8	-6	58.5	1.4	47.1	1	29.4	-8.9	55.8	
MARTINSVILLE FILTER PL	M	40.5	39.2	1.2	49.0	2.9	55.5	-6	61.6	-2.5	74.0	2.9	75.6	5	72.7	-1.5	67.4	-2	57.1	1.0	48.0	1.7	29.9	-8.1	55.9	
MONTICELLO	39.3		M	36.6	M	45.5	M	53.8	60.5		71.8		74.3		73.0		66.6		58.9		47.8		28.2		54.7	
PHILPOTT DAM 2	40.1			38.8		46.4		53.7		59.9		73.2		76.6		74.3		68.7		58.7		47.8		30.7		55.7
ROCKY MOUNT	M		M	40.0			55.2		61.1		72.9		75.4		73.3		67.3		59.0		48.1		29.1			
SOUTH BOSTON	40.0		38.9		46.1		M	54.3	61.4		75.8				M		70.8		58.8		48.2		31.3			
STUART 1 SSE	40.5		40.2		48.5		M	55.9	62.5		73.3				M											
TYE RIVER 1 SE	40.3		38.3		45.8		53.2		61.4		74.2		75.6		73.7		66.6		57.9		46.4		28.0		55.1	
--DIVISIONAL DATA-----	40.5	4.7	38.8	1.0	46.7	6	54.5	-2.0	61.4	-3.3	73.9	2.2	75.7	0	73.2	-1.6	67.9	-5	58.1	9	47.7	3	29.2	-9.4	55.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

VIRGINIA
1989

STATION	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		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
NORTHERN 04																										
BIG MEADOWS	31.2	4.1	28.2	-1.1	37.1	1.4	M		51.9	-3.7	64.1	1.5	65.8	-6.6	64.2	-1.1	59.7	-2	49.5	4	36.6	-2.6	M			
CULPEPER									62.8	-2.1	75.0	2.6	76.7	-3	74.2	-1.9	68.3	-4	58.2	1.2	M					
LINCOLN	38.3	5.0	36.3	5	43.7	7	54.2	-1.0	62.6	-1.6	73.9	1.6	76.0	-3	74.8	-1.5	68.6	-1	58.7	1.3	44.9	-1.7	26.2	-10.8	54.9	-7
LURAY 5 E	38.7	6.7	35.3	1.1	43.3	6	49.8	-3.6	59.5	-2.5	71.6	2.4	74.0	9	70.3	-1.8	66.6	8	57.4	2.9	46.7	2.1	25.4	-9.9	53.2	0
MOUNT WEATHER	35.1	6.4	31.3	8	38.2	-9	48.9	-1.6	57.9	-2.1	69.9	1.8	72.2	1	69.2	-2.0	64.1	-5	55.7	2.1	42.3	-1.7	21.2	-11.6	50.5	-7
PIEDMONT RESEARCH STN	38.8	5.1	36.6	9	44.3	-1	53.1	-2.2	61.8	-2.2	74.2	2.3	75.5	-6	73.0	-1.9	67.8	-7	58.4	1.5	45.9	-7	25.3	-11.6	54.6	-9
STERLING RCS	35.8		34.9		42.2		51.5		61.1		73.0		75.0		72.2		66.5		55.9		44.0		23.6		53.0	
WARRENTON 3 SE	37.7	5.4	35.4	1.3	43.2	3	52.3	-1.7	60.9	-1.9	73.5	2.8	75.4	2	72.8	-1.4	68.1	1	57.9	1.3	44.3	-1.9	25.3	-10.7	53.9	-5
WASHINGTON WSO DULLES	36.3	4.9	35.2	1.6	43.7	1.3	51.7	-1.6	61.4	-1.0	73.8	3.1	76.0	5	74.4	1	68.6	1.2	57.3	2.0	43.7	-1.1	23.1	-12.0	53.8	-1
WASHINGTON NATL WSCMO	39.9	4.7	37.8	3	46.1	3	55.4	-1.3	64.1	-1.9	76.8	2.3	78.3	-6	77.1	-5	71.4	3	60.5	1.2	48.0	-7	27.9	-11.0	56.9	-6
WINCHESTER 'WINC'	37.1		34.6		41.4		50.9		59.8		71.8		73.6		71.1		65.9		55.3		43.1		23.3		52.3	
WINCHESTER 3 ESE	M		M		41.3	-2.1	49.1	-5.3	59.5	-4.0	71.8	8	73.8	-1.3	70.6	-3.4	65.3	-2.2	M		42.3	-3.1	21.5	-14.2	M	
WOODSTOCK 2 NE	38.2	5.1	36.9	1.5	43.8	-2	51.9	-2.6	60.7	-2.5	72.3	1.6	74.6	-1	72.2	-1.5	66.3	-9	56.2	2	44.3	-1.5	23.7	-12.9	53.4	-1.2
--DIVISIONAL DATA-->	37.0	4.6	34.8	3	42.4	-7	51.7	-2.4	60.3	-2.6	72.4	1.7	74.4	-5	72.0	-1.8	66.7	-7	56.8	1.0	43.8	-1.7	24.3	-11.5	53.1	-1.1
CENTRAL MOUNTAIN 05																										
BUCHANAN											75.0	3.3	76.9	1.4	75.2	5	68.9	6	58.7	1.5	46.7	-1	29.0	-9.5	M	
COVINGTON FILTER PLANT	41.2		M39.5		48.1		54.6		61.5		73.5		76.1		74.5		68.3		58.9		47.1		28.4		M56.0	
DALE ENTERPRISE	38.9	7.1	37.1	2.9	44.0	1.2	51.2	-1.8	60.1	-1.8	71.8	2.4	73.9	6	71.5	-6	65.4	-3	55.9	1.6	44.2	1	23.0	-12.3	53.1	-1
GATHRIGHT DAM	35.6		34.3		44.1		49.3		57.4		70.1		72.6		70.4		64.4		54.8		42.3		23.7		51.6	
HOT SPRINGS	35.2	4.4	33.1	3	41.8	1.0	48.5	-3.0	56.2	-3.9	68.9	1.9	71.1	4	68.6	-1.3	62.9	-7	53.1	3	40.5	-2.0	21.9	-12.0	50.2	-1.2
LEXINGTON	39.9	5.3	38.8	1.7	46.7	1.0	53.7	-2.2	61.8	-2.4	73.1	2.0	74.8	-1	72.5	-1.5	67.0	-6	55.9	-4	45.2	-8	26.9	-10.5	54.7	-7
MONTEREY	35.7		32.2		42.1		46.9		54.9		66.5		69.7		66.7		60.9		52.7		M		M		M	
ROANOKE WSO AIRPORT	R 41.3	5.8	38.2	3	47.4	1.3	54.3	-2.0	61.2	-3.5	73.7	2.1	75.9	2	74.1	-6	68.1	-1	58.5	1.7	46.0	-9	29.6	-8.7	55.7	-4
STAUNTON SEWAGE PLANT	36.3	3.9	36.3	2.3	42.1	-4	48.7	-4.4	57.9	-3.9	70.2	9	72.8	-6	69.9	-2.2	64.1	-1.4	53.4	-1.0	42.7	-1.8	21.0	-14.6	51.3	-1.9
TIMBERVILLE 3 E	38.9	7.0	37.6	3.6	44.4	1.6	50.6	-2.6	60.7	-1.7	72.7	2.8	74.9	1	72.5	-2	66.4	1	56.7	1.8	44.7	2	23.3	-12.2	M53.6	1
--DIVISIONAL DATA-->	38.1	5.1	36.3	1.1	44.5	-9	50.9	-3.1	59.1	-3.4	71.6	2.1	73.9	5	71.6	-8	65.6	-4	55.9	9	44.4	-3	25.2	-10.8	53.1	-6
SOUTHWESTERN MOUNTAIN 06																										
ABINGDON 3 S	39.8		M35.9		49.9		53.1		58.4		70.7		73.4		71.3		65.6		M		M		26.0		M	
BLACKSBURG 3 SE	37.4	6.5	34.6	1.7	44.3	3.2	49.9	-1.4	56.3	-3.7	69.7	2.9	M		69.4	-7	63.7	-1	53.8	1.3	43.7	1.1	24.5	-9.5	M	
BURKES GARDEN	35.6	5.6	32.2	1	42.7	2.7	45.5	-4.0	52.1	-5.3	65.5	1.8	67.7	4	65.6	-7	60.3	-4	48.9	-1.2	39.6	-1.0	21.1	-12.1	48.1	-1.2
FLOYD 2 NE	38.1	5.4	36.1	1.4	44.4	2.1	49.2	-2.9	M55.8	-4.3	67.7	1.2	70.0	-2	68.4	-1.1	62.8	-6	53.4	6	42.6	-4	25.6	-9.8	M51.2	-7
GALAX RADIO WBOB	38.4		36.5		45.9		51.2		57.1		68.7		70.8		70.5		64.3		54.5		43.3		27.5		52.4	
GRUNDY	40.4		37.7		51.5		52.8		58.7		71.4		74.9		73.4		67.0		55.9		44.2		26.1		54.5	
LEBANON																	65.1		53.3		42.8		24.7		M	
MARION	M		M		M		M		56.2		M		M		M		M		M		M		M		M	
MOUNT LAKE BIOL STN	32.2		27.7		38.8		43.0		48.7		61.2		62.4		60.7		55.2		47.7		32.6		18.2		M	
PENNINGTON GAP	40.5	6.8	39.0	2.5	51.4	6.4	54.5	-3.3	M59.6	-3.3	70.6	1.1	74.1	9	73.2	8	67.7	7	57.4	2.0	45.5	8	27.5	-9.3	M55.1	8
PULASKI	36.7		36.3		45.0		49.7		56.4		69.5		71.5		69.7		62.3		52.1		42.7		24.8		51.4	
RICHLANDS											M				72.5		70.4		53.7		42.6		23.7		M	
STAFFORDSVILLE 3 ENE	38.6		38.1		48.0		M53.2		58.3		70.7		73.8		71.5		65.7		55.5		44.3		26.7		M53.7	
WISE 1 SE	40.9		35.8		49.2		52.5		56.7		66.9		70.8		69.8		63.4		55.7		45.1		26.2		52.8	
WYTHEVILLE 1 S	38.4	5.6	36.3	1.1	44.8	1.8	48.8	-3.8	56.1	-4.8	69.3	2.0	71.8	7	70.1	-2	64.3	-4	52.6	-1.1	41.7	-1.8	23.5	-12.1	51.5	-1.1
--DIVISIONAL DATA-->	38.1	5.3	35.5	4	46.3	3.0	50.3	-2.8	56.2	-5.1	68.5	6	71.1	-4	69.5	-1.2	63.8	-1.2	53.4	-5	42.4	-1.3	24.7	-11.1	51.7	-1.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

VIRGINIA
1989

STATION					LAST SPRING MINIMUM OF										FIRST FALL MINIMUM OF										NUMBER OF DAYS BETWEEN DATES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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BACK BAY WILDLIFE REFU					MSG		2/10	19	2/24	24	2/27	28	MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG	</

TEMPERATURE EXTREMES AND FREEZE DATA (°F)

