

# CLIMATOLOGICAL DATA ANNUAL SUMMARY

VIRGINIA

1993

VOLUME 103 NUMBER 13



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NATIONAL  
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NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE NORTH CAROLINA

## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA  
1993

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	6.05	1.99	1.85	-1.72	5.24	1.48	2.61		2.14	-1.83	3.22	-.44
COLONIAL BEACH	3.08	-.03	3.16	-.23	7.80	4.34	5.04		4.14	-.06	3.62	.12
EMPORIA 1 WNW	5.15	1.57	2.00	-1.39	8.34	4.80	3.40	2.09	3.96	-.05	3.44	.00
FREDERICKSBURG NATL PK	3.10	-.01	2.99	-.07	7.35	3.80	5.35	2.30	4.71	-.86	2.29	-1.06
HOLLAND 1 E	4.76	-.67	1.88	-1.68	6.40		4.64	1.42	3.08	-1.03	2.65	-1.74
HOPEWELL	4.99	1.24	2.32	-1.03	7.52	3.81	3.96	.83	4.89	.97	4.44	1.26
KILMARNOCK 1 N	4.83		2.75		8.21				5.02		1.85	
LANGLEY AIR FORCE BASE	4.39	-.67	1.61	-2.07	7.34	3.18	3.83	.80	3.42	-.57	2.26	-1.85
MATHEWS 2 ENE	4.85	1.20	2.34	-1.20	7.41	3.16	4.46	1.45	7.87	3.94	2.94	-.63
NORFOLK WSO AIRPORT	4.89	1.11	2.36	-1.11	5.91	2.21	3.59	.53	2.88	-.93	2.79	-1.03
PAINTER 2 W	4.23	-.48	1.95	-1.45	7.06	2.90	3.69	.77	4.58	1.10	3.15	-.19
STONY CREEK 3 ESE	4.98	1.33	1.59		8.21	4.29	3.92	.68			4.57	
SUFFOLK LAKE KILBY	5.08	1.23	2.14	-1.58	6.46	2.40	5.12	2.10	3.41	-.37	4.43	.18
TANGIER ISLAND							5.68		4.53	1.30	1.40	
WAKEFIELD 2	5.37		1.77		7.70		3.63		5.69		2.64	
WALKERTON 2 NW	4.92	1.48	2.92	-.33	7.03	3.35	2.70	-.26	4.61	.53	2.08	-1.90
WALLACETON LK DRUMMOND	6.36	2.04	2.35	-1.88	7.61	3.47	4.00		2.55	-1.80	2.20	
WARSAW 2 NW	3.05	-.14	2.83	-.07	7.28	3.78	2.38	-.47	4.57	.02	1.83	-1.84
WEST POINT 2 SW	5.29	1.68	2.85	-.41	7.21	3.23	2.88	-.07	6.11	2.35	3.57	-.15
WILLIAMSBURG 2 N	5.32	1.49	2.44	-1.10	6.87	2.69	4.10	1.09	6.01	1.49	2.88	-1.15
--DIVISIONAL DATA-->	4.69	1.07	2.34	-1.02	7.17	3.28	3.94	.95	4.53	.64	2.97	-.76
EASTERN PIEDMONT 02												
AMELIA 4 SW	5.53		3.10		8.69		5.78		4.32		2.62	
ASHLAND	3.75	.39	3.03	-.08	6.90	3.12	4.36	1.39	3.89	-.08	3.48	-.05
BREMO BLUFF	4.27	1.36	2.75		4.07		3.23		5.80	2.03	1.66	
BUCKINGHAM	4.54	1.51	3.30	.18	8.23	4.65	4.28	1.26	3.95	-.29	3.80	.51
CAMP PICKETT	5.07		2.81		8.02		4.77		3.22		2.35	
CHASE CITY	4.80	1.24	1.63		5.07		4.81	1.56	3.30	-.72	1.44	
CLARKSVILLE	4.50	.98	3.06	-.22	8.48		5.61		4.23	.27	2.03	
CORBIN	3.73	.51	2.78	-.27	8.38	4.70	5.28	2.15	4.49	.55	2.38	-1.39
CROZIER	4.05	.71	2.98	-.07	7.15		9.45	6.45	4.38	.30	1.72	-1.84
CUMBERLAND	4.27		2.20		8.82		6.94		3.91		2.64	
FARMVILLE 2 N	4.98	1.51	3.31	.01	7.98	4.20	5.06	2.03	4.73	.68	5.52	2.11
GORDONSVILLE 3 S	3.99	.85	3.06	-.12	8.48	4.92	5.02	2.02	4.82	.81	1.73	-1.90
JOHN H KERR DAM	3.82	.34	1.86	-1.39	6.46	2.64	4.75	1.66	4.67	.72	2.90	-.61
KEYSVILLE 2 S	5.33				3.45							
LAWRENCEVILLE 3 E	5.09	1.52	3.29	-.42	7.78	3.84	3.99	.98	5.69	1.87	3.04	-.98
LOUISA	4.52	1.51	2.61	-.50	8.78	5.17	3.70	.72	4.36	.47	1.77	-2.00
PALMYRA 1 E	3.76	1.11	2.91	-.06	8.49	5.22	4.46	1.55	2.99		1.89	-1.49
POWHATAN	4.53	1.17	3.13	-.11	7.31	3.77	7.38	4.44	3.18	-.62	2.12	-1.29
RICHMOND WSO AIRPORT	4.48	1.24	2.88	-.28	7.24	3.63	3.23	.27	4.66	.82	1.75	-1.87
WINTERPOCK 4 W	5.19		3.04		7.10		4.83		5.06		1.99	
--DIVISIONAL DATA-->	4.51	1.15	2.87	-.39	7.78	4.04	5.02	1.94	4.46	.48	2.75	-.88
WESTERN PIEDMONT 03												
ALTAVISTA	4.13	1.00	3.71	.43	8.33	4.64	4.74	1.51	3.09	-1.12	4.38	1.29
APPOMATTOX	4.48	1.53	4.20		5.52		3.80	.48	2.74	-1.42	3.21	-.06
BEDFORD	3.72	.81	4.51	1.30	7.11		3.95	.52	2.83	-1.47	5.41	1.85
CHARLOTTE COURT HSE 3W	5.70	2.30	3.19	-.08	7.58	3.88	5.49	2.34	4.28	-.43	2.46	-1.22
CHARLOTTESVILLE 2 W	4.65	1.50	3.01	-.31	7.88	4.13	4.28	.94	3.65	-1.23	2.24	-1.50
CHATHAM	5.16	1.86	2.96	-.43	8.44	4.45	6.56	3.09	1.92	-2.26	2.69	-.77

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA  
1993

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	.62	-4.16	.74	-4.84	6.06	1.60M	4.52		2.67	-.36	3.26	.09M	38.98	
COLONIAL BEACH	1.12	-3.06	6.21	-2.64	4.01	-.48	2.92	-.06	4.15	.99	5.34	2.07	50.59	9.75
EMPORIA 1 MNW	1.79	-2.70	3.33	-1.20	3.22	-.19	2.73	-.41	3.58	.62M	3.35		44.29	
FREDERICKSBURG NATL PK	3.51	-.14	3.64	.03	5.41	1.92	4.16	-.73	5.36	2.00	4.27	.98	52.14	11.48
HOLLAND 1 E	1.71	-3.55	2.03	-3.17	2.09	-2.00	3.20	-.41	1.40	-1.60	3.28	-.22M	37.12	
HOPEWELL	2.68	-1.58	2.05	-2.36	2.17	-1.60	2.56	-.98	3.12	-.15	3.82	.58	44.52	.99
KILMARNOCK 1 N	.59		3.31		3.06		3.36		1.25		3.43			
LANGLEY AIR FORCE BASE	.58	-4.10	2.12	-2.52	4.48	-.14	3.46	.37	1.27	-1.89	3.12	-.42	37.88	-8.54
MATHEWS 2 ENE	1.25	-3.32	2.43	-2.05	2.08	-1.84	4.38	1.15	2.39	-.68	3.62	.25	46.02	1.43
NORFOLK HSO AIRPORT	.36	-4.70	1.45	-3.36	4.14	-.24	3.40	.25	.97	-1.88	3.29	.06	36.03	-8.61
PAINTER 2 W	.75	-3.54	1.28	-2.52	4.62	1.46	4.05	.97	1.84	-1.19	3.52	.01	40.72	-1.20
STONY CREEK 3 ESE	1.99	-2.69	2.96	-1.75	2.81	-.88	3.19	.01	3.63	-.50M	3.88			
SUFFOLK LAKE KILBY	2.98	-1.81	2.50	-2.65	2.50	-1.98	3.24	.05	1.23	-1.67	3.38	-.03	42.47	-4.13
TANGIER ISLAND	.75	-2.60	2.96	-.53	2.20	-.86	4.66	2.00	2.09	-.79M	4.39			
WAKEFIELD 2			.67		3.72		3.75		2.28		3.51			
WALKERTON 2 NW	.30	-4.26	2.99	-.95	3.88	.41	2.09	-1.16	3.05	-.27	4.22		40.79	-2.51
WALLACETON LK DRUMMOND	3.08	-2.50	1.15	-4.39	4.16	-.07	3.75	-.22	1.85	-1.27	3.32	-.56M	42.38	
WARSAW 2 NW	2.20	-2.00	4.53	.36	2.15	-2.01	2.61	-.76	2.68	-.49	4.37	1.30	40.48	-2.18
WEST POINT 2 SW	2.05	-2.58	2.32	-1.75	5.10	1.33	3.24	-.12	2.59	-.71M	3.81		47.02	
WILLIAMSBURG 2 N	1.27	-3.69	1.67	-3.05	2.71	-1.54	4.01	.80	2.08	-1.40	3.55	.20	42.91	-4.17
--DIVISIONAL DATA----->	1.47	-2.96	2.70	-1.68	3.50	-.31	3.39	.24	2.51	-.59	3.77	.47	42.98	-.67
EASTERN PIEDMONT 02														
AMELIA 4 SW	2.34		2.38		5.28		3.05		6.96		5.56		55.61	
ASHLAND	.72	-3.17	2.42	-1.76	2.42	-1.19	2.46	-.82	5.05	1.82	6.38	3.07	44.86	2.64
BREMO BLUFF	3.33	-.39	3.17	-.80	2.78	-.04	2.77	-1.24	8.05	4.83M	3.66			
BUCKINGHAM	2.42	-1.77	2.80	-1.31	3.87	.18	2.42	-1.61	7.46	3.97	4.29	1.17	51.36	8.45
CAMP PICKETT	3.26		1.66		2.11		2.66		4.52		4.25		44.70	
CHASE CITY	2.01	-1.98	1.99	-1.77	2.92	-.58	2.09	-1.76	4.36	.96M	4.69			
CLARKSVILLE	3.10	-.87M	.21		3.07	-.15	2.15	-1.26	4.96	1.97M	3.18			
CORBIN	1.08	-2.92	2.67	-1.30	5.53	2.05	2.42	-1.24	5.16	1.75	4.61	1.22	48.51	5.81
CROZIER	1.26	-2.53	2.57	-1.63	4.87	1.48	2.76	-1.41	5.60	2.24	4.88	1.63M	51.67	
CUMBERLAND	3.20		4.24		3.34		2.39		9.48		6.24		57.67	
FARMVILLE 2 N	1.13		2.53	-1.46	5.42	2.24	2.50	-1.29	7.70	4.40	6.41	3.17M	57.27	
GORDONSVILLE 3 S	1.77	-2.55M			4.67	1.38	2.33	-1.95	7.48	4.06	3.78	.50		
JOHN H KERR DAM	3.96	-.26M	.46		1.18	-2.11	2.74	-.79	4.22	1.00	3.07	-.16M	40.09	
KEYSVILLE 2 S			1.52		2.56		2.63		4.98		5.25			
LAWRENCEVILLE 3 E	4.41	.44	1.66	-2.78	2.49	-1.26	3.40	-.06	3.50	.07M	3.45		47.79	
LOUISA	2.65	-1.44	2.15	-2.16	4.43	1.12	2.01	-1.75	9.32	5.64	3.15	-.13	49.45	6.65
PALMYRA 1 E	2.86	-1.38	2.18	-2.24	2.86	-.28	2.20	-1.91	7.59	4.50	3.54	.73M	45.73	
POWHATAN	2.22	-1.78	2.48	-1.40	2.15	-1.12	2.96	-.99	6.07	2.65	5.64	2.41	49.17	7.13
RICHMOND HSO AIRPORT	1.91	-3.12	3.89	-.51	2.97	-.37	2.23	-1.30	3.24	.07	3.77	.51	42.25	-.91
WINTERPOCK 4 W	1.36		2.32		3.62		2.14		4.52		4.65		45.82	
--DIVISIONAL DATA----->	2.45	-1.75	2.46	-1.71	3.53	.12	2.59	-1.18	5.64	2.22	4.73	1.48	48.79	5.52
WESTERN PIEDMONT 03														
ALTAVISTA	2.02	-2.17	2.55	-1.68	1.89	-1.35	1.91	-1.87	3.27	.00	5.22	1.97	45.24	2.65
APPOMATTOX	3.11	-1.29	2.02	-2.06	4.16	-.67	2.12	-1.81	5.48	2.10M	4.51		45.35	
BEDFORD	3.36	-.89	2.70	-1.16	2.87	-.57	2.07	-1.88	2.42	-.82	5.08	1.92M	46.03	
CHARLOTTE COURT HSE 3H	3.46	-.45	2.93	-1.04	1.97	-1.71	2.73	-1.17	6.68	3.48	5.94	2.69	52.41	9.45
CHARLOTTESVILLE 2 W	3.88	-.87	3.12	-1.59	3.27	-.83	2.43	-2.14	5.99	2.33M	3.53		47.93	
CHATHAM	4.39	-.01	1.89	-1.92	4.92	1.15	2.04	-1.81	3.47	.08	5.05	1.67	49.49	5.10

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## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA  
1993

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
CONCORD 4 SSW	4.95	1.69	M 3.73		8.79	5.04	3.65	.42	2.38	-1.50	2.33	-.93
DANVILLE	5.79	2.36	3.23	-.19	M 7.76		6.68	3.44	2.77	-1.08	2.58	-1.07
FREE UNION	3.21	.46	3.26	.24	M 8.24	4.75	6.03	2.63	2.77	-1.78	M 1.80	
HUDDLESTON 4 SW	4.33	1.18	3.28	.06	M 5.62		3.62		3.26	-.65	3.15	.00
LYNCHBURG WSO AIRPORT	4.14	1.28	3.59	.55	7.01	3.54	3.59	.50	2.23	-1.68	2.33	-1.12
MARTINSVILLE FILTER PL	4.79	1.56	3.19	-.38	9.46	5.38	4.36	.76	4.22	-.01	2.01	-1.80
MEADOWS OF DAN 5 SW	4.58		3.66	-.16	9.71	4.92	3.32	-1.19	3.99	-.98	3.62	-1.04
MONTICELLO	2.30		M 2.45		M 8.22		M 2.19		M 4.20		3.07	
PEDLAR DAM			M		M		6.08		1.76		2.76	
PHILPOTT DAM 2	5.00		3.19	-.21	9.60	5.46	M 2.83		3.49	-1.26	2.72	-1.34
ROCKY MOUNT	4.94	1.89	3.26	.13	9.42	5.63	3.48	-.23	3.37	-.75	M 1.68	
SOUTH BOSTON	4.77		3.11		7.97		5.69		2.58		2.74	
STUART	6.37	3.02	3.46	-.22	7.69	3.28	3.49	-.70	4.22	-.49	2.98	-1.28
TYE RIVER 1 SE	4.94	1.72	3.98	.74	7.67	3.73	M 4.03		5.38	-.83	3.97	.80
WOOLWINE 4 S	6.02	2.21	4.03	.14	11.49	6.75	M 2.64		3.38	-1.68	2.27	-2.33
--DIVISIONAL DATA----->	4.95	1.73	3.39	.09	8.27	4.41	4.67	1.24	3.36	-.89	2.95	-.71
NORTHERN 04												
BIG MEADOWS	2.98	-.28	2.69	-.75	9.55	5.68	5.55	1.71	3.88	-.89	3.52	-.89
LINCOLN	2.24	-.58	1.82	-.86	M 6.10		4.72		M 1.91		4.09	-.08
LURAY 5 E	2.53	-.20	2.13	-.52	M 7.29		6.47	3.51	2.39	-1.36	3.74	.28
MOUNT WEATHER	2.00	-.45	2.14	-.30	M 7.43				1.90	-2.50	5.60	1.57
PIEDMONT RESEARCH STN	3.70	.90	2.60	-.11	8.39	4.97	4.42	1.30	3.45	-.98	2.22	-1.20
STERLING RCS	2.55		2.49		6.55		5.48		2.49		2.27	
THE PLAINS 2 NNE	2.18	-.63	2.13	-.69	7.81	4.54	4.72	1.32	2.44	-1.78	3.55	-.21
VIENNA DUNN LORING	3.39	.48	2.50	-.39	9.05	5.60	4.70	1.44	5.37	1.02	1.79	-2.31
WARRENTON 3 SE	3.41	.47	2.44	-.40	8.50	5.21	M 4.24		3.84	-.22	2.97	-.65
WASHINGTON 3 SSW												
WASHINGTON WSO DULLES	2.72	.02	2.74	-.07	7.65	4.48	5.62	2.51	2.85	-1.17	1.77	-2.15
WASHINGTON NATL WSCMO	2.90	.18	2.27	-.44	6.82	3.65	3.62	.91	3.40	-.26	1.73	-1.65
WINCHESTER WINC			1.94		M		M		1.71		4.20	
WINCHESTER 7 SE	1.52	-.86	M		8.36	5.30	4.61	1.53	.93	-2.81	3.43	-.44
WOODSTOCK 2 NE	1.90		2.13	-.17	M 8.09		4.69	1.99	1.51	-1.91	2.12	-1.13
--DIVISIONAL DATA----->	2.66	-.04	2.31	-.38	7.97	4.76	5.06	1.92	2.58	-1.50	3.14	-.56
CENTRAL MOUNTAIN 05												
BUCHANAN	3.32	.55	2.76	-.07	M 8.67		4.66	1.51	2.79	-1.34	3.25	.06
BUENA VISTA	3.19	.70	M 2.30		M		5.30	2.29	2.82	-.88	M .37	
COVINGTON	1.48	-.85	2.31	.01	M 6.41		5.05	2.37	1.89	-1.62	2.27	-.76
COVINGTON FILTER PLANT	2.23	.04	2.71	.36	7.04	4.13	3.24	.38	3.33	-.34	M 2.48	
CRAIGSVILLE 2 S	2.47	-.29	3.17	.45	6.46	3.26	4.40	1.19	2.86	-1.22	2.77	-.63
DALE ENTERPRISE	2.59	.75	2.14	.12	M 5.29		4.47	1.95	2.47	-.91	2.61	-.35
EARLE HURST	2.15		2.95		7.40		3.46		1.40		2.24	
GATHRIGHT DAM	1.87		2.73		6.23		3.86		3.47		3.42	
GLASGOW 1 SE	4.09		3.17		M 9.32		7.02		4.25		2.86	
GOSHEN	2.74	-.02	3.38	.52	M 7.46		3.87	.65	2.42	-1.82	4.46	1.35
KERRS CREEK 6 WNW	2.99	.05	3.47	.41	M 8.44	4.79	4.10	.55	2.63	-1.59	5.56	2.22
LEXINGTON	.88		3.19	.37	M 6.67		4.38	1.51	2.70	-.95	2.94	-.24
MCDOWELL 3 W	2.46		3.11		M 5.57		5.69		3.16		2.51	
MILLGAP 2 NNW	2.24		2.73		M 6.74		4.53		3.21		2.68	
MOUNTAIN GROVE	.68		M 8.7		M 4.22		M 2.84		3.90		3.05	
PAINT BANK 1 W												
ROANOKE WSO AIRPORT	3.77	1.15	3.44	.40	7.91	4.43	2.77	-.48	2.37	-1.61	2.49	-.70
STAUNTON SEWAGE PLANT	2.25	-.05	M 2.22		7.57	4.69	M 3.55		2.35	-1.25	1.90	-.85
--DIVISIONAL DATA----->	2.67	.11	2.83	.14	7.19	3.96	3.90	.84	2.78	-1.09	2.77	-.50

