

2000

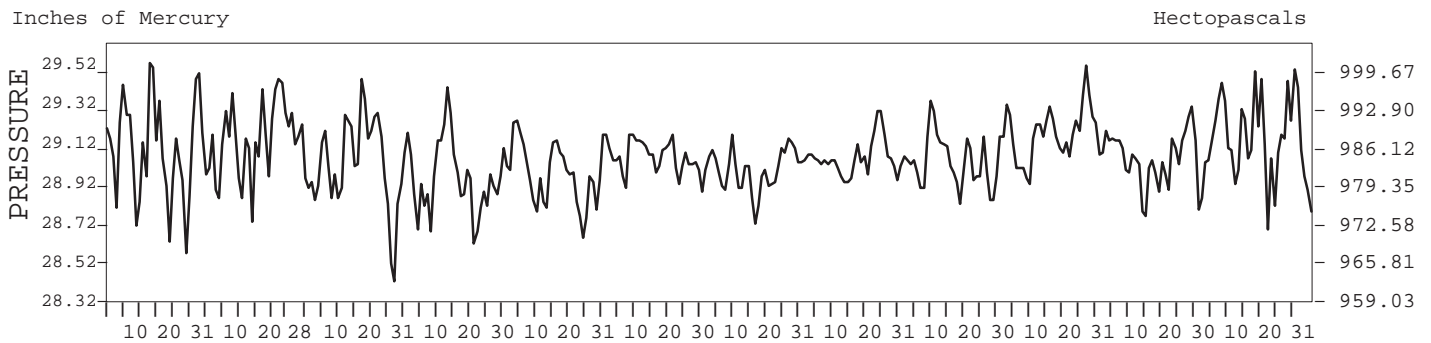
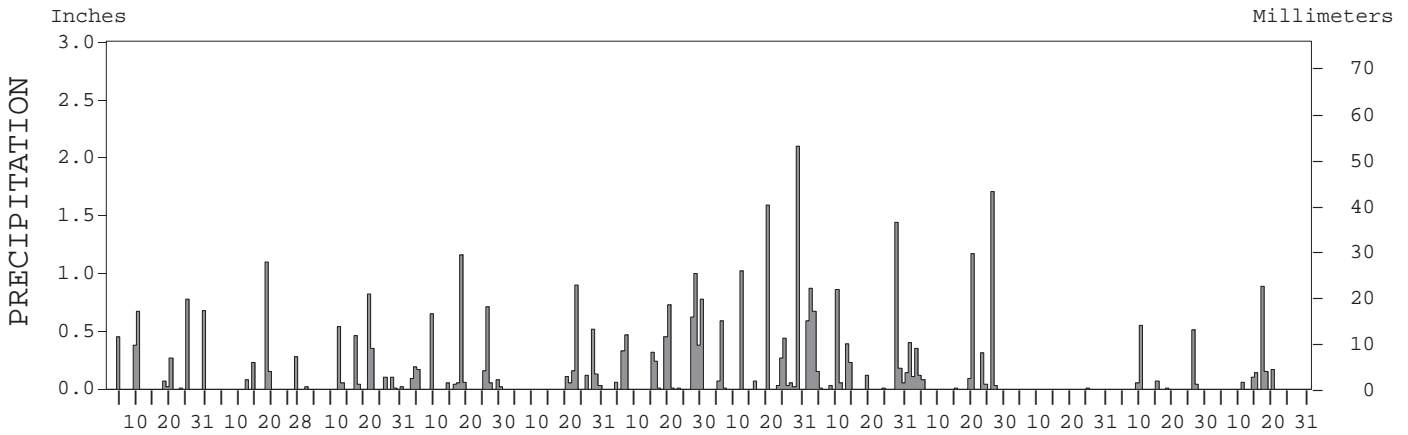
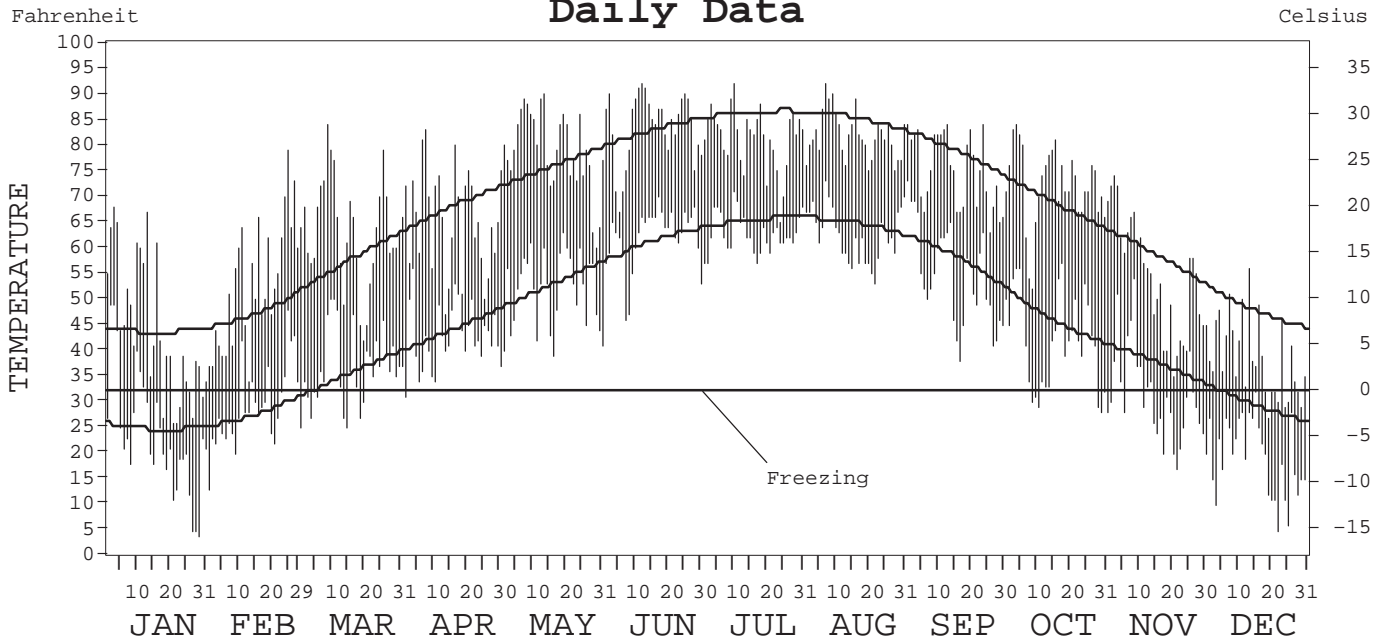
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5320