VIRGINIA
1989

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.	DATE	TEMP.	DATE	TEMP.	DATE	TEMP.			
PIEDMONT RESEARCH STN	95	7/12	-4	12/23	2/25	12	3/ 9	19	3/ 9	19	4/12	28	4/13	31	10/21	32	11/18	27	11/19	22	11/24	14	11/24	14	272	260	255	220	191
STERLING RCS	95	9/11	-5	12/25	3/ 8	16	3/23	20	4/14	24	4/24	28	4/24	28	9/25	31	10/ 8	28	11/ 4	21	11/19	20	11/24	8261	241	204	167	154	
WARRENTON 3 SE	95	9/11	-0	12/22	3/ 9	16	3/ 9	16	3/11	24	4/12	27	4/14	31	10/21	31	11/ 4	28	11/18	23	11/22	18	12/ 9	15275	258	253	206	190	
WASHINGTON WSO DULLES	97	9/10	-4	12/25	2/13	14	3/20	20	4/12	24	4/14	25	4/24	30	10/23	32	11/ 4	24	11/ 4	24	11/23	17	11/24	9284	248	206	204	182	
WASHINGTON NATL WSCMO	96	9/10	5	12/22	NONE		3/ 8	20	3/ 8	20	3/ 9	27	3/20	32	11/18	32	11/23	27	11/24	23	12/10	19	12/16	16	277	261	259	243	
WINCHESTER 'WINC'	93	7/12	0	12/24	3/ 9	16	3/ 9	16	3/10	24	4/12	28	4/23	32	11/ 4	27	11/ 4	27	11/19	22	11/24	20	12/ 9	11275	260	254	206	195	
WINCHESTER 3 ESE					MSG		4/11	20	4/15	23	4/24	27	4/24	27	9/28	32	MSG		MSG		MSG		MSG						157
WOODSTOCK 2 NE	95	7/11	-10	12/24	3/ 8	12	3/22	20	4/14	24	4/24	27	4/24	27	10/ 9	29	10/23	27	11/ 4	21	11/18	15	11/18	15	255	241	204	182	168
CENTRAL MOUNTAIN 05																													
BUCHANAN					MSG		MSG		MSG		MSG		MSG		11/ 4	27	11/ 4	27	11/18	24	11/24	19	12/14	7					
COVINGTON FILTER PLANT	99	6/ 1	-9	12/23	2/25	13	4/12	20	4/12	20	4/14	26	5/ 8	32	10/10	32	11/ 4	25	11/18	24	11/25	20	12/14	16292	227	220	204	155	
DALE ENTERPRISE	95	7/11	-11	12/22	2/25	12	3/ 8	17	4/12	21	4/14	25	4/24	29	10/ 9	31	11/ 4	25	11/18	20	11/18	20	11/24	13272	255	220	204	168	
GATHRIGHT DAM	92	7/13	-13	12/23	2/26	14	4/12	20	4/13	23	5/ 8	28	5/ 8	28	9/24	31	11/ 4	24	11/ 4	24	11/19	19	11/25	16272	221	205	180	139	
HOT SPRINGS	97	6/ 3	-15	12/23	3/ 9	15	4/13	20	4/13	20	4/15	28	5/ 9	31	9/24	31	10/10	28	11/ 4	24	11/18	20	11/24	16260	219	205	178	138	
LEXINGTON	92	7/11	-9	12/23	2/25	16	3/ 2	20	4/12	22	4/14	27	4/24	32	10/ 9	31	11/ 4	26	11/18	24	11/24	16	11/24	16272	267	220	204	168	
MONTEREY	89	7/11			3/ 9	16	4/12	19	4/14	24	5/ 7	27	5/ 8	32	9/24	30	9/28	28	MSG		MSG		MSG						144
ROANOKE WSO AIRPORT	94	9/10	-2	12/23	2/10	14	2/25	17	4/12	24	4/12	24	4/14	32	10/10	32	11/ 4	26	11/24	22	11/25	20	12/14	14307	273	226	206	179	
STAUNTON SEWAGE PLANT	92	7/12	-13	12/23	2/25	11	4/12	19	4/14	23	4/24	28	4/24	28	10/ 9	31	10/23	28	11/ 4	23	11/24	10	11/24	10272	226	204	182	168	
TIMBERVILLE 3 E	96	6/ 1	-15	12/23	3/ 1	12	4/12	20	4/14	22	4/24	26	4/24	26	10/ 9	30	11/ 4	22	11/ 4	22	11/19	19	11/24	16268	221	204	194	168	
SOUTHWESTERN MOUNTAIN 06																													
ABINGDON 3 S					2/25	11	2/26	19	4/12	23	5/ 7	28	5/ 7	28	MSG		MSG		MSG		MSG		MSG						
BLACKSBURG 3 SE			-10	12/23	2/26	13	3/ 9	20	4/13	22	4/13	22	5/10	30	10/ 9	30	11/ 2	28	11/ 4	24	11/19	17	12/ 4	16281	255	205	203	152	
BURKES GARDEN	84	7/25	-22	12/24	4/12	16	4/13	20	5/ 8	23	5/14	25	5/14	25	9/24	32	10/ 5	26	10/28	22	11/ 4	20	11/24	16226	205	173	144	133	
FLOYD 2 NE	86	7/11	-11	12/23	2/25	12	4/12	18	4/14	23	5/13	28	5/13	28	9/28	29	10/10	28	11/ 4	20	11/25	15273	206	204	150	138			
GALAX RADIO WBOB	90	7/11	-8	12/23	2/25	8	4/12	19	4/13	24	5/13	27	5/13	27	10/ 5	31	10/21	26	10/29	23	11/18	18	11/24	16272	220	199	161	145	
GRUNDY	94	7/28	-11	12/24	2/26	15	2/26	15	4/13	24	4/15	26	5/ 9	31	10/ 9	30	11/ 4	22	11/ 4	22	11/19	20	11/24	14271	266	205	203	153	
LEBANON					MSG		MSG		MSG		MSG		MSG		10/ 9	29	10/10	28	11/ 4	24	11/19	20	11/24	16					
MARION					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG						
MOUNT LAKE BIOL STN	81	8/22	-18	12/22	4/12	14	5/ 7	19	5/12	24	5/12	24	5/28	31	9/23	32	9/24	20	9/24	20	9/24	20	11/ 4	13206	140	135	135	118	
PENNINGTON GAP	91	7/26	-4	12/23	2/25	12	2/25	12	4/13	22	5/ 8	27	5/13	32	10/ 5	32	10/21	28	11/ 4	24	11/18	20	11/24	16272	266	205	166	145	
PULASKI	89	7/11	-12	12/23	2/25	14	4/12	20	4/12	20	4/16	28	5/13	31	9/27	32	11/ 4	23	11/ 4	23	11/24	19	12/14	15292	226	206	202	137	
RICHLANDS					MSG		MSG		MSG		MSG		MSG		10/ 6	32	11/ 4	24	11/ 4	24	11/19	20	11/24	15					
STAFFORDSVILLE 3 ENE	92	7/10	-12	12/23	2/25	12	4/12	19	4/14	22	5/ 4	28	5/13	30	9/24	30	10/ 5	28	10/28	24	11/ 4	20	11/24	16272	206	197	154	134	
WISE 1 SE	86	7/11	-11	12/23	2/25	6	2/25	6	4/11	23	5/ 8	28	5/ 8	28	9/24	32	10/21	28	11/ 4	24	11/17	18	11/23	15271	265	207	166	139	
WYTHEVILLE 1 S	90	7/25	-13	12/24	2/26	14	4/13	17	4/14	24	4/15	25	5/14	31	10/ 5	30	10/ 9	28	11/ 4	21	11/24	18	12/ 4	16281	225	204	177	144	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS BASE=65 DEGREES FAHRENHEIT

VIRGINIA
1989

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
VIRGINIA														
TIDEWATER 01														
BACK BAY WILDLIFE REFU	-	B	8	B	19	-	-	434	-	411	-	-	-	-
COLONIAL BEACH	0	0	0	27	10	-	-	390	424	364	234	43	2	-
EMPORIA 1 WNW	0	0	0	15	16	68	-	325	347	302	189	28	3	-
FREDERICKSBURG NATL PK	0	B	0	15	1	39	-	254	306	233	127	28	5	1293
HOLLAND 1 E	0	0	6	19	30	90	-	378	390	357	242	42	6	1560
HOPEWELL	0	0	4	34	53	129	-	414	461	399	264	-	7	1571
KILMARNOCK 1 N	0	0	2	23	13	75	-	339	367	302	198	22	3	1344
LANGLEY AIR FORCE BASE	0	0	8	20	-	-	-	384	410	394	261	75	1	1472
MATHEWS 2 ENE	0	0	3	27	9	71	-	346	389	327	239	41	6	1458
NORFOLK WSO AIRPORT	0	0	9	30	31	106	-	412	447	399	286	69	10	1799
PAINTER 2 W	0	0	0	23	14	69	-	373	402	368	234	55	6	1544
STONY CREEK 3 ESE	0	0	5	-	0	89	-	-	353	348	231	48	0	-
SUFFOLK LAKE KILBY	0	0	6	11	34	104	-	367	395	292	183	20	0	1412
TANGIER ISLAND	B	0	0	0	1	83	-	412	444	424	302	66	0	1377
WAKEFIELD 2	0	0	0	16	4	91	-	397	-	486	226	-	4	-
WALKERTON 2 NW	0	0	0	34	25	89	-	351	381	330	221	36	4	1471
WARSAW 2 NW	0	0	0	30	20	97	-	357	381	323	216	44	4	1472
WEST POINT 2 SW	0	0	1	34	38	100	-	372	383	320	210	44	5	1507
WILLIAMSBURG 2 N	0	0	1	22	13	84	-	342	392	352	231	42	3	1482
EASTERN PIEDMONT 02														
AMELIA 4 SW	0	0	13	9	46	266	294	236	146	19	0	0	1029	-
ASHLAND	B	0	0	23	B	20	88	317	361	301	182	32	0	1324
BREMO BLUFF	0	0	13	B	69	312	345	-	-	-	0	0	0	-
CAMP PICKETT	0	0	2	19	59	311	349	294	192	26	2	0	1273	-
CHASE CITY	B	0	2	15	29	79	357	395	338	212	28	0	B	1455
CORBIN	0	0	0	22	7	71	284	344	262	162	36	2	0	1190
CROZIER	0	0	0	22	17	76	330	369	310	199	35	3	0	1361
FARMVILLE 2 N	0	0	1	18	22	59	320	349	280	169	33	2	0	1253
JOHN H KERR DAM	0	0	0	14	21	81	359	396	355	229	48	4	0	1507
LAWRENCEVILLE 5 W	0	0	2	9	5	77	303	385	B	327	221	50	0	1379
LOUISA	0	0	0	23	17	B	74	285	353	298	169	38	0	1257
RICHMOND WSO AIRPORT	R	0	3	24	27	88	341	403	331	218	42	4	0	1481
WESTERN PIEDMONT 03														
APPOMATTOX	0	0	7	B	1	67	297	357	287	161	34	1	0	1212
BEDFORD	0	0	7	B	14	41	200	271	172	101	4	0	0	810
CHARLOTTE COURT HSE 3W	0	0	4	B	20	75	310	338	287	179	36	0	0	1276
CHARLOTTESVILLE 2 W	0	0	0	21	16	91	289	324	265	127	37	0	B	1170
CHATHAM	0	0	13	13	26	251	-	-	226	130	9	0	0	-
DANVILLE	0	0	1	19	41	98	381	424	-	226	40	0	0	1384
LYNCHBURG WSO AIRPORT	R	0	0	13	22	70	276	339	281	150	26	0	0	1074
MARTINSVILLE FILTER PL	B	0	0	14	37	73	275	334	250	160	13	0	0	1156
MONTICELLO	0	B	0	0	B	8	54	217	293	265	128	25	0	997
PHILPOTT DAM 2	0	0	1	13	19	40	254	370	293	166	31	0	0	1187
ROCKY MOUNT	0	B	0	-	22	68	245	328	268	145	34	0	0	-
SOUTH BOSTON	0	0	0	15	B	20	54	330	-	338	221	32	0	-
STUART 1 SSE	0	0	1	11	B	30	95	258	-	-	-	-	0	-
TYE RIVER 1 SE	0	0	0	17	23	64	281	335	281	132	23	0	0	1156
NORTHERN 04														
BIG MEADOWS	0	0	2	-	B	13	39	72	B	54	14	1	0	206
CULPEPER	0	0	-	-	89	307	369	296	-	164	30	-	0	1129
LINCOLN	0	0	16	12	79	274	346	316	172	172	30	0	0	1245
LURAY 5 E	0	0	11	0	44	205	288	185	111	35	0	0	0	879
MOUNT WEATHER	0	0	9	0	49	162	231	159	87	22	0	0	0	719
PIEDMONT RESEARCH STN	0	0	16	6	70	284	333	259	149	30	0	0	0	1147
STERLING RCS	0	0	16	1	57	249	318	243	130	21	2	0	0	1037
WARRENTON 3 SE	0	0	11	1	62	261	329	253	160	23	0	0	0	1100
WASHINGTON WSO DULLES	0	0	16	9	63	270	343	305	176	27	1	0	0	1210

