

2002

LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



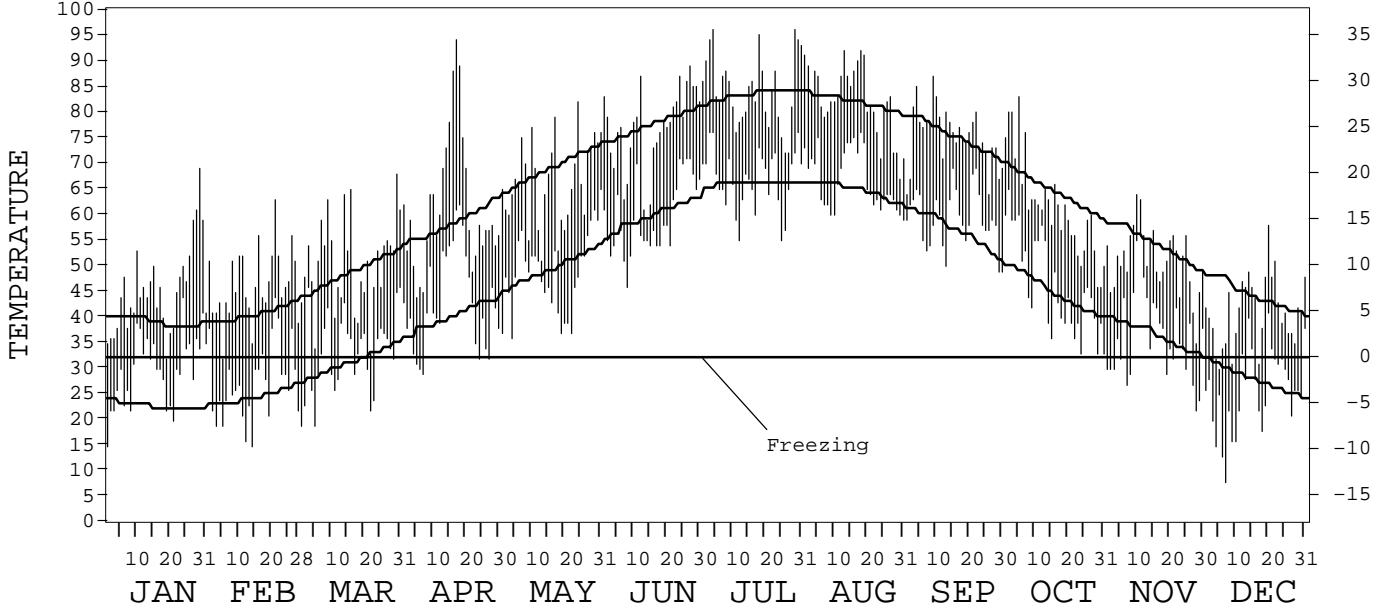
ISSN 0742-8715

ISLIP,
NEW YORK (ISP)

