

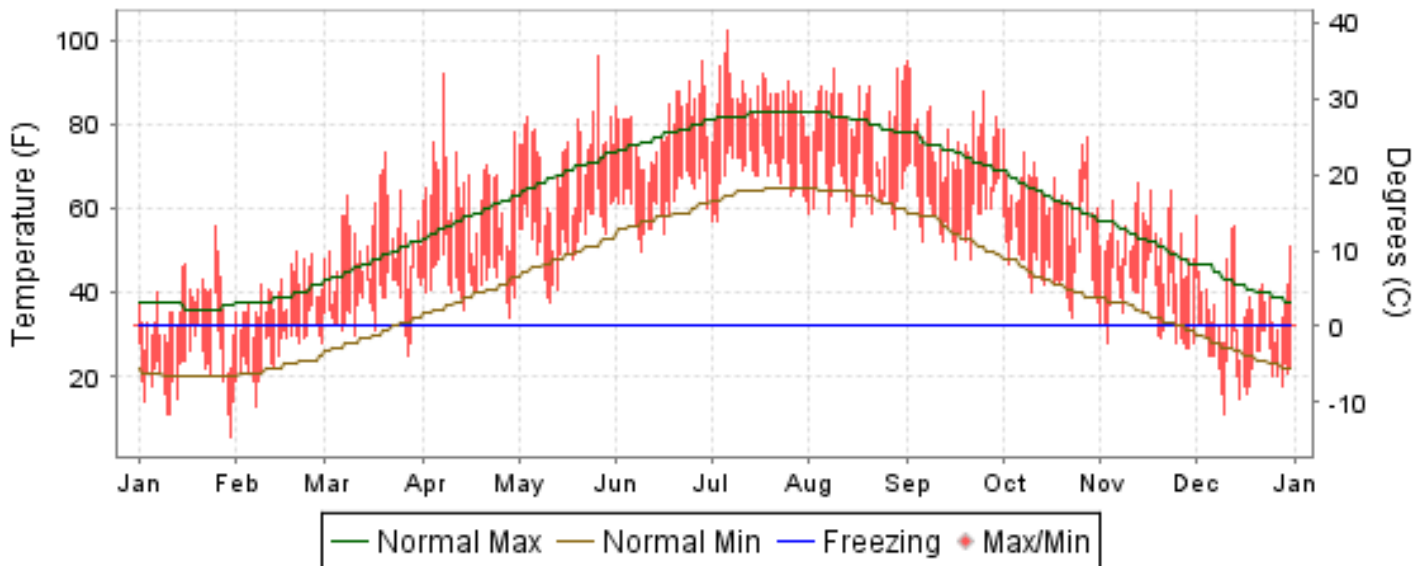


2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

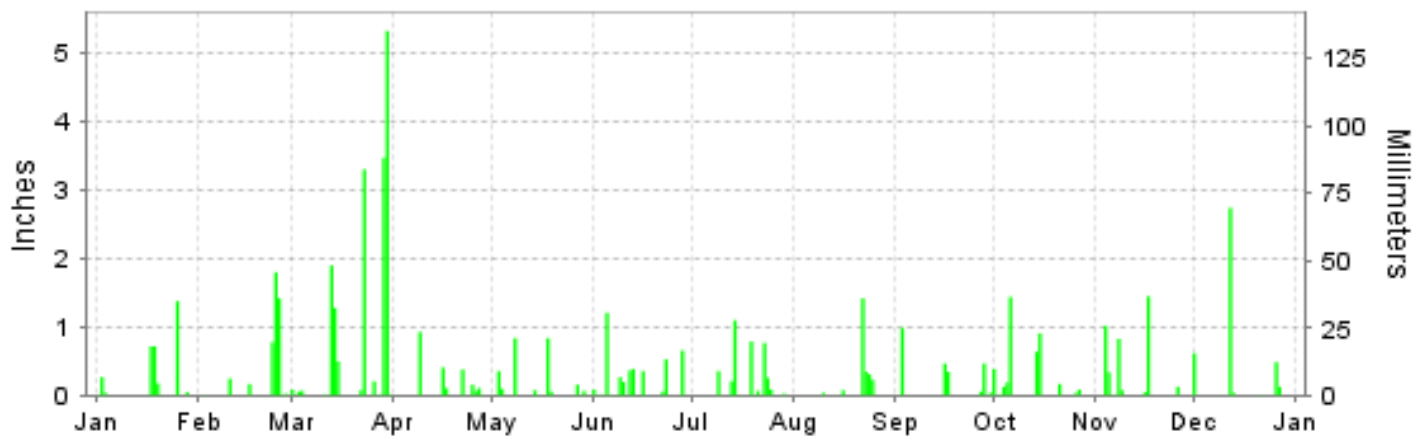
ISSN 0198-4594

PROVIDENCE, RHODE ISLAND (KPVD)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2010

PROVIDENCE (KPVJ)

LATITUDE: 41° 43'N LONGITUDE: -71° 25'W ELEVATION (FT): GRND: 52 BARO: 53 TIME ZONE: EASTERN (UTC -5) WBAN: 14765

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	36.5	39.5	53.4	64.3	72.5	80.0	86.8	82.7	76.9	64.5	52.8	38.2	62.3	
	HIGHEST DAILY MAXIMUM	56	50	73	92	96	95	102	94	95	79	66	58	102	
	DATE OF OCCURRENCE	25	20	20	07	26	28	06	31	01	01	13	01	JUL 06	
	MEAN DAILY MINIMUM	21.6	26.5	37.0	43.3	53.0	61.7	68.1	64.1	58.9	46.8	36.6	24.0	45.1	
	LOWEST DAILY MINIMUM	6	13	25	34	38	50	57	55	48	34	27	11	6	
	DATE OF OCCURRENCE	30	07	27	28	11	09	03+	28	21+	23	29+	10	JAN 30	
	AVERAGE DRY BULB	29.1	33.0	45.2	53.8	62.8	70.9	77.5	73.4	67.9	55.7	44.7	31.1	53.8	
	MEAN WET BULB	26.2	28.7	39.4	46.3	54.6	64.0	69.0	65.7	61.5	50.0	39.9	27.4	47.7	
	MEAN DEW POINT	18.6	20.1	31.1	37.4	47.6	59.6	64.4	61.0	56.8	43.8	32.0	19.7	41.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	1	1	2	8	4	2	0	0	0	0	18
	MAXIMUM <= 32°	9	2	0	0	0	0	0	0	0	0	0	8	19	
MINIMUM <= 32°	29	25	7	0	0	0	0	0	0	0	11	28	100		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1106	890	608	334	121	16	0	2	31	293	602	1043	5046	
	COOLING DEGREE DAYS	0	0	0	6	58	200	394	273	125	13	0	0	1069	
RH	MEAN (PERCENT)	66	63	64	59	63	71	69	68	70	67	64	64	66	
	HOUR 01 LST	73	68	71	71	73	82	81	81	82	75	71	70	75	
	HOUR 07 LST	72	68	67	61	64	70	67	69	72	70	70	72	69	
	HOUR 13 LST	57	53	51	46	49	57	53	52	55	53	52	52	53	
	HOUR 19 LST	65	63	64	59	65	73	72	70	74	70	64	64	67	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	2	0	0	1	1	0	0	2	0	0	1	7	
	THUNDERSTORMS	0	0	0	1	6	6	6	0	2	1	0	0	22	