LYNCHBURG, VIRGINIA (LYH)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2000

LYNCHBURG, VA (LYH)

LATITUDE: 37° 20' 15" N LONGITUDE: 79° 12' 24" W ELEVATION (FT): GRND: 969 BARO: 969 TIME ZONE: EASTERN (UTC + 5) WBAN: 13733

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	44.0	53.3	63.0	65.4	78.9	83.4	81.4	81.9	75.1	72.1	54.5	38.5	66.0	
	HIGHEST DAILY MAXIMUM	68	79	84	83	90	92	92	92	84	84	74	56	92	
	DATE OF OCCURRENCE	03	25	08	07	13	12	10	07	24+	04	03	14	AUG 07	
	MEAN DAILY MINIMUM	23.4	29.2	36.8	42.6	51.7	62.1	62.8	62.5	54.5	42.1	31.4	19.2	43.2	
	LOWEST DAILY MINIMUM	4	13	25	31	39	46	57	53	38	28	17	5	4	
	DATE OF OCCURRENCE	29	01	14	01	16	07	17+	22	17	30	22	23	JAN 29	
	AVERAGE DRY BULB	33.7	41.3	49.9	54.0	65.3	72.8	72.1	72.2	64.8	57.1	43.0	28.9	54.6	
	MEAN WET BULB	30.4		44.4	49.3	59.5	67.2	67.4		60.9	50.9	38.8	26.1		
	MEAN DEW POINT	21.7		36.9	43.6	54.2	64.2	65.0		58.4	45.2	32.3	18.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	1	5	1	2	0	0	0	0	0	9
	MAXIMUM ≤ 32°	7	0	0	0	0	0	0	0	0	0	0	9	16	
MINIMUM ≤ 32°	25	21	8	1	0	0	0	0	0	6	19	31	111		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	960	683	460	322	75	6	2	0	101	253	654	1113	4629	
	COOLING DEGREE DAYS	0	0	1	2	92	245	229	231	105	15	0	0	920	
RH	MEAN (PERCENT)	64	68	63	71	68	77	81	83	83	71	69	66	72	
	HOUR 01 LST	70	74	76	80	80	90	95	94	95	89	79	72	83	
	HOUR 07 LST	77	85	77	83	80	87	89	93	94	92	86	74	85	
	HOUR 13 LST	52	54	50	58	50	58	65	66	63	42	49	54	55	
	HOUR 19 LST	61	63	62	67	63	76	81	85	89	76	68	62	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	7	4	0	7	1	4	5	3	5	2	3	4	45	
	THUNDERSTORMS	0	0	3	1	6	6	6	5	2	0	0	0	29	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.09	29.14	29.01	28.94	28.97	29.04	28.99	29.04	29.05	29.15	29.02	29.14	29.05	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.19	30.04	29.97	29.98		29.99			30.18	30.06	30.20		
WINDS	RESULTANT SPEED (MPH)	2.9	2.2	1.4	2.2	2.9	2.5	0.6	0.6	0.4	1.0	2.4	2.1	1.7	
	RES. DIR. (TENS OF DEGS.)	23	21	23	21	21	21	17	24	22	27	25	25	23	
	MEAN SPEED (MPH)	6.1	5.5	5.9	6.6	5.4	4.6	3.8	4.1	3.8	3.3	4.5	4.7	4.9	
	PREVAIL. DIR. (TENS OF DEGS.)	19	19	04	19	20	19	19	19	20	20	26	26	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	29	23	30	24	23	25	21	25	17	16	24	25	30	
	DIR. (TENS OF DEGS.)	28	08	18	27	18	26	32	30	04	05	29	28	18	
	DATE OF OCCURRENCE	20+	27	11	08+	01	26	28	09	05	22+	21+	17	MAR 11	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	45	31	40	38	31	36	26	40	26	26	35	36	45	