Daily Data

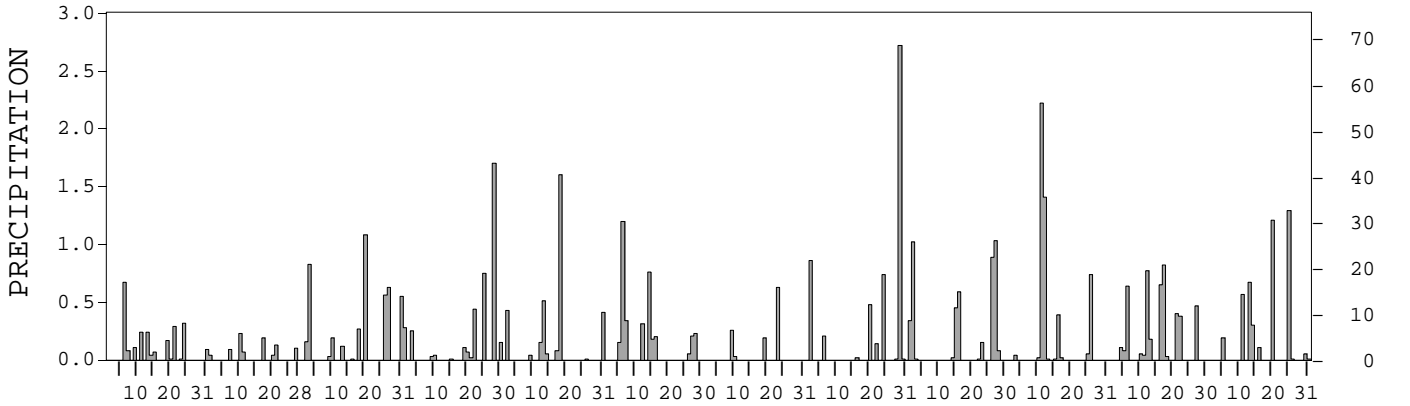
Fahrenheit

Celsius



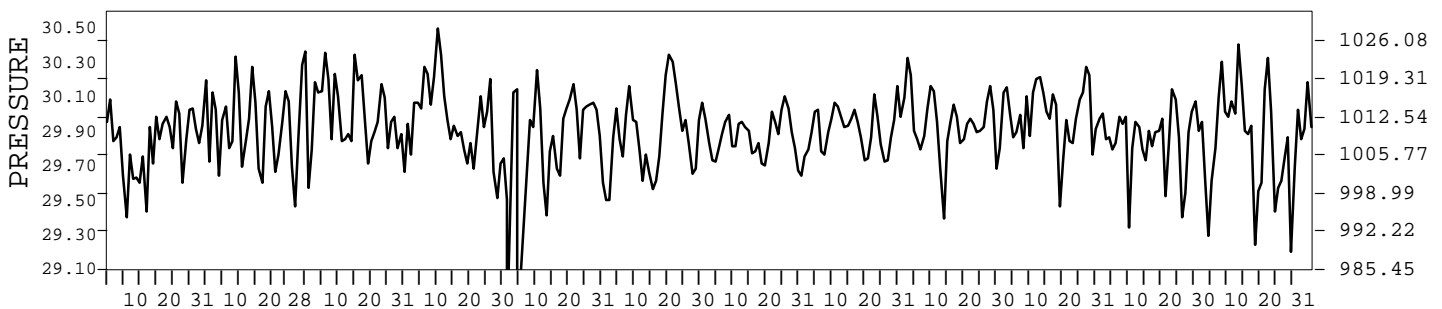
Inches

Millimeters



Inches of Mercury

Hectopascals



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Thomas R. Karl

NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA,
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2002

ISLIP, NY (ISP)

LATITUDE: 40° 47' 38" N LONGITUDE: 73° 06' 06" W ELEVATION (FT): GRND: 141 BARO: 144 TIME ZONE: EASTERN (UTC + 5) WBAN: 04781