CLOUDNESS	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.)	29.83	29.63	29.81	29.83	29.91	29.82	29.87	29.92	29.90	29.79	29.99	29.72	29.84	
	MEAN SEA-LEVEL PRESS. (IN.)	29.89	29.71	29.88	29.90	29.98	29.89	29.94	29.98	29.96	29.86	30.06	29.79	29.90	
WINDS	RESULTANT SPEED (MPH)	5.8	5.7	4.4	2.1	2.8	2.7	2.4	1.3	2.9	4.1	4.2	6.5	3.0	
	RES. DIR. (TENS OF DEGS.)	31	31	01	28	25	24	25	23	24	29	33	31	30	
	MEAN SPEED (MPH)	8.9	10.2	10.7	8.1	8.3	7.5	7.5	7.7	8.5	9.4	8.9	10.2	8.8	
	PREVAIL.DIR.(TENS OF DEGS.)	31	30	02	30	15	20	30	21	21	27	36	32	31	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	32	35	31	32	37	28	24	28	28	31	41	40	41	
	DIR. (TENS OF DEGS.)	29	01	09	28	29	30	32	03	25	29	01	01	01	
	DATE OF OCCURRENCE	29	10	14	29	04	28	26	23	04	21	08	27	NOV 08	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	48	44	43	45	48	36	32	38	36	45	53	54	54	
DIR. (TENS OF DEGS.)	17	16	29	29	28	22	31	04	01	29	02	02	02		
DATE OF OCCURRENCE	25	26	24	29	04	06	26	23	20	21	08	27	DEC 27		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.37	4.47	16.34	2.18	2.52	4.19	3.68	2.43	2.38	4.02	3.92	4.04	53.54	
	GREATEST 24-HOUR (IN.)	1.44	2.54	6.56	0.93	0.90	1.21	1.30	1.44	0.99	1.55	1.49	2.76	6.56	
	DATE OF OCCURRENCE	17-18	23-24	29-30	09	18-19	05	13-14	22-23	03	14-15	16-17	12-13	MAR 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	8	8	14	8	9	14	9	6	6	10	8	7	107	
PRECIPITATION 0.10	5	5	7	6	5	8	6	4	4	7	5	4	66		
PRECIPITATION 1.00	1	2	5	0	0	1	1	1	0	1	2	1	15		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	4.3	4.9	0.6	T	0.0	0.0	0.0	0.0	0.0	0.0	0.1	10.2	20.1	
	GREATEST 24-HOUR (IN.)	3.2	2.2	0.6	T	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.9	7.9	
	DATE OF OCCURRENCE	02	10	03	22+							08	26	DEC 26	
	MAXIMUM SNOW DEPTH (IN.)	3	2	0	0	0	0	0	0	0	0	T	9	9	
	DATE OF OCCURRENCE	03+	11	05+								07	27	DEC 27	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	2	0	0	0	0	0	0	0	0	0	2	5		

