

2004

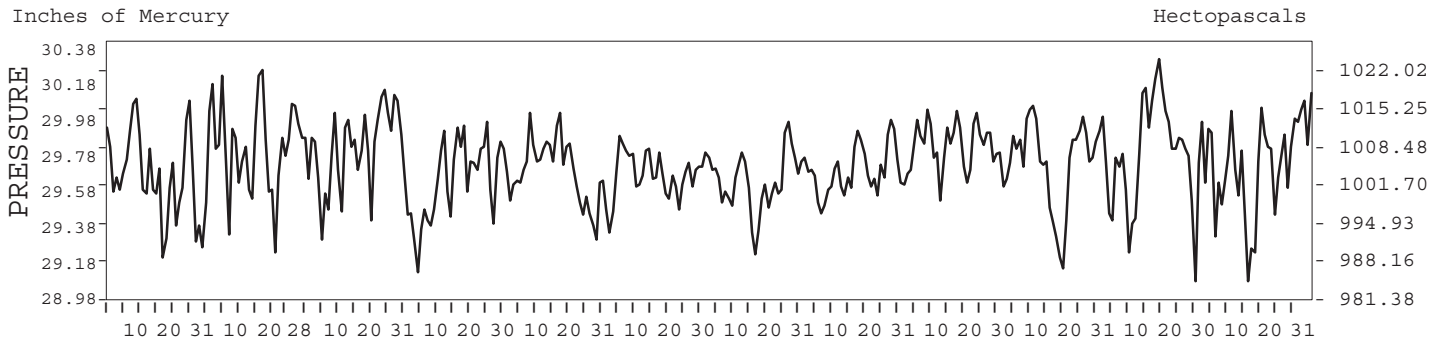
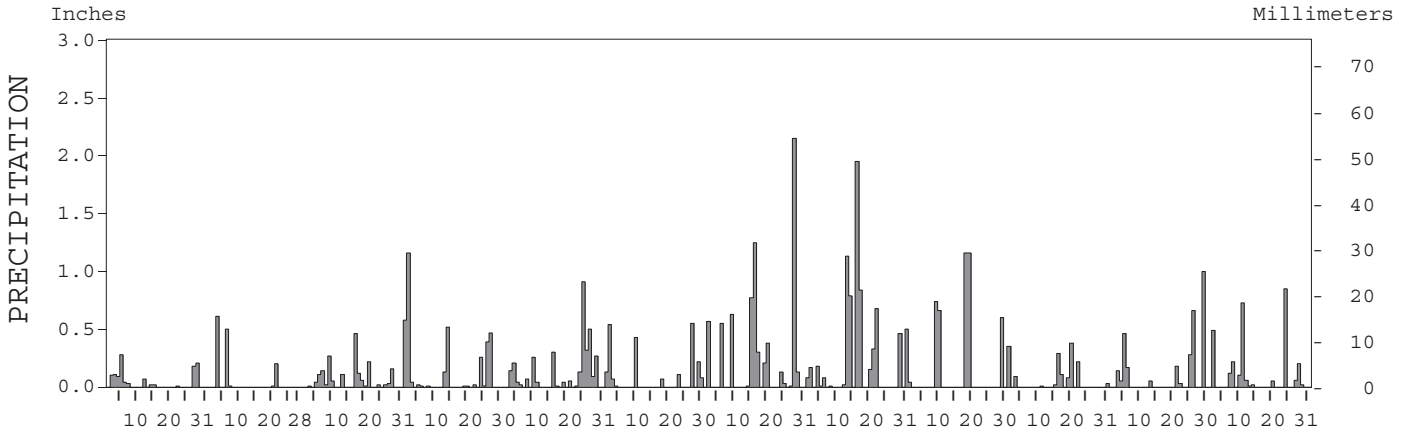
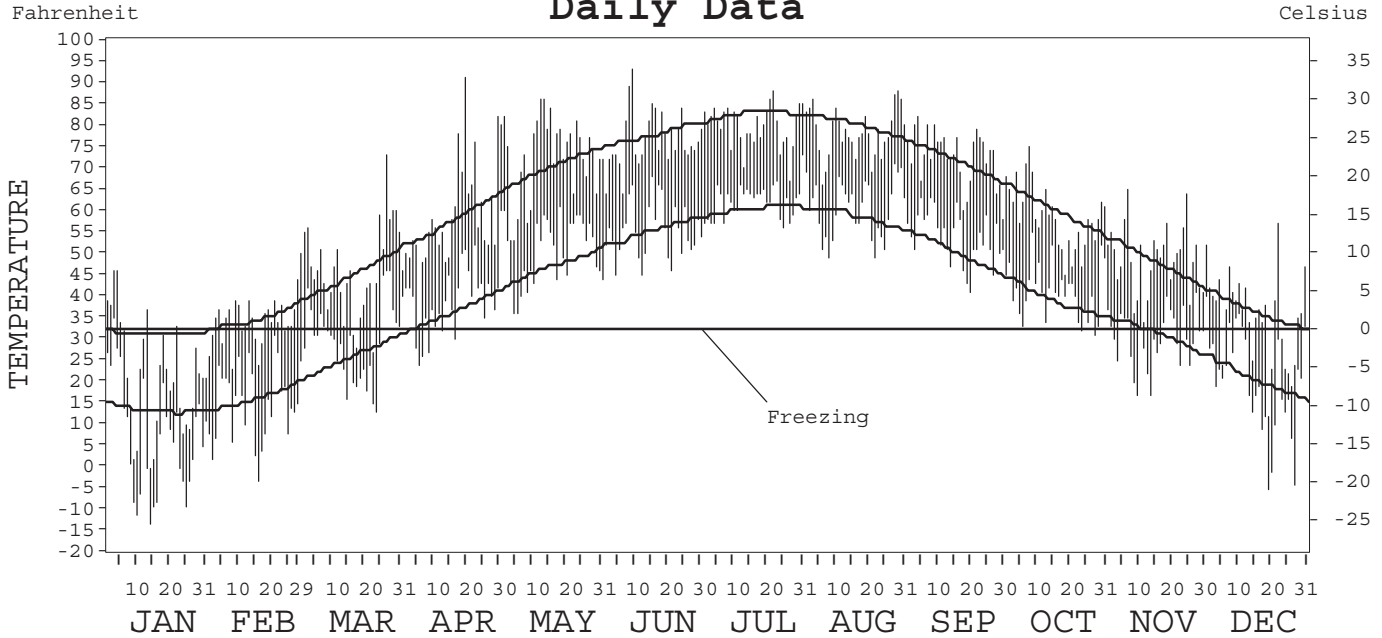
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3539