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	45.4	46.4	50.5	61.5	66.5	76.5	84.3	82.4	75.4	61.7	51.2	41.1	61.9	
	HIGHEST DAILY MAXIMUM	69	63	68	94	82	89	96	92	87	83	64	58	96	
	DATE OF OCCURRENCE	29	21	30	17	24	27	29+	18+	09	05	10	20	JUL 29+	
	MEAN DAILY MINIMUM	30.0	27.4	33.2	43.1	48.6	59.6	66.9	66.6	59.2	46.2	36.3	25.8	45.2	
	LOWEST DAILY MINIMUM	15	15	19	29	37	46	55	59	49	33	22	8	8	
	DATE OF OCCURRENCE	01	14	05+	07	22+	08	25+	31	30+	31+	28	07	DEC 07	
	AVERAGE DRY BULB	37.7	36.9	41.9	52.3	57.6	68.1	75.6	74.5	67.3	54.0	43.8	33.5	53.6	
	MEAN WET BULB	34.5	34.0	38.3	46.6		63.1	68.0	68.5	62.7		41.9	31.4		
	MEAN DEW POINT	28.7	26.9	31.4	39.7		59.8	63.1	65.0	59.1		38.0	25.7		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	1	0	0	7	5	0	0	0	0	0	13
	MAXIMUM ≤ 32°	1	1	0	0	0	0	0	0	0	0	0	4	6	6
	MINIMUM ≤ 32°	19	22	13	5	0	0	0	0	0	0	12	25	96	96
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	841	778	710	407	239	48	0	1	22	353	630	969	4998	
	COOLING DEGREE DAYS	0	0	0	34	15	145	336	303	99	23	0	0	955	
RH	MEAN (PERCENT)	72	68	69	66	70	77	68	75	77	74	79	73	72	
	HOUR 01 LST	76	76	74	76	85	90	79	89	85	81	84	78	81	
	HOUR 07 LST	80	78	76	72	77	80	72	80	85	83	87	75	79	
	HOUR 13 LST	61	55	57	51	55	62	53	59	64	63	68	63	59	
	HOUR 19 LST	73	67	72	64	71	77	67	74	80	77	81	74	73	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	4	7	3	4	2	0	1	1	0	2	3	29	
	THUNDERSTORMS	0	0	0	4	2	7	3	5	1	0	0	0	22	
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.)	29.84	29.91	30.01	29.96		29.88	29.86	29.93	29.93	29.97	29.82	29.87		
	MEAN SEA-LEVEL PRESS. (IN.)	29.99	30.06	30.17	30.11			30.01	30.08	30.09	30.12	29.97	30.03		
WINDS	RESULTANT SPEED (MPH)	5.8	4.4	2.3	3.0		2.2	0.6	1.1	1.1	3.0	4.1	5.7		
	RES. DIR. (TENS OF DEGS.)	29	28	25	26		22	03	24	31	02	30	31		
	MEAN SPEED (MPH)	9.2	10.1	11.2	10.3	9.9	9.2	8.6	8.1	8.5	9.2	10.3	10.0	9.6	
	PREVAIL. DIR. (TENS OF DEGS.)	30	23	22	21	22	22	23	22	19	36	29	30	22	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	33	36	36	28	36	30	28	45	39	31	36	36	45	
	DIR. (TENS OF DEGS.)	30	33	29	30	24	27	21	03	33	07	30	33	03	
	DATE OF OCCURRENCE	13	11	10	01	14	28	23	02	11	16	23	25	AUG 02	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	46	47	46	35	43	37	33	55	49	43	41	45	55	
DIR. (TENS OF DEGS.)	29	33	32	31	24	28	23	02	32	07	30	32	02		
DATE OF OCCURRENCE	13	11	21+	01	14	28+	23	02	11	16	23+	25	AUG 02		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.34	0.89	4.43	3.85	3.28	3.63	1.11	5.19	4.59	4.91	4.62	4.41	43.25	
	GREATEST 24-HOUR (IN.)	0.75	0.30	1.19	1.70	1.60	1.48	0.63	2.73	1.90	2.57	1.01	1.30	2.73	
	DATE OF OCCURRENCE	06-07	10-11	26-27	28	18	06-07	23	28-29	26-27	11-12	16-17	25-26	AUG 28-29	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	13	8	11	12	9	10	4	9	11	10	13	10	120	
PRECIPITATION ≥ 0.10	7	4	9	7	5	9	3	6	7	4	9	7	77		
PRECIPITATION ≥ 1.00	0	0	1	1	1	1	0	1	2	2	0	2	11		
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															

NORMALS, MEANS, AND EXTREMES

ISLIP, NY (ISP)

LATITUDE: 40° 47' 38" N LONGITUDE: 73° 06' 06" W ELEVATION (FT): GRND: 141 BARO: 144 TIME ZONE: EASTERN (UTC + 5) WBAN: 04781