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA  
1993

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	3.97	-.24	2.26	-1.25	3.58	-.20	1.99	-2.03	6.22	2.80M	4.91		48.76	
DANVILLE	3.66	-.76	1.87	-1.93	2.99	-.40	1.59	-2.08	4.28	1.14	4.53	1.25M	47.73	
FREE UNION	4.66	-.20	2.43	-2.01	4.21	-.43	2.63	-1.63	5.59	1.90	3.78	1.66M	48.61	
HUDDLESTON 4 SW	2.39	-1.56	1.99	-1.64	1.96	-1.74	1.51	-2.36	2.69	-.76	4.55	1.33M	38.35	
LYNCHBURG WSO AIRPORT	5.06	-.90	1.61	-1.98	1.67	-1.57	1.77	-1.93	3.16	-.02	4.89	1.66	41.05	
MARTINSVILLE FILTER PL	7.32	2.46	2.47	-1.49	2.64	-1.25	1.43	-2.52	2.18	-1.07	4.46	1.05	48.53	2.71
MEADOWS OF DAN 5 SW	3.60	-1.80	4.08	-.61	3.88	-1.18	1.90	-2.90	3.63	-.54	5.43	1.61M	51.40	
MONTICELLO	1.67		.83		4.12		2.34		5.69		3.04			
PEDLAR DAM	3.52		1.03		5.23		1.71		4.25	M	4.67			
PHILPOTT DAM 2	6.30	1.29	2.92	-1.72	4.12	-.19M	.42		2.39	-1.07	4.54	1.25M	47.52	
ROCKY MOUNT	5.86	.88	2.35	-1.86	2.73	-1.27	2.23	-1.79	3.37	.12	4.53	1.44M	47.22	
SOUTH BOSTON	1.30		2.64		3.06		1.65		7.27		4.94		47.72	
STUART	4.76	-.59	3.19	-1.48	3.51	-.94	1.64	-2.57	3.38	-.20	4.13	.62	48.82	-1.55
TYE RIVER 1 SE	2.60	-1.97	2.55	-1.07	4.60	-.91	2.27	-2.13	3.04	-.40	5.42	2.22M	50.45	
WOOLWINE 4 S	4.26	-.69	3.54	-.93	4.73	-.62	2.13	-2.78	3.61	-.72	5.88	1.96M	53.98	
--DIVISIONAL DATA----->	4.05	-.51	2.48	-1.63	3.33	-.41	2.02	-2.00	4.20	.85	4.71	1.45	48.38	3.62
NORTHERN 04														
BIG MEADOWS	5.14	-.64	2.08	-2.26	5.50	.69	3.99	-1.25M	1.13		4.10		50.11	
LINCOLN	1.31	-2.44	3.01	-.96	4.40	.94	3.00	-.29	5.05	1.57M	2.72			
LURAY 5 E	4.11	-.40	2.26	-1.28	3.63	.19	2.17	-1.36	5.07	1.55M	3.07		44.86	
MOUNT WEATHER	1.37	-2.58	2.40	-1.30	4.38	.95	2.41	-1.41	4.83	1.26	4.39	1.63		
PIEDMONT RESEARCH STN	2.17	-2.30	3.47	-.81	2.44	-1.10	2.24	-1.78	6.37	2.74	3.70	.65	45.17	2.28
STERLING RCS	1.08		4.66		4.30		2.40		6.08		4.10		44.45	
THE PLAINS 2 NNE	1.36	-2.16	2.69	-2.30	2.90	-.64	2.33	-1.10	6.96	3.39	4.34	1.46	43.41	1.20
VIENNA DUNN LORING	2.48	-1.70	5.65	1.26	4.93	1.05	2.69	-.78	5.93	2.36	4.45	1.26	52.93	9.29
WARRENTON 3 SE	1.52	-2.20	2.86	-.86	3.40	.00	2.24	-1.25	5.75	2.30	4.33	1.23M	45.50	
WASHINGTON 3 SSW										M				
WASHINGTON WSO DULLES	2.06	-1.43	4.68	.74	4.66	1.30	2.15	-1.05	6.28	2.98	3.78	.56	46.96	6.72
WASHINGTON NATL WSCMO	1.36	-2.44	3.87	-.04	3.68	.37	2.62	-.40	4.76	1.64	4.38	1.26	41.41	2.78
WINCHESTER WINC	2.06		1.75		4.38		2.45		4.54		5.12			
WINCHESTER 7 SE	3.00	-.89	1.15	-2.31	4.44	1.33	1.94	-1.25	5.14	2.04M	4.38			
WOODSTOCK 2 NE	5.30	1.62	2.11	-1.05	4.97	1.72	1.86	-1.28	4.73	1.96M	3.81		43.22	
--DIVISIONAL DATA----->	2.54	-1.32	2.86	-.98	4.18	.66	2.46	-1.11	5.33	1.85	4.26	1.30	45.35	4.60
CENTRAL MOUNTAIN 05														
BUCHANAN	6.13	1.76	1.17	-2.81	3.40	.05	2.45	-1.44	2.61	-.67	5.09	2.21M	46.30	
BUENA VISTA	3.27	-.53	1.08	-2.04	5.63	2.67	2.14	-1.68	3.43	.14M	3.18			
COVINGTON	3.23	-.50M			2.42	-.26	1.87	-1.28	2.61	.02	3.61	1.18		
COVINGTON FILTER PLANT	3.28	-.47	3.22	-.23	3.26	.41	1.39	-1.93	2.25	-.72M				
CRAIGSVILLE 2 S	2.25	-2.03	2.83	-.78	4.27	.88	1.52	-2.35	2.92	-.46	3.82	.74	39.74	-1.24
DALE ENTERPRISE	2.03	-1.54	2.52	-1.06	4.20	.95	2.37	-.82	3.45	.67	3.24	.97M	37.38	
EARLE HURST	4.93		1.92		3.81		2.09		2.21		4.30		38.86	
GATHRIGHT DAM	1.78		2.09		4.92		2.04		2.06		4.40		38.87	
GLASGOW 1 SE	3.92		1.27		5.65		2.30		4.47		5.92		54.24	
GOSHEN	1.68	-2.29	3.61	-.16	3.76	.15	2.30	-1.69	2.84	-.79	4.86	1.88M	43.38	
KERRS CREEK 6 WNW	2.72	-1.54	1.70	-2.19	4.86	1.17	2.22	-1.84	2.86	-.87	5.09	1.98	46.64	3.14
LEXINGTON	3.28	-.38	2.16	-1.01	3.09	-.07	1.10	-2.45	2.87	-.15M	4.22		37.48	
MCDOWELL 3 W	3.29		2.60		6.69		2.45		2.71		4.53		44.77	
MILLGAP 2 NNW	2.70		2.01		6.58		2.60		3.54		4.32		43.88	
MOUNTAIN GROVE	2.18		2.26		2.98		1.55		3.68		3.51			
PAINT BANK 1 W			2.22		3.18		1.75		2.72	M	4.49			
ROANOKE WSO AIRPORT	1.24	-2.67	1.04	-3.11	4.58	1.08	2.15	-1.70	2.60	-.59	5.27	2.30	39.63	-1.50
STAUNTON SEWAGE PLANT	1.94	-1.55	1.58	-2.09	3.95	.49	1.68	-1.95	3.31	.32	3.80	1.38M	36.10	
--DIVISIONAL DATA----->	2.81	-1.11	2.00	-1.73	3.82	.44	1.87	-1.83	2.73	-.44	4.38	1.58	39.75	.37

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA  
1993

STATION	JAN		FEB		MAR		APR		MAY		JUN	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
SOUTHWESTERN MOUNTAIN 06												
ABINGDON 3 S	3.30		2.95		6.62		3.14		2.83		.68	
ALLISONIA 2 SSE	3.86	1.40	2.57	.01 M	6.78		3.85	.79	2.67	-1.55	4.38	1.07
BIG STONE GAP	3.06		4.24		4.95		4.41		4.51		2.90	
BLACKSBURG 3 SE	3.32	.56	3.24	.35	6.94	3.38	3.37	-.25	4.36	.32	3.58	.17
BLAND	2.94	.07	3.46	.57	7.26	3.87	3.66	.47	1.88	-2.01	1.87	-1.45
BURKES GARDEN	2.82	-.41	3.52	.20	5.86	2.09	3.05	-.60	3.42	-1.10	2.38	-1.60
BYLLESBY 3 W	3.70		2.72		8.49		4.25		3.12		1.88	
CLINTWOOD 1 W												
COPPER HILL 1 NNE	3.40	.74	3.33	.47	8.40	4.80	3.84	-.08	5.11	.85	3.42	-.38
FLOYD 2 NE	4.20	1.53 M	2.36		4.75		3.78	.20	2.55	-1.39	1.56	-1.78
GALAX RADIO WBRF	4.05		2.41		6.01		4.38	.97	2.83	-1.57	1.41	-2.49
GLEN LYN	2.13	-.28	2.02	-.58	7.66	4.58	2.87	-.17 M	1.34		3.09	-.03
GRUNDY	1.18	-2.02	2.79	-.28	6.43	2.86	2.91	-.90	1.69	-2.50	4.71	.58
HILLSVILLE	3.78	.95	2.92	-.32	8.58	4.81	4.08	.41	3.67	-.63	2.87	-.96
JOHN W FLANNAGAN LAKE	1.71		2.98		6.45		3.04		2.12		3.68	
LAFAYETTE 1 NE	3.31	.51	3.19	.66 M	7.79		3.54		2.19	-1.57	4.50	1.45
LEBANON	1.90		3.94		5.55		2.95		3.02		1.16	
MOUNT LAKE BIOL STN	2.77				4.79		3.81		2.20		.88	
NEWPORT 2 NNW	2.95	.64	3.17	.76 M	6.37		3.15	.06	1.40	-2.42	1.80	-1.38
NORTH FORK LAKE	2.12		3.85		6.81		3.93		3.10		3.17	
PENNINGTON GAP	2.85	-1.29 M	3.22		3.12		.62		3.42		.50	
PULASKI	3.75	1.47	2.94	.28 M	8.32		3.53	.69	3.08	-.73	3.17	-.28
RICHLANDS	1.86		2.52		6.17		2.43		2.58		1.90	
SALTVILLE 1 N	2.46		3.84		6.11		2.81		3.10		1.26	
STAFFORDSVILLE 3 ENE	3.25	.72	3.22	.49	7.67	4.55	4.32	1.01	2.69	-.97	5.86	2.65
TROUT DALE 3 SSE	3.35	-.20	2.81	-1.00	6.66	2.35 M	2.57		2.86	-1.77	.82	-3.29
WILLIS	3.88		2.38		7.16		4.40		3.56		3.29	
WISE 2 E	2.58	-.81	5.06	1.57	6.33	2.17	4.31	.41	5.28	.77	3.49	-.33
WYTHEVILLE 1 S	2.77	.29	2.86	.12 M	6.65		3.07	-.02	3.77	-.18	2.22	-.81
--DIVISIONAL DATA----->	2.84	-.21	3.43	.13	6.49	2.74	3.47	-.17	3.11	-1.19	2.54	-1.23

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL (INCHES)

VIRGINIA  
1993

STATION	JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE	PRECIP.	DEPARTURE
SOUTHWESTERN MOUNTAIN 06	2.91		5.09		5.07		2.03		3.56		6.12		44.30	
ABINGDON 3 S	3.40	-.40	5.46	2.32	5.51	2.35	1.78	-1.63	3.61	.92	4.61	2.03	48.48	
ALLISONIA 2 SSE	4.69		4.16		4.62		2.96		4.09		6.66		51.25	
BIG STONE GAP	3.30	-.71	3.27	-.50	5.27	1.76	1.74	-1.89	4.01	1.12	5.23	2.41	47.63	6.72
BLACKSBURG 3 SE	2.24	-1.37	2.27	-1.41	3.94	.90	1.92	-1.26	2.39	-.29	4.98	2.15	38.81	-.24
BLAND	3.63	-1.03	3.78	-.16	3.64	.32	2.74	-.65	2.50	-.82	5.35	2.04	42.69	-1.72
BURKES GARDEN	6.29		3.20		6.71		1.52		3.26		5.40		50.54	
BYLLESBY 3 W	4.52		4.25		2.68		3.82		3.72		5.10			
CLINTWOOD 1 W	6.00	1.73	1.72	-2.43	4.28	-.01	2.40	-2.35	2.82	-1.06	5.62	2.88	50.34	5.16
COPPER HILL 1 NNE	3.37	-.48	2.74	-.66	3.39	-.44	1.92	-2.09	3.80	.32	3.60		38.02	
FLOYD 2 NE	3.26	-.97	5.14	2.02	3.11	-.66	1.67	-2.39	2.86	-.59	4.22			
GALAX RADIO WBRF	2.60		2.92	-.57	2.83	-.12	1.74	-1.18	1.80	-.82	2.41		33.41	
GLEN LYN	3.78	-.91	6.37	2.66	3.51	-.09	3.74	-1.60	3.25	.02	5.09	2.02	45.45	2.04
GRUNDY	4.30	.23	4.34	.95	5.43	1.79	2.08	-1.99	3.77	.37	4.50	1.47	50.32	7.08
HILLSVILLE	4.77		4.02		3.20		2.98		2.65		5.60		43.20	
JOHN W FLANNAGAN LAKE	4.18	.67	.97	-2.42	4.89	1.87	1.77	-1.59	3.24	.26	5.76	3.10	45.33	
LAFAYETTE 1 NE	2.57		2.55		2.40		2.14		2.95		4.70		35.83	
LEBANON	1.31		3.95		4.59		2.50		3.51		3.39			
MOUNT LAKE BIOL STN	3.40		3.10		3.80	.60	1.05		3.05	.29	3.20			
NEWPORT 2 NNW	3.85		4.58		3.17		4.62		3.48		5.67		48.35	
NORTH FORK LAKE	2.36	-2.41	2.17		1.01		1.61		2.44	-1.64	2.48			
PENNINGTON GAP	2.49	-1.43	3.04	-.25	4.34	1.35	1.30	-2.04	2.38	-.19	5.12		43.46	
PULASKI	1.36		3.57		2.98		2.29		2.13		4.78		34.57	
RICHLANDS	3.83		4.14		4.61		2.05		3.07		6.27		43.55	
SALTVILLE 1 N	3.42	-.53	2.64	-.86	4.90	1.73	1.58	-1.54	2.69	.02	5.04	2.47	47.28	9.74
STAFFORDSVILLE 3 ENE	2.44	-1.89	5.50	1.58	3.92	.37	1.50	-2.57	2.48	-1.04	4.57		39.48	
TROUT DALE 3 SSE	3.83		3.11		5.01		2.18		3.93		5.61		48.34	
WILLIS	4.08	-.85	2.98	-1.03	4.17	.59	3.56	.43	3.52	-.08	5.35	1.90	50.71	4.74
WISE 2 E	3.81	-.39	3.61	.17	3.09	.00	1.61	-1.79	2.02	-.70	4.14	1.53	39.62	
WYTHEVILLE 1 S														
--DIVISIONAL DATA----->	3.16	-1.29	3.74	.06	3.86	.38	2.32	-1.13	3.02	-.21	5.21	2.01	43.19	-.11