NORMALS, MEANS, AND EXTREMES PROVIDENCE (KPVJ)

LATITUDE: 41 ° 43'N LONGITUDE: -71 ° 25'W ELEVATION (FT): GRND: 52 BARO: 53 TIME ZONE: EASTERN (UTC -5) WBAN: 14765

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.1	39.3	47.7	58.1	68.5	77.3	82.6	80.9	73.4	62.9	52.4	42.1	60.2
	MEAN DAILY MAXIMUM	63	37.0	38.9	46.5	58.0	67.8	76.9	82.3	80.8	73.6	63.3	52.6	41.4	59.9
	HIGHEST DAILY MAXIMUM	57	69	72	85	98	96	97	102	104	100	86	78	77	104
	YEAR OF OCCURRENCE		2002	1985	1998	1976	2010	2008	2010	1975	1983	1979	1993	1998	AUG 1975
	MEAN OF EXTREME MAXS.	63	56.4	56.1	66.1	79.0	85.7	91.3	93.8	91.8	87.1	79.1	69.5	60.1	76.3
	NORMAL DAILY MINIMUM	30	20.3	22.5	30.0	39.1	48.8	57.9	64.1	62.8	54.5	43.1	35.1	25.6	42.0
	MEAN DAILY MINIMUM	63	20.7	22.3	29.5	38.9	48.1	57.5	63.8	62.5	54.5	43.6	35.4	25.3	41.8
	LOWEST DAILY MINIMUM	57	-13	-7	1	14	29	41	0	40	33	20	6	-10	-13
	YEAR OF OCCURRENCE		1976	1979	1967	1954	1956	1980	1996	1965	1980	1976	1989	1980	JAN 1976
	MEAN OF EXTREME MINS.	63	2.6	5.1	14.1	27.5	36.7	46.3	54.0	50.9	40.0	29.7	21.1	8.1	28.0
	NORMAL DRY BULB	30	28.7	30.9	38.8	48.6	58.7	67.6	73.3	71.9	64.0	53.0	43.8	33.8	51.1
	MEAN DRY BULB	63	28.9	30.6	38.1	48.4	58.0	67.4	73.1	71.7	64.0	53.5	44.0	33.4	50.9
	MEAN WET BULB	27	25.1	26.3	32.2	41.2	50.9	60.7	65.8	65.1	58.6	48.1	39.2	29.7	45.2
	MEAN DEW POINT	27	20.4	21.3	27.6	36.7	47.5	57.9	63.4	63.0	56.3	44.9	35.2	25.2	41.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.7	2.0	4.0	2.7	0.7	0.0	0.0	0.0	10.2
	MAXIMUM <= 32	30	10.4	7.3	1.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.1	24.3
	MINIMUM <= 32	30	27.3	23.6	18.8	4.6	0.1	0.0	0.0	0.0	0.0	2.8	12.6	24.1	113.9
MINIMUM <= 0	30	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	
H/C	NORMAL HEATING DEG. DAYS	30	1125	965	817	494	221	44	3	9	101	377	637	961	5754
	NORMAL COOLING DEG. DAYS	30	0	0	0	3	25	122	265	223	71	5	0	0	714
RH	NORMAL (PERCENT)	30	65	63	63	63	69	71	72	73	74	71	69	67	68
	HOURLY 01 LST	30	70	69	70	71	79	83	84	86	85	81	75	72	77
	HOURLY 07 LST	30	72	71	72	70	74	76	77	81	83	81	78	74	76
	HOURLY 13 LST	30	57	54	52	49	54	57	56	57	57	54	56	57	55
	HOURLY 19 LST	30	65	62	62	61	65	68	68	73	75	72	69	67	67
S	PERCENT POSSIBLE SUNSHINE	42	56	58	58	57	58	61	63	62	62	61	50	52	58
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	47	1.9	2.0	2.2	2.0	1.9	2.2	1.5	1.3	1.4	2.5	1.6	2.1	22.6
	THUNDERSTORMS	63	0.2	0.3	0.7	1.4	2.6	3.7	4.4	3.7	1.7	1.0	0.7	0.2	20.6
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	42	5.0	5.0	5.3	5.3	5.4	5.1	5.0	4.8	4.6	4.3	5.0	4.9	5.0
	MIDNIGHT-MIDNIGHT (OKTAS)	31	4.6	4.5	4.7	4.8	5.0	4.9	4.9	4.6	4.5	4.2	4.8	4.7	4.7