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.1	40.5	48.5	58.1	68.9	77.4	83.2	81.7	74.9	64.0	53.7	43.9	61.2
	MEAN DAILY MAXIMUM	19	39.6	41.5	47.9	57.7	68.3	77.2	81.9	80.8	73.6	63.8	53.5	43.8	60.8
	HIGHEST DAILY MAXIMUM	19	69	67	82	94	98	96	102	100	92	86	78	77	102
	YEAR OF OCCURRENCE		2002	1991	1990	2002	1996	1994	1999	2001	1998	1997	1990	1998	JUL 1999
	MEAN OF EXTREME MAXS.	19	57.8	57.4	67.5	75.9	86.8	90.1	94.2	90.9	85.3	77.3	68.4	60.3	76.0
	NORMAL DAILY MINIMUM	30	22.6	24.3	31.1	40.0	49.4	59.6	65.9	64.5	56.6	44.6	36.1	27.5	43.5
	MEAN DAILY MINIMUM	19	24.3	25.8	31.5	40.8	49.8	60.1	66.1	65.2	57.0	45.4	36.7	28.1	44.2
	LOWEST DAILY MINIMUM	19	-7	1	8	24	34	43	50	45	38	28	11	7	-7
	YEAR OF OCCURRENCE		1988	1996	1990	1995	2000	2001	1988	1986	1997	1985	1989	1988	JAN 1988
	MEAN OF EXTREME MINS.	19	7.2	10.0	16.3	29.2	36.6	47.9	55.9	54.5	43.4	32.1	22.1	13.4	30.7
	NORMAL DRY BULB	30	28.6	29.8	38.4	48.3	58.3	67.1	73.2	73.0	66.5	54.6	44.0	34.3	51.3
	MEAN DRY BULB	19	32.0	33.6	39.6	49.4	59.0	68.6	74.1	73.0	65.4	54.6	45.0	36.0	52.5
	MEAN WET BULB	15	29.1	29.9	35.6	44.2	53.6	62.5	63.3	63.1	57.1	47.4	39.5	30.5	46.3
	MEAN DEW POINT	15	22.7	22.5	28.6	37.7	48.3	58.5	59.9	59.9	53.6	43.0	34.1	24.2	41.1
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.7	1.7	1.9	1.0	0.4	0.0	0.0	0.0	5.7	
MAXIMUM ≤ 32°	30	8.4	5.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.7	20.4	
MINIMUM ≤ 32°	30	25.1	21.4	17.3	2.9	0.0	0.0	0.0	0.0	0.0	1.3	9.1	21.7	98.8	
MINIMUM ≤ 0°	30	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	
H/C	NORMAL HEATING DEG. DAYS	30	1060	913	782	479	197	24	0	1	49	339	604	909	5357
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	15	129	296	251	72	7	0	0	770
RH	NORMAL (PERCENT)	30	70	68	66	65	71	72	75	77	77	74	72	68	71
	HOUR 01 LST	30	74	74	72	74	82	83	86	87	86	82	79	73	79
	HOUR 07 LST	30	76	76	74	72	77	78	81	85	86	84	80	75	79
	HOUR 13 LST	30	62	59	55	51	57	59	60	62	62	60	60	59	59
	HOUR 19 LST	30	70	67	65	64	70	70	74	77	78	75	72	68	71
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI) THUNDERSTORMS	19	3.4	3.5	3.4	3.9	4.1	3.6	1.9	1.8	1.3	3.3	2.9	2.1	35.2
		19	0.4	0.6	1.1	2.2	3.2	4.9	4.2	3.8	1.9	0.8	0.7	0.3	24.1
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE(IN)	16	29.97	29.92	29.90	29.90	29.90	29.90	29.90	29.89	29.99	30.00	29.98	29.98	29.94
	MEAN SEA-LEVEL PRES. (IN)	18	30.07	30.07	30.03	29.98	29.98	29.97	30.00	30.05	30.06	30.11	30.10	30.07	30.04
WINDS	MEAN SPEED (MPH)	22	10.1	10.5	11.1	10.4	9.3	8.9	8.5	7.8	8.2	8.6	9.9	9.8	9.4
	PREVAIL.DIR(TENS OF DEGS)	24	30	30	31	22	22	22	22	22	22	22	30	30	22
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	36	36	36	31	36	30	31	45	39	33	36	43	45
	DIR. (TENS OF DEGS)		30	33	29	08	24	27	33	03	33	36	30	28	03
	YEAR OF OCCURRENCE		2000	2002	2002	2000	2002	2002	2001	2002	2002	2000	2002	2000	AUG 2002
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	46	47	46	39	46	39	40	55	49	43	41	54	55	
DIR. (TENS OF DEGS)		29	33	32	10	22	32	33	02	32	07	30	27	02	
YEAR OF OCCURRENCE		2002	2002	2002	2000	2000	2000	2001	2002	2002	2002	2002	2000	AUG 2002	
PRECIPITATION	NORMAL (IN)	30	4.27	3.33	4.76	4.13	3.90	3.71	2.93	4.48	3.39	3.63	3.86	4.13	46.52
	MAXIMUM MONTHLY (IN)	19	9.25	5.55	8.38	7.37	10.14	10.73	8.36	13.78	6.41	8.71	8.02	8.91	13.78
	YEAR OF OCCURRENCE		1999	1984	2001	1998	1989	1998	1984	1990	1996	1989	1988	1996	AUG 1990
	MINIMUM MONTHLY (IN)	19	1.34	0.89	1.32	1.29	0.73	0.58	0.92	0.47	0.81	0.18	0.63	0.90	0.18
	YEAR OF OCCURRENCE		1985	2002	1995	1992	1986	1988	1999	1984	1985	2000	2001	1985	OCT 2000
	MAXIMUM IN 24 HOURS (IN)	19	3.61	2.33	3.25	3.48	4.76	5.10	2.91	6.92	2.85	3.95	2.63	2.80	6.92
	YEAR OF OCCURRENCE		1999	1984	1998	2000	1989	2000	1996	1990	1996	1989	1988	1993	AUG 1990
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.7	9.6	9.3	12.4	11.0	11.0	9.9	8.1	7.6	8.4	11.0	9.6	118.6	
PRECIPITATION ≥ 1.00	30	0.4	0.4	1.3	0.7	1.6	1.1	1.1	1.4	1.0	1.0	1.4	0.3	11.7	
SNOWFALL	NORMAL (IN)	30	7.7	4.4	3.6	0.4	0.0	0.0	0.0	0.0	0.0	1.2	4.1	21.4	
	MAXIMUM MONTHLY (IN)	16	20.2	19.0	13.3	9.6	T	0.0	T	0.0	0.0	0.0	7.6	13.3	20.2
	YEAR OF OCCURRENCE		1996	1996	1993	1996	1994		1999				1989	1995	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	16	14.0	6.7	8.0	8.5	T	0.0	T	0.0	0.0	0.0	7.6	9.2	14.0
	YEAR OF OCCURRENCE		1996	1987	1993	1996	1994	1984	1999	1984	1984	1984	1989	1988	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	15	9	14	8	3	0	0	0	0	0	0	7	10	14
	YEAR OF OCCURRENCE		1988	1994	1999	1997							1989	1995	FEB 1994
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.9	1.3	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	6.4	