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

VIRGINIA  
1993

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	
1993																												
VIRGINIA																												
TIDEWATER 01																												
BACK BAY WILDLIFE REFU		M		40.6	-1.4	44.6	-3.2	56.8	-2.2			76.5	2.6					76.2	3.2									
COLONIAL BEACH			38.4	2.5	36.0	-2.5	44.2	-3.4	56.4	-5.6	68.7	2.1	76.2	1.1	82.8	3.8	79.5	1.7	73.5	1.6	60.2	-1.1	50.4	-1.4	39.2	-1.7	58.8	.4
EMPORIA 1 WNW			41.9		38.5		45.6		56.0		67.9		75.1		82.6		78.4		72.8		58.6		50.4		39.4		58.9	
FREDERICKSBURG NATL PK			37.6	4.8	34.9	-5.0	40.3	-5.1	53.5	-7.7	65.9	1.8	73.0	5.0	80.1	3.4	76.4	1.2	69.8	1.4	54.7	-2.2	46.1	-9.9	35.8	-1.5	55.7	.2
HOLLAND 1 E			42.1	4.5	38.3	-1.9	45.4	-3.2	55.2	-2.1	67.3	1.3	74.5	9.8	81.5	4.1	76.8	4.4	72.2	1.7	58.4	-1.2	50.7	-6.6	38.7	-3.2	58.4	.1
HOPENELL			44.9	6.3	40.9	-7.7	47.8	-2.7	59.4	0.0	69.9	2.2	77.2	2.0	82.9	4.0	80.1	2.3	74.8	3.1	60.9	-1.1	52.4	3.3	39.6	-3.2	60.9	1.1
KILMARNOCK 1 N			40.1		36.1		43.3		56.4		66.4		74.4		81.0		77.8		71.6		58.9		50.2		38.5			
LANGLEY AIR FORCE BASE			42.8	4.3	39.1	-1.7	44.6	-2.3	57.2	2.2	68.5	2.4	76.0	1.8	83.5	5.1	79.5	1.9	73.8	2.2	61.4	4.4	53.0	1.1	41.0	-2.1	60.2	1.1
MATHEWS 2 ENE			42.7	5.4	37.2	-2.3	44.6	-3.1	54.9	-1.4	66.9	1.3	74.2	7.7	80.1	2.4	76.4	-2.2	71.9	9.9	59.2	-1.1	50.6	-6.6	38.5	-3.4	58.1	-1
NORFOLK WSO AIRPORT			44.2	5.1	39.1	-1.9	46.8	-1.8	57.3	3.3	68.5	2.4	76.1	2.0	83.4	5.2	78.9	1.7	74.6	2.7	61.3	1.1	53.5	1.0	41.5	-2.3	60.4	1.2
PAINTER 2 W			43.0	5.9	37.1	-2.0	44.7	-2.4	54.5	-9.9	66.2	1.5	74.2	1.4	81.6	4.4	77.1	1.1	72.9	2.7	59.7	1.1	51.8	9.9	39.5	-2.4	58.5	.9
STONY CREEK 3 ESE			42.3	6.2	38.0	-8.8	45.4	-2.1	56.9	3.3			77.1	3.3	82.5	5.0	78.4	2.5	71.8	2.6	56.4	-1.1	49.5	9.9	37.7	-2.0		
SUFFOLK LAKE KILBY			43.7	5.6	38.7	-2.1	47.5	-1.5	56.4	-1.2	68.0	1.6	74.9	9.8	82.4	4.5	78.2	1.5	73.1	2.3	60.5	4.4	52.3	1.0	40.4	-2.0	59.7	.9
TANGIER ISLAND		M						55.1	-4.4	68.1	3.0	77.7	4.2	84.6	6.2	80.1	2.5	75.3	3.0	64.0	1.9	53.3	1.4	41.8	-7.7			
WAKEFIELD 2			42.4		37.8		45.0		54.7		66.8		73.9				77.3		72.2		58.3		50.3					
WALKERTON 2 NW			41.3	5.9	36.8	-1.7	44.4	-3.1	57.0	4.4	67.0	1.3	74.5	1.0	81.1	3.9	77.8	1.7	71.6	2.2	58.2	0.0	50.1	1.1	38.0	-1.5	58.2	.9
WARSAW 2 NW			40.9	5.1	36.0	-2.6	43.5	-4.0	55.9	-4.4	67.2	1.6	74.2	7.7	80.6	3.3	77.1	1.0	71.3	1.5	58.2	-6.6	50.1	2.2	38.1	-2.1	57.8	.3
WEST POINT 2 SW			42.2	5.8	37.3	-2.0	44.8	-3.4	57.0	-3.3	67.8	1.4	74.9	1.0	81.1	3.7	76.9	7.7	70.9	1.0	58.1	-9.9	50.0	1.1	37.8	-2.8	58.2	.4
WILLIAMSBURG 2 N			42.5	5.2	37.8	-2.1	45.4	-3.0	56.4	-8.8	67.0	1.0	74.3	8.8	81.3	3.8	77.4	9.9	72.1	1.6	60.0	3.3	51.5	5.1	38.8	-2.9	58.7	.4
--DIVISIONAL DATA-----			41.9	4.7	37.8	-1.8	45.1	-2.8	56.1	-5.5	67.5	1.9	75.2	1.5	81.9	4.1	78.0	1.3	72.8	2.0	59.3	-7.7	50.9	-1.1	39.1	-2.6	58.8	.6
EASTERN PIEDMONT 02																												
AMELIA 4 SW			40.0		36.8		43.1		54.4		66.5		73.4		80.5		76.5		69.9		54.8		47.2		35.9		56.6	
ASHLAND			39.6	5.0	35.9	-1.9	43.4	-3.6	55.8	-5.5	66.4	1.7	72.9	5.5	79.4	3.0	76.7	1.4	70.0	1.1	56.2	-1.1	48.3	2.2	36.6	-2.0	56.8	.3
BREMO BLUFF		M	38.5		35.0		43.0		53.4		66.3		73.4		80.0		77.3		70.8		56.0				35.3			
CAMP PICKETT			40.1		36.2		43.8		53.6		66.9		73.6		81.1		77.5		70.9		55.6		47.8		36.0		56.9	
CHASE CITY			40.3	5.0	37.3	-4.4	44.3	-2.5	55.6	0.0	68.1	3.4	74.9	1.8	82.0	4.7	77.9	2.0	71.6	2.2	56.7	-1.2	47.9	-5.5	37.0	-2.2	57.8	1.0
CORBIN			37.6	4.3	34.1	-2.1	40.3	-5.1	53.5	-1.0	64.7	1.1	71.6	-2.2	78.3	2.4	75.3	3.3	69.0	6.6	55.4	-1.5	46.3	-1.6	36.3	-1.5	55.2	-4
CROZIER			39.8	5.9	36.2	-8.8							70.9	-1.1	79.0	2.7	75.6	5.5	68.9	4.4	54.4	-2.3	46.2	-1.6	35.5	-2.7		
FARMVILLE 2 N			38.9	4.7	35.8	-1.0	41.5	-5.2	53.8	-1.6	66.7	2.3	72.8	5.5	80.5	4.4	77.0	2.3	70.4	2.7	55.7	-1.3	47.4	1.1	36.6	-1.6	56.4	.5
JOHN H KERR DAM			41.8	5.7	38.9	0.0	45.5	-2.1	55.7	-1.2	68.7	3.1	74.9	1.4	81.8	4.3	78.9	2.5	73.9	4.1	58.4	-1.1	50.6	9.9	39.8	-7.7	59.1	1.5
LAWRENCEVILLE 3 E			40.6	4.9	37.6	-5.5	45.1	-2.4	54.4	-1.2	66.6	2.2	73.8	2.1	80.0	3.9	76.3	1.2	71.4	3.1	56.0	-1.7	49.5	9.9	37.7	-1.9	57.4	.9
LOUISA			37.9	3.7	34.8	-2.6	41.5	-5.2	54.1	-1.4	64.8	6.7	71.2	-8.8	78.4	2.7	75.1	6.6	69.0	1.0	55.3	-1.7	46.6	-1.2	34.8	-3.3	55.3	-6
RICHMOND WSO AIRPORT		R	41.4	5.7	37.8	-9.9	45.9	-2.1	55.9	-1.4	67.7	1.7	75.0	1.1	82.5	4.5	78.5	1.7	72.5	2.5	58.6	0.0	50.9	1.3	39.0	-1.1	58.8	1.1
--DIVISIONAL DATA-----			39.7	4.7	36.4	-1.7	43.4	-3.7	54.6	-1.6	66.7	2.0	73.2	6.6	80.3	3.8	76.9	1.5	70.7	1.9	56.1	-1.4	48.1	-5.5	36.7	-2.4	56.9	.3
WESTERN PIEDMONT 03																												
APPOMATTOX			37.1	4.3	35.1	-3.3	41.2	-3.5	53.5	-6.6	66.0	2.9	71.5	4.4	78.8	3.7	75.5	1.6	67.9	7.7	54.0	-1.6	44.9	-1.9	34.9	-2.2	55.0	.3
BEDFORD			41.4	5.8	37.0	-1.5	43.7	-4.0	55.5	-1.4	65.5	1.0	72.1	4.7	79.3	4.3	76.7	3.0	71.3	4.0	59.3	2.4	49.2	9.9	38.5	-6.6	57.5	1.2
CHARLOTTE COURT HSE 3W			39.1	5.1	35.8	-1.1	42.1	-4.2	53.9	-1.5	65.6	1.7	72.2	4.7	79.6	3.8	76.0	1.2	70.0	1.7	55.2	-1.7	47.3	-5.5	36.7	-1.6	56.1	.3
CHARLOTTESVILLE 2 W		M	37.5	3.0	34.8	-2.3	40.5	-6.1	54.8	-1.6	65.7	8.8	72.3	-3.3	79.2	2.8	75.6	6.6	67.9	-1.0	55.5	-2.6	46.8	-2.2	35.8	-2.5	55.5	-1.0
CHATHAM			36.6	2.8	34.0	-2.5	39.6	-5.6	50.9	-3.1	65.0	2.1	71.1	5.7	78.7	4.1	74.3	1.0	68.6	1.6	52.8	-2.7	44.6	-2.2	34.6	-3.2	54.2	-6
DANVILLE			40.4	4.3	37.9	-1.3	43.7	-4.5	54.6	-2.8	67.9	1.5	74.2	0.0	81.6	3.6	78.0	1.0	72.3	2.0	56.7	-1.7	48.0	-1.2	38.3	-1.7	57.8	-1
LYNCHBURG WSO AIRPORT		R	40.1	5.9	36.4	-8.8	43.8	-2.6	56.1	4.4	67.6	3.5	73.9	2.2	80.7	5.1	77.8	3.2	70.8	2.7	56.8	-2.2	48.1	4.4	37.7	-7.7	57.5	1.6
MARTINSVILLE FILTER PL			38.0	4.3	35.4	-7.7	42.1	-4.0	53.3	-9.9	64.2	9.9	70.6	-4.4	77.7	2.8	74.7	1.0	68.4	1.4	54.6	-1.0	45.2	-1.2	35.0	-2.4	54.9	0
MONTICELLO			38.5		35.8		41.4		54.7		66.1		71.8		79.2		76.2		68.8		55.8		48.8		36.9		56.2	
PHILPOTT DAM 2			40.5	6.2	37.7	7.7	43.0	-2.7	54.7	1.1	66.7	3.5	72.7	1.9	79.8	4.9	76.4	2.5	70.8	3.2	56.9	3.3	48.0	2.2	37.7	-7.7	57.1	1.7
ROCKY MOUNT			39.7	5.8	36.3	-3.3	41.0	-4.4	53.6	-8.8	65.7	2.8	72.7	1.9	79.5	4.7	76.3	2.7	68.4	1.5	56.7	9.9	47.6	5.5	36.7	-1.1	56.2	1.2
SOUTH BOSTON			40.2		37.6		43.8		54.2		67.8		73.5		80.1		76.4		71.3		55.7		46.7		36.9		57.0	
STUART			40.8	6.9	37.4	9.9	42.7	-3.1	53.0	-2.0	65.2	1.4	71.3	5.5	77.8	3.6	74.6	1.4	69.6	3.0	56.2	2.4	46.6	-7.7	36.8	-1.0	56.0	.9
TYE RIVER 1 SE			38.7	4.4	35.5	-1.4	41.6	-4.0	54.2	-9.9	65.9	2.6																



# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL (°F)