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS
BASE=65 DEGREES FAHRENHEIT

VIRGINIA
1989

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
WASHINGTON NATL WSCMO	R	0	0	16	14	91	362	417	381	233	33	1	0	1548	1430
WINCHESTER 'WINC'		0	0	11	2	50	208	273	210	121	17	1	0	893	
WINCHESTER 3 ESE		-	-	14	1	52	213	281	205	116	-	0	0	-	985
WOODSTOCK 2 NE		0	0	12	3	60	224	303	239	123	17	0	0	981	936
CENTRAL MOUNTAIN 05															
BUCHANAN		-	-	-	-	-	309	377	323	171	29	0	0	-	1066
COVINGTON FILTER PLANT		0	B	7	19	68	263	348	302	162	29	0	0	B 1198	
DALE ENTERPRISE		0	0	9	5	55	212	281	223	107	9	0	0	901	773
GATHRIGHT DAM		0	0	8	0	24	168	243	188	95	6	0	0	732	
HOT SPRINGS		0	0	2	0	22	132	198	150	77	2	0	0	583	535
LEXINGTON		0	0	10	17	60	252	310	244	134	9	0	0	1036	979
MONTEREY		0	0	0	0	15	77	155	94	53	1	-	-	-	
ROANOKE WSO AIRPORT	R	0	0	17	27	61	265	344	293	163	38	0	0	1208	1085
STAUNTON SEWAGE PLANT		0	0	8	1	28	167	250	186	90	2	0	0	732	809
TIMBERVILLE 3 E		0	0	B	9	54	237	310	250	131	17	0	0	B 1010	823
SOUTHWESTERN MOUNTAIN 06															
ABINGDON 3 S		0	B	7	17	41	180	270	212	112	-	-	0	-	
BLACKSBURG 3 SE		0	0	5	4	14	152	-	161	89	1	0	0	-	585
BURKES GARDEN		0	0	0	0	8	58	100	87	35	0	0	0	288	252
FLOYD 2 NE		0	0	1	3	B 12	94	165	141	62	3	0	0	B 481	544
GALAX RADIO WBOB		0	0	3	5	19	124	189	192	86	3	0	0	621	
GRUNDY		0	0	0	20	33	205	315	272	138	11	0	0	994	
LEBANON		-	-	-	-	-	-	-	-	106	1	0	0	-	
MARION		-	-	-	-	18	-	-	-	-	-	-	-	-	
MOUNT LAKE BIOL STN		0	0	0	0	3	10	26	9	1	0	0	0	49	
PENNINGTON GAP		0	0	9	24	B 57	181	291	264	143	17	0	0	B 986	830
PULASKI		0	0	4	5	26	151	207	180	70	0	0	0	643	
RICHLANDS		-	-	-	-	-	-	238	194	103	0	0	0	-	
STAFFORDSVILLE 3 ENE		0	0	0	B	40	179	281	228	120	18	0	0	B 873	
WISE 1 SE		0	0	7	12	23	90	191	168	67	2	0	0	560	
WYTHEVILLE 1 S		0	0	0	2	16	143	218	189	93	1	0	0	662	576

SEE REFERENCE NOTES FOLLOWING STATION INDEX

TOTAL EVAPORATION AND WIND MOVEMENT

VIRGINIA
1989

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
VIRGINIA														
TIDEWATER	01													
HOLLAND 1 E		WIND	-	-	-	B 1054	875	727	B 431	423	844	723	-	-
		EVAP	-	-	-	B 5.32	6.24	6.96	B 6.96	B 5.73	B 5.13	3.75	-	-
		MAX TEMP	-	-	-	68.4	77.5	90.1	89.6	85.7	80.7	69.2	-	M
		MIN TEMP	-	-	-	43.4	52.4	65.3	67.2	66.3	59.8	48.6	-	M
EASTERN PIEDMONT	02													
JOHN H KERR DAM		WIND	-	-	1896	1351	1262	1514	1262	1252	1571	1236	1739	-
		EVAP	-	-	-	B 4.29	5.03	B 6.80	6.49	5.57	3.89	3.42	2.67	-
		MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-
		MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-
WESTERN PIEDMONT	03													
PHILPOTT DAM 2		WIND	-	-	-	797	821	510	409	465	639	635	987	-
		EVAP	-	-	-	3.45	B 4.79	B 4.82	4.95	4.04	2.87	B 2.18	1.57	-
		MAX TEMP	-	-	-	M 68.8	75.2	87.2	-	-	-	-	-	M
		MIN TEMP	-	-	-	M 44.6	50.3	64.0	-	-	-	-	-	M
NORTHERN	04													
PIEDMONT RESEARCH STN		WIND	-	-	-	1739	1472	1295	842	775	832	847	-	-
		EVAP	-	-	-	B 5.21	B 6.08	B 6.66	B 6.04	4.71	B 3.86	B 3.64	-	-
		MAX TEMP	-	-	-	67.9	76.7	90.3	90.8	87.0	81.3	72.0	-	M
		MIN TEMP	-	-	-	44.8	54.0	67.8	70.6	68.7	61.9	50.1	-	M
CENTRAL MOUNTAIN	05													
GATHRIGHT DAM		WIND	-	-	-	-	926	505	464	455	465	688	-	-
		EVAP	-	-	-	-	4.01	4.92	4.77	4.01	2.87	2.56	-	-
		MAX TEMP	-	-	-	-	65.0	80.4	83.3	80.8	70.5	60.1	-	M
		MIN TEMP	-	-	-	-	44.5	58.8	61.1	59.3	53.1	41.6	-	M
SOUTHWESTERN MOUNTAIN	06													
MARION		WIND	-	-	-	-	-	-	-	-	-	-	-	-
		EVAP	-	-	-	-	-	-	-	-	-	-	-	-
		MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-
		MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

VIRGINIA
1989

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE REFERENCE NOTES
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
VIRGINIA												
ABINGDON 3 S	0021	06	WASHINGTON	36 40	81 58 W	1923	21	21	0			H
ALLISONIA 2 SSE	0135	06	PULASKI	36 54	80 44 W	1850	0	38	0			
ALTAVISTA	0166	03	CAMPBELL	37 6	79 18 W	510	0	44	0			C H
AMELIA 4 SW	0187	02	AMELIA	37 18	78 22 W	358	21	21	0			
APPOMATTOX	0243	03	APPOMATTOX	37 22	78 50 W	909	28	51	0			
ASHLAND	0327	02	HANOVER	37 45	77 29 W	220	77	77	0			H
BACK BAY WILDLIFE REFU	0385	01		36 40	75 55 W	10	37	37	0			
BEDFORD	0551	03	BEDFORD	37 21	79 31 W	975	61	75	0			
BIG MEADOWS	0720	04	MADISON	38 31	78 26 W	3536	54	54	0			H
BIG STONE GAP	0735	06	WISE	36 51	82 48 W	1864	0	0	0	JUNE		H
BLACKSBURG 3 SE	0766	06	MONTGOMERY	37 11	80 25 W	2000	38	38	0			H
BLAND	0792	06	BLAND	37 6	81 6 W	2000	0	39	0			H
BREMO BLUFF	0993	02	FLUVANNA	37 42	78 18 W	225	4	49	0			C
BROOKNEAL	1082	03	CAMPBELL	37 3	78 56 W	445	12	38	0			
BUCHANAN	1121	05	BOTETOURT	37 32	79 41 W	880	68	85	0			
BUCKINGHAM	1136	02	BUCKINGHAM	37 33	78 33 W	459	0	54	0			H
BUENA VISTA	1159	05	ROCKBRIDGE	37 44	79 21 W	840	0	52	0			
BURKES GARDEN	1209	06	TAZEWELL	37 5	81 20 W	3304	92	94	0			H
BYLLESBY 3 W	1259	06	CARROLL	36 48	80 59 W	2610	0	24	0			
CAMP PICKETT	1322	02	NOTTOWAY	37 2	77 57 W	330	18	18	0			C H
CHARLOTTE COURT HSE 3W	1585	03	CHARLOTTE	37 4	78 42 W	590	43	43	0			
CHARLOTTESVILLE 2 W	1593	03	ALBEMARLE	38 2	78 31 W	869	86	113	0			
CHASE CITY	1606	02	MECKLENBURG	36 50	78 28 W	512	42	42	0			C
CHATHAM	1614	03	PITTSYLVANIA	36 49	79 24 W	640	66	66	0			
CLARKSVILLE	1746	02	MECKLENBURG	36 37	78 34 W	310	0	98	0			H
COLONIAL BEACH	1913	01	WESTMORELAND	38 15	76 58 W	10	27	27	0			
CONCORD 4 SSW	1955	03	CAMPBELL	37 18	78 59 W	640	0	40	0			H
COPPER HILL 1 NNE	1999	06	FLOYD	37 6	80 8 W	2723	0	48	0			H
CORBIN	2009	02	CAROLINE	38 12	77 22 W	220	31	31	0			H
COVINGTON	2041	05	ALLEGHANY	37 48	80 0 W	1250	0	52	0			H
COVINGTON FILTER PLANT	2044	05	ALLEGHANY	37 48	80 0 W	1230	29	29	0			C
CRAIGSVILLE 2 S	2064	05	AUGUSTA	38 3	79 23 W	1782	0	27	0			H
CROZIER	2142	02	GOOCHLAND	37 38	77 48 W	302	14	51	0			H
CULPEPER	2155	04	CULPEPER	38 29	77 59 W	475	77	79	0			
CUMBERLAND	2160	02	CUMBERLAND	37 30	78 15 W	459	0	11	0			H
DALE ENTERPRISE	2208	05	ROCKINGHAM	38 27	78 56 W	1400	107	109	0			C
DANVILLE	2245	03	PITTSYLVANIA	36 35	79 23 W	410	72	99	0			H
EARLEHURST	2600	05	ALLEGHANY	37 40	80 14 W	2041	0	14	0			H
EMPORIA 1 HNW	2790	01	GREENSVILLE	36 41	77 33 W	100	7	59	0			H
FARMVILLE 2 N	2941	02	CUMBERLAND	37 20	78 23 W	449	68	70	0			
FLOYD 2 NE	3071	06	FLOYD	36 56	80 18 W	2598	57	57	0			H
FREDERICKSBURG NATL PK	3192	01	SPOTSYLVANIA	38 19	77 27 W	90	96	98	0			
FREE UNION	3213	03	ALBEMARLE	38 5	78 34 W	570	0	35	0			
GALAX RADIO WBOB	3267	06	CARROLL	36 40	80 55 W	2386	35	46	0			
GATHRIGHT DAM	3310	05	ALLEGHANY	37 57	79 57 W	1770	11	11	11			C
GLASGOW 1 SE	3375	05	ROCKBRIDGE	37 37	79 26 W	740	0	23	0			H
GLEN LYN	3397	06	GILES	37 22	80 52 W	1522	48	76	0			H
GORDONSVILLE 3 S	3466	02	LOUISA	38 5	78 11 W	459	0	29	0			H
GOSHEN	3470	05	ROCKBRIDGE	37 59	79 30 W	1352	0	50	0			
GRUNDY	3640	06	BUCHANAN	37 16	82 5 W	1170	29	39	0			H
HILLSVILLE	3991	06	CARROLL	36 44	80 44 W	2590	0	47	0			H
HOLLAND 1 E	4044	01	NANSEMOND	36 41	76 47 W	80	57	57	1			H
HOPEWELL	4101	01	PRINCE GEORG	37 18	77 18 W	39	97	102	0			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