ALBANY,  
NEW YORK (ALB)

## Daily Data



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# METEOROLOGICAL DATA FOR 2004

## ALBANY, NY (ALB)

LATITUDE: 42° 44' 53" N      LONGITUDE: 73° 48' 12" W      ELEVATION (FT): GRND: 278      BARO: 281      TIME ZONE: EASTERN (UTC + 5)      WBAN: 14735

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	21.8	34.4	46.1	59.0	72.5	76.6	79.7	78.2	72.6	58.6	48.7	35.4	57.0	
	HIGHEST DAILY MAXIMUM	46	50	73	91	86	93	88	88	82	75	65	57	93	
	DATE OF OCCURRENCE	04+	29	26	19	13+	09	22	29	04	08	07	23	JUN 09	
	MEAN DAILY MINIMUM	7.5	15.1	29.6	39.2	50.5	55.5	62.2	60.4	53.9	41.1	30.2	20.2	38.8	
	LOWEST DAILY MINIMUM	-13	-3	13	24	36	45	56	49	41	31	17	-5	-13	
	DATE OF OCCURRENCE	14	16	23	05	05+	12+	25	22+	20	28	14+	20	JAN 14	
	AVERAGE DRY BULB	14.7	24.8	37.9	49.1	61.5	66.1	71.0	69.3	63.3	49.9	39.5	27.8	47.9	
	MEAN WET BULB	13.4	22.6	35.0	42.5	56.0	59.4	65.6	64.5	59.2	46.8	37.0	25.9	44.0	
	MEAN DEW POINT	5.4	15.7	29.5	34.0	50.8	53.9	62.5	61.7	56.1	43.5	31.9	20.3	38.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	1	0	1	0	0	0	0	0	0	0	2
	MAXIMUM ≤ 32°	24	9	3	0	0	0	0	0	0	0	0	9	45	
MINIMUM ≤ 32°	30	29	20	6	0	0	0	0	0	2	18	25	130		
MINIMUM ≤ 0°	11	1	0	0	0	0	0	0	0	0	0	3	15		
H/C	HEATING DEGREE DAYS	1554	1158	834	481	149	50	3	24	77	459	758	1148	6695	
	COOLING DEGREE DAYS	0	0	0	11	50	86	194	165	33	0	0	0	539	
RH	MEAN (PERCENT)	65	69	74	60	70	66	77	79	79	80	74	73	72	
	HOUR 01 LST	70	74	82	68	80	80	86	88	88	89	81	76	80	
	HOUR 07 LST	70	76	84	71	79	74	86	89	90	92	82	79	81	
	HOUR 13 LST	60	60	63	49	56	53	63	64	64	64	62	67	60	
	HOUR 19 LST	64	66	71	54	64	59	72	77	79	80	72	70	69	
S	PERCENT POSSIBLE SUNSHINE											42	28		
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	2	3	0	1	1	1	3	2	2	1	1	20	
	THUNDERSTORMS	0	0	0	0	5	2	4	7	1	0	0	0	20	
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.)	29.66	29.84	29.82	29.64	29.69	29.68	29.64	29.69	29.83	29.74	29.82	29.73	29.73	
	MEAN SEA-LEVEL PRESS. (IN.)	29.99	30.16	30.14	29.96	30.00	29.99	29.95	30.00	30.15	30.05	30.14	30.05	30.05	
WINDS	RESULTANT SPEED (MPH)	7.3	4.0	2.9	2.1	3.1	2.4	1.8	2.6	0.4	0.8	2.7	3.3	2.0	
	RES. DIR. (TENS OF DEGS.)	30	30	25	29	21	26	10	19	22	24	27	27	27	
	MEAN SPEED (MPH)	10.8	7.4	9.2	10.1	8.8	7.0	6.0	5.9	6.1	5.4	8.3	8.7	7.8	
	PREVAIL. DIR. (TENS OF DEGS.)	30	29	17	29	17	17	17	17	17	17	18	18	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	35	32	38	40	28	32	26	22	26	24	37	38	40	
	DIR. (TENS OF DEGS.)	27	29	29	29	27	30	23	28	29	30	29	30	29	
	DATE OF OCCURRENCE	06	11+	12	19	28+	09	19	19+	09	31+	05	23+	APR 19	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	56	41	45	52	36	40	32	29	37	31	41	51	56	
DIR. (TENS OF DEGS.)	26	29	27	28	28	29	23	30	30	29	29	29	26		
DATE OF OCCURRENCE	06	08+	12	19	02	09	19	19	10	31+	05	01	JAN 06		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.16	1.33	2.43	3.06	3.54	2.08	7.20	7.34	4.67	1.23	3.02	2.93	39.99	
	GREATEST 24-HOUR (IN.)	0.28	0.61	0.58	1.20	0.92	0.67	2.17	2.79	2.29	0.46	1.00	0.85	2.79	
	DATE OF OCCURRENCE	05	03	31	01-02	23-24	31-01	27-28	15-16	17-18	18-19	28	23	AUG 15-16	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	12	5	18	14	19	9	15	16	6	9	10	13	146	
PRECIPITATION ≥ 0.10	5	3	9	6	10	5	11	11	6	4	7	7	84		
PRECIPITATION ≥ 1.00	0	0	0	1	0	0	2	2	2	0	1	0	8		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	13.3	8.3	14.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	10.7	47.5	
	GREATEST 24-HOUR (IN.)	3.3	6.1	7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.6	7.0	
	DATE OF OCCURRENCE	28	03	16	05							12	27	MAR 16	
	MAXIMUM SNOW DEPTH (IN.)	6	8	8	T	0	0	0	0	0	0	T	6	8	
	DATE OF OCCURRENCE	28	06	17	05							13	27	MAR 17	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	4	2	5	0	0	0	0	0	0	0	0	4	15		