	MEAN NO. DAYS WITH: CLEAR	42	9.5	8.0	8.4	7.3	6.5	6.6	6.7	8.4	9.4	11.0	8.3	8.3	98.4
	PARTLY CLOUDY	42	6.8	7.1	7.7	8.2	9.9	10.3	11.9	10.3	8.1	7.9	6.9	7.8	102.9
	CLOUDY	42	14.7	13.2	14.9	14.5	14.6	13.1	12.4	12.3	12.4	12.1	14.9	14.9	164.0
PR	MEAN STATION PRESSURE(IN)	27	29.96	29.94	29.91	29.90	29.91	29.89	29.91	29.95	30.00	29.99	29.96	29.97	29.94
	MEAN SEA-LEVEL PRES. (IN)	27	30.03	30.01	30.01	29.97	29.98	29.95	29.97	30.02	30.06	30.06	30.06	30.04	30.01
WINDS	MEAN SPEED (MPH)	27	9.9	10.3	10.9	10.6	9.8	9.0	8.7	8.3	8.3	8.8	9.3	9.7	9.5
	PREVAIL.DIR.(TENS OF DEGS)	38	30	31	31	17	17	17	23	22	23	28	30	31	30
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	45	43	46	41	38	38	39	35	39	40	44	44	46
	DIR. (TENS OF DEGS)		02	21	29	13	22	36	32	34	32	00	36	20	29
	YEAR OF OCCURRENCE		2005	2008	1997	2007	2000	1997	2006	2002	2002	1996	2006	2009	MAR 1997
	MAXIMUM 3-SECOND SPEED (MPH)	15	60	54	59	61	48	51	51	49	47	51	53	56	61
	DIR. (TENS OF DEGS)		02	20	28	13	28	36	00	26	19	24	02	20	13
YEAR OF OCCURRENCE		2005	2000	1997	2007	2010	1997	1996	2007	2005	2006	2010	2009	APR 2007	
PRECIPITATION	NORMAL (IN)	30	4.37	3.45	4.43	4.16	3.66	3.38	3.17	3.90	3.70	3.69	4.40	4.14	46.45
	MAXIMUM MONTHLY (IN)	57	11.66	7.20	16.34	12.74	8.38	11.08	10.52	11.12	10.99	15.38	11.01	10.75	16.34
	YEAR OF OCCURRENCE		1979	1984	2010	1983	1984	1982	2009	1955	2008	2005	1983	1969	MAR 2010
	MINIMUM MONTHLY (IN)	57	0.50	0.39	0.56	1.48	0.71	0.17	0.39	0.71	0.77	0.40	0.41	0.58	0.17
	YEAR OF OCCURRENCE		1970	1987	1981	1966	1964	1999	2002	1984	1959	1994	2001	1955	JUN 1999
	MAXIMUM IN 24 HOURS (IN)	57	3.34	3.14	6.56	4.45	5.17	5.03	4.83	6.71	4.89	6.63	4.18	3.85	6.71
	YEAR OF OCCURRENCE		1962	1978	2010	1983	1984	1984	1976	1979	1961	1962	1983	1969	AUG 1979
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.2	9.8	12.3	11.5	11.8	10.5	8.8	9.2	8.9	8.9	10.0	12.0	124.9
PRECIPITATION >= 1.00	30	1.3	0.9	1.3	1.1	0.7	0.9	0.8	0.9	1.0	1.0	1.4	1.1	12.4	
SNOWFALL	NORMAL (IN)	30	10.6	9.0	5.2	0.7	0.3	0.0	0.0	0.0	0.0	0.1	1.4	5.6	32.9
	MAXIMUM MONTHLY (IN)	56	37.2	30.9	31.6	7.6	7.0	T	0.0	0.0	0.0	2.5	8.0	21.7	37.2
	YEAR OF OCCURRENCE		1996	1962	1956	1982	1977	2007	T	0.0	0.0	1979	1989	2009	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	56	20.8	27.6	16.9	7.6	7.0	T	0.0	0.0	0.0	2.5	8.0	14.3	27.6
	YEAR OF OCCURRENCE'		1996	1978	1960	1982	1977	2007	T	0.0	0.0	1979	1989	2009	FEB 1978
	MAXIMUM SNOW DEPTH (IN)	61	20	30	20	10	2	0	0	0	0	1	7	14	30
	YEAR OF OCCURRENCE		2005	1961	1956	1970	1977	T	0	0	0	1979	1989	2009	FEB 1961
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.0	2.6	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	9.3	