VIRGINIA
1989

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE REFERENCE NOTES
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
HOT SPRINGS	4128	05	BATH	38 0	79 50W	2236	96	98	0			C H
HUDDLESTON 4 SW	4148	03	BEDFORD	37 8	79 32W	2970	0	40	0			
INDEPENDENCE 2	4234	06	GRAYSON	36 39	81 10W	2612	0	37	0		JULY	C H
JOHN W FLANNAGAN LAKE	4410	06	DICKENSON	37 14	82 21W	1462	0	21	0			C
JOHN H KERR DAM	4414	02	MECKLENBURG	36 36	78 17W	2850	41	41	38			C
KERRS CREEK 6 WNW	4565	05	ROCKBRIDGE	37 51	79 35W	1500	0	28	0			
KEYSVILLE 8 N	4568	02	PRINCE EDWARD	37 10	78 31W	551	0	11	0			
KILMARNOCK 1 N	4600	01	LANCASTER	37 43	76 23W	559	11	11	0			H H
LAFAYETTE 1 NE	4676	06	MONTGOMERY	37 14	80 13W	1320	0	39	0			H H
LANGLEY AIR FORCE BASE	4720	01		37 5	76 21W	13	104	153	0			H
LAWRENCEVILLE 5 W	4768	02	BRUNSWICK	36 46	77 56W	302	44	44	0		JUNE	H H
LEBANON	4777	06	RUSSELL	36 55	82 4W	1710	1	1	0			H H
LEXINGTON	4876	05	ROCKBRIDGE	37 47	79 26W	1060	111	118	0			H H
LINCOLN	4909	04	LOUDOUN	39 7	77 43W	500	88	89	0			H H
LOUISA	5050	02	LOUISA	38 2	78 0W	420	74	74	0			H H
LURAY 5 E	5096	04	PAGE	38 40	78 23W	1201	48	48	0			H H
LYNCHBURG WSO AIRPORT	R 5120	03	CAMPBELL	37 20	79 12W	921	118	118	0			C H J
MARION	5271	06	SMYTH	36 49	81 31W	2100	30	30	30		AUG	
MARTINSVILLE FILTER PL	5300	03	HENRY	36 42	79 53W	760	50	58	0			
MATHEWS 2 ENE	5338	01	MATHEWS	37 27	76 17W	10	39	39	0			
MCDOWELL 3 W	5416	05	HIGHLAND	38 21	79 32W	2400	0	10	0			H H
MEADOWS OF DAN 5 SW	5453	03	PATRICK	36 40	80 27W	1500	0	40	0			C
MILLGAP 2 NNW	5595	05	HIGHLAND	38 21	79 43W	2520	0	14	0			
MONTEBELLO 2 NE	5685	03	NELSON	37 53	79 8W	2681	0	52	0			H H
MONTEREY	5698	05	HIGHLAND	38 25	79 35W	2923	48	64	0			H H
MONTICELLO	5700	03	ALBEMARLE	38 1	78 27W	780	8	8	0			
MOUNTAIN GROVE	5756	05	BATH	38 6	79 53W	1772	0	14	0			
MOUNT LAKE BIOL STN	5828	06	GILES	37 23	80 32W	3872	19	19	0			
MOUNT WEATHER	5851	04	LOUDOUN	39 4	77 53W	1720	85	86	0			
NEWPORT 2 NNW	6046	06	GILES	37 19	80 31W	2060	0	44	0			
NORFOLK WSO AIRPORT	6139	01		36 54	76 12W	24	44	44	0			C H J
NORTH FORK LAKE	6173	06	WISE	37 8	82 38W	1680	0	21	0			H H
PAINTER 2 W	6475	01	ACCOMACK	37 35	75 49W	30	34	34	0			C H H
PALMYRA 1 E	6491	02	FLUVANNA	37 52	78 15W	410	0	33	0			H H
PENNINGTON GAP	6626	06	LEE	36 45	83 3W	1513	57	57	0			C H
PHILPOTT DAM 2	6692	03	HENRY	36 47	80 2W	1123	37	37	37			C H
PIEDMONT RESEARCH STN	6712	04	ORANGE	38 13	78 7W	515	42	43	17			C H
POWATAN	6906	02	POWATAN	37 33	77 56W	370	0	30	0			C H
PULASKI	6955	06	PULASKI	37 4	80 47W	1850	29	29	0			C H
RADFORD	6999	06		37 8	80 33W	1732	0	22	0			
RICHLANDS	7174	06	TAZWELL	37 6	81 50W	1910	1	1	0		APR	H H J
RICHMOND WSO AIRPORT	R 7201	02	HENRICO	37 30	77 20W	164	52	52	0			C H J
ROANOKE WSO AIRPORT #	R 7285	05	ROANOKE	37 19	79 58W	1149	55	57	0			C H H
ROCKFISH	7312	03	NELSON	37 48	78 45W	485	0	52	0			C H
ROCKY MOUNT	7338	03	FRANKLIN	37 0	79 54W	1232	96	96	0		FEB	C H
ROSELAND 1 NNW	7402	03	ROSELAND	37 48	78 59W	880	0	4	0			H H
SALTVILLE 1 N	7506	06	SMYTH	36 53	81 46W	1733	57	59	0		AUG	H H
SOUTH BOSTON	7925	03	HALIFAX	36 42	78 53W	340	34	34	0			
STAFFORDSVILLE 3 ENE	8022	06	GILES	37 16	80 43W	1952	20	38	0			H H
STAUNTON SEWAGE PLANT	8062	05	AUGUSTA	38 9	79 2W	1390	97	103	0			C H H
STERLING RCS	8084	04	LOUDOUN	38 59	77 28W	279	13	13	0			
STONY CREEK 3 ESE	8129	01	SUSSEX	36 55	77 21W	770	31	31	0			H H
STUART 1 SSE	8170	03	PATRICK	36 38	80 16W	1455	30	30	0			H
SUFFOLK LAKE KILBY	8192	01	NANSEMOND	36 44	76 36W	20	43	43	0			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

STATION INDEX

VIRGINIA
1989

STATION	INDEX NO.	DIVISION NO.	COUNTY	LATITUDE	LONGITUDE	ELEVATION FEET	YEARS OF RECORD			OPENED OR CLOSED DURING YR		SEE REFERENCE NOTES
							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
TANGIER ISLAND	8323	01	ACCOMACK	37 50	76 0W	10	37	37	0			H
THE PLAINS 2 NNE	8396	04	FAUQUIER	38 54	77 45W	530	40	44	00			C H
TIMBERVILLE 3 E	8448	05	ROCKINGHAM	38 39	78 43W	1000	47	58	00			C H
TROUT DALE 3 SSE	8547	06	GRAYSON	36 40	81 24W	2820	0	54	00			C
TYE RIVER 1 SE	8600	03	NELSON	37 38	78 56W	722	27	51	00			
VIENNA DUNN LORING	8737	04	FAIRFAX	38 54	77 13W	420	0	41	00			H
WAKEFIELD 2	8800	01	SUSSEX	36 59	77 0W	90	15	15	00			C
WALKERTON 2 NW	8829	01	KING AND QUE	37 45	77 3W	49	56	57	00			H
WALLACETON LK DRUMMOND	8837	01		36 36	76 26W	30	0	63	0			
WARRENTON 3 SE	8888	04	FAUQUIER	38 41	77 46W	502	39	39	0			H
WARSAW 2 NW	8894	01	RICHMOND	37 59	76 46W	141	39	39	00			H
WASHINGTON WSO DULLES	8903	04	LOUDOUN	38 57	77 27W	290	28	28	00			H
WASHINGTON NATL WSCMO	8906	04	ARLINGTON	38 51	77 2W	10	49	49	00			C H
WEST AUGUSTA	8975	05	AUGUSTA	38 16	79 19W	1890	0	10	00		JULY	
WEST POINT 2 SW	9025	01	NEW KENT	37 31	76 50W	18	36	36	00			H
WILLIAMSBURG 2 N	9151	01	YORK	37 18	76 42W	70	39	44	00			C
WILLIS	9169	06	FLOYD	36 51	80 29W	2900	0	11	00			
WINCHESTER 'WINC'	9181	04	FREDERICK	39 11	78 9W	720	8	8	0			H
WINCHESTER 3 ESE	9186	04	FREDERICK	39 11	78 7W	679	84	83	0			H
WINTERPOCK 4 W	9213	02	CHESTERFIELD	37 20	77 39W	302	0	11	00			H
WISE 1	9215	06	WISE	36 58	82 34W	2570	35	35	00			C
WOODSTOCK 2 NE	9263	04	SHENANDOAH	38 54	78 28W	659	91	97	00			H
WOOLWINE	9272	03	PATRICK	36 43	80 17W	1520	0	39	00			C
WYTHEVILLE 1 S	9301	06	WYTHE	36 56	81 5W	2450	86	116	0			C H

SEE REFERENCE NOTES FOLLOWING STATION INDEX

REFERENCE NOTES

VIRGINIA
1989

DEFINITIONS

STATION NAMES: Name of the city, town or locality. Figures and letters following the station names indicate the distance in miles and direction from the post office or town community center.

DIVISIONS: Areas within a state of similar climatological characteristics. Division averages are calculated using data from stations that record both temperature and precipitation (ie: not precipitation alone).

NORMALS: The average value of the meteorological element over the time period - 1951-1980. The normals for National Weather Service localities have been adjusted so as to be representative for the current observation site.

TEMPERATURE EXTREMES AND FREEZE DATA: Spring minimum dates are obtained from data for January through June; fall dates are from July through December data. "NONE" indicates temperature threshold not reached. "MSG" indicates available data insufficient to determine date.

MONTHLY DEGREE DAY TOTALS: One heating (cooling) degree day is accumulated for each degree that the daily mean temperature is below (above) 65 deg. F.

SOIL TEMPERATURE EXTREMES: The highest and lowest MAX and MIN temperature for each month and the year.

WIND: (As shown in "Evaporation and Wind" table) The total wind movement in miles over the evaporation pan as determined by an anemometer recorder located 6-8 inches above the pan.

SYMBOLS AND LETTERS USED IN THE DATA TABLES

- No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
- * Rain gage not read. Precipitation is included in the amount following the asterisks. Time distribution not known.
- // Rain gage equipped with a windshield.
- A Amount of precipitation is the total of observer's entries for the current month. It may include precipitation that occurred during the previous month. Refer to monthly bulletins to determine date of last reading. (HAWAII stations)
- B Estimated total value for wind, evaporation, or cooling degree days.
- M Insufficient or partial data. M is appended to average and/or total values computed with 1-9 daily values missing. M appears alone if 10 or more daily values are missing.
- R Amounts from recording rain gage.
- T Trace. An amount too small to measure.
- V Includes total for previous month(s). (See * above)
- Z Same as M but the Z has overprinted a Negative sign or leading digit (eg. Z14.6 = M-14.6, Z08.2 = M108.2).

SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

- # Thermometers located in a rooftop shelter.
- C Station is equipped with a recording rain gage (R) but values in this bulletin are from a non-recording rain gage unless indicated by an R.
- G Observations appear in "Soil Temperatures" table.
- H Observations appear in "Snowfall and Snow on Ground" table in Monthly "Climatological Data" publications.
- J Station also published as a "Local Climatological Data" bulletin.

Seasonal Tables: Monthly and seasonal snowfall and heating degree days for the 12 months ending with the June data are published in the July issue of "Climatological Data".

Cooling degree days for the calendar year are published in the "Climatological Data Annual Summary".

Additional precipitation data are contained in the "Hourly Precipitation Data" bulletin for each state, except Alaska.

The graphic displays appearing in this publication were first produced for the 1986 annual. The types of graphs and the information they portray may vary from year to year and from state to state in order to highlight climatic features of state, regional, and historical interest. Some graphs present information for "clusters". A cluster is a group of up to four (4) adjacent divisions that comprise an area of similar climate.

Information concerning the history of changes in locations, exposure, etc. of substations is kept on file at the National Climatic Data Center. Similar historical information for regular National Weather Service Offices is available from the "Local Climatological Data" annual bulletin.

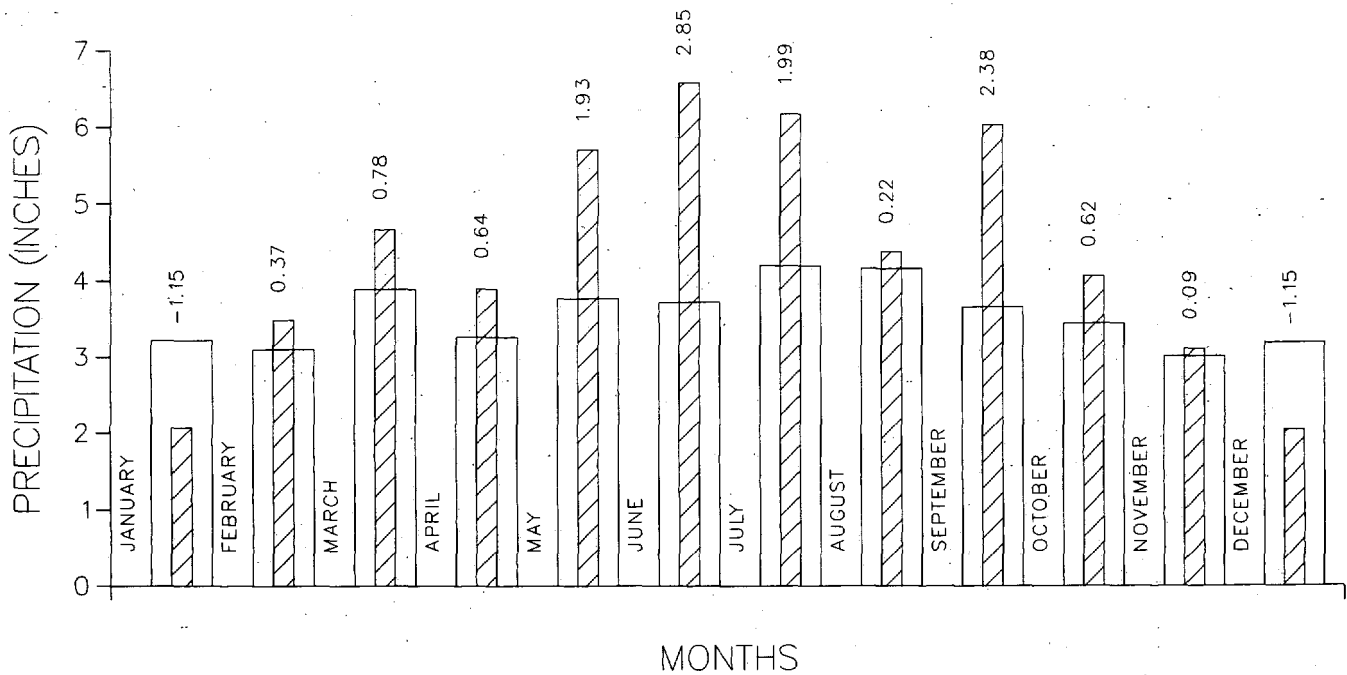
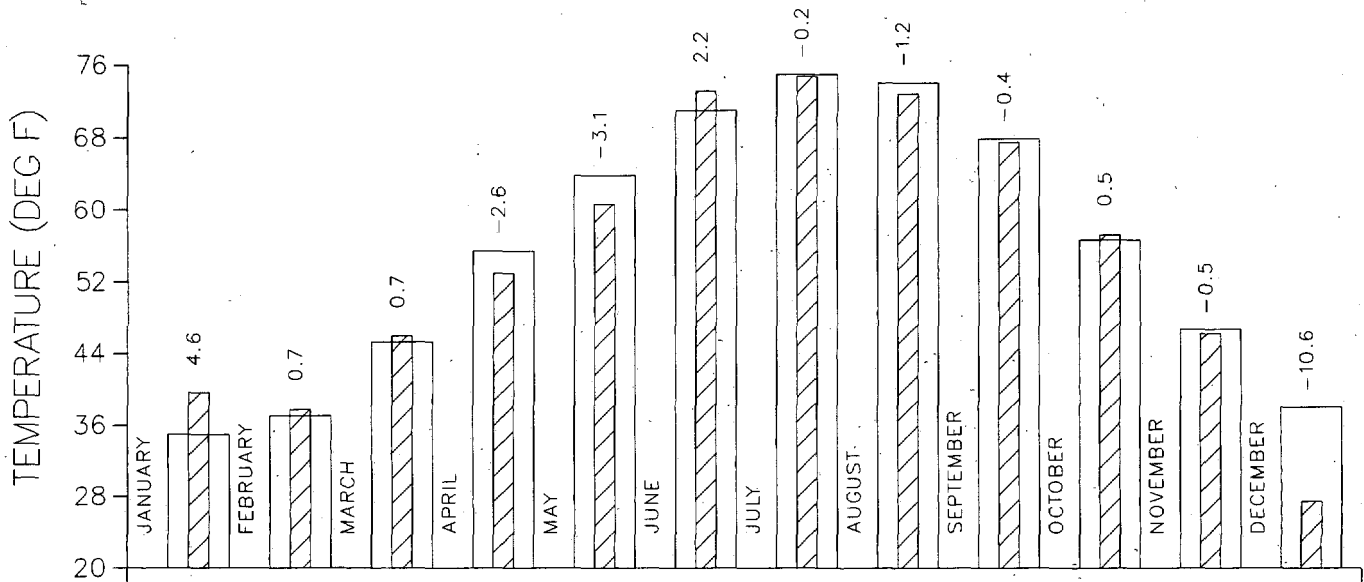
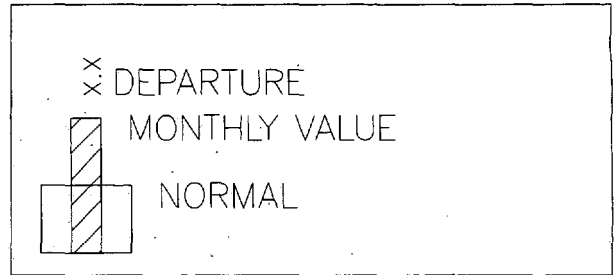
Additional Information regarding the climate of this state may be obtained by writing to the address below or to any weather service office near you. The contents of this publication may be reprinted or otherwise used freely with proper credit to the National Climatic Data Center. The data are also available in digital form on magnetic tape and diskette.

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NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N. C. 28801-2696

TEMPERATURE AND PRECIPITATION
AREALLY WEIGHTED STATE AVERAGES
AND DEPARTURES FROM NORMAL (1951-1980)
FOR 1989

VIRGINIA



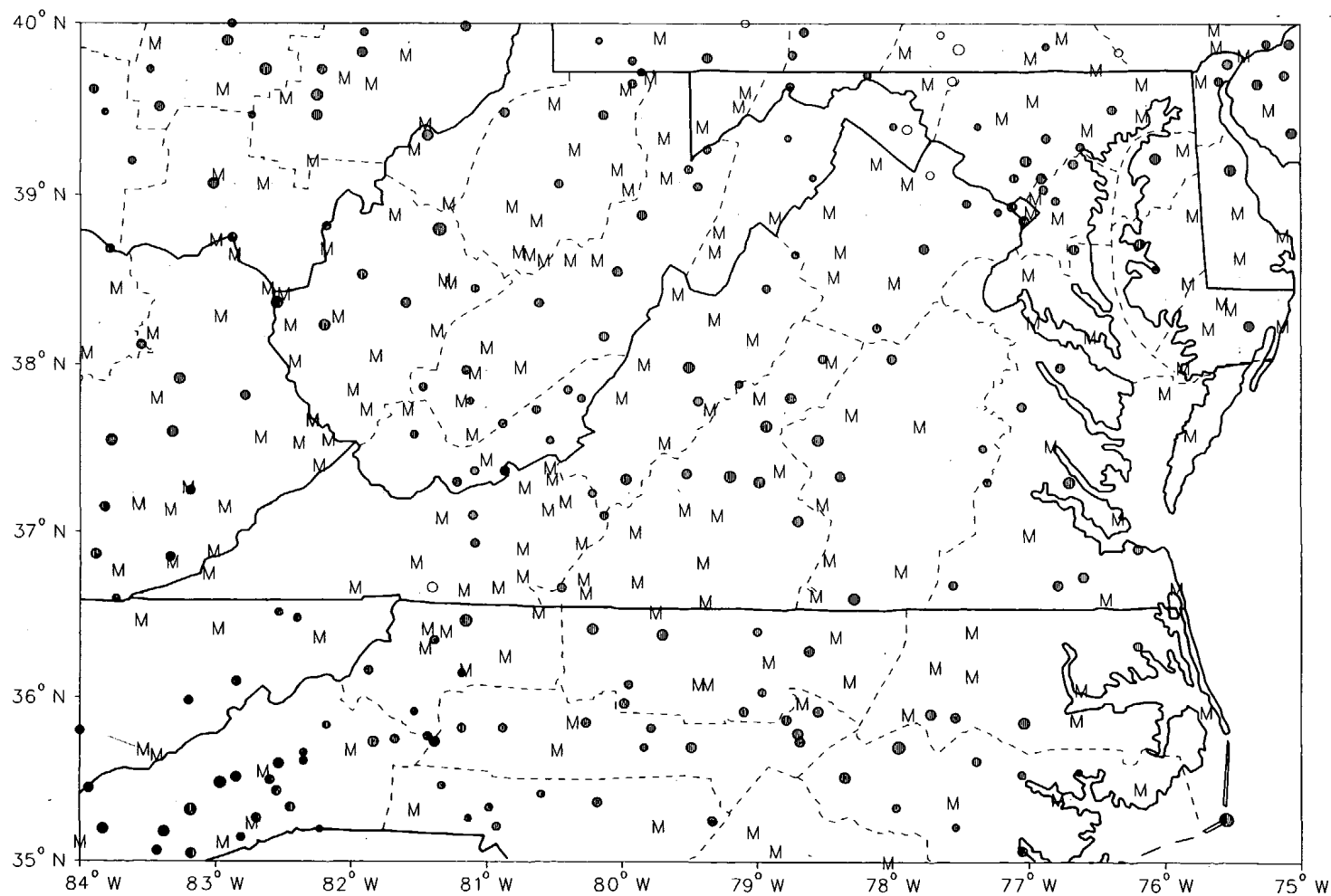
CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1951-1980) FOR 1989 VIRGINIA