# NORMALS, MEANS, AND EXTREMES

## ALBANY, NY (ALB)

LATITUDE: 42° 44' 53" N      LONGITUDE: 73° 48' 12" W      ELEVATION (FT): GRND: 278      BARO: 281      TIME ZONE: EASTERN (UTC + 5)      WBAN: 14735

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	31.1	34.3	44.5	57.3	69.8	77.5	82.2	79.7	71.3	59.7	47.5	36.0	57.6
	MEAN DAILY MAXIMUM	59	30.7	33.5	43.5	57.3	69.4	78.2	82.8	80.8	72.5	61.5	47.9	35.3	57.8
	HIGHEST DAILY MAXIMUM	58	65	68	89	92	94	99	100	99	100	89	82	71	100
	YEAR OF OCCURRENCE		1995	1997	1998	1990	1981	1952	1953	1955	1953	1963	1950	1984	SEP 1953
	MEAN OF EXTREME MAXS.	59	50.9	52.0	66.8	79.5	86.5	91.7	93.2	91.5	87.1	78.7	67.6	54.6	75.0
	NORMAL DAILY MINIMUM	30	13.3	15.7	25.4	35.9	46.5	55.0	60.0	58.3	49.9	38.8	30.8	20.1	37.5
	MEAN DAILY MINIMUM	59	13.2	15.2	24.8	35.9	46.1	55.2	60.0	58.3	50.2	39.4	31.1	19.3	37.4
	LOWEST DAILY MINIMUM	58	-28	-21	-21	10	26	36	40	34	24	16	5	-22	-28
	YEAR OF OCCURRENCE		1971	1973	1948	1965	1968	1986	1978	1982	1947	1969	1972	1969	JAN 1971
	MEAN OF EXTREME MINS.	59	-9.1	-7.4	5.5	21.6	31.9	40.5	47.7	44.8	33.9	24.3	14.9	-2.7	20.5
	NORMAL DRY BULB	30	22.2	25.0	35.0	46.6	58.1	66.3	71.1	69.0	60.6	49.3	39.2	28.0	47.5
	MEAN DRY BULB	59	21.9	24.2	34.1	46.7	57.8	66.7	71.4	69.6	61.3	50.5	39.5	27.3	47.6
	MEAN WET BULB	20	21.0	23.6	31.2	41.7	52.3	60.6	65.2	64.5	57.3	46.0	36.8	25.1	43.8
	MEAN DEW POINT	20	15.1	16.7	23.8	33.7	46.0	55.9	61.3	60.8	53.8	41.6	31.6	19.9	38.4
NORMAL NO. DAYS WITH:															
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.2	0.4	1.5	4.1	1.9	0.3	0.0	0.0	0.0	8.4	
MAXIMUM ≤ 32°	30	16.8	12.5	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	10.1	45.0	
MINIMUM ≤ 32°	30	29.0	25.5	23.9	11.4	1.1	0.0	0.0	0.0	0.5	8.0	18.4	27.2	145.0	
MINIMUM ≤ 0°	30	5.7	3.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	11.5	
H/C	NORMAL HEATING DEG. DAYS	30	1330	1135	938	553	240	62	10	26	168	484	772	1142	6860
	NORMAL COOLING DEG. DAYS	30	0	0	1	3	27	102	206	157	46	2	0	0	544
RH	NORMAL (PERCENT)	30	72	69	66	62	67	70	72	75	78	75	74	74	71
	HOUR 01 LST	30	76	74	73	72	78	83	85	88	88	84	79	78	80
	HOUR 07 LST	30	78	77	77	73	76	79	82	87	90	87	82	80	81
	HOUR 13 LST	30	64	58	54	50	53	56	56	59	60	58	63	65	58
	HOUR 19 LST	30	70	66	61	56	59	63	64	71	76	73	72	73	67
S	PERCENT POSSIBLE SUNSHINE	59	46	52	54	54	56	60	64	60	57	52	37	39	53
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	67	1.4	1.0	1.4	0.8	1.3	1.2	1.4	2.5	3.4	3.9	1.6	1.8	21.7
	THUNDERSTORMS	67	0.1	0.1	0.5	1.3	3.2	5.2	5.8	4.4	2.2	0.9	0.3	0.1	24.1