DIR. (TENS OF DEGS.)	24	26	18	20	21	24	32	30	05	27	29	26	24		
DATE OF OCCURRENCE	11	19	11	08	10	26	28	09	05	29	21	17+	JAN 11		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.33	1.84	2.51	3.48	2.02	5.41	6.88	5.60	4.02	0.01	1.23	1.51	37.84	
	GREATEST 24-HOUR (IN.)	1.01	1.10	1.17	1.18	0.90	1.37	2.10	1.62	1.74	0.01	0.55	0.93	2.10	
	DATE OF OCCURRENCE	09-10	18	20-21	17-18	22	27-28	28	27-28	25-26	24	09	16-17	JUL 28	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	9	5	11	14	8	14	14	16	11	1	6	6	115	
PRECIPITATION ≥ 0.10	6	4	6	6	6	10	7	11	6	0	2	5	69		
PRECIPITATION ≥ 1.00	0	1	0	1	0	1	3	1	2	0	0	0	9		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

HEATING DEGREE DAYS (base 65°F) 2000 LYNCHBURG, VA (LYH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1971-72	0	0	13	110	613	546	796	826	571	282	73	36	3866
1972-73	2	0	20	310	593	671	893	809	435	339	158	0	4230
1973-74	0	0	9	192	448	851	641	736	495	265	105	16	3758
1974-75	0	0	74	304	537	799	808	701	696	362	45	11	4337
1975-76	0	0	60	185	432	853	994	550	443	273	132	23	3945
1976-77	0	2	34	370	719	947	1294	783	417	217	58	26	4867
1977-78	0	0	12	325	464	887	1103	972	637	237	125	6	4768
1978-79	0	0	25	289	439	777	1018	1033	489	265	83	11	4429
1979-80	0	6	27	320	444	746	892	901	652	255	65	19	4327
1980-81	0	0	28	312	589	807	1039	670	666	197	131	2	4441
1981-82	0	0	55	353	535	954	1144	731	597	331	29	1	4730
1982-83	0	1	33	229	446	637	893	758	554	380	127	9	4067
1983-84	0	0	73	243	502	927	991	622	656	348	111	5	4478
1984-85	0	0	91	59	580	539	1006	716	482	170	49	11	3703
1985-86	1	0	53	167	307	901	904	723	529	208	95	2	3890
1986-87	0	18	26	225	520	805	957	782	564	341	55	0	4293
1987-88	0	0	11	389	450	729	1030	782	538	282	83	37	4331
1988-89	0	0	39	417	517	828	732	737	556	317	155	0	4298
1989-90	0	2	58	221	525	1100	645	536	455	301	87	8	3938
1990-91	0	0	54	206	408	659	804	631	469	231	37	4	3503
1991-92	0	0	41	195	546	697	780	678	562	294	144	5	3942
1992-93	0	0	48	266	504	773	766	796	653	270	29	3	4108
1993-94	0	0	33	263	510	840	1028	700	546	169	156	7	4252
1994-95	0	1	22	262	401	631	808	775	446	249	82	0	3677
1995-96	0	0	49	212	657	894	958	792	716	287	128	4	4697
1996-97	0	0	64	265	734	778	926	663	546	414	229	65	4684
1997-98	2	3	45	326	668	860	765	673	635	296	69	25	4367
1998-99	0	0	25	257	538	720	819	692	691	285	90	17	4134
1999-00	6	1	54	328	409	771	960	683	460	322	75	6	4075
2000-	2	0	101	253	654	1113							