M INCOMPLETE DATA FOR THE PERIOD

▽ EXACTLY NORMAL

○ ○ ○ ○ 5,10,20,... 50% OR MORE BELOW NORMAL

● ● ● ● 10,20,40,...100% OR MORE ABOVE NORMAL



CIRCLE DIAMETER IS PROPORTIONAL TO DEPARTURE ON A CONTINUOUS SCALE

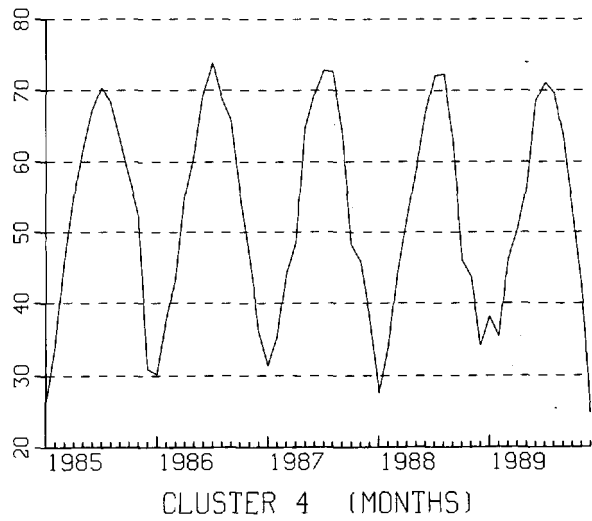
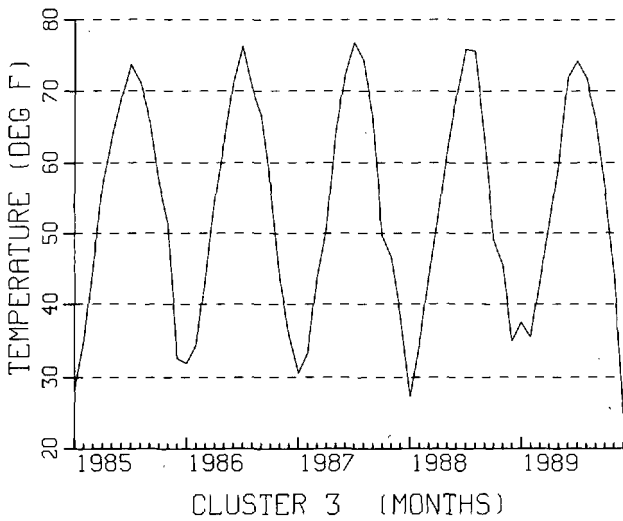
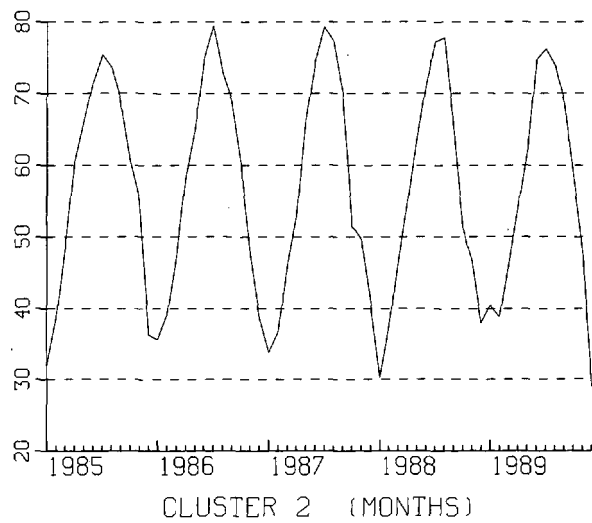
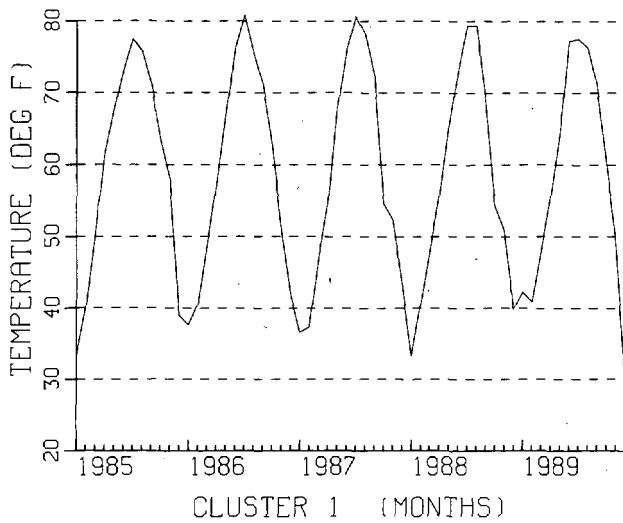
MONTHLY TEMPERATURE FOR THE LAST 60 MONTHS ENDING DECEMBER 1989 VIRGINIA

CLUSTER 1 -DIVISION(S):
TIDEWATER 01

CLUSTER 2 -DIVISION(S):
EASTERN PIEDMONT 02
WESTERN PIEDMONT 03

CLUSTER 3 -DIVISION(S):
NORTHERN 04
CENTRAL MOUNTAIN 05

CLUSTER 4 -DIVISION(S):
SOUTHWESTERN MOUNTAIN 06



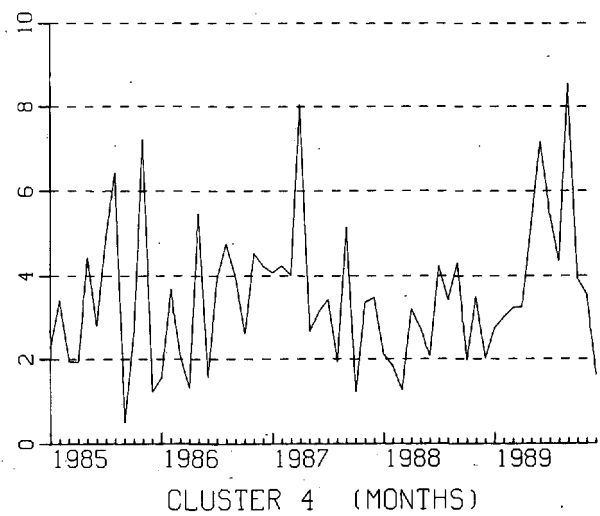
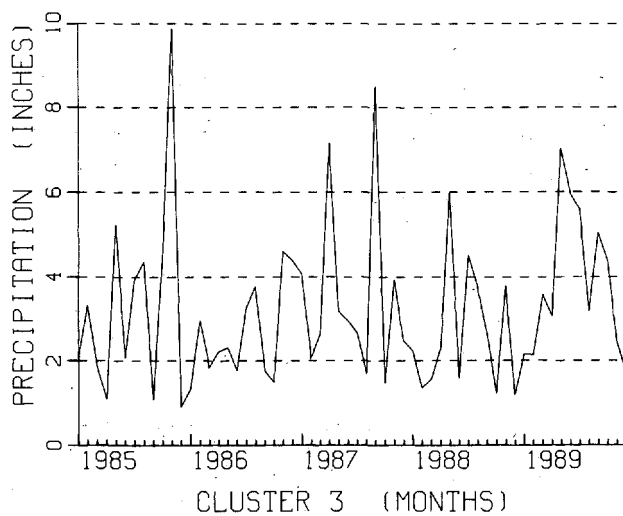
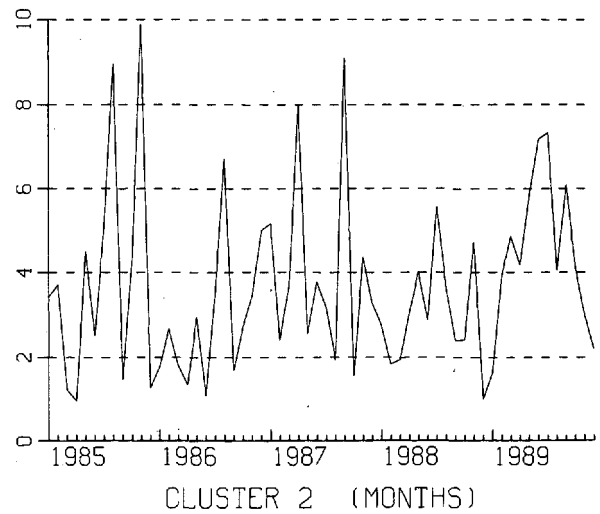
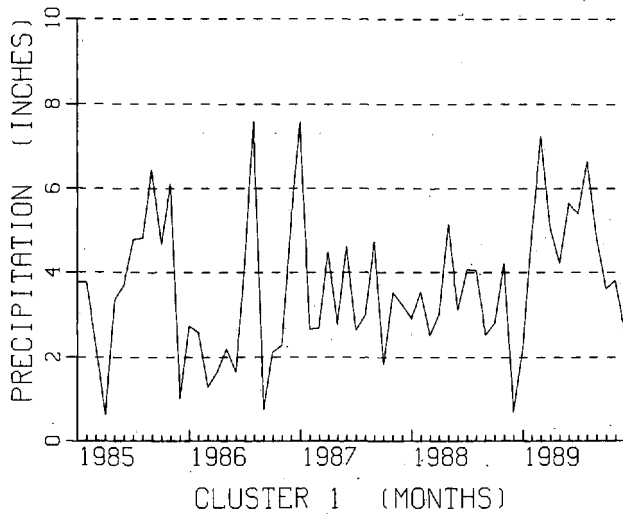
MONTHLY PRECIPITATION FOR THE LAST 60 MONTHS ENDING DECEMBER 1989 VIRGINIA

CLUSTER 1 -DIVISION(S):
TIDEWATER 01

CLUSTER 2 -DIVISION(S):
EASTERN PIEDMONT 02
WESTERN PIEDMONT 03

CLUSTER 3 -DIVISION(S):
NORTHERN 04
CENTRAL MOUNTAIN 05

CLUSTER 4 -DIVISION(S):
SOUTHWESTERN MOUNTAIN 06



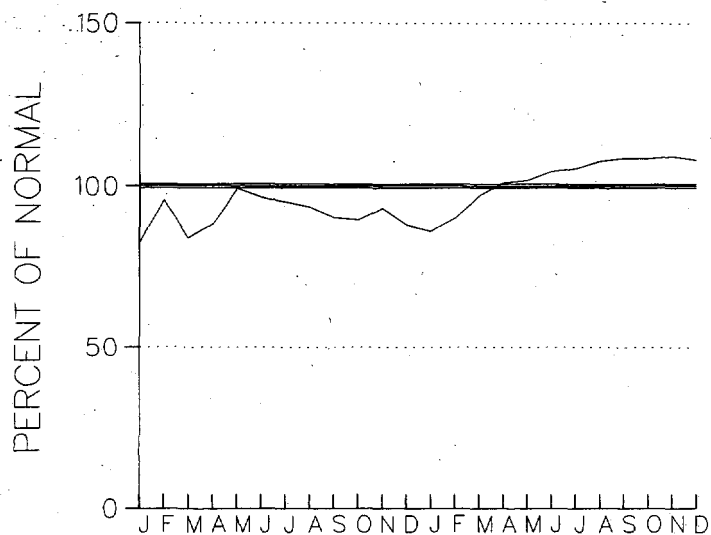
FOR THE LAST 24 MONTHS
ENDING DECEMBER 1989
VIRGINIA