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			5.6		6.4	6.4							
	MIDNIGHT-MIDNIGHT (OKTAS)	1			6.4										
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE (IN)	31	29.71	29.71	29.70	29.70	29.70	29.69	29.70	29.70	29.78	29.80	29.78	29.80	29.73
	MEAN SEA-LEVEL PRES. (IN)	19	30.08	30.08	30.05	29.98	29.98	29.96	29.99	30.04	30.07	30.09	30.08	30.10	30.04
WINDS	MEAN SPEED (MPH)	66	9.8	10.2	10.5	10.4	9.0	8.2	7.6	7.1	7.5	8.1	9.2	9.4	8.9
	PREVAIL. DIR (TENS OF DEGS)	33	29	29	29	29	18	18	18	18	18	18	18	30	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	40	44	46	40	55	43	41	47	35	39	40	43	55
	DIR. (TENS OF DEGS)		30	29	30	29	32	23	29	35	32	28	28	29	32
	YEAR OF OCCURRENCE		2000	1997	1997	2004	1998	2002	1999	1999	2002	1998	2003	2000	MAY 1998
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	9	56	56	56	52	82	54	52	68	49	53	53	53	82
DIR. (TENS OF DEGS)		26	29	27	28	32	23	28	18	01	30	29	28	32	
YEAR OF OCCURRENCE		2004	2001	1997	2004	1998	2002	1999	2002	1999	1998	2003	2000	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	2.71	2.27	3.17	3.25	3.67	3.74	3.50	3.68	3.31	3.23	3.31	2.76	38.60
	MAXIMUM MONTHLY (IN)	58	6.44	5.02	5.90	7.95	8.96	7.36	7.20	7.34	11.06	8.83	8.07	6.73	11.06
	YEAR OF OCCURRENCE		1978	1981	1977	1983	1953	1973	2004	2004	1999	1955	1972	1973	SEP 1999
	MINIMUM MONTHLY (IN)	58	0.42	0.24	0.26	0.60	1.05	0.65	0.49	0.73	0.40	0.20	0.91	0.64	0.20
	YEAR OF OCCURRENCE		1980	1987	1981	1999	1980	1964	1968	1947	1964	1963	1978	1958	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	58	1.91	1.74	2.38	2.20	2.17	3.48	3.49	4.52	6.00	3.31	2.26	4.02	6.00
	YEAR OF OCCURRENCE		1978	1990	1986	1968	1968	1952	1996	1971	1999	1987	1991	1948	SEP 1999
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	12.8	10.2	12.2	11.9	13.0	11.6	10.4	10.8	10.7	9.7	11.6	12.1	137.0	
PRECIPITATION ≥ 1.00	30	0.4	0.2	0.6	0.6	0.6	0.7	0.7	0.9	0.7	0.7	0.6	0.3	7.0	
SNOWFALL	NORMAL (IN)	30	18.0	12.7	10.9	2.9	0.1	0.0	0.0	0.0	0.2	5.1	12.8	62.7	
	MAXIMUM MONTHLY (IN)	58	47.8	34.5	34.7	17.7	2.2	T	T	0.0	T	6.5	24.6	57.5	
	YEAR OF OCCURRENCE		1987	1962	1956	1982	2002	1991	1995		1989	1987	1972	1969	DEC 1969
	MAXIMUM IN 24 HOURS (IN)	58	21.2	17.9	26.6	17.5	2.2	T	T	0.0	T	6.5	21.9	19.2	26.6
	YEAR OF OCCURRENCE		1983	1958	1993	1982	2002	1991	1995		1989	1987	1971	2002	MAR 1993
	MAXIMUM SNOW DEPTH (IN)	56	36	22	28	13	0	0	0	0	0	2	18	36	36
	YEAR OF OCCURRENCE		1970	1971	1993	1982						1987	1971	1969	DEC 1969
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	4.3	3.1	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	15.3	