PRECIPITATION (inches) 2002 ISLIP, NY (ISP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	2.63	5.55	5.53	4.81	9.43	5.14	8.36	0.47	5.06	2.43	1.69	2.33	53.43
1985	1.34	2.00	2.38	1.79	4.13	6.32	3.41	3.84	0.81	1.31	6.18	0.90	34.41
1986	3.37	3.20	3.10	2.66	0.73	1.69	4.18	3.95	0.82	2.06	6.56	5.46	37.78
1987	6.28	1.11	4.93	3.65	1.53	2.53	1.90	4.46	3.28	1.96	2.55	2.94	37.12
1988	3.17	5.36	3.94	1.97	2.92	0.58	2.45	1.49	3.59	3.35	8.02	2.96	39.80
1989	2.21	4.01	4.68	4.78	10.14	7.86	4.90	7.68	4.56	8.71	4.82	0.97	65.32
1990	5.68	2.13	2.55	5.06	8.94	5.20	3.33	13.78	2.48	8.12	1.57	4.65	63.49
1991	4.17	1.83	3.84	3.29	2.33	1.81	2.22	8.68	4.11	2.50	1.27	4.96	41.01
1992	2.07	2.26	3.56	1.29	3.60	4.89	6.20	6.62	3.22	1.29	6.05	6.06	47.11
1993	2.57	3.61	5.39	2.95	1.38	1.33	1.98	1.60	4.13	4.75	3.30	4.65	37.64
1994	4.69		5.01	2.33	3.61	0.81	1.21	6.51	3.55	0.31	3.56	3.73	
1995	2.88	3.21	1.32	2.40	2.28	2.58	3.44	0.74	4.74	5.76	6.00	4.05	39.40
1996	5.44	3.37	3.37	6.14	3.36	5.07	6.55	1.62	6.41	6.29	2.67	8.91	59.20
1997	3.57		5.94	5.37	2.72	3.15	3.40	3.84	1.42	2.97	4.63	5.23	
1998	7.76		7.67	7.37	7.87	10.73	1.08	2.45	2.28	2.04	1.64	1.72	
1999	9.25	4.87	5.99	2.34	2.61	1.21	0.92	5.63	5.65	3.65	2.68	2.60	47.40
2000	3.01	2.12	4.67	5.80	2.95	6.74	4.10	3.65	4.82	0.18	4.22	2.97	45.23
2001	3.42	1.97	8.38	1.92	3.27	4.08	1.54	5.02	2.33	1.06	0.63	2.15	35.77
2002	2.34	0.89	4.43	3.85	3.28	3.63	1.11	5.19	4.59	4.91	4.62	4.41	43.25
POR= 19 YRS	4.02	2.69	4.59	3.68	4.07	3.98	3.28	4.55	3.55	3.34	3.84	3.76	45.35