CLUSTER 1 -DIVISION(S):
TIDEWATER 01

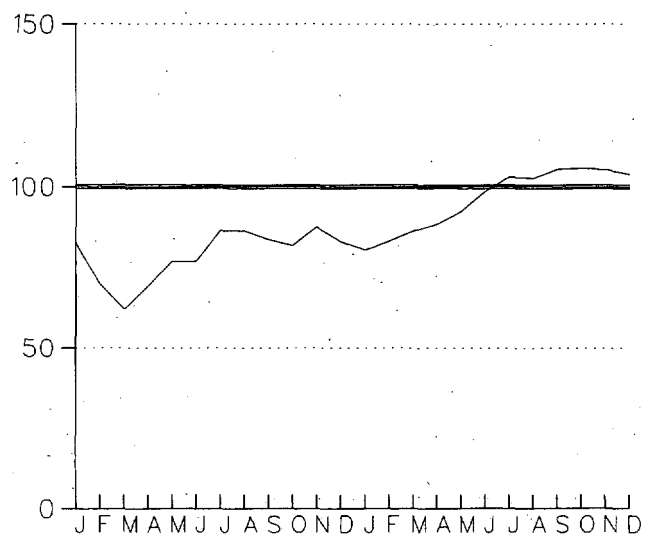
CLUSTER 2 -DIVISION(S):
EASTERN PIEDMONT 02
WESTERN PIEDMONT 03

CLUSTER 3 -DIVISION(S):
NORTHERN 04
CENTRAL MOUNTAIN 05

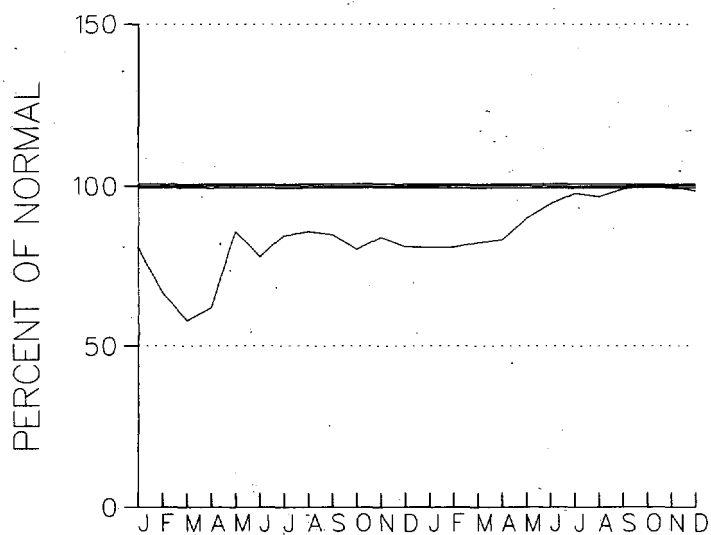
CLUSTER 4 -DIVISION(S):
SOUTHWESTERN MOUNTAIN 06



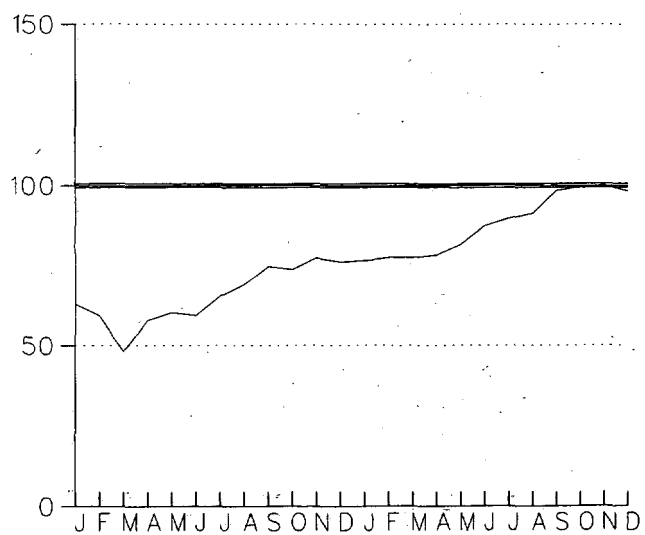
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4

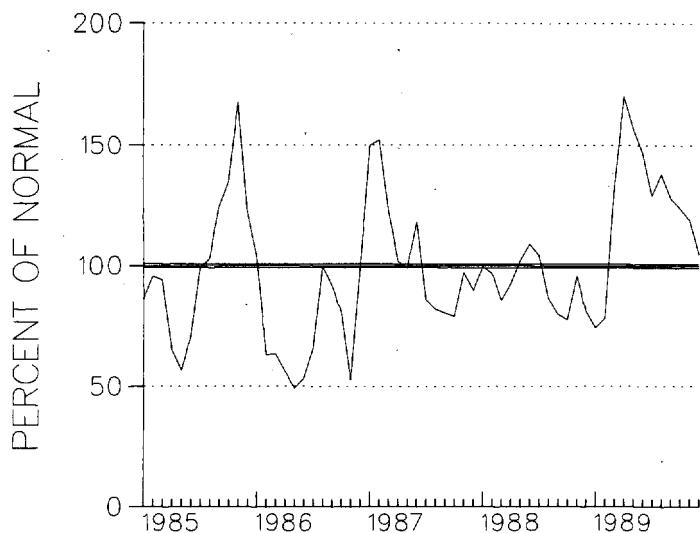
PRECIPITATION DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 60 MONTHS ENDING WITH DECEMBER 1989 DATA
VIRGINIA

CLUSTER 1 -DIVISION(S):
TIDEWATER 01

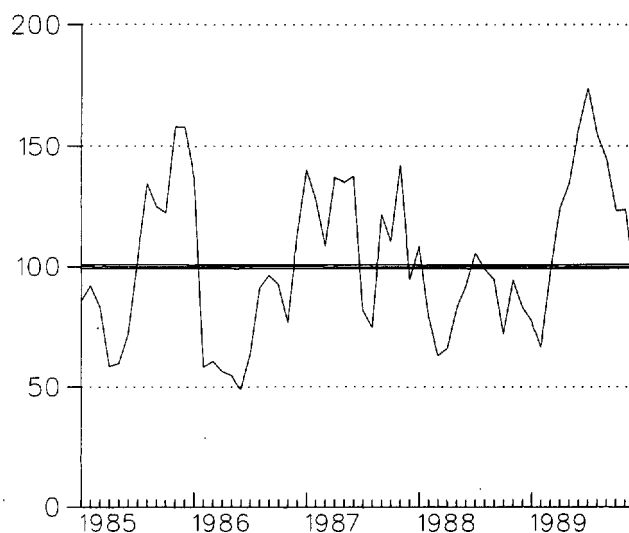
CLUSTER 2 -DIVISION(S):
EASTERN PIEDMONT 02
WESTERN PIEDMONT 03

CLUSTER 3 -DIVISION(S):
NORTHERN 04
CENTRAL MOUNTAIN 05

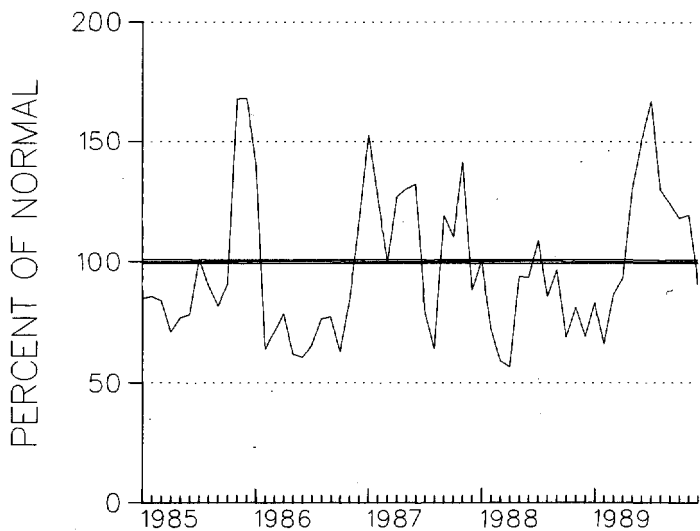
CLUSTER 4 -DIVISION(S):
SOUTHWESTERN MOUNTAIN 06



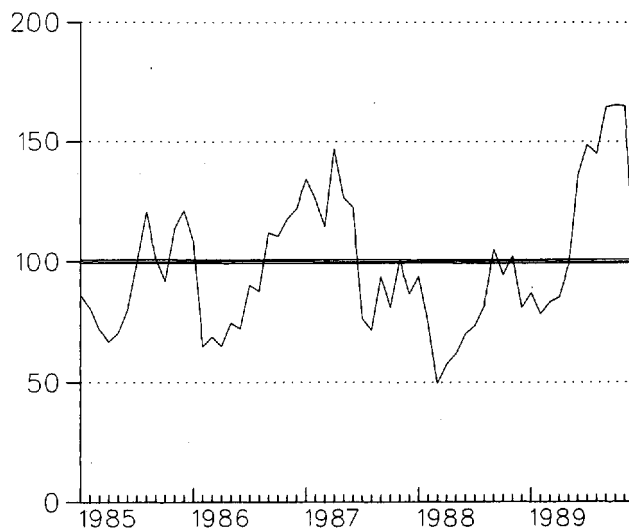
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4

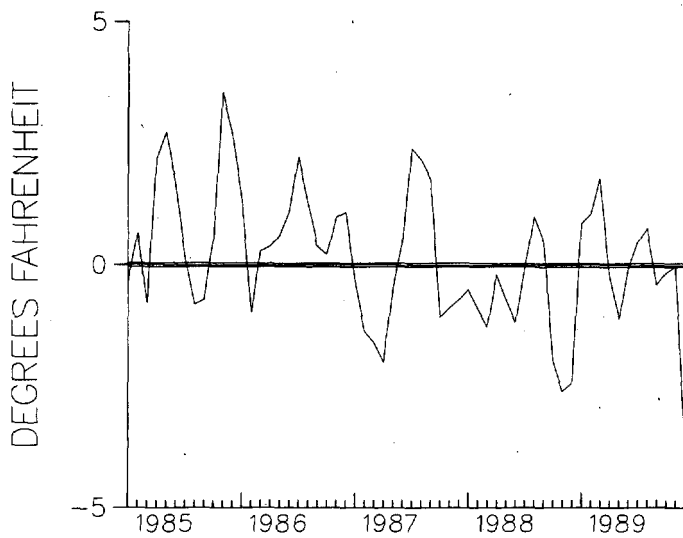
TEMPERATURE DEPARTURES FROM NORMAL (1951-1980)
THREE MONTH RUNNING MEAN
FOR THE 60 MONTHS ENDING WITH DECEMBER 1989 DATA
VIRGINIA

CLUSTER 1 -DIVISION(S):
TIDEWATER 01

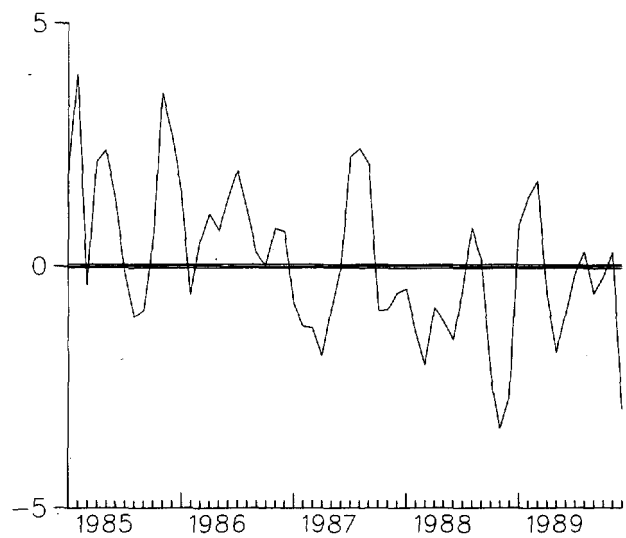
CLUSTER 2 -DIVISION(S):
EASTERN PIEDMONT 02
WESTERN PIEDMONT 03

CLUSTER 3 -DIVISION(S):
NORTHERN 04
CENTRAL MOUNTAIN 05

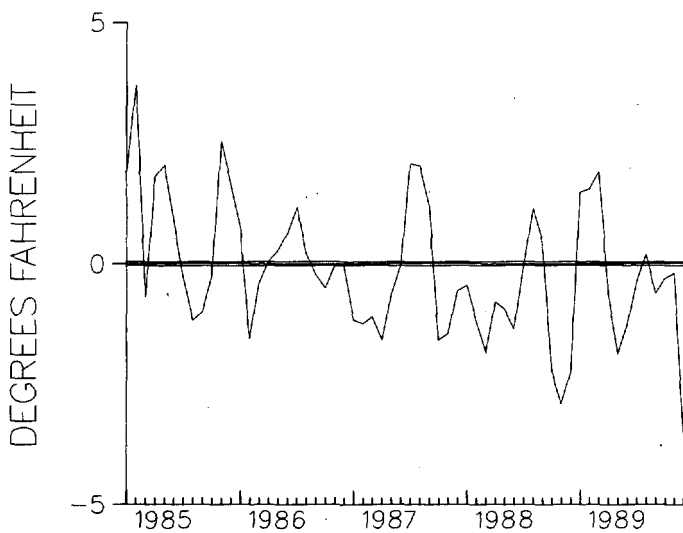
CLUSTER 4 -DIVISION(S):
SOUTHWESTERN MOUNTAIN 06