PRECIPITATION (inches) 2004 ALBANY, NY (ALB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	2.75	3.58	2.72	2.18	2.96	3.80	6.96	5.98	4.57	5.88	2.89	2.78	47.05
1976	3.78	2.60	3.57	3.63	4.89	5.37	2.60	5.04	2.61	5.65	1.41	1.39	42.54
1977	1.51	2.63	5.90	3.41	2.29	2.87	2.31	3.66	6.66	4.00	4.85	4.21	44.30
1978	6.44	0.88	1.99	1.68	1.96	4.60	4.04	3.06	1.87	2.95	0.91	3.08	33.46
1979	6.37	1.71	1.83	3.89	4.13	1.94	2.78	2.67	4.05	3.42	3.41	0.94	37.14
1980	0.42	0.89	4.44	3.02	1.05	4.90	2.69	6.45	2.24	2.27	2.99	1.23	32.59
1981	0.59	5.02	0.26	1.99	2.44	2.78	3.50	1.76	3.45	3.55	1.56	3.54	30.44
1982	3.18	2.14	3.23	2.46	2.60	6.48	2.43	2.01	1.42	0.99	3.80	1.33	32.07
1983	3.73	2.03	5.33	7.95	6.26	1.95	1.34	3.41	2.28	2.18	4.73	5.10	46.29
1984	1.28	2.98	3.04	4.29	7.92	1.74	3.97	3.25	1.53	2.50	2.15	2.48	37.13
1985	0.81	1.18	3.67	1.44	2.71	4.12	1.86	2.23	3.07	1.81	5.00	2.05	29.95
1986	3.17	3.00	3.72	1.49	3.11	5.43	6.68	4.09	2.61	2.12	4.62	3.92	43.96
1987	4.23	0.24	1.99	4.25	1.57	3.54	2.50	3.67	6.98	6.90	1.78	1.64	39.29
1988	1.95	3.00	1.62	2.22	2.95	1.42	3.12	4.77	1.50	1.40	4.58	1.02	29.55
1989	0.46	1.60	2.69	2.68	5.92	6.52	5.91	2.90	2.81	5.53	1.90	0.75	39.67
1990	3.84	3.94	3.66	3.87	6.12	2.66	1.68	6.66	1.81	4.60	3.67	3.50	46.01
1991	2.15	1.67	2.53	4.14	2.74	1.69	1.65	4.32	3.33	3.82	4.76	2.92	35.72
1992	1.86	1.30	1.66	2.77	3.61	1.96	4.26	2.05	2.43	2.80	3.66	3.02	31.38
1993	2.14	2.86	5.12	5.39	1.37	2.87	6.55	1.54	3.22	3.31	3.80	3.08	41.25
1994	3.20	1.80	4.27	3.45	3.27	3.26	4.25	4.13	2.15	0.83	1.53	2.58	34.72
1995	2.11	1.95	2.20	1.94	1.35	2.27	2.23	3.66	2.28	8.03	3.76	2.30	34.08
1996	5.08	1.49	2.10	5.76	4.24	3.60	6.46	3.15	5.07	2.03	2.91	4.50	46.39
1997	1.67	2.00	4.41	2.30	2.60	0.74	2.34	4.64	4.10	1.91	5.91	2.10	34.72
1998	3.80	2.58	2.86	3.49	5.87	6.58	2.74	2.21	1.98	4.14	1.65	1.04	38.94
1999	4.78	1.59	4.15	0.60	2.77	2.08	2.24	3.45	11.06	2.42	2.07	1.42	38.63
2000	3.43	2.83	3.80	4.23	4.95	6.69	4.48	4.69	3.06	2.48	1.90	4.38	46.92
2001	1.00	1.85	5.50	1.33	3.21	3.78	3.59	2.10	1.64	1.26	1.38	1.95	28.59
2002	2.77	1.61	3.56	2.51	4.55	5.45	0.83	3.86	3.37	4.02	4.86	3.97	41.36
2003	3.45	2.15	2.26	2.89	5.08	2.84	4.52	4.41	4.91	4.67	3.66	5.48	46.32
2004	1.16	1.33	2.43	3.06	3.54	2.08	7.20	7.34	4.67	1.23	3.02	2.93	39.99
POR= 179 YRS	2.54	2.34	2.83	2.89	3.38	3.70	3.63	3.56	3.29	3.01	2.94	2.64	36.75