WBAN : 04781

AVERAGE TEMPERATURE (°F) 2002 ISLIP, NY (ISP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	27.4	38.1	34.7	48.0	57.2	70.2	71.8	73.9	62.6	57.5	44.7	41.3	52.3
1985	26.3	32.9	41.9	50.8	60.5	65.4	73.4	71.8	66.9	55.9	48.4	32.1	52.2
1986	31.7	30.1	40.4	49.8	61.4	67.6	73.4	70.3	63.7	53.9	42.6	36.4	51.8
1987	30.5	30.3	41.1	49.9	58.0	69.2	74.9	70.9	65.1	51.0	45.7	36.9	52.0
1988	26.6	32.4	39.9	47.8	58.8	67.8	75.0	75.0	64.2	49.7	45.3	33.4	51.3
1989	34.6	31.4	38.2	47.4	58.6	69.9	72.7	73.1	65.0	54.4	42.6	24.8	51.1
1990	37.9	36.0	40.5	48.7	57.0	68.0	74.0	74.1	66.0	61.0	47.3	39.9	54.2
1991	32.2	36.7	42.7	52.0	64.1	70.5	74.8	74.5	64.3	56.0	45.8	37.3	54.2
1992	32.5	34.2	37.0	46.0	57.2	66.3	71.5	70.3	64.7	51.9	44.5	36.1	51.0
1993	34.6	28.4	36.8	49.4	60.8	69.0	75.7	73.1	65.4	52.3	44.0	35.2	52.1
1994	25.7		38.6	51.2	57.9	71.3	77.3	70.5	65.0	54.1	49.3	39.8	
1995	38.1	32.6	42.9	49.1	58.4	68.4	75.9	74.3	65.2	58.6	42.7	31.4	53.1
1996	30.4	32.3	36.2	48.9	57.9	68.1	71.1	72.0	66.4	53.4	40.3	39.0	51.3
1997	30.2	37.3	38.8	47.9	55.7	67.9	74.5	72.4	65.9	55.2	43.4	37.7	52.2
1998	39.1	38.7	42.0	50.2	61.3	67.3	75.3	75.7	68.6	56.0	45.9	40.0	55.0
1999	33.7	35.8	40.9	50.6	60.6	71.9	78.6	72.9	66.9	53.7	48.3	38.4	54.4
2000	29.5	34.0	43.2	47.0	59.7	68.4	70.7	71.4	64.5	53.9	43.7	29.6	51.3
2001	29.5	33.0	36.7	49.6	60.0	70.9	70.3	75.6	65.1	54.9	48.5	41.3	53.0
2002	37.7	36.9	41.9	52.3	57.6	68.1	75.6	74.5	67.3	54.0	43.8	33.5	53.6
POR= 19 YRS	31.8	33.9	39.7	49.2	59.2	68.7	74.0	72.9	65.4	54.5	45.0	36.0	52.5