VIRGINIA  
1993

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	30.6	5.8	24.2	-2.6	29.7	-5.8	43.0	-2.0	56.8	2.3	62.0	.0	67.0	1.5	64.0	-.5	58.3	.0	45.4	-2.7			25.5	-3.6		
LINCOLN	38.3	5.7	34.5	-1.3	40.9	-4.4	54.1	-.7	65.7	1.6	72.1	-.4	79.6	3.2	77.2	2.2	68.5	-.1	57.5	.1	47.9	.3	36.0	-1.2	56.0	.4
LURAY 5 E	36.0	6.3	32.6	.1	38.1	-4.3	50.9	-1.0	61.4	.2	68.1	-.5	74.9	2.4	73.2	2.0	67.2	2.7	52.5	-1.2	44.7	.1	33.3	-1.1	52.7	.5
MOUNT WEATHER	33.0	5.6	27.3	-2.3	34.9	-4.1	48.1	-.5	62.8	3.3	68.8	-.8	75.4	3.4	74.0	3.3	64.6	.6	52.0	-.8	42.3	-.7	30.8	-1.6		
PIEDMONT RESEARCH STN	37.6	5.3	34.8	-.3	40.0	-4.6	53.3	-1.1	65.1	1.6	71.9	.1	78.7	3.0	75.4	1.0	69.1	1.3	55.0	-1.4	46.8	-.2	36.2	-.5	55.3	.4
STERLING RCS	36.2		32.1		38.7		51.9		64.0		70.4		77.6				67.0		52.9		43.5		33.5		53.6	
WARRENTON 3 SE	36.7	5.1	33.0	-1.3	39.6	-4.2	52.9	-.5	64.6	2.0	71.4	.5	78.5	3.4			59.4	-8.3	44.3	-11.9	40.0	-6.8	31.8	-4.5		
WASHINGTON 3 SSW																										
WASHINGTON WSO DULLES	36.8	6.2	31.7	-1.9	39.3	-3.9	52.6	-.1	64.5	2.3	72.0	1.0	79.7	4.1	78.0	3.8	68.7	1.6	54.2	-.9	45.3	-.1	34.0	-1.4	54.7	.9
WASHINGTON NATL WSCMO	39.7	5.1	34.3	-3.2	42.2	-5.0	54.8	-1.7	67.4	1.0	75.3	-.3	83.1	3.1	79.6	1.1	71.0	-.3	58.1	-1.6	48.8	-1.0	38.1	-1.3	57.7	-.3
WINCHESTER WINC			31.1						64.0		70.1		77.3		75.4		66.9		53.3		44.5		33.2			
WINCHESTER 7 SE	35.2	5.7			37.3	-5.0	49.1	-2.6	63.0	1.1	69.6	-.3	77.0	2.9	74.7	2.0	67.1	1.5	52.6	-1.6	43.6	-.6	32.5	-1.7		
WOODSTOCK 2 NE	38.5	6.3	34.6	-.7	40.5	-4.3	53.5	-.6	63.6	.4	70.7	-.3	76.4	1.6	73.8	.1	65.3	-1.9	54.9	-1.1	45.7	-.7	34.8	-1.7	54.4	-.2
--DIVISIONAL DATA-----	36.2	5.1	31.8	-2.1	38.3	-5.2	51.6	-1.4	63.6	1.2	70.2	-.4	77.1	2.4	74.6	1.2	66.1	-.6	52.7	-2.6	44.8	-1.0	33.3	-2.3	53.4	-.4
CENTRAL MOUNTAIN 05																										
BUCHANAN	40.4	5.3	37.1	-1.2	42.9	-4.8	56.8	.6	67.2	2.5	73.4	1.6	80.0	4.6	76.7	2.1	69.9	1.8	56.6	-.6	47.3	-.2	35.8	-2.7	57.0	.8
COVINGTON FILTER PLANT	41.0	7.5	36.3	-.8	43.1	-3.4	55.9	.8	65.1	1.6	71.9	1.6	78.2	4.1	75.2	2.1	68.8	2.0	55.7	-.5	47.2	-.6				
DALE ENTERPRISE	37.0	5.9	32.5	-1.6	39.3	-4.5	52.4	-.2	63.7	1.7	70.5	.5	77.4	3.8	75.4	3.2	67.3	1.6	54.1	-.3	44.7	-.1	32.6	-2.7	53.9	.6
GATHRIGHT DAM	35.9		31.6		37.9		50.3		61.6		68.2		75.6		72.6		65.8		52.4		43.3		32.6		52.3	
LEXINGTON	38.9	5.3	35.2	-1.5	42.5	-3.8	54.5	-.8	64.3	.4	70.5	-.6	77.6	2.8	74.8	1.0	67.7	.6	54.1	-2.0	45.9	-.5	34.8	-2.5	55.1	-.1
PAINT BANK 1 W															80.6		75.3		61.8		45.1		33.2			
ROANOKE WSO AIRPORT	39.7	5.2	36.0	-1.3	42.1	-4.7	54.5	-1.1	65.6	1.5	71.9	.4	80.3	4.7	76.8	2.2	68.6	.9	55.3	-1.2	47.3	-.2	36.2	-2.1	56.2	.4
STAUNTON SEWAGE PLANT	35.9	5.1	31.2	-2.0	37.2	-5.4	49.5	-2.0	61.0	.3	67.2	-1.5	74.6	1.9	72.0	.7	66.0	1.6	50.9	-2.0	42.4	-1.7	31.5	-3.3	51.6	-.7
--DIVISIONAL DATA-----	38.4	6.7	34.3	-.5	40.7	-3.5	53.4	.2	64.1	2.1	70.5	1.1	77.7	4.5	75.5	3.4	68.7	3.2	55.1	.5	45.4	.3	33.8	-2.0	54.8	1.3
SOUTHWESTERN MOUNTAIN 06																										
ABINGDON 3 S	39.0		34.7		39.7		50.5		61.9		69.9		77.0		72.6		66.7		53.0		44.3		35.0		53.7	
BIG STONE GAP	41.2		35.6		41.0		52.4		63.2		70.4		78.1		73.7		67.4		54.3		45.0		36.3		54.9	
BLACKSBURG 3 SE	36.4	6.8	32.5	.1	37.8	-4.0	49.8	-.7	62.2	3.0	68.0	1.2	75.9	5.3	71.8	2.2	65.3	2.2	51.7	-.2	43.7	.5	33.4	-.4	52.4	1.3
BLAND	36.3		31.4		35.8		47.5		58.4		65.6		73.0		69.3		63.4		49.8		41.1		31.6		50.3	
BURKES GARDEN	34.3	7.4	28.5	-1.2	34.7	-4.2	45.2	-1.9	56.4	.2	62.8	-.4	70.2	3.2	65.8	.1	61.1	1.5	47.6	-1.0	38.8	-1.3	29.6	-1.8	47.9	.1
CLINTWOOD 1 W															74.1		71.2		64.2		50.9		41.5		32.6	
FLOYD 2 NE	37.2	5.9	32.6	-1.6	38.7	-4.1	50.2	-.7	59.9	.8	66.4	.4	73.6	4.0	69.6	1.0	65.0	2.5	52.4	.4	42.4	-.8	31.8	-3.0	51.7	.4
GALAX RADIO WBRF	35.0	2.7	31.8	-3.6	37.0	-7.2	47.7	-4.6	58.7	-1.8	64.9	-2.4	71.4	.7	68.7	-1.2	63.5	-.2	51.3	-1.9	42.1	-2.1	31.9	-3.9	50.3	-2.1
GRUNDY	41.4	8.4	36.7	-.1	41.4	-4.7	52.4	-2.3	63.9	.6	71.4	.4	78.2	3.1	75.0	.8	69.4	1.1	56.3	.4	46.2	-.5	37.1	-.1	55.8	.6
LEBANON	39.0		33.7		39.6		49.9		60.8		67.9		75.8		71.6		66.2		51.5		43.4		34.6		52.8	
MOUNT LAKE BIOL STN					33.5		44.5				62.4		69.8		65.9		60.7		47.0		37.8		27.7			
PENNINGTON GAP	37.3	5.6	31.9	-3.1	37.3	-7.4	49.1	-4.0	61.3	-.7	67.9	-1.5	77.1	4.1	73.8	1.8	66.7	.6	53.9	-.7	42.3	-2.8	36.0	-.1	52.9	-.7
PULASKI	36.7	5.7	32.3	-1.1	37.4	-5.0	48.7	-2.2	61.3	1.0	67.3	-.3	75.0	3.7	70.9	.7	65.2	1.5	51.4	-1.6	42.7	-1.0	32.5	-2.8	51.8	-.1
RICHLANDS	38.4		33.6		38.6		49.5		60.8		68.5		75.8		71.6		66.4		52.3		43.6		33.8		52.7	
SALTVILLE 1 N	39.0		34.1		39.7		51.1		62.3		68.5		76.3		72.5		66.6		52.7		43.2		34.1		53.3	
STAFFORDSVILLE 3 ENE	39.4	7.3	35.6	.3	40.6	-4.5	53.4	.1			68.7	.7	75.0	3.0	72.3	1.5	67.0	2.4	55.5	1.8	45.7	.8	33.8	-2.6		
WISE 2 E	39.7	7.9	35.1	-.2	41.0	-4.0	53.2	-.2	62.4	1.5	68.6	1.1	75.0	4.5	71.6	1.8	65.2	.8	54.1	-.4	45.0	-.5	35.6	-.6	53.9	1.0
WYTHEVILLE 1 S	36.6	6.9	32.1	-.3	37.2	-4.4	48.0	-1.8	59.8	.2	66.2	-.5	74.6	3.8	69.8	.1	64.3	.8	50.4	-1.8	41.4	-1.2	30.8	-3.3	50.9	-.1
--DIVISIONAL DATA-----	37.9	6.2	33.3	-1.4	38.3	-5.8	49.6	-2.7	60.9	.3	67.4	-.3	74.8	3.7	71.0	.7	65.2	1.0	52.0	-1.5	42.8	-1.6	33.2	-2.4	52.2	-.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# TEMPERATURE EXTREMES AND FREEZE DATA (°F)

VIRGINIA  
1993

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.									
VIRGINIA																															
TIDEWATER 01																															
BACK BAY WILDLIFE REFU					MSG		MSG		2/20	23	3/18	27	MSG		MSG		MSG		MSG		MSG		MSG		MSG						
COLONIAL BEACH	102	7/14	10	12/31	3/20	16	3/20	16	3/20	16	3/20	16	3/22	30	11/2	30	11/9	27	12/12	23	12/26	19	12/30		15285	281	267	234	225		
EMPORIA 1 WNW	100	7/30	14	12/31	NONE		3/15	17	3/20	22	3/21	28	3/21	28	11/2	28	11/2	28	12/12	24	12/31	14	12/31	14	291	267	226	226			
FREDERICKSBURG NATL PK	101	7/11	2	12/31	3/20	16	3/20	16	3/20	16	3/21	28	4/28	32	10/24	30	11/2	23	11/2	23	12/24	19	12/30		7285	279	227	226	179		
HOLLAND 1 E	101	7/30	10	12/31	3/15	15	3/15	15	3/19	22	3/20	26	3/23	32	10/24	31	11/2	26	12/12	21	12/24	20	12/31		10291	284	268	227	215		
HOPEWELL	101	9/2	11	12/31	2/19	16	3/19	20	3/19	20	3/20	28	3/20	28	10/24	32	11/2	28	12/12	22	12/26	13	12/26		13310	282	268	227	218		
KILMARNOCK 1 N					MSG		MSG		MSG		MSG		MSG		10/24	31	11/8	26	11/21	23	12/30	11	12/30								
LANGLEY AIR FORCE BASE	101	7/29	16	12/31	NONE		2/19	18	3/15	22	3/18	27	3/20	31	11/21	30	12/12	26	12/30	17	12/30	17	12/31								
MATHEWS 2 ENE	99	7/30	5	12/31	3/15	16	3/15	16	3/18	24	3/19	27	3/22	31	11/8	32	11/8	28	12/12	23	12/30	14	12/30		14290	290	269	234	226		
NORFOLK WSO AIRPORT	103	7/29	16	12/31	NONE		2/19	19	3/15	23	3/19	28	3/21	32	11/8	32	12/12	26	12/30	19	12/30	19	12/31								
PAINTER 2 W	99	7/10	9	12/31	2/20	16	2/28	18	3/19	24	3/20	27	3/22	31	11/8	30	12/12	27	12/29	23	12/31	9	12/31		9314	306	285	267	231		
STONY CREEK 3 ESE	102	7/30	13	12/31	MSG		3/15	17	3/19	21	3/20	26	3/20	26	10/1	32	11/2	25	11/21	22	12/31	13	12/31								
SUFFOLK LAKE KILBY	98	7/29	16	12/31	NONE		3/15	20	3/15	20	3/19	27	3/20	31	11/8	32	12/11	28	12/30	20	12/30	20	12/31								
TANGIER ISLAND	100	7/10			MSG		MSG		MSG		MSG		MSG		12/12	28	12/12	28	12/28	24	12/31	19	NONE								
WAKEFIELD 2					3/15	14	3/15	14	3/19	21	3/20	26	3/21	31	11/2	26	11/2	26	MSG		MSG		MSG								
WALKERTON 2 NW	101	7/9	7	12/31	3/15	11	3/20	20	3/20	20	3/20	20	4/8	30	10/29	32	11/2	26	11/21	22	12/25	20	12/30		14290	280	246	227	204		
WARSAW 2 NW	99	7/29	5	12/31	3/15	11	3/19	18	3/19	18	3/20	27	4/8	30	10/24	32	11/8	27	12/12	22	12/30	19	12/31		5291	286	268	233	199		
WEST POINT 2 SW	99	7/29	6	12/31	3/15	15	3/19	20	3/20	24	3/20	24	4/8	32	10/24	32	11/2	25	11/21	23	12/29	19	12/30		15290	285	246	227	199		
WILLIAMSBURG 2 N	100	7/29	8	12/31	3/16	15	3/16	15	3/20	24	3/20	24	3/22	31	11/2	29	11/21	27	12/12	24	12/30	18	12/31		8290	289	267	246	225		
EASTERN PIEDMONT 02																															
AMELIA 4 SW	101	7/10	8	12/31	3/19	16	3/20	18	3/20	18	3/21	28	4/24	30	10/1	30	11/2	22	11/2	22	12/12	17	12/30		11286	267	227	226	160		
ASHLAND	98	7/29	4	12/31	3/19	15	3/19	15	3/19	15	3/20	25	4/8	32	10/24	32	11/2	25	11/21	24	12/12	18	12/30		13286	268	247	227	199		
BREMO BLUFF	101	7/8	3	12/31	3/19	14	3/19	14	3/19	14	4/9	27	4/25	29	10/24	31	10/30	28	11/2	24	11/21	20	12/26		13282	247	228	204	182		
CAMP PICKETT	101	7/10	8	3/15	3/15	8	3/19	17	3/20	23	3/20	23	4/28	30	10/1	32	11/2	24	11/2	24	12/13	20	12/31		9291	269	227	227	156		
CHASE CITY	100	7/30	12	3/15	3/15	12	3/20	20	3/20	20	3/20	20	4/13	29	10/24	32	11/2	26	11/21	24	12/12	14	12/12		14272	267	246	227	194		
CORBIN	99	7/15	3	12/31	3/19	11	3/19	11	3/20	22	3/22	28	4/28	30	10/1	32	11/2	24	11/2	24	12/25	19	12/30		14286	281	227	225	156		
CROZIER					MSG		MSG		MSG		MSG		MSG		10/24	32	11/2	25	11/9	24	12/12	19	12/31								
FARMVILLE 2 N	101	7/29	9	12/31	3/16	12	3/20	18	3/20	18	3/21	25	4/9	32	10/24	30	11/2	24	11/2	24	12/12	18	12/13		16272	267	227	226	198		
JOHN H KERR DAM	99	8/30	16	12/31	NONE		3/15	18	3/20	24	3/20	24	3/21	29	10/24	31	11/2	27	12/12	23	12/31	16	12/31		16						
LAWRENCEVILLE 3 E	100	7/29	8	12/31	3/15	12	3/19	18	3/19	18	3/20	25	4/28	31	10/13	31	10/24	28	11/8	24	12/12	19	12/31		8291	268	234	218	168		
LOUISA	98	7/8	-1	12/31	3/19	11	3/19	11	3/20	23	3/20	23	4/28	29	10/1	31	10/29	28	11/2	21	11/30	20	12/12		16268	256	227	223	156		
RICHMOND WSO AIRPORT	102	7/8	8	12/31	2/25	16	3/19	20	3/19	20	3/20	27	3/20	27	11/2	28	11/2	28	12/12	24	12/30	16	12/30		16308	286	268	227	227		
WESTERN PIEDMONT 03																															
APPOMATTOX	99	7/10	5	3/15	3/19	16	3/20	17	3/20	17	3/21	26	3/22	32	10/1	32	10/29	27	11/2	20	11/2	20	12/12		16268	227	227	222	193		
BEDFORD	97	9/1	9	3/15	3/19	15	3/19	15	3/20	24	3/20	24	4/7	30	11/2	29	11/8	27	12/11	24	12/26	19	12/31		16287	282	266	233	209		
CHARLOTTE COURT HSE 3W	96	9/2	11	12/31	3/16	15	3/20	20	3/20	20	3/21	28	4/28	32	10/24	31	11/2	24	11/2	24	12/24	20	12/31		11290	279	227	226	179		
CHARLOTTESVILLE 2 W	100	7/12	9	12/31	3/20	13	3/20	13	3/20	13	3/20	13	4/6	31	10/11	30	11/2	26	12/1	24	12/12	17	12/26		13281	267	256	227	188		
CHATHAM	100	7/10	0	3/16	3/19	15	3/20	18	3/21	22	4/18	27	4/29	32	10/1	29	10/24	26	10/29	24	11/2	20	12/1		11257	227	222	189	155		
DANVILLE	100	7/10	12	3/16	3/16	12	3/16	12	3/20	21	3/21	28	3/21	28	10/29	31	11/2	27	12/13	24	12/31	15	12/31		15290	202	268	226	222		
LYNCHBURG WSO AIRPORT	97	7/9	7	3/15	3/15	7	3/19	19	3/20	24	3/20	24	3/20	24	10/29	30	11/2	27	11/8	24	12/24	20	12/31		11291	280	233	227	223		
MARTINSVILLE FILTER PL	97	7/29	-3	3/15	3/16	16	3/20	17	3/20	17	4/7	28	4/28	29	10/1	30	10/24	27	11/2	22	11/8	20	12/13		16272	233	227	200	156		
MONTICELLO	98	7/9	10	12/31	3/19	16	3/19	16	3/19	16	3/19	16	3/20	31	11/2	30	12/1	28	12/12	19	12/12	19	12/31		10287	268	268	257	227		
PHILPOTT DAM 2	99	7/30	6	3/15	3/16	10	3/19	17	3/20	21	3/20	21	3/21	29	10/24	32	11/2	28	12/12	22	12/26	18	12/31		13290	282	267	227	217		
ROCKY MOUNT	98	7/28	8	3/15	3/19	16	3/20	17	3/20	17	3/21	25	4/8	31	10/25	32	11/2	26	12/12	20	12/12	20	12/26		16282	267	267	226	200		
SOUTH BOSTON	99	7/31	10	3/16	3/16	10	3/20	19	3/20	19	3/21	26	4/9	32	10/24	31	11/2	24	11/2	24	12/13	20	12/31		11290	268	227	226	198		
STUART	97	7/10	2	3/16	3/16	2	3/19	19	3/20	21	3/21	28	4/29	32	10/24	32	11/2	25	11/8	24	12/24	19	12/31		16290	280	233	226	178		
TYE RIVER 1 SE	100	7/10	8	12/31	3/20	15	3/20	15	3/20	15	3/21	26	4/29	32	10/1	31	10/29	28	11/2	23	12/24	19	12/30		15285	279	227	222	155		
NORTHERN 04																															
BIG MEADOWS	88	7/10	-7	2/19	3/20	10	3/21	18	4/27	22	4/28	25	5/21	30	9/30	29	10/1	20	10/1	20	10/1	20	MSG								
LINCOLN	98	8/27	7	3/19	3/19	7	3/20	17	3/20	17	3/20	17	4/28	32	10/11	32	11/8	28	11/9	24	12/12	20	12/27		132						