WBAN : 14735

AVERAGE TEMPERATURE (°F) 2004 ALBANY, NY (ALB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	25.7	24.9	30.8	40.7	61.9	65.1	72.8	70.0	59.4	53.3	45.5	26.1	48.0
1976	16.0	31.5	36.7	49.7	55.0	69.4	68.5	67.4	59.0	46.5	34.9	21.4	46.3
1977	15.5	24.5	40.0	46.8	60.2	64.6	71.7	67.8	61.4	49.7	42.6	26.7	47.6
1978	21.5	18.2	30.8	43.4	58.4	64.4	68.9	69.2	56.8	48.6	38.6	28.7	45.6
1979	22.1	14.4	38.9	45.4	60.0	66.0	72.5	69.0	61.2	50.2	44.1	31.4	47.9
1980	24.1	19.8	33.3	48.0	59.5	63.3	72.2	70.7	62.6	47.4	34.8	19.9	46.3
1981	14.0	33.1	34.7	48.1	58.9	66.7	69.3	68.5	58.8	44.8	37.7	25.7	46.7
1982	14.3	23.4	32.8	44.3	59.5	62.9	70.1	65.5	60.5	50.6	43.0	33.7	46.7
1983	24.3	26.8	37.6	46.7	54.9	67.2	72.2	69.8	62.6	49.6	39.2	24.0	47.9
1984	18.1	32.4	29.0	47.6	53.2	66.4	68.9	71.8	60.2	53.8	40.3	33.8	48.0
1985	19.9	26.8	37.3	49.7	60.0	62.2	70.7	68.7	63.3	50.2	40.1	24.5	47.8
1986	23.0	22.0	37.2	50.5	61.3	64.6	71.3	67.8	60.1	48.9	35.7	30.8	47.8
1987	21.7	21.7	37.7	50.4	60.0	68.3	73.5	67.2	60.6	46.6	40.1	30.7	48.2
1988	20.6	24.1	34.2	46.6	59.5	65.1	75.0	72.3	60.0	46.0	41.0	26.6	47.6
1989	27.8	24.2	33.5	44.6	59.5	68.0	71.6	69.8	62.5	51.5	39.3	13.7	47.2
1990	32.8	28.2	37.8	48.9	55.3	67.3	73.0	70.9	61.7	53.1	41.8	33.6	50.4
1991	23.2	30.0	37.4	51.2	63.2	69.0	71.6	71.2	59.9	53.2	40.1	28.9	49.9
1992	24.5	26.9	31.5	44.7	58.5	65.2	67.6	67.4	61.4	46.5	38.9	29.8	46.9
1993	26.6	18.3	31.4	48.4	59.5	66.3	73.1	71.7	60.5	48.6	38.4	27.4	47.5
1994	12.7	19.2	33.1	48.2	56.4	68.9	74.0	67.1	60.9	50.1	43.3	31.6	47.1
1995	31.3	22.8	40.0	43.9	57.0	66.9	74.0	70.9	59.1	53.4	35.7	23.9	48.2
1996	20.6	25.3	31.1	46.2	55.2	68.6	69.7	70.1	62.3	49.1	34.6	33.8	47.2
1997	22.7	30.4	33.2	44.2	53.6	67.9	70.6	68.6	60.7	48.0	35.8	29.8	47.1
1998	29.0	31.8	38.4	48.8	62.9	66.3	70.9	71.1	63.2	50.7	39.9	33.7	50.6
1999	21.8	28.2	34.4	46.6	59.4	69.7	74.2	69.2	64.8	48.8	44.1	31.0	49.4
2000	20.7	27.6	40.2	45.3	59.4	65.9	67.6	68.5	59.4	50.0	38.0	22.2	47.1
2001	24.6	26.9	30.9	47.4	58.9	68.4	68.9	73.7	62.4	51.9	44.8	34.2	49.4
2002	31.3	31.7	36.3	48.9	55.0	66.8	73.4	72.9	65.0	47.9	38.6	27.1	49.6
2003	15.6	21.1	34.4	44.5	56.8	66.3	72.2	72.7	63.0	48.2	42.3	29.3	47.2
2004	14.7	24.8	37.9	49.1	61.5	66.1	71.0	69.3	63.3	49.9	39.5	27.8	47.9
POR= 131 YRS	22.7	24.1	33.8	46.6	58.4	67.4	72.3	70.0	62.4	51.1	39.6	27.9	48.0

HEATING DEGREE DAYS (base 65°F) 2004 ALBANY, NY (ALB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0	19	173	357	580	1199	1511	964	871	472	315	43	6504
1976-77	7	40	196	564	895	1345	1526	1127	764	545	205	85	7299
1977-78	7	51	156	471	666	1179	1340	1306	1051	642	245	84	7198
1978-79	43	19	256	503	784	1119	1324	1414	803	579	188	63	7095
1979-80	19	37	163	468	619	1036	1259	1303	974	503	190	106	6677
1980-81	0	7	140	539	900	1393	1575	885	930	502	235	30	7136
1981-82	8	22	204	622	816	1209	1564	1160	992	617	182	87	7483
1982-83	20	65	156	436	657	969	1255	1062	843	539	312	58	6372
1983-84	5	24	150	479	766	1265	1448	939	1109	517	363	60	7125
1984-85	12	8	170	344	737	959	1389	1062	852	458	184	106	6281
1985-86	7	16	123	452	740	1246	1295	1177	859	432	154	75	6576
1986-87	17	46	173	495	872	1053	1332	1207	842	433	210	29	6709
1987-88	2	56	154	567	741	1056	1370	1181	946	546	198	99	6916
1988-89	8	30	160	584	714	1185	1146	1133	968	607	194	35	6764
1989-90	0	22	134	413	766	1584	990	1026	839	500	298	44	6616
1990-91	5	6	148	388	689	964	1290	973	850	417	141	22	5893
1991-92	6	0	197	372	740	1111	1248	1098	1034	605	210	56	6677
1992-93	17	27	167	565	773	1082	1183	1300	1034	492	185	67	6892
1993-94	0	11	185	500	791	1161	1619	1272	983	502	283	33	7340
1994-95	0	47	138	457	644	1027	1037	1177	766	627	252	41	6213
1995-96	2	12	196	355	872	1266	1369	1146	1046	559	316	18	7157
1996-97	1	2	133	488	903	961	1306	961	977	616	350	35	6733
1997-98	3	11	152	521	872	1083	1112	924	828	478	98	84	6166
1998-99	2	10	99	435	746	964	1334	1021	940	542	180	22	6295
1999-00	2	14	93	493	621	1048	1367	1077	762	585	209	74	6345
2000-01	14	25	207	456	801	1323	1246	1060	1048	522	202	46	6950
2001-02	21	0	116	405	604	949	1036	927	885	511	326	51	5831
2002-03	4	9	69	534	786	1171	1525	1221	942	611	246	46	7164
2003-04	0	9	88	511	671	1102	1554	1158	834	481	149	50	6607
2004-	3	24	77	459	758	1148							