HEATING DEGREE DAYS (base 65°F) 2002 ISLIP, NY (ISP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84							1162	773	933	501	237	29	
1984-85	0	0	119	228	601	729	1193	892	707	421	155	49	5094
1985-86	1	2	57	279	493	1012	1026	970	755	449	166	32	5242
1986-87	2	24	92	356	664	880	1064	964	736	447	257	25	5511
1987-88	0	7	59	427	572	867	1182	940	772	509	212	56	5603
1988-89	5	1	69	467	583	975	934	934	826	520	201	9	5524
1989-90	0	3	94	319	666	1239	833	807	751	488	244	26	5470
1990-91	3	2	71	193	524	771	1010	789	681	390	130	13	4577
1991-92	0	0	105	285	569	851	1001	891	865	563	249	26	5405
1992-93	4	4	82	400	607	888	935	1018	868	464	145	33	5448
1993-94	1	0	90	386	626	917	1210		811	409	225	10	
1994-95	0	1	40	332	462	774	828	903	678	470	206	18	4712
1995-96	0	0	67	208	664	1036	1067	941	883	477	259	20	5622
1996-97	1	0	64	352	732	797	1072	770	805	509	282	71	5455
1997-98	1	0	61	319	643	837	794	733	704	437	144	50	4723
1998-99	0	0	33	276	568	768	964	811	738	425	150	8	4741
1999-00	0	1	39	345	497	818	1093	890	667	535	194	46	5125
2000-01	1	2	106	335	635	1090	1091	888	868	454	185	16	5671
2001-02	3	0	69	313	486	730	841	778	710	407	239	48	4624
2002-	0	1	22	353	630	969							

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COOLING DEGREE DAYS (base 65°F) 2002 ISLIP, NY (ISP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0	0	0	0	2	189	217	282	53	3	0	0	746
1985	0	0	0	5	22	69	269	218	122	7	0	0	712
1986	0	0	0	0	64	115	270	194	60	19	0	0	722
1987	0	0	0	0	47	156	316	196	67	0	0	0	782
1988	0	0	0	0	25	145	320	319	55	2	0	0	866
1989	0	0	0	0	10	161	245	262	100	0	0	0	778
1990	0	0	0	7	1	123	290	287	108	73	0	0	889
1991	0	0	0	6	108	183	312	301	91	15	0	0	1016
1992	0	0	0	0	15	74	212	176	79	0	0	0	556
1993	0	0	0	0	23	161	339	259	110	0	2	0	894
1994	0	0	0	0	12	205	389	176	47	0	0	0	
1995	0	0	0	0	11	128	346	294	82	16	0	0	877
1996	0	0	0	0	42	121	197	224	112	0	0	0	696
1997	0	0	0	0	1	165	303	236	93	23	0	0	821
1998	0	0	0	0	39	125	331	338	149	4	0	0	986
1999	0	0	0	0	23	224	426	257	103	2	0	0	1035
2000	0	0	0	0	38	155	185	208	98	0	0	0	684
2001	0	0	0	0	34	201	175	335	78	7	0	0	830
2002	0	0	0	34	15	145	336	303	99	23	0	0	955