PRECIPITATION (inches) 2010 PROVIDENCE (KPVD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	0.77	4.79	0.56	4.10	1.92	2.31	3.75	2.65	2.58	3.38	3.20	6.36	36.37
1982	6.09	3.08	3.76	3.64	1.61	11.08	3.51	3.67	3.61	3.08	4.32	1.81	49.26
1983	4.32	4.81	8.84	12.74	4.67	1.91	2.14	2.71	2.16	4.50	11.01	7.71	67.52
1984	2.00	7.20	5.77	4.30	8.38	4.09	5.16	0.71	1.77	4.25	1.95	3.16	48.74
1985	1.18	1.57	3.08	1.65	4.76	4.70	2.88	8.57	1.69	1.78	7.14	1.42	40.42
1986	5.88	3.18	2.86	2.10	2.29	3.27	5.95	3.29	0.97	2.48	5.77	8.09	46.13
1987	4.73	0.39	5.62	6.91	1.80	2.00	1.20	2.58	7.47	2.28	3.40	2.29	40.67
1988	2.69	5.29	4.09	3.11	2.83	0.91	5.73	0.94	2.38	1.77	7.60	1.03	38.37
1989	1.17	2.69	4.13	5.30	6.07	5.84	5.59	6.14	4.75	8.37	4.35	1.66	56.06
1990	5.01	2.93	2.01	5.57	5.70	1.13	3.52	3.74	2.28	4.96	2.45	5.48	44.78
1991	3.44	2.31	6.61	4.80	3.30	0.93	2.76	5.98	5.09	2.65	4.65	3.17	45.69
1992	4.82	2.10	4.04	2.34	1.42	4.61	3.59	6.06	5.09	1.53	5.05	6.83	47.48
1993	2.42	5.06	6.99	5.02	1.12	1.40	2.18	1.23	4.08	3.55	3.35	5.76	42.16
1994	5.53	2.10	7.19	2.07	2.98	2.70	1.34	6.34	4.12	0.40	5.34	4.58	44.69
1995	3.67	3.14	2.03	3.34	2.83	2.89	1.17	1.80	4.06	6.37	4.76	2.18	38.24
1996	5.02	2.19	2.71	4.88	2.44	2.17	5.57	2.19	5.72	6.20	2.38	6.59	48.06
1997	4.27	1.89	4.68	3.25	2.68	2.23	0.96	6.32	0.99	1.80	6.06	2.84	37.97
1998	6.55	5.85	5.86	4.91	6.05	9.61	1.37	2.39	2.30	3.78	2.76	1.27	52.70
1999	6.70	5.45	3.33	1.54	4.25	0.17	0.82	3.25	7.00	4.51	2.85	2.39	42.26
2000	4.19	2.74	5.37	5.06	3.72	4.78	3.64	2.41	3.79	1.31	4.73	4.26	46.00
2001	2.40	1.96	8.78	2.04	3.96	6.72	1.92	4.50	4.40	0.64	0.41	2.46	40.19
2002	2.76	1.72	4.84	3.08	4.97	3.32	0.39	1.91	5.26	3.49	5.66	4.94	42.34
2003	2.04	3.75	5.18	4.35	3.13	5.51	3.62	5.61	3.38	5.51	1.76	6.43	50.27
2004	1.52	2.10	3.50	6.58	2.45	1.44	3.23	6.39	6.95	2.13	4.14	4.90	45.33
2005	4.69	3.28	5.60	4.92	3.59	0.64	1.03	4.57	4.28	15.38	5.60	4.34	57.92
2006	5.11	2.75	0.57	3.19	7.26	9.24	2.05	3.74	3.18	7.12	7.69	2.40	54.30
2007	3.51	2.33	6.48	7.92	2.42	3.23	3.96	1.08	2.55	1.81	2.89	4.63	42.81
2008	2.93	7.04	6.47	4.05	1.95	2.48	5.28	1.85	10.99	1.49	5.33	7.26	57.12
2009	3.94	1.99	2.86	5.87	3.29	3.61	10.52	2.80	2.27	7.13	4.42	6.15	54.85
2010	3.37	4.47	16.34	2.18	2.52	4.19	3.68	2.43	2.38	4.02	3.92	4.04	53.54
POR= 63 YRS	3.93	3.50	4.57	4.13	3.60	3.15	3.10	3.80	3.70	3.77	4.37	4.27	45.89