# TEMPERATURE EXTREMES AND FREEZE DATA (°F)

VIRGINIA  
1993

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.						
STERLING RCS	99	7/29	-2	3/15	3/19	10	3/20	20	3/20	20	4/ 8	28	4/28	30	10/ 1	29	10/24	28	11/ 5	23	11/21	19	12/26	15	282	246	230	199	156	
WARRENTON 3 SE	98	7/10	5	12/31	3/19	10	3/19	10	3/20	21	3/20	21	3/21	30	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	MSG	
WASHINGTON 3 SSW					MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG		MSG	
WASHINGTON WSO DULLES	100	7/ 8	-1	3/15	3/19	12	3/19	12	3/19	12	4/ 7	28	4/28	32	10/ 1	31	11/ 4	27	11/ 8	24	12/ 1	20	12/26	15	282	257	234	211	156	
WASHINGTON NATL WSCMO	R 100	7/28	11	2/19	3/15	15	3/19	18	3/19	18	3/19	18	3/20	29	11/ 2	31	12/11	25	12/12	23	12/26	18	12/31	15	291	282	268	267	227	
WINCHESTER WINC					MSG		MSG		MSG		MSG		MSG		10/11	31	11/ 8	23	11/ 8	23	12/12	20	12/26	14						
WINCHESTER 7 SE	99	8/29			3/20	12	3/20	12	4/23	24	4/23	24	4/28	29	10/ 1	31	10/11	26	11/ 8	18	11/ 8	18	12/25	16	280	233	199	171	156	
WOODSTOCK 2 NE	97	7/10	-1	3/15	3/19	5	3/19	5	3/19	5	4/ 7	28	4/28	30	10/ 1	24	10/ 1	24	10/ 1	24	11/ 8	20	12/26	15	282	234	196	177	156	
CENTRAL MOUNTAIN 05																														
BUCHANAN	100	7/ 9	1	3/15	3/20	15	3/20	15	3/20	15	3/20	15	4/ 8	32	10/23	32	10/29	28	11/ 8	22	12/13	20	12/25	16	280	268	233	223	198	
COVINGTON FILTER PLANT	100	7/28			3/19	13	3/19	13	3/19	13	4/ 7	28	4/28	30	10/ 1	30	10/23	27	10/29	22	11/ 8	18	MSG							
DALE ENTERPRISE	96	7/28	2	3/15	3/19	10	3/19	10	3/20	24	4/ 7	28	4/28	31	10/ 1	31	11/ 2	22	11/ 2	22	11/ 8	19	12/24	15	280	234	227	209	156	
GATHRIGHT DAM	96	7/29	2	3/15	3/20	15	3/20	15	3/20	15	4/18	28	4/28	31	10/ 1	31	10/29	25	11/ 2	22	11/ 8	20	12/13	15	268	233	227	194	156	
LEXINGTON	95	7/ 9	0	3/15	3/19	16	3/19	16	3/19	16	4/ 7	28	4/29	29	10/ 1	31	10/24	28	11/ 2	22	11/ 8	20	12/24	15	280	234	228	200	155	
PAINT BANK 1 W					MSG		MSG		MSG		MSG		MSG		10/29	30	11/ 4	22	11/ 4	22	11/ 8	14	11/ 8	14						
ROANOKE WSO AIRPORT	R 98	7/28	9	3/15	3/19	16	3/19	16	3/19	16	3/20	27	4/ 7	29	10/ 1	32	11/ 2	25	11/ 8	23	12/24	19	12/31	15	287	280	234	227	177	
STAUNTON SEWAGE PLANT	96	7/29	-3	3/15	3/19	8	3/20	18	3/20	18	4/28	26	5/22	31	10/ 1	27	10/ 1	27	11/ 2	19	11/ 2	19	11/ 8	16	234	227	227	156	132	
SOUTHWESTERN MOUNTAIN 06																														
ABINGDON 3 S	96	7/10	-5	3/15	3/16	0	3/16	0	3/20	24	3/20	24	4/28	30	10/14	32	10/29	27	11/ 2	22	11/29	20	12/26	13	285	258	227	223	169	
BIG STONE GAP	96	8/31	-2	3/16	3/16	-2	3/16	-2	3/19	24	3/20	25	4/24	29	10/ 1	32	10/29	27	11/ 3	24	12/12	20	12/26	10	285	271	229	223	160	
BLACKSBURG 3 SE	94	7/27	4	3/15	3/19	12	3/20	17	3/20	17	4/ 8	28	4/23	32	10/ 1	27	10/ 1	27	11/ 8	19	11/ 8	19	12/12	15	268	233	233	176	161	
BLAND	94	7/10	-4	3/16	3/20	9	3/20	9	3/20	9	4/29	28	5/22	31	10/ 1	28	10/ 1	28	10/24	24	11/ 2	17	11/ 3	16	282	272	218	155	132	
BURKES GARDEN	87	7/29	3	2/19	3/19	16	3/20	17	4/ 4	24	4/28	27	6/ 2	32	9/12	32	10/ 1	26	10/23	22	11/ 2	11	11/ 2	11	228	227	202	156	102	
CLINTWOOD 1 W					MSG		MSG		MSG		MSG		MSG		10/ 1	28	10/ 1	28	11/ 2	23	11/ 8	16	11/ 8	16						
FLOYD 2 NE	91	7/28	-7	3/15	3/19	6	3/20	19	4/ 7	24	4/28	26	5/23	32	10/ 1	26	10/ 1	26	10/24	22	10/29	20	11/ 8	15	234	223	200	156	131	
GALAX RADIO WBRF	89	7/ 8	-9	3/15	3/19	6	3/20	20	3/20	20	4/28	25	5/23	32	10/ 1	26	10/ 1	26	10/24	24	11/ 8	18	12/12	14	268	233	218	156	131	
GRUNDY	98	7/ 9	-3	3/16	3/16	-3	3/20	20	3/20	20	3/20	20	4/24	32	10/24	32	11/ 8	21	11/ 8	21	12/12	18	12/26	11	285	267	233	233	183	
LEBANON	95	7/ 6	-6	3/15	3/16	0	3/16	0	3/20	22	3/20	22	4/24	30	10/ 1	30	10/23	28	11/ 2	20	11/ 2	20	12/12	16	271	231	227	217	160	
MOUNT LAKE BIOL STN	86	7/29			3/19	4	3/19	4	MSG		MSG		MSG		9/30	32	10/ 1	25	10/31	22	11/ 1	20	11/ 2	14	228	227				
PENNINGTON GAP	94	7/28	-8	3/16	3/16	-8	3/19	20	3/20	21	4/23	25	4/28	32	10/ 1	30	10/29	27	11/ 2	23	11/ 8	18	12/12	16	271	234	227	189	156	
PULASKI	94	7/29	0	3/16	3/20	15	3/20	15	3/20	15	3/21	27	4/28	29	10/ 1	28	10/ 1	28	11/ 2	24	11/ 8	18	12/13	16	268	233	227	194	156	
RICHLANDS	93	7/ 6	-8	3/16	3/16	-8	3/19	19	3/20	24	4/28	25	4/29	31	10/ 1	29	10/28	26	11/ 2	21	11/ 8	18	12/12	14	271	234	227	183	155	
SALTVILLE 1 N	95	7/ 9	-4	3/15	3/16	-1	3/17	20	3/19	23	3/20	26	4/29	31	10/ 1	30	10/23	28	10/29	24	11/ 8	18	12/26	8	285	236	224	217	155	
STAFFORDSVILLE 3 ENE	92	7/28	2	3/15	3/19	13	3/19	13	3/19	13	3/20	27	MSG		10/ 1	27	10/ 1	27	11/ 8	16	11/ 8	16	11/ 8	16	16	234	234	234	195	
WISE 2 E	90	9/ 1	5	3/15	3/15	5	3/18	19	3/19	21	4/22	28	4/22	28	10/23	30	10/31	28	11/ 2	20	11/ 2	20	12/12	15	272	229	228	192	184	
WYTHEVILLE 1 S	95	7/10	3	3/16	3/20	15	3/20	15	3/20	15	4/ 3	28	5/22	32	10/ 1	26	10/ 1	26	10/24	24	11/ 2	19	11/ 8	14	233	227	218	181	132	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS  
BASE=65 DEGREES FAHRENHEIT

VIRGINIA  
1993

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
<b>VIRGINIA</b>														
TIDEWATER 01														
BACK BAY WILDLIFE REFU	-	0	0	0	19	-	358	-	-	344	-	-	-	1453
COLONIAL BEACH	0	B	0	0	28	144	342	558	454	273	26	15	0	1840
EMPORIA 1 WNW	0	0	0	0	14	126	310	551	423	249	20	7	0	1700
FREDERICKSBURG NATL PK	0	0	0	0	14	87	251	472	358	186	1	8	0	1377
HOLLAND 1 E	0	0	0	0	12	111	299	519	373	242	18	11	0	1585
HOPEWELL	0	0	0	0	36	177	373	562	477	314	34	24	0	1997
KILMARNOCK 1 N	0	0	0	0	-	99	293	501	404	241	23	12	0	-
LANGLEY AIR FORCE BASE	0	0	B	0	28	139	342	578	457	284	36	19	0	1883
MATHEWS 2 ENE	0	0	0	0	9	104	286	476	362	244	20	14	0	1515
NORFOLK WSO AIRPORT	0	0	0	0	23	136	345	579	438	305	31	18	0	1875
PAINTER 2 W	0	0	0	0	4	93	287	521	382	261	24	15	0	1587
STONY CREEK 3 ESE	0	0	0	0	19	-	370	552	424	233	17	11	0	-
SUFFOLK LAKE KILBY	0	0	0	0	9	120	308	544	419	266	28	14	0	1708
TANGIER ISLAND	-	-	-	0	0	107	390	613	473	326	49	12	0	-
WAKEFIELD 2	0	0	0	0	11	97	277	-	389	239	12	9	-	-
WALKERTON 2 NW	0	0	0	0	30	102	292	507	405	235	12	16	0	1599
WARSAW 2 NW	0	0	0	0	21	116	288	491	379	230	18	14	0	1557
WEST POINT 2 SW	0	0	0	0	26	124	306	508	378	218	14	15	0	1589
WILLIAMSBURG 2 N	0	0	0	0	17	101	292	510	391	242	26	16	0	1595
<b>EASTERN PIEDMONT 02</b>														
AMELIA 4 SW	0	0	0	0	9	90	261	489	364	184	7	10	0	1414
ASHLAND	0	0	0	0	16	89	247	456	371	196	12	11	0	1398
BREMO BLUFF	B	B	0	0	5	85	263	471	392	197	10	-	0	-
CAMP PICKETT	0	0	0	0	12	106	270	504	396	214	15	10	0	1527
CHASE CITY	0	0	0	0	16	132	302	532	406	230	14	10	0	1642
CORBIN	0	0	0	0	18	73	215	419	326	167	2	9	0	1229
CROZIER	0	0	0	0	-	-	194	441	336	170	6	6	0	1094
FARMVILLE 2 N	0	0	0	0	12	98	248	489	377	201	14	11	0	1450
JOHN H KERR DAM	0	0	0	0	12	145	304	527	439	285	29	10	0	1751
LAWRENCEVILLE 3 E	0	0	0	0	4	91	274	471	359	216	8	10	0	1433
LOUISA	0	0	0	0	6	63	209	423	320	172	11	12	0	1216
RICHMOND WSO AIRPORT	R	0	0	0	14	112	307	547	426	261	20	18	0	1705
<b>WESTERN PIEDMONT 03</b>														
APPOMATTOX	0	0	0	0	6	88	207	434	331	149	5	1	0	1221
BEDFORD	0	0	0	0	1	72	224	451	368	215	23	6	0	1360
CHARLOTTE COURT HSE 3W	0	0	0	0	7	72	232	460	347	191	12	9	0	1330
CHARLOTTESVILLE 2 W	B	0	0	0	9	84	235	445	342	140	4	2	0	1261
CHATHAM	0	0	0	0	2	65	202	431	293	164	7	4	0	1168
DANVILLE	0	0	0	0	6	125	285	521	413	245	14	7	0	1616
LYNCHBURG WSO AIRPORT	R	0	0	0	9	118	277	489	403	213	17	9	0	1535
MARTINSVILLE FILTER PL	0	0	0	0	4	50	192	399	307	161	10	3	0	1126
MONTICELLO	0	0	0	0	8	89	230	447	354	156	5	8	0	1297
PHILPOTT DAM 2	0	0	0	0	4	99	246	466	363	205	19	6	0	1408
ROCKY MOUNT	0	0	0	0	5	81	245	455	357	149	22	6	0	1320
SOUTH BOSTON	0	0	0	0	10	122	262	478	360	221	12	5	0	1470
STUART	0	0	0	0	4	65	212	405	304	178	16	2	0	1186
TYE RIVER 1 SE	0	0	0	0	4	82	231	452	358	170	5	6	0	1308
<b>NORTHERN 04</b>														
BIG MEADOWS	B	0	0	0	7	46	101	32	17	0	-	0	0	150
LINCOLN	0	0	0	0	2	86	232	459	386	164	2	8	0	1339
LURAY 5 E	0	0	0	0	0	26	133	312	256	141	0	0	0	868
MOUNT WEATHER	0	0	0	0	-	53	162	329	252	104	0	2	0	615
PIEDMONT RESEARCH STN	0	0	0	0	4	68	223	433	329	166	1	5	0	1229
STERLING RCS	0	0	0	0	8	67	193	398	323	146	0	2	0	1137
WARRENTON 3 SE	0	0	0	0	3	59	207	427	-	50	B	0	0	962
WASHINGTON 3 SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	746
WASHINGTON WSO DULLES	0	0	0	2	71	233	464	407	183	2	6	0	0	1368

SEE REFERENCE NOTES FOLLOWING STATION INDEX

MONTHLY AND SEASONAL COOLING DEGREE DAYS  
BASE=65 DEGREES FAHRENHEIT

VIRGINIA  
1993

STATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	SEASONAL NORM
WASHINGTON NATL WSCMO R	0	0	0	5	114	319	569	460	218	9	8	0	1702	1549
WINCHESTER WINC	-	0	-	-	66	183	387	333	146	0	3	0	-	-
WINCHESTER 7 SE	0	-	0	0	56	173	378	311	131	0	3	0	-	823
WOODSTOCK 2 NE	0	0	0	2	44	185	359	281	103	0	2	0	976	937
CENTRAL MOUNTAIN 05														
BUCHANAN	0	0	0	5	109	266	473	370	182	6	1	0	1412	1049
COVINGTON FILTER PLANT	0	0	0	1	61	221	416	323	160	10	6	-	-	885
DALE ENTERPRISE	0	0	0	0	50	187	390	331	143	0	3	0	1104	797
GATHRIGHT DAM	0	0	0	0	15	133	336	246	102	5	0	0	837	-
LEXINGTON	0	0	0	1	43	182	396	312	137	4	2	0	1077	956
PAINT BANK 1 W	-	-	-	-	-	-	-	493	317	72	0	0	-	-
ROANOKE WSO AIRPORT R	0	0	0	2	78	226	481	374	166	8	6	0	1341	1052
STAUNTON SEWAGE PLANT	0	0	0	0	15	126	303	229	110	0	0	0	783	684
SOUTHWESTERN MOUNTAIN 06														
ABINGDON 3 S	0	0	0	1	23	182	378	247	115	2	1	0	949	-
BIG STONE GAP	0	0	0	0	41	191	412	278	130	3	0	0	1055	-
BLACKSBURG 3 SE	0	0	0	0	26	130	345	221	90	3	3	0	818	514
BLAND	0	0	0	0	4	75	257	151	58	0	0	0	545	-
BURKES GARDEN	0	0	0	0	0	38	172	70	29	1	0	0	310	194
CLINTWOOD 1 W	-	-	-	-	-	-	288	203	63	1	0	0	-	-
FLOYD 2 NE	0	0	0	0	2	73	274	152	81	1	0	0	583	400
GALAX RADIO WBRF	0	0	0	0	2	52	204	122	50	0	0	0	430	511
GRUNDY	0	0	0	0	52	214	416	316	167	13	1	0	1179	1033
LEBANON	0	0	0	0	20	131	343	214	107	0	0	0	815	-
MOUNT LAKE BIOL STN	-	-	0	0	-	36	157	55	20	0	0	0	-	-
PENNINGTON GAP	0	0	0	0	16	128	383	281	116	4	0	0	928	768
PULASKI	0	0	0	0	22	113	315	195	84	4	0	0	733	563
RICHLANDS	0	0	0	0	22	142	343	217	113	3	0	0	840	-
SALTVILLE 1 N	0	0	0	0	42	143	356	242	113	3	0	0	899	-
STAFFORDSVILLE 3 ENE	0	0	0	0	-	129	315	236	109	16	5	0	-	647
WISE 2 E	0	0	0	3	27	130	322	217	82	2	1	0	784	565
WYTHEVILLE 1 S	0	0	0	0	9	87	306	160	70	1	0	0	633	512

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# TOTAL EVAPORATION AND WIND MOVEMENT