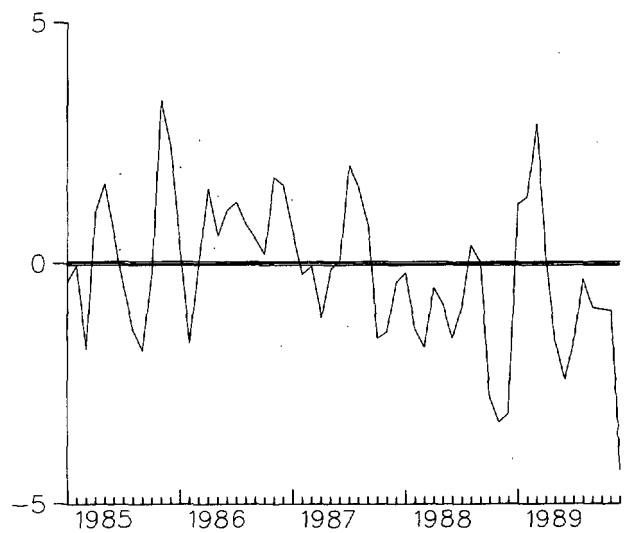
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4

44 - VIRGINIA & D.C.

AIRLESS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 39.0 AND 45.5 DEGS.

STATUTE MILES



STATION LEGEND

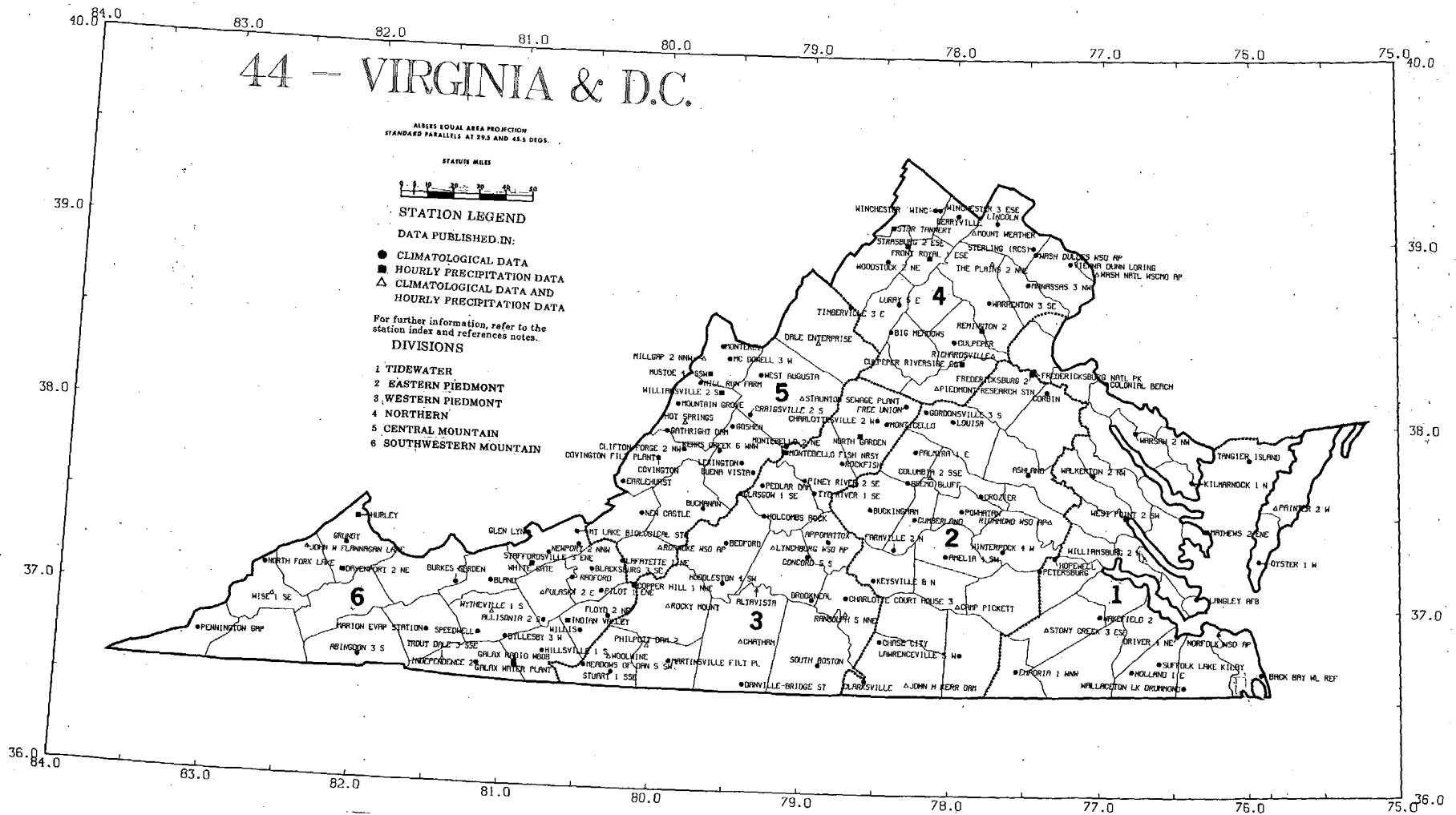
DATA PUBLISHED IN:

- CLIMATOLOGICAL DATA
- HOURLY PRECIPITATION DATA
- ▲ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA

For further information, refer to the station index and references notes.

DIVISIONS

- 1 TIDEWATER
- 2 EASTERN PIEDMONT
- 3 WESTERN PIEDMONT
- 4 NORTHERN
- 5 CENTRAL MOUNTAIN
- 6 SOUTHWESTERN MOUNTAIN



MONTHLY PRECIPITATION TOTALS											
											ANNUAL 1987 NORTH CAROLINA
STATION	ANNUAL	MONTH									
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DEC
NORTH CAROLINA											
ASHEVILLE WSO AP	34.57	1.11	1.85	2.75	0.57	3.55				4.19	5.28
ASHEVILLE	25.67	0.71	1.57	1.81	0.53	2.55				2.77	4.15
ASHFORD	36.74E	1.20	2.70	2.90	0.54E					3.80	4.10
BADIN					1.20	2.60				2.40	2.90
B EVERETT JORDAN DAM		1.70		3.50							1.70
BODNER 5 WSW		1.00	2.10								
BURLINGTON 3 WNE		0.80	1.52E								
CAPE WATTERS WSO	48.86	5.75									
CARTHAGE 8 SE		1.70									
CATALDOCHEE		0.53									
CHARLOTTE WSO AP	26.91										
CLINTON 2 NE	35										
DALTON											
DOBSON											
EDEN											
ELIJAH											
FAYE											
FRANK											
GREENS											
GREENVILLE											
HICKORY											
HOBOKEN											
LAKE LURE											
LAURINBURG											
LEXINGTON											
MOREHEAD CITY											
MOREHEAD CITY											
MOUNT PLEASANT											
N WILKESBORO 12											
POLKTON 2 NE											
RALEIGH-DURHAM WSO											
ROANOKE RAPIDS											
ROARING GAP 1 NW											
SHELBY 2											
SNEADS FERRY 2 ENE											
SPRINGHORN 2 SSE											
WILKINSON WSO AP											
WILKINSON 3 SW											
YADKINVILLE 5 E											

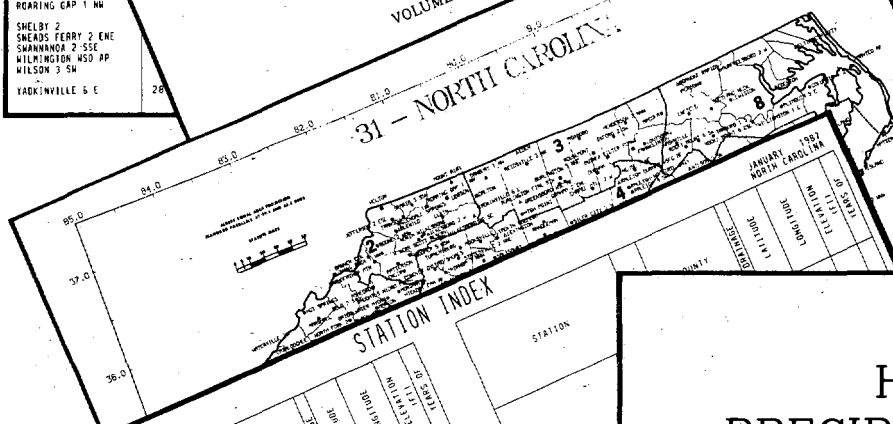


HOURLY PRECIPITATION DATA NORTH CAROLINA

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VOLUME 37 NUMBER 12

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STATION INDEX											
STATION	COUNTY	DATE	TIME	PRECIPITATION	STATION	COUNTY	DATE	TIME	PRECIPITATION	STATION	COUNTY
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ASHEVILLE											
ASHFORD											
BADIN											
B EVERETT JORDAN DAM											
BODNER 5 WSW											
BURLINGTON 3 WNE											
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N WILKESBORO 12											
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SPRINGHORN 2 SSE											
WILKINSON WSO AP											
WILKINSON 3 SW											
YADKINVILLE 5 E											

MONTHLY PRECIPITATION MAXIMA											
MAXIMA FOR MEASUREMENT PERIODS OF											
STATION	MINUTES	HOURS									
		1	2	3	4	5	6	7	8	9	10
NORTH CAROLINA											
ASHEVILLE WSO AP											
ASHEVILLE											
ASHFORD											
BADIN											
B EVERETT JORDAN DAM											
BODNER 5 WSW											
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WILKINSON 3 SW											
YADKINVILLE 5 E											

HOURLY PRECIPITATION											
STATION	A.M. HOUR ENDING										
		1	2	3	4	5	6	7	8	9	10
NORTH CAROLINA											
ASHEVILLE WSO AP											
ASHEVILLE											
ASHFORD											
BADIN											
B EVERETT JORDAN DAM											
BODNER 5 WSW											
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WILKINSON 3 SW											
YADKINVILLE 5 E											

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Federal Building, Asheville, N. C. 28801-2696
Phone (704) 259-0682 or (704) CLIMATE

HOURLY PRECIPITATION DATA NORTH CAROLINA

JANUARY 1987

VOLUME 37 NUMBER 1



HOURLY PRECIPITATION DATA is published monthly and presents daily, hourly, and maximum short duration data for recording rain gage stations in each state except Alaska. Also included are a published station index and a locator map for the state. In addition to the regularly published data, the December publication contains a tabulation of monthly and annual total precipitation amounts as an annual supplement.

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