WBAN : 13733

COOLING DEGREE DAYS (base 65°F) 2000 LYNCHBURG, VA (LYH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1971	0	0	0	3	36	263	304	242	170	44	16	5	1083
1972	0	0	0	25	20	126	324	290	159	2	3	0	949
1973	0	0	3	16	34	260	308	330	188	24	0	0	1163
1974	0	0	3	30	75	113	298	296	103	7	10	0	935
1975	0	0	0	6	108	209	282	365	103	14	4	0	1091
1976	0	0	3	57	37	190	289	259	80	13	0	0	928
1977	0	0	5	38	129	184	424	349	167	9	8	0	1313
1978	0	0	0	9	88	237	305	389	212	5	0	0	1245
1979	0	0	11	12	54	143	298	322	121	21	0	0	982
1980	0	0	0	15	99	159	403	432	262	18	0	0	1388
1981	0	0	0	35	59	331	361	265	101	11	0	0	1163
1982	0	0	0	3	113	183	339	272	153	49	3	4	1119
1983	0	0	0	10	45	227	394	422	193	17	0	0	1308
1984	0	0	0	17	65	296	265	314	115	81	0	1	1154
1985	0	1	13	65	83	215	316	268	163	29	2	0	1155
1986	0	0	3	23	82	295	434	254	149	52	0	0	1292
1987	0	0	0	12	122	297	454	395	166	0	0	0	1446
1988	0	0	1	7	65	234	420	421	94	3	0	0	1245
1989	0	0	13	22	70	276	339	281	150	26	0	0	1177
1990	0	0	25	35	62	193	335	266	127	31	0	0	1074
1991	0	0	2	22	182	267	424	330	194	30	1	0	1452
1992	0	0	0	18	50	181	415	252	171	8	0	0	1095
1993	0	0	0	9	118	277	489	403	213	17	9	0	1535
1994	0	0	0	55	39	285	365	255	81	6	2	0	1088
1995	0	0	0	22	91	223	400	406	115	30	0	0	1287
1996	0	0	0	18	127	273	316	229	88	6	0	0	1057
1997	0	0	0	0	21	164	318	230	80	22	0	0	835
1998	0	0	16	8	97	241	309	286	224	6	0	2	1189
1999	0	0	0	18	28	169	398	318	84	5	0	0	1020
2000	0	0	1	2	92	245	229	231	105	15	0	0	920