VIRGINIA  
1993

STATION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
VIRGINIA														
TIDEWATER	01													
HOLLAND 1 E														
	WIND	-	-	-	B 1298	653	579	416	497	449	-	-	-	-
	EVAP	-	-	-	B 5.20	6.43	B 7.50	8.57	7.27	5.85	B 3.34	-	-	-
	MAX TEMP	-	-	-	67.1	79.0	87.3	92.5	87.3	81.9	66.3	-	-	M
	MIN TEMP	-	-	-	41.3	54.8	60.8	68.2	63.3	58.9	45.8	-	-	M
EASTERN PIEDMONT	02													
JOHN H KERR DAM														
	WIND	-	-	-	1802	1399	1251	1225	1333	1369	-	-	-	-
	EVAP	-	-	-	3.86	5.29	5.82	7.33	5.99	4.24	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
WESTERN PIEDMONT	03													
PHILPOTT DAM 2														
	WIND	-	-	-	-	448	396	386	B 323	421	-	-	-	-
	EVAP	-	-	-	-	4.05	4.59	5.21	B 3.96	3.04	-	-	-	-
	MAX TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN TEMP	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHERN	04													
PIEDMONT RESEARCH STN														
	WIND	-	-	-	1751	1051	943	708	572	742	821	-	-	-
	EVAP	-	-	-	B 4.70	6.08	7.09	7.38	B 6.32	B 4.78	B 3.26	-	-	-
	MAX TEMP	-	-	-	68.9	82.5	90.4	94.3	91.5	82.5	67.8	-	-	M
	MIN TEMP	-	-	-	42.5	57.3	64.1	71.4	69.0	61.5	46.5	-	-	M
CENTRAL MOUNTAIN	05													
GATHRIGHT DAM														
	WIND	-	-	-	-	674	582	604	492	542	601	-	-	-
	EVAP	-	-	-	-	4.98	5.77	5.45	4.34	3.03	2.29	-	-	-
	MAX TEMP	-	-	-	-	70.5	80.2	83.9	77.9	71.2	57.5	-	-	M
	MIN TEMP	-	-	-	-	47.9	55.7	61.4	58.8	53.1	38.7	-	-	M

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

VIRGINIA  
1993

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	1920	27	27	0			H
ALLISONIA 2 SSE	0135	06	PULASKI	36 54	80 45 W	1820	0	44	0			C H
ALTAVISTA	0166	03	CAMPBELL	37 6	79 18 W	510	0	50	0			
AMELIA 4 SW	0187	02	AMELIA	37 18	78 2 W	360	27	27	0			
APPOMATTOX	0243	03	APPOMATTOX	37 22	78 50 W	910	34	57	0			
ASHLAND	0327	02	HANOVER	37 45	77 29 W	220	83	83	0			H
BACK BAY WILDLIFE REFU	0385	01		36 40	75 55 W	10	43	43	0			
BEDFORD	0551	03	BEDFORD	37 21	79 31 W	975	67	81	0			
BIG MEADOWS	0720	04	MADISON	38 31	78 26 W	3540	60	60	0			H
BIG STONE GAP	0735	06	WISE	36 51	82 48 W	1864	6	6	0			H
BLACKSBURG 3 SE	0766	06	MONTGOMERY	37 11	80 25 W	2000	44	44	0			H
BLAND	0792	06	BLAND	37 6	81 6 W	2000	5	45	0			H
BREMO BLUFF	0993	02	FLUVANNA	37 42	78 18 W	225	10	55	0			C
BUCHANAN	1121	05	BOTETOURT	37 32	79 41 W	880	74	91	0			
BUCKINGHAM	1136	02	BUCKINGHAM	37 33	78 33 W	460	0	60	0			H
BUENA VISTA	1159	05	ROCKBRIDGE	37 44	79 21 W	840	0	58	0			
BURKES GARDEN	1209	06	TAZEWELL	37 5	81 20 W	3300	98	100	0			H
BYLLESBY 3 W	1259	06	CARROLL	36 48	80 59 W	2610	0	30	0			
CAMP PICKETT	1322	02	NOTTOWAY	37 2	77 57 W	330	24	24	0			C H
CHARLOTTE COURT HSE 3W	1585	03	CHARLOTTE	37 4	78 42 W	590	49	49	0			
CHARLOTTESVILLE 2 W	1593	03	ALBEMARLE	38 2	78 31 W	870	92	119	0			
CHASE CITY	1606	02	MECKLENBURG	36 50	78 28 W	510	48	48	0			C
CHATHAM	1614	03	PITTSYLVANIA	36 49	79 24 W	640	72	72	0			
CLARKSVILLE	1746	02	MECKLENBURG	36 37	78 34 W	310	0	104	0			H
CLINTWOOD 1 W	1825	06	DICKENSON	37 9	82 28 W	1780	2	2	0	JULY		H
COLONIAL BEACH	1913	01	WESTMORELAND	38 15	76 58 W	10	33	33	0			
CONCORD 4 SSW	1955	03	CAMPBELL	37 18	78 59 W	640	0	46	0			H
COPPER HILL 1 NNE	1999	06	FLOYD	37 6	80 8 W	2720	0	54	0			H
CORBIN	2009	02	CAROLINE	38 12	77 22 W	220	37	37	0			H
COVINGTON	2041	05	ALLEGHANY	37 48	80 0 W	1250	0	58	0			H
COVINGTON FILTER PLANT	2044	05	ALLEGHANY	37 48	80 0 W	1230	35	35	0			C
CRAIGSVILLE 2 S	2064	05	AUGUSTA	38 3	79 23 W	1780	0	33	0			H
CROZIER	2142	02	GOOCHLAND	37 38	77 48 W	300	20	57	0			H
CUMBERLAND	2160	02	CUMBERLAND	37 30	78 15 W	460	0	17	0			H
DALE ENTERPRISE	2208	05	ROCKINGHAM	38 27	78 56 W	1400	113	115	0			C H
DANVILLE	2245	03	PITTSYLVANIA	36 35	79 23 W	410	78	105	0			H
EARLE HURST	2600	05	ALLEGHANY	37 40	80 14 W	2040	0	20	0			H
EMPORIA 1 WNW	2790	01	GREENSVILLE	36 41	77 33 W	100	13	65	0			
FARMVILLE 2 N	2941	02	CUMBERLAND	37 20	78 23 W	450	74	76	0			H
FLOYD 2 NE	3071	06	FLOYD	36 56	80 18 W	2600	63	63	0			
FREDERICKSBURG NATL PK	3192	01	SPOTSYLVANIA	38 19	77 27 W	90	102	104	0			
FREE UNION	3213	03	ALBEMARLE	38 5	78 34 W	570	0	41	0			
GALAX RADIO WBRF	3267	06	CARROLL	36 40	80 55 W	2385	41	52	0			
GATHRIGHT DAM	3310	05	ALLEGHANY	37 57	79 57 W	1770	17	17	17			C H
GLASGOW 1 SE	3375	05	ROCKBRIDGE	37 37	79 26 W	740	0	29	0			H
GLEN LYN	3397	06	GILES	37 22	80 52 W	1520	48	82	0			
GORDONSVILLE 3 S	3466	02	LOUISA	38 5	78 11 W	460	0	35	0			H
GOSHEN	3470	05	ROCKBRIDGE	37 59	79 30 W	1350	0	56	0			
GRUNDY	3640	06	BUCHANAN	37 16	82 5 W	1170	35	45	0			H
HILLSVILLE	3991	06	CARROLL	36 44	80 43 W	2505	0	53	0			H
HOLLAND 1 E	4044	01	NANSEMOND	36 41	76 47 W	80	63	63	7			H
HOPEWELL	4101	01	PRINCE GEORG	37 18	77 18 W	40	103	108	0			
HOT SPRINGS	4128	05	BATH	38 0	79 50 W	2236	98	100	0			C H

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## STATION INDEX

VIRGINIA  
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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	
HUDDESTON 4 SW	4148	03	BEDFORD	37 7	79 31 W	1050	0	46	0			
JOHN W FLANNAGAN LAKE	4410	06	DICKENSON	37 14	82 21 W	1460	0	27	0			
JOHN H KERR DAM	4414	02	MECKLENBURG	36 36	78 17 W	2500	47	47	44			C H
KERRS CREEK 6 WNW	4565	05	ROCKBRIDGE	37 51	79 35 W	1500	0	34	0			
KEYSVILLE 2 S	4568	02	CHARLOTTE	37 1	78 28 W	5300	0	17	0	AUG		H
KILMARNOCK 1 N	4600	01	LANCASTER	37 43	76 23 W	60	17	17	0			H
LAFAYETTE 1 NE	4676	06	MONTGOMERY	37 14	80 13 W	1320	0	45	0			H
LANGLEY AIR FORCE BASE	4720	01	HAMPTON CITY	37 5	76 21 W	10	110	159	0			H
LAWRENCEVILLE 3 E	4768	02	BRUNSWICK	36 46	77 47 W	325	50	50	0			H
LEBANON	4777	06	RUSSELL	36 55	82 4 W	1710	7	7	0			H
LEXINGTON	4876	05	ROCKBRIDGE	37 47	79 26 W	1060	117	124	0			H
LINCOLN	4909	04	LOUDOUN	39 7	77 43 W	5000	94	95	0			H
LOUISA	5050	02	LOUISA	38 2	78 0 W	4200	80	80	0			H
LURAY 5 E	5096	04	PAGE	38 40	78 23 W	1200	54	54	0			H
LYNCHBURG WSO AIRPORT	5120	03	CAMPBELL	37 20	79 12 W	940	124	124	0			C H J
MARTINSVILLE FILTER PL	5300	03	HENRY	36 42	79 53 W	760	56	64	0			
MATHEWS 2 ENE	5338	01	MATHEWS	37 27	76 17 W	5	45	45	0			
MCDOWELL 3 W	5416	05	HIGHLAND	38 21	79 32 W	2400	0	16	0			H
MEADOWS OF DAN 5 SW	5453	03	PATRICK	36 40	80 27 W	1500	0	46	0			H
MILLGAP 2 NNW	5595	05	HIGHLAND	38 21	79 43 W	2520	0	20	0			C H
MONTABELLO 2 NE	5685	03	NELSON	37 53	79 8 W	2680	0	55	0			H
MONTICELLO	5700	03	ALBEMARLE	38 1	78 27 W	780	14	14	0			H
MOUNTAIN GROVE	5756	05	BATH	38 6	79 53 W	1772	0	200	0			
MOUNT LAKE BIOL STN	5828	06	GILES	37 23	80 32 W	3870	25	25	0			
MOUNT WEATHER	5851	04	LOUDOUN	39 4	77 53 W	1720	91	92	0			
NEWPORT 2 NNW	6046	06	GILES	37 19	80 31 W	2060	0	50	0			
NORFOLK WSO AIRPORT	6139	01		36 54	76 12 W	24	50	50	0			C H J
NORTH FORK LAKE	6173	06	WISE	37 8	82 38 W	1675	0	27	0			H
PAINT BANK 1 W	6470	05	CRAIG	37 33	80 17 W	2515	2	2	0	JULY		H
PAINTER 2 W	6475	01	ACCOMACK	37 35	75 49 W	30	40	40	0			C H
PALMYRA 1 E	6491	02	FLUVANNA	37 52	78 15 W	410	0	39	0			H
PEOLAR DAM	6593	03	AMHERST	37 40	79 17 W	1010	0	57	0			
PENNINGTON GAP	6626	06	LEE	36 45	83 3 W	1510	63	63	0			H
PHILPOTT DAM 2	6692	03	HENRY	36 47	80 2 W	1123	43	43	43			C H
PIEDMONT RESEARCH STN	6712	04	ORANGE	38 13	78 7 W	520	48	49	23			C H
POWHATAN	6906	02	POWHATAN	37 33	77 56 W	370	0	36	0			
PULASKI	6955	06	PULASKI	37 4	80 47 W	1850	35	35	0			C H
RICHLANDS	7174	06	TAZEWELL	37 6	81 50 W	1910	7	7	0			H
RICHMOND WSO AIRPORT	7201	02	HENRICO	37 31	77 20 W	164	58	58	0			C H J
ROANOKE WSO AIRPORT #	7285	05	ROANOKE	37 19	79 58 W	1149	61	63	0			C H J
ROCKY MOUNT	7338	03	FRANKLIN	37 0	79 54 W	1232	102	102	0			C H
SALTVILLE 1 N	7506	06	SMYTH	36 53	81 46 W	1733	62	64	0			H
SOUTH BOSTON	7925	03	HALIFAX	36 42	78 53 W	340	40	40	0			H
STAFFORDSVILLE 3 ENE	8022	06	GILES	37 16	80 43 W	1950	26	44	0			C H
STAUNTON SEWAGE PLANT	8062	05	AUGUSTA	38 9	79 2 W	1390	103	109	0			C H
STERLING RCS	8084	04	LOUDOUN	38 59	77 28 W	280	19	19	0			H
STONY CREEK 3 ESE	8129	01	SUSSEX	36 55	77 21 W	70	37	37	0			H
STUART	8170	03	PATRICK	36 38	80 16 W	1375	36	36	0			
SUFFOLK LAKE KILBY	8192	01	NANSEMOND	36 44	76 36 W	22	49	49	0			H
TANGIER ISLAND	8323	01	ACCOMACK	37 50	76 0 W	10	43	43	0			H
THE PLAINS 2 NNE	8396	04	FAUQUIER	38 54	77 45 W	530	0	50	0			C H
TROUT DALE 3 SSE	8547	06	GRAYSON	36 40	81 24 W	2820	0	60	0			
TYE RIVER 1 SE	8600	03	NELSON	37 38	78 56 W	720	33	57	0			
VIENNA DUNN LORING	8737	04	FAIRFAX	38 54	77 13 W	418	0	47	0			H

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VIRGINIA  
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							TEMP.	PRECIP.	EVAP.	MONTH OPENED	MONTH CLOSED	
WAKEFIELD 2	88000	01	SUSSEX	36 59	77 0W	90	21	21	0			C
WALKERTON 2 NW	88299	01	KING AND QUE	37 45	77 3W	500	62	63	00			H
WALLACETON LK DRUMMOND	88377	01	CHESAPEAKE C	36 36	76 26W	300	0	69	00			
WARRENTON 3 SE	88888	04	FAUQUIER	38 41	77 46W	5000	45	45	00			H
WARSAW 2 NW	88944	01	RICHMOND	37 59	76 46W	1400	45	45	00			H
WASHINGTON 3 SSW	89002	04	RAPPAHANNOCK	38 40	78 11W	6400	29	38	00	NOV		H
WASHINGTON HSO DULLES	89003	04	LOUDOUN	38 57	77 27W	2900	34	34	00			H
WASHINGTON NATL HSCMO	89006	04	ARLINGTON	38 51	77 2W	100	55	55	00			C
WEST POINT 2 SW	90255	01	NEW KENT	37 31	76 50W	20	42	42	0			H
WILLIAMSBURG 2 N	91511	01	YORK	37 18	76 42W	70	45	50	0			C
WILLIS	91699	06	FLOYD	36 51	80 29W	2900	0	17	0			C
WINCHESTER WINC	91811	04	FREDERICK	39 11	78 9W	7200	14	14	00			H
WINCHESTER 7 SE	91866	04	FREDERICK	39 11	78 7W	6800	90	89	00			H
WINTERPOCK 4 W	92133	02	CHESTERFIELD	37 20	77 39W	3000	0	17	00			H
WISE 2 E	92155	06	WISE	37 0	82 32W	2549	41	41	00			C
WOODSTOCK 2 NE	92633	04	SHENANDOAH	38 54	78 28W	1660	97	103	00			C
WOOLWINE 4 S	92722	03	PATRICK	36 41	80 16W	1920	0	45	00			C
WYTHEVILLE 1 S	93011	06	WYTHE	36 56	81 5W	2450	92	122	0			C

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# REFERENCE NOTES

VIRGINIA  
1993

## 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 (i.e. not precipitation alone).

**NORMALS:** The average value of the meteorological element over a time period. Effective 1 January 1993, the averaging period is 1961 to 1990. 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 whole degree that the daily mean temperature is below (above) 65 degrees Fahrenheit.

**SOIL TEMPERATURE EXTREMES:** The highest and lowest Max and Min temperature for each month and the year.

**WIND:** (As shown in the "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 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 (e.g., 214.6 = M-14.6, 208.2 = M108.2)

## SYMBOLS AND LETTERS USED IN THE STATION INDEX TABLE

- # Thermometers located in 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 the Ground" table in monthly "Climatological Data" publication.
- 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 of 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.