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COOLING DEGREE DAYS (base 65°F) 2004 ALBANY, NY (ALB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	58	97	248	180	12	0	2	0	597
1976	0	0	0	19	11	184	120	120	22	0	0	0	476
1977	0	0	0	8	66	79	222	146	53	0	0	0	574
1978	0	0	0	0	47	70	169	154	16	0	0	0	456
1979	0	0	0	0	39	99	258	168	55	17	0	0	636
1980	0	0	0	0	28	63	230	189	73	0	0	0	583
1981	0	0	0	2	53	87	149	137	25	0	0	0	453
1982	0	0	0	0	19	31	184	88	29	0	4	0	355
1983	0	0	0	0	8	134	236	179	86	6	0	0	649
1984	0	0	0	0	3	107	140	226	35	3	0	0	514
1985	0	0	0	5	37	27	191	140	80	2	0	0	482
1986	0	0	6	4	46	69	220	140	33	1	0	0	519
1987	0	0	0	4	62	136	271	133	29	0	0	0	635
1988	0	0	0	0	36	110	326	263	16	4	0	0	755
1989	0	0	1	0	31	132	213	178	63	0	0	0	618
1990	0	0	2	22	1	119	261	197	55	24	0	0	681
1991	0	0	0	9	92	147	221	198	50	14	0	0	731
1992	0	0	0	2	15	70	106	112	65	0	0	0	370
1993	0	0	0	0	17	116	259	224	55	2	0	0	673
1994	0	0	0	6	24	160	290	119	21	0	1	0	621
1995	0	0	0	0	11	102	289	200	27	0	0	0	629
1996	0	0	0	1	19	132	153	168	57	0	0	0	530
1997	0	0	0	0	3	128	186	129	28	1	0	0	475
1998	0	0	10	0	38	128	192	206	54	0	0	0	628
1999	0	0	0	0	15	170	291	151	94	0	0	0	721
2000	0	0	0	0	42	107	100	141	45	1	0	0	436
2001	0	0	0	3	16	152	150	279	45	8	0	0	653
2002	0	0	0	32	22	113	273	261	77	10	0	0	788
2003	0	0	0	4	0	94	229	258	37	0	0	0	622
2004	0	0	0	11	50	86	194	165	33	0	0	0	539

SNOWFALL (inches) 2004 ALBANY, NY (ALB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	0.0	3.6	16.4	15.0	4.4	14.8	T	T	0.0	54.2
1976-77	0.0	0.0	0.0	T	5.7	7.8	22.1	17.9	15.2	0.3	1.6	0.0	70.6
1977-78	0.0	0.0	0.0	0.0	8.4	19.8	40.8	15.8	7.4	0.2	T	0.0	92.4
1978-79	0.0	0.0	0.0	0.0	3.4	19.9	26.5	4.6	0.9	8.2	0.0	0.0	63.5
1979-80	0.0	0.0	0.0	T	0.0	5.8	0.6	10.2	10.8	0.0	0.0	0.0	27.4
1980-81	0.0	0.0	0.0	0.0	11.8	12.8	11.9	6.9	1.5	T	0.0	0.0	44.9
1981-82	0.0	0.0	0.0	0.0	1.1	31.4	18.2	9.6	19.1	17.7	0.0	0.0	97.1
1982-83	0.0	0.0	0.0	0.0	0.6	5.5	27.5	17.4	9.2	14.7	0.1	0.0	75.0
1983-84	0.0	0.0	0.0	0.0	1.7	11.6	16.5	7.2	28.2	T	0.0	0.0	65.2
1984-85	0.0	0.0	0.0	0.0	2.2	11.7	8.4	10.1	8.7	0.2	0.0	0.0	41.3
1985-86	0.0	0.0	0.0	0.0	11.8	11.5	18.0	16.1	3.4	1.7	T	0.0	62.5
1986-87	0.0	0.0	0.0	0.0	8.3	20.3	47.8	2.8	0.8	0.6	0.0	0.0	80.6
1987-88	0.0	0.0	0.0	6.5	6.2	11.4	21.7	26.0	4.8	0.1	0.0	0.0	76.7
1988-89	0.0	0.0	0.0	T	T	7.8	1.3	5.1	4.7	0.1	0.0	0.0	19.0
1989-90	T	0.0	T	0.0	1.9	8.0	20.3	22.8	4.9	T	0.0	0.0	57.9
1990-91	0.0	0.0	0.0	T	0.4	8.5	11.2	5.3	3.3	0.0	0.0	T	28.7
1991-92	0.0	0.0	0.0	0.0	1.5	12.7	3.4	6.3	4.9	1.9	0.0	0.0	30.7
1992-93	0.0	0.0	0.0	T	2.8	12.6	14.3	28.6	34.3	1.6	0.0	0.0	94.2
1993-94	0.0	0.0	0.0	T	0.7	6.1	42.0	20.2	19.1	T	T	0.0	88.1
1994-95	0.0	0.0	0.0	0.0	4.1	2.9	3.9	15.4	4.6	T	0.0	0.0	30.9
1995-96	T	0.0	0.0	0.0	5.8	25.1	28.4		20.3	1.1	0.0	0.0	
1996-97				0.0	4.0	11.1	16.7	8.2	23.6	3.0	0.0	0.0	
1997-98	0.0	0.0	0.0	T	11.8	14.7	13.5	6.0	6.1	0.0	0.0	0.0	52.1
1998-99	0.0	0.0	0.0	0.0	T	3.2	20.4	5.8	14.7	0.0	0.0	0.0	44.1
1999-00	0.0	0.0	0.0	0.0	0.4	1.1	31.0	12.4	3.9	13.3	0.0	0.0	62.1
2000-01	0.0	0.0	0.0	0.4	2.5	20.0	7.6	16.0	30.6	T	T	0.0	77.1
2001-02	T	0.0	0.0	T	T	7.8	22.9	3.4	8.7	2.4	2.2	T	47.4
2002-03	0.0	0.0	0.0	0.5	12.0	33.2	32.2	16.7	5.2	5.6	0.0	0.0	105.4
2003-04	0.0	0.0	0.0	T	0.3	28.5	13.3	8.3	14.6	0.1	0.0	0.0	65.1
2004-	0.0	0.0	0.0	0.0	0.5	10.7							
POR= 57 YRS	T	0.0	T	0.2	4.0	14.8	16.6	13.4	11.6	2.8	0.2	T	63.6