SNOWFALL (inches) 2000 LYNCHBURG, VA (LYH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1971-72	0.0	0.0	0.0	0.0	5.9	T	T	15.2	T	T	0.0	0.0	21.1
1972-73	0.0	0.0	0.0	0.0	0.5	0.0	2.3	1.7	5.3	0.2	0.0	0.0	10.0
1973-74	0.0	0.0	0.0	0.0	0.0	6.6	0.0	5.9	T	0.0	0.0	0.0	12.5
1974-75	0.0	0.0	0.0	0.0	0.6	0.6	6.5	4.4	3.8	0.0	0.0	0.0	15.9
1975-76	0.0	0.0	0.0	0.0	0.0	0.1	T	1.2	0.6	0.0	0.0	0.0	1.9
1976-77	0.0	0.0	0.0	0.0	T	2.8	10.0	0.3	0.0	0.0	0.0	0.0	13.1
1977-78	0.0	0.0	0.0	0.0	0.7	0.3	10.8	5.9	8.1	0.0	0.0	0.0	25.8
1978-79	0.0	0.0	0.0	0.0	T	T	4.0	19.2	0.0	0.0	0.0	0.0	23.2
1979-80	0.0	0.0	0.0	2.4	0.0	T	14.2	7.5	8.9	0.0	0.0	0.0	33.0
1980-81	0.0	0.0	0.0	0.0	0.0	T	3.8	0.0	3.6	0.0	0.0	0.0	7.4
1981-82	0.0	0.0	0.0	0.0	3.7	5.9	7.6	15.1	0.2	2.5	0.0	0.0	35.0
1982-83	0.0	0.0	0.0	0.0	0.0	6.8	0.5	18.6	T	T	0.0	0.0	25.9
1983-84	0.0	0.0	0.0	0.0	0.0	T	3.8	0.1	0.4	T	0.0	0.0	4.3
1984-85	0.0	0.0	0.0	0.0	0.0	T	0.0	6.4	T	0.5	0.0	0.0	6.9
1985-86	0.0	0.0	0.0	0.0	0.0	1.2	2.5	8.2	T	0.0	0.0	0.0	11.9
1986-87	0.0	0.0	0.0	0.0	T	T	28.3	13.5	3.1	0.2	0.0	0.0	45.1
1987-88	0.0	0.0	0.0	0.0	1.2	0.0	8.3	0.0	0.0	T	0.0	0.0	9.5
1988-89	0.0	0.0	0.0	0.0	0.0	3.5	0.3	10.1	1.0	T	0.0	0.0	14.9
1989-90	0.0	0.0	0.0	0.0	1.0	11.2	T	0.2	5.5	0.0	0.0	0.0	17.9
1990-91	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.4	1.7	0.0	0.0	0.0	4.1
1991-92	0.0	0.0	0.0	0.0	T	T	T	0.8	0.9	1.4	0.0	0.0	3.1
1992-93	0.0	0.0	0.0	0.0	T	T	T	5.4	13.0	T	0.0	0.0	18.4
1993-94	0.0	0.0	0.0	T	0.0	5.4	3.1	2.0	1.3	0.0	0.0	0.0	11.8
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.6	1.0	0.0	0.0	0.0	7.0
1995-96	0.0	0.0	0.0	0.0	T	6.5	25.3	19.5	5.5	T	T	0.0	56.8
1996-97	0.0												
1997-98													
1998-99													
1999-00													
2000-													
POR= 51 YRS	0.0	0.0	0.0	0.0	0.7	2.9	5.6	5.3	3.4	0.2	T	0.0	18.1

WBAN : 13733

REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2000
LYNCHBURG,
VIRGINIA (LYH)

Lynchburg is situated in the valley of the James River, and on the eastern edge of the Blue Ridge Mountains. The terrain is definitely hilly, with sheltered valleys which are visited by early autumn and late spring frosts. The climate is usually a pleasant one, being neither too hot in the summer, nor too cold in the winter. Rainfall is fairly evenly distributed throughout the year, but there is a distinct summertime rainfall, occasioned by afternoon thunderstorms.

Spring makes itself felt in March, when the mean monthly temperature increases about 7 degrees over the February temperature. Autumn rapidly comes in October, which shows about a 10 degree drop below the September mean. The approaching autumn season brings periods of two to three days of cloudy, cool weather, with high humidity and light rain or drizzle. In midwinter, however, after the passage of a cold front, dry invigorating air, with clear skies, is the rule in Lynchburg. There are occasional snow showers, but the mountains to the immediate west act as a barrier and shelter the area from many storms and high winds.

The mountains also act as a barrier to extremely cold weather. Temperatures have fallen below zero only on a few days, and 100 degree heat is almost as rare, although this mark has been exceeded in the months of May through September.

Great variation in temperature is quite frequently noted during clear, still nights in the winter months. On some such nights, differences of as much as 10-15 degrees occur between the low valleys and the higher terrain.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 23 and the average last occurrence in the spring is April 13.

STATION LOCATION

LYNCHBURG, VIRGINIA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT * REMARKS
						GROUND										
						SEA LEVEL GROUND SITE	WIND INSTRUMENT	EX-TREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TRAINING GAUGE BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER		
<p>*NOTE:</p> <p>AIRPORT</p> <p>Tower Building Municipal Airport</p>	1/26/63	08/01/96	600 ft. W	37°20'	79°12'	964 f916 i921	20 g32 h32	5	5	1006	3	5	3	e4 h4 j4	<p>e. Commissioned 1425' SSW of thermometer site 6/30/63. f. Effective 6/30/63. g. Raised 6/3/77. h. Relocated 10/22/80. i. Effective 10/22/80. j. Type change 6/19/85.</p>	
Municipal Airport	08/01/96	Present	NA	37°20'	79°12'	969								S	ASOS Commissioned 08/01/96	

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Price and ordering information available through : National ClimaticDataCenter, Federal building, Asheville, North Carolina 28801.

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* NOTES: For earlier station history see previous editions.