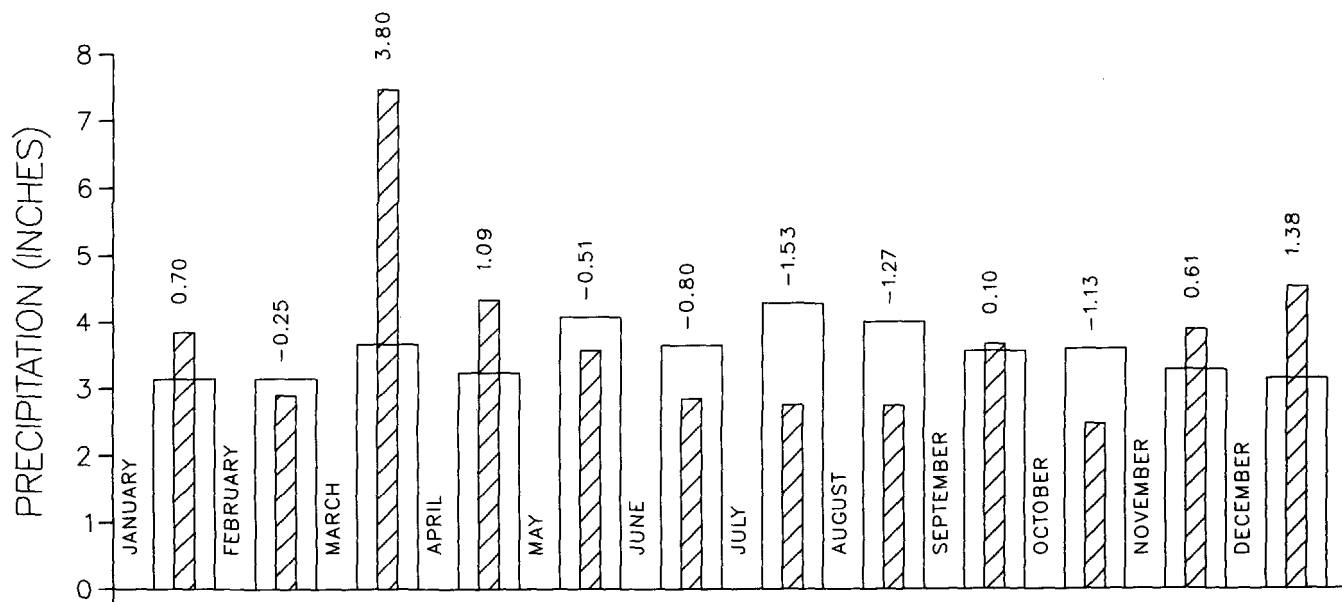
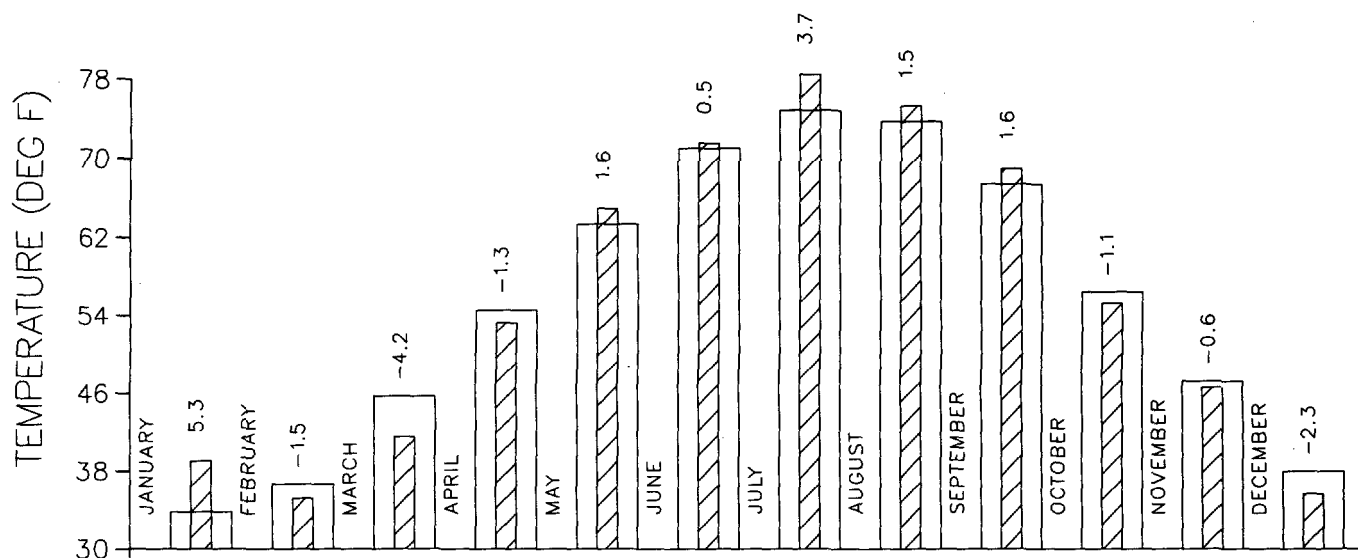
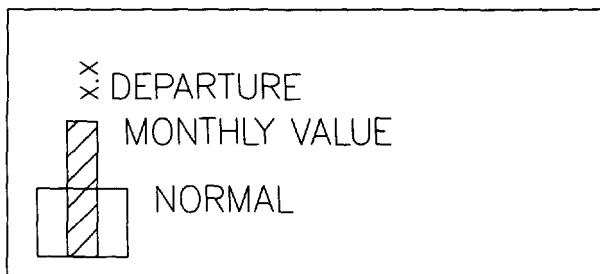
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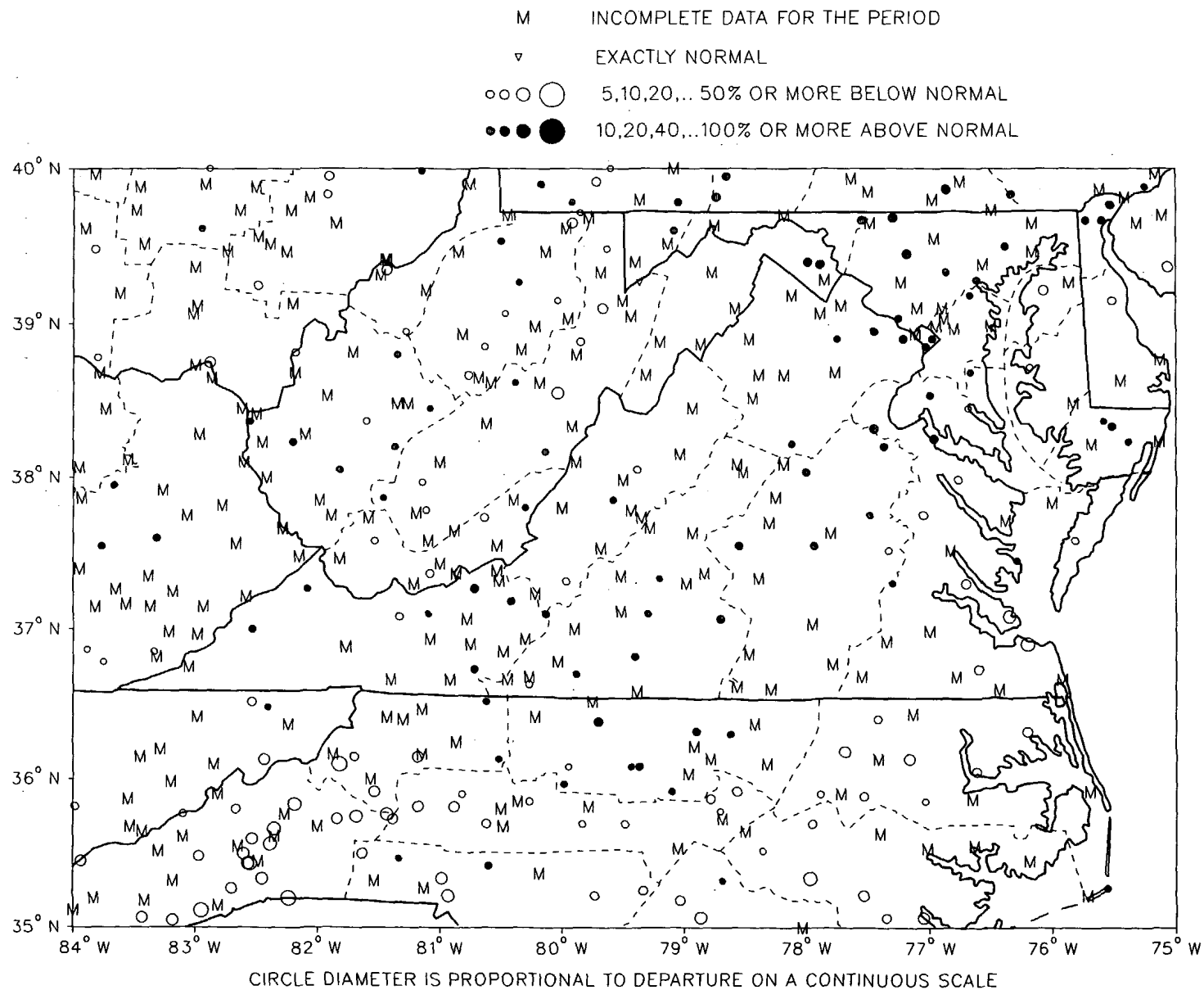
# TEMPERATURE AND PRECIPITATION AREALLY WEIGHTED STATE AVERAGES AND DEPARTURES FROM NORMAL (1961-1990) FOR 1993

VIRGINIA



MONTHS

# CUMULATIVE ANNUAL PRECIPITATION DEPARTURE FROM INDIVIDUAL STATION NORMALS (1961-1990) FOR 1993 VIRGINIA



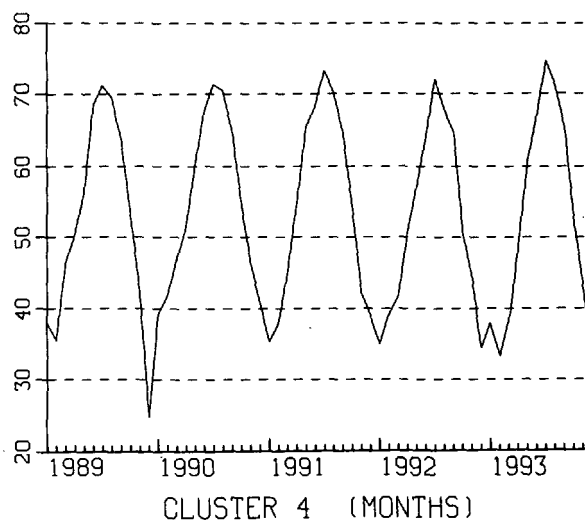
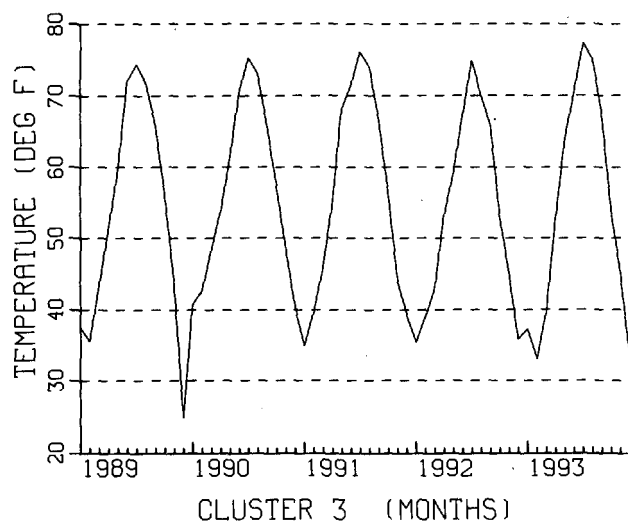
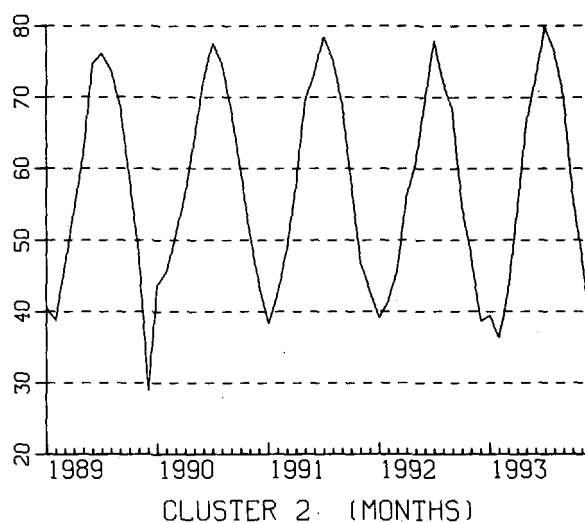
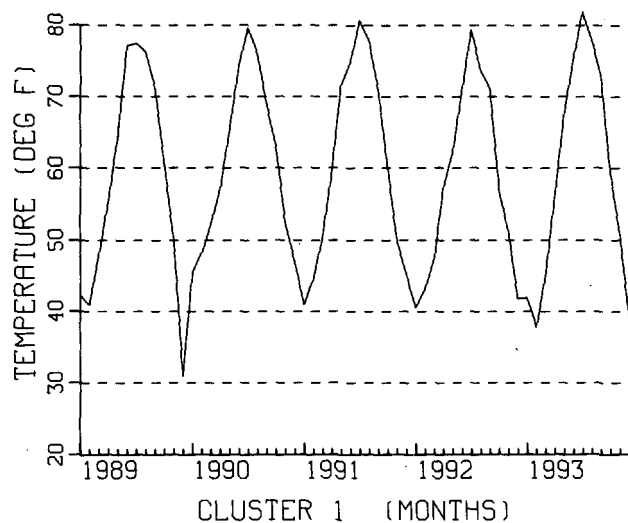
# MONTHLY TEMPERATURE FOR THE LAST 60 MONTHS ENDING DECEMBER 1993 VIRGINIA

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



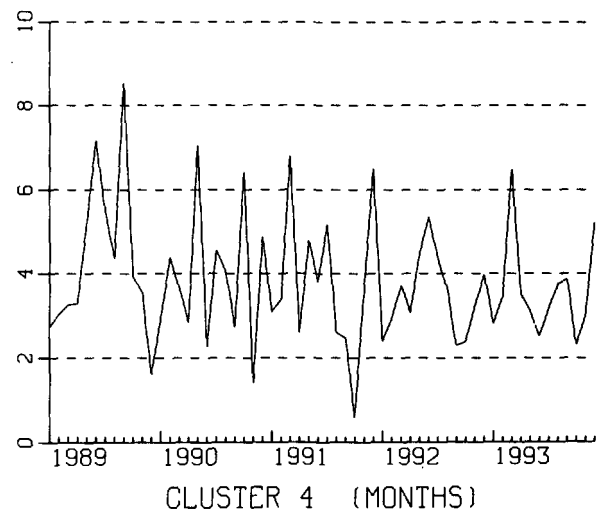
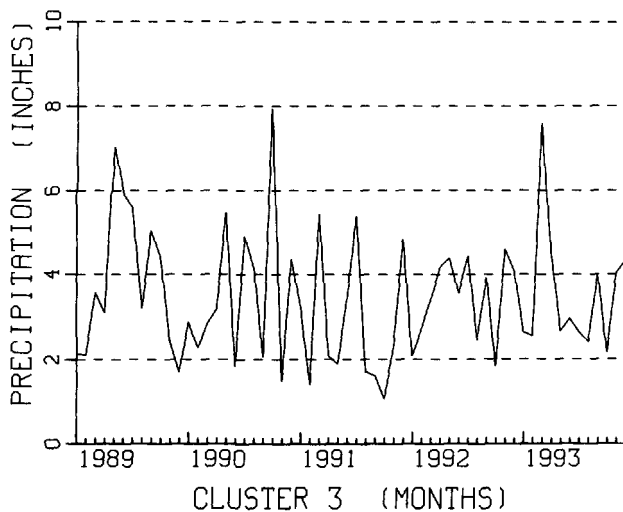
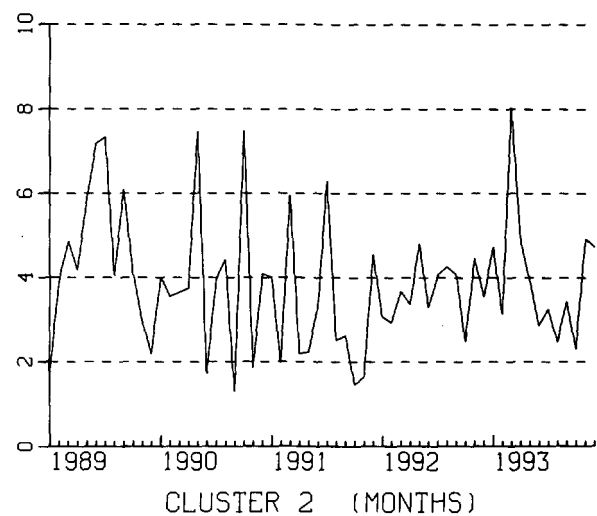
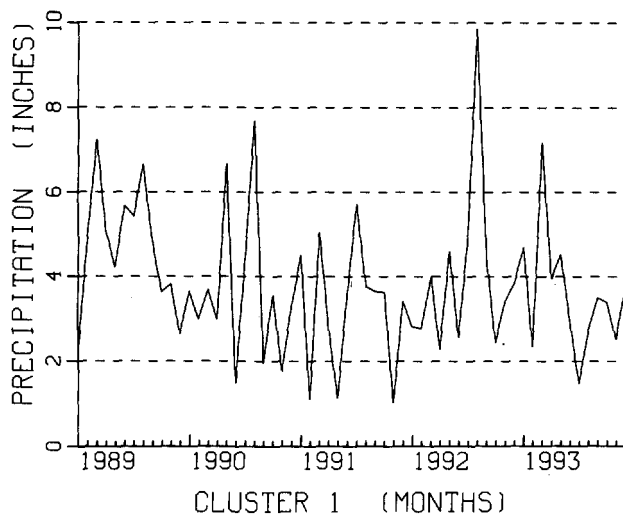
MONTHLY PRECIPITATION FOR  
THE LAST 60 MONTHS  
ENDING DECEMBER 1993  
VIRGINIA