WBAN : 14735

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 (1971 - 2000). 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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2004  
ALBANY,  
NEW YORK (ALB)

Albany is located on the west bank of the Hudson River some 150 miles north of New York City, and 8 miles south of the confluence of the Mohawk and Hudson Rivers. The river-front portion of the city is only a few feet above sea level, and there is a tidal effect upstream to Troy. Eleven miles west of Albany the Helderberg escarpment rises to 1,800 feet. Between it and the Hudson River the valley floor is gently rolling, ranging some 200 to 500 feet above sea level. East of the city there is more rugged terrain 5 or 6 miles wide with elevations of 300 to 600 feet. Farther to the east the terrain rises more sharply. It reaches a north-south range of hills 12 miles east of Albany with elevations ranging to 2,000 feet.

The climate at Albany is primarily continental in character, but is subjected to some modification by the Atlantic Ocean. The moderating effect on temperatures is more pronounced during the warmer months than in winter when outbursts of cold air sweep down from Canada. In the warmer seasons, temperatures rise rapidly in the daytime. However, temperatures also fall rapidly after sunset so that the nights are relatively cool. Occasionally there are extended periods of oppressive heat up to a week or more in duration.

Winters are usually cold and sometimes fairly severe. Maximum temperatures during the colder winters are often below freezing and nighttime

lows are frequently below 10 degrees. Sub-zero readings occur about twelve times a year. Snowfall throughout the area is quite variable and snow flurries are quite frequent during the winter. Precipitation is sufficient to serve the economy of the region in most years, and only occasionally do periods of drought exist. Most of the rainfall in the summer is from thunderstorms. Tornadoes are quite rare and hail is not usually of any consequence.

Wind velocities are moderate. The north-south Hudson River Valley has a marked effect on the lighter winds and in the warm months, average wind direction is usually southerly. Destructive winds rarely occur.

The area enjoys one of the highest percentages of sunshine in the entire state. Seldom does the area experience long periods of cloudy days and long periods of smog are rare.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 29 and the average last occurrence in the spring is May 7.

# STATION LOCATION

ALBANY, NEW YORK

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS	
						SEA LEVEL	GROUND											
							GROUND	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING BUCKET	WEIGHING	8 INCH	HYGROMETER			
*NOTE: <u>AIRPORT</u> Administration Building Albany County Airport	1/13/30	1/20/65	NA	42°45'	73°48'	277	40 g20	28 d6	28 d6	c34	c25 e3	f4	c25 e3		c. Installed June 1938. d. Effective 10/23/46. e. Effective 10/23/46. 8" gage not used after June 1951. f. Added 10/23/46. g. Effective 1/8/63.			
Crash, Fire, Rescue & Maintenance Building Albany County Airport	1/20/65	8/01/95	500 ft. N	42°45'	73°48'	275	20			42	4	5		h4 i5	h. Installed 1925' NE of previous temp. sensor. i. Type change 2/6/85.			
Albany Int'l Airport	8/01/95	Present	NA	42°45'	73°48'	j278								S	ASOS Commissioned 08/01/95 j. Ground elevation			

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\* NOTES: For earlier station history see previous edition.