SNOWFALL (inches) 2002 ISLIP, NY (ISP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84							11.9	T	13.0	0.0	0.0	0.0	
1984-85	0.0	0.0	0.0	0.0	T	4.7	13.5	8.7	T	T	0.0	0.0	26.9
1985-86	0.0	0.0	0.0	0.0	T	2.1	2.6	10.4	0.1	T	0.0	0.0	15.2
1986-87	0.0	0.0	0.0	0.0	T	3.4	8.8	8.6	1.7	0.0	0.0	0.0	22.5
1987-88	0.0	0.0	0.0	0.0	1.1	4.2	10.7	0.1	3.4	0.0	0.0	0.0	19.5
1988-89	0.0	0.0	0.0	0.0	0.0	10.4	4.4	1.2	3.0	T	0.0	0.0	19.0
1989-90	0.0	0.0	0.0	0.0	7.6	0.2	2.0	2.0	4.2	3.0	0.0	0.0	19.0
1990-91	0.0	0.0	0.0	0.0	0.0	4.0	3.6	4.3	1.9	0.0	T	0.0	13.8
1991-92	0.0	0.0	0.0	0.0	0.0	2.0	2.3	1.5	7.6	T	0.0	0.0	13.4
1992-93	0.0	0.0	0.0	0.0	0.0	2.1	2.3	10.9	13.3	0.0	0.0	0.0	28.6
1993-94	0.0	0.0	0.0	0.0	T	3.3	8.8		5.0	0.0	T	0.0	
1994-95	0.0	0.0	0.0	0.0	T		T	5.1		0.0	0.0	0.0	5.1
1995-96	0.0	0.0	0.0	0.0	3.0	13.3	20.2	19.0	8.4	9.6	0.0	0.0	73.5
1996-97	0.0	0.0	0.0	0.0	T	1.2	3.3		3.7	2.0	0.0	0.0	
1997-98	0.0	0.0	0.0	0.0	T	1.0	T	T	1.6	T	0.0	0.0	2.6
1998-99	0.0	0.0	0.0	0.0	0.0	3.0	4.5	3.0	9.1	T	0.0	0.0	19.6
1999-00	T												
2000-01													
2001-02													
2002-													
POR= 15 YRS	0.0	0.0	0.0	0.0	0.8	3.8	5.7	4.9	4.4	0.8	T	0.0	20.4

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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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2002
ISLIP,
NEW YORK (ISP)

Long Island is the terminal moraine marking the southernmost advance of the ice sheet along the Atlantic Coast during the last ice age. The terrain is generally flat, with only a gradual rise in elevation from Long Island Sound on the northern shore and from the Atlantic Ocean on the southern shore toward the middle of the island. Islip is located about half-way out Long Island on the southern coast. The airport is located about seven miles to the northeast of the city. Islip is protected from flooding during periods of high tides by Fire Island, a natural barrier located about three miles offshore. Most of the air masses affecting Islip are continental in origin, however the ocean has a pronounced influence on the climate of the area.

A cool sea breeze blowing off the ocean during the summer months helps to alleviate the afternoon heat. There are an average of 7 days between June and September when the afternoon temperature exceeds 90 degrees, while farther inland there are 10 to 15 such days.

It is uncommon for the eye of a tropical storm to pass directly over Long Island. Tropical weather systems moving along the Atlantic Coast, however, are capable of producing episodes of heavy rain and strong winds in the late summer or fall.

The winter season is relatively mild. Below zero temperatures are reported on only one or two days in about half the winters. Temperatures of 10 degrees below zero or colder are extremely rare. The seasonal snowfall averages about 29 inches. Almost all of this snow falls between December and March. Coastal low pressure systems, Northeasters, are the principle source of this snow. These weather systems will occasionally produce a heavy snowfall. There are usually extended periods during the winter when the ground is bare of snow.

The average date of the last spring temperature of 32 degrees is April 27 and the average first fall occurrence is October 21. Inland locations would expect a shorter freeze-free season.

STATION LOCATION

ISLIP, NEW YORK

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE		ELEVATION ABOVE											AUTOMATED OBSERVING * EQUIPMENT	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
				NORTH	WEST	GROUND												
						SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER				
<u>AIRPORT</u> Control Tower Building Long Island MacArthur Airport	?	08/01/99	NA	40°47'	73°06'	b84	b20 c20	a5	a5						a3	b4 c4	a. Effective 9/5/63. b. Effective 12/15/64. c. Moved 125' W 4/18/67. First LCD published 1/1984. First LCD Annual 1986.	
Long Island McArthur AP	08/01/99	Present	NA	40°48'	73°06'	d141										S	ASOS Commissioned 08/01/99 d. Ground elevation.	

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