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



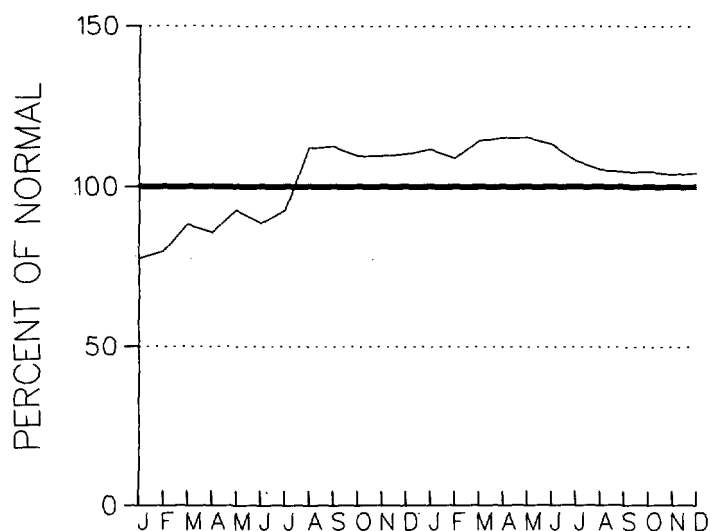
# CUMULATIVE PRECIPITATION DEPARTURES FROM NORMAL (1961-1990) FOR THE LAST 24 MONTHS ENDING DECEMBER 1993 VIRGINIA

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TIDEWATER 01

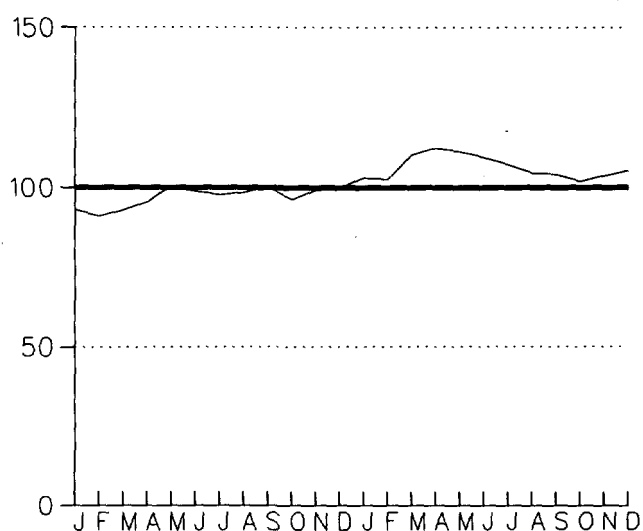
CLUSTER 2 -DIVISION(S):  
EASTERN PIEDMONT 02  
WESTERN PIEDMONT 03

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

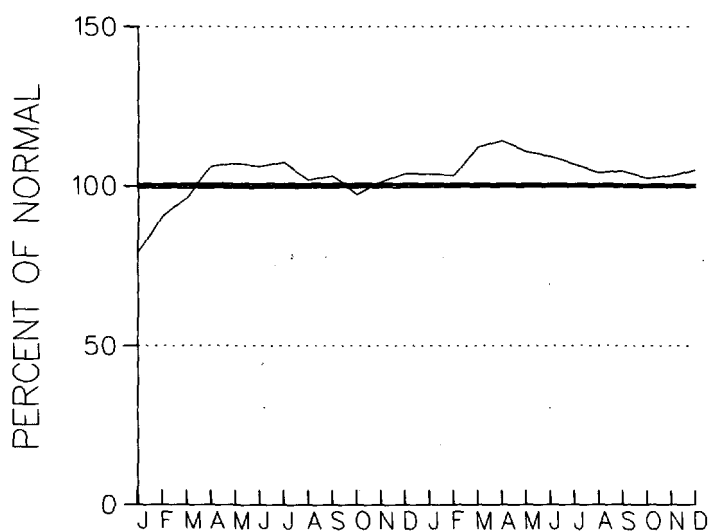
CLUSTER 4 -DIVISION(S):  
SOUTHWESTERN MOUNTAIN 06



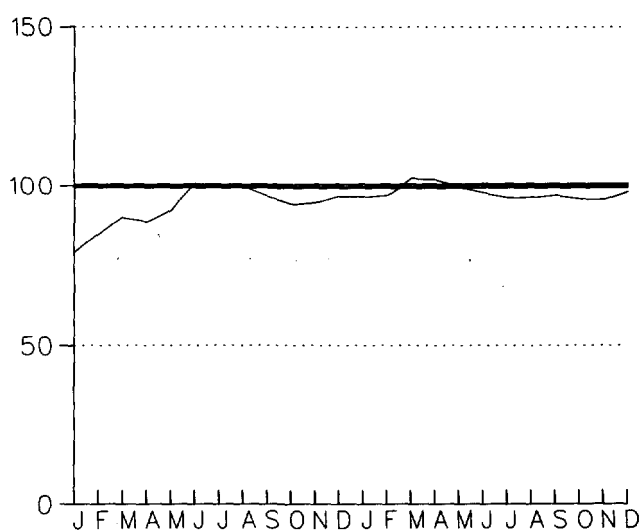
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4

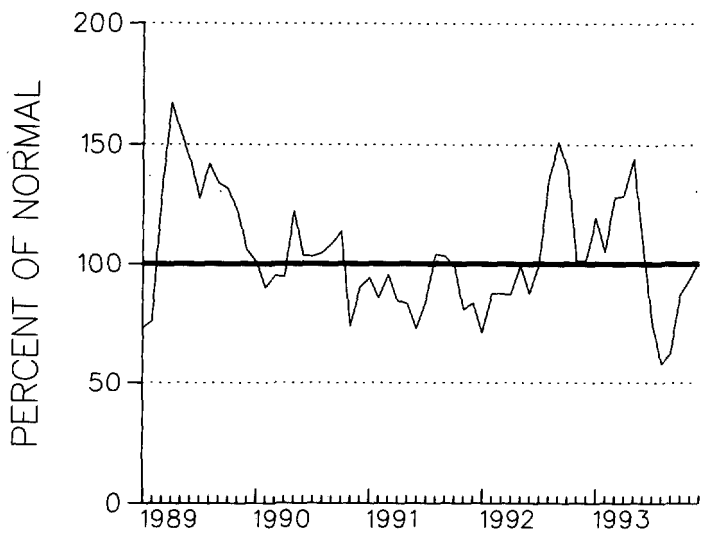
PRECIPITATION DEPARTURES FROM NORMAL (1961–1990)  
THREE MONTH RUNNING MEAN  
FOR THE 60 MONTHS ENDING WITH DECEMBER 1993 DATA  
VIRGINIA

CLUSTER 1 –DIVISION(S):  
TIDEWATER 01

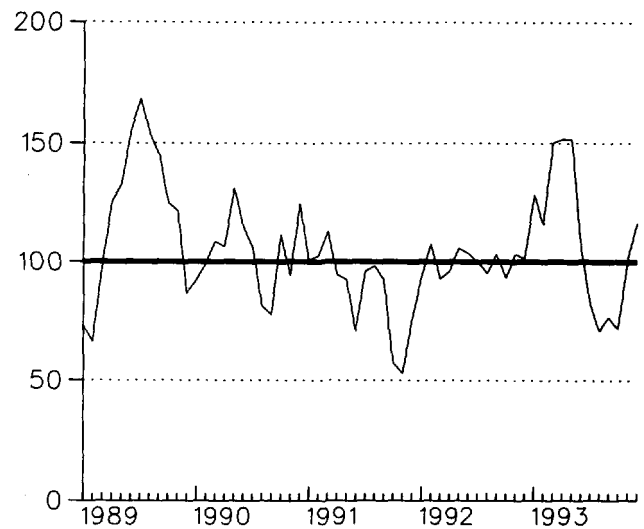
CLUSTER 2 –DIVISION(S):  
EASTERN PIEDMONT 02  
WESTERN PIEDMONT 03

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

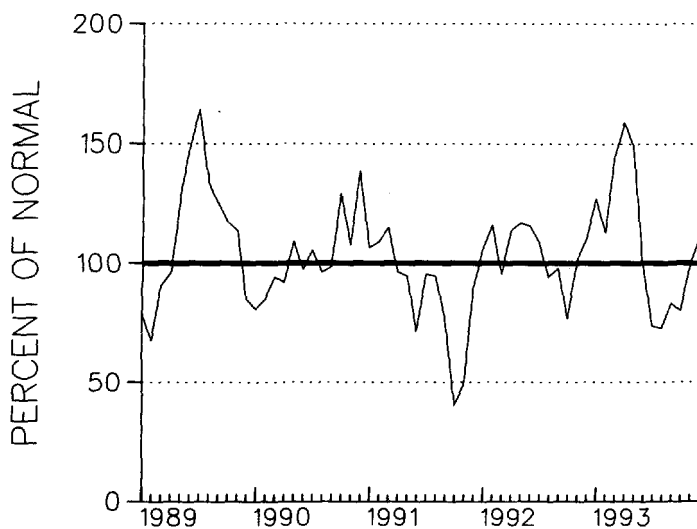
CLUSTER 4 –DIVISION(S):  
SOUTHWESTERN MOUNTAIN 06



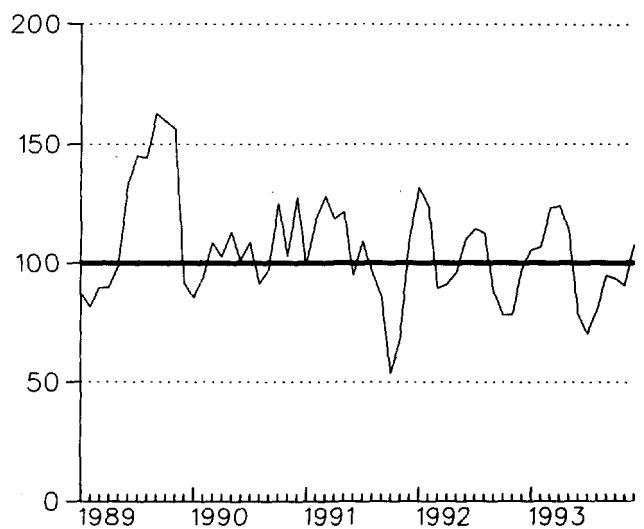
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4



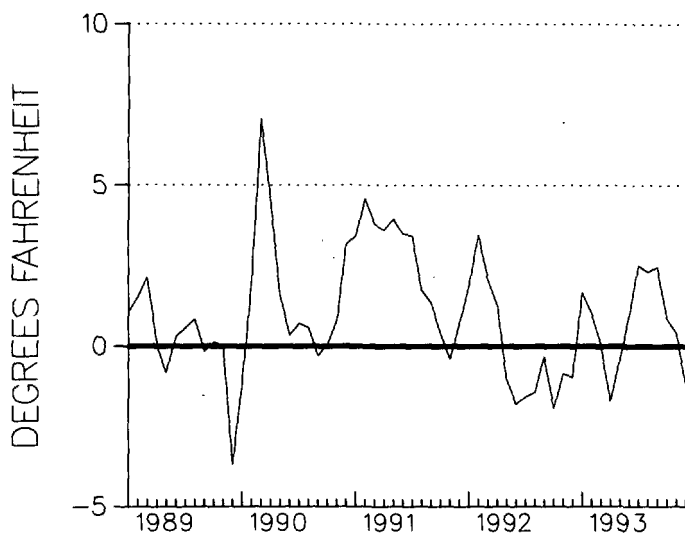
TEMPERATURE DEPARTURES FROM NORMAL (1961-1990)  
THREE MONTH RUNNING MEAN  
FOR THE 60 MONTHS ENDING WITH DECEMBER 1993 DATA  
VIRGINIA

CLUSTER 1 -DIVISION(S):  
TIDEWATER 01

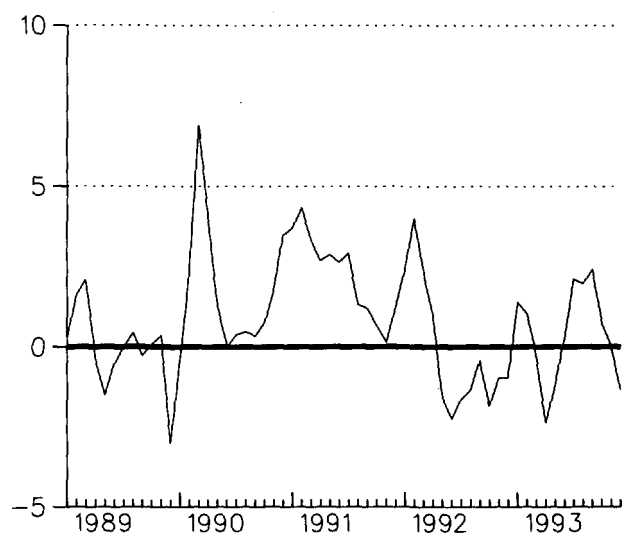
CLUSTER 2 -DIVISION(S):  
EASTERN PIEDMONT 02  
WESTERN PIEDMONT 03

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

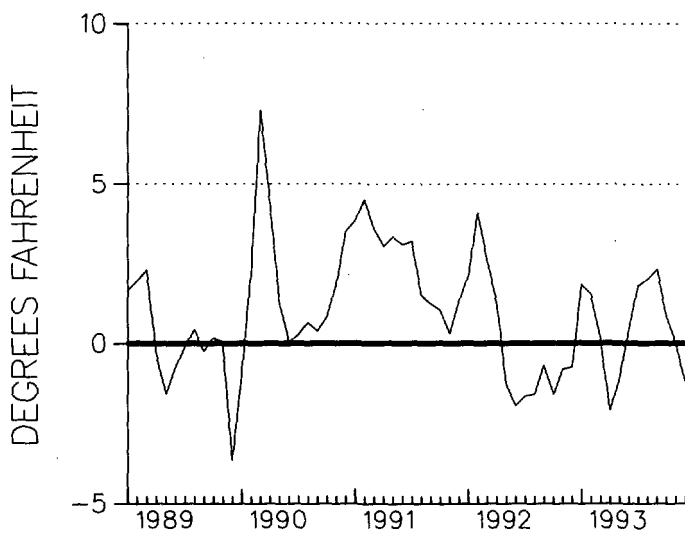
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SOUTHWESTERN MOUNTAIN 06



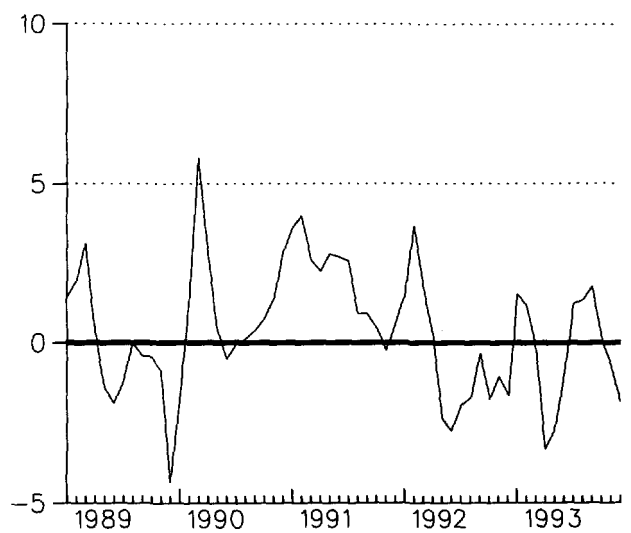
CLUSTER 1



CLUSTER 2



CLUSTER 3



CLUSTER 4



MONTHLY PRECIPITATION TOTALS													ANNUAL 1987 NORTH CAROLINA
STATION	ANNUAL	MONTH											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NORTH CAROLINA													
ASHEVILLE WSD AP	34.57	1.11	1.85	2.75	0.57	3.55					4.19	5.28	4.28
ASHEVILLE	25.67	0.71	1.57	1.81	0.53	2.55					2.77	4.15	2.94
ASHFORD	36.74E	1.20	2.70	2.90	0.54E						3.80	4.90	4.80
BADIN	-	1.70	1.30	2.60	1.20						2.40	4.10	2.90
B EVERETT JORDAN DAM	-	1.50	3.60									1.70	
BOOMER 5 NW	-	1.00	2.10										
BURLINGTON 3 WNE	-	0.60	1.92E										
CAPE HATTERAS WSO	48.86	5.75	1.30										
CARTHAGE 8 SE	-	1.70											
CATHOCNEC	-	0.50											
CHARLOTTE WSD AP	26.91												
CLINTON 2 NE	38												
DALTON	-												
DOBSON	-												
EDEN	-												
ELIZABETH	-												
FAVE	-												
FRANKS	-												
GREENS	-												
GREENWIL	-												
HELDON	-												
HODGCKEN	-												
LAKE LURE	-												
LAURINBURG	-												
LEXINGTON	-												
MOOREVILLE 2	-												
MOREHEAD CITY	-												
MOUNT PLEASANT	-												
N WILKESBORO 12	-												
POLKTON 2 NE	-												
ROBECK	-												
RALPHIGH-DURHAM WSO	-												
ROANOKE RAPIDS	-												
ROARING GAP 1 NW	-												
SHELBY 2	-												
SHEPARD FERRY 2 ENE	-												
SWANANOA 2 SSE	-												
WILKINGTON WSD AP	-												
WILSON 3 SW	-												
YADKINVILLE 4 E	28												

## HOURLY PRECIPITATION DATA NORTH CAROLINA

DECEMBER 1987  
WITH ANNUAL SUPPLEMENT  
VOLUME 37 NUMBER 12

31 - NORTH CAROLINA

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## 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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