WBAN : 14765

AVERAGE TEMPERATURE (°F) 2010 PROVIDENCE (KPVD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	20.3	37.4	38.7	51.4	58.5	69.4	75.6	70.0	62.4	49.1	43.0	31.1	50.6
1982	21.5	31.5	38.8	47.8	58.9	63.9	73.6	69.2	64.1	53.2	47.5	38.6	50.7
1983	31.4	32.9	40.4	49.9	56.9	70.2	76.6	74.3	69.6	55.3	46.0	32.5	53.0
1984	26.4	37.1	33.8	47.6	57.4	69.1	71.5	73.5	62.1	56.3	43.6	37.9	51.4
1985	22.5	32.1	40.8	51.0	60.2	64.8	73.0	71.1	65.2	54.6	45.9	30.4	51.0
1986	31.1	29.0	39.9	49.4	59.4	66.4	71.0	69.3	62.3	53.0	41.6	35.4	50.7
1987	29.0	28.6	39.8	48.4	59.3	68.4	72.2	69.6	64.3	51.4	43.0	35.1	50.8
1988	26.8	31.8	39.4	47.0	58.0	66.9	74.3	75.3	63.0	48.9	45.2	32.4	50.8
1989	33.8	29.9	37.5	46.2	59.3	68.7	72.3	72.1	65.3	54.1	42.5	21.8	50.3
1990	36.3	34.3	40.1	48.1	56.0	67.7	73.0	73.5	63.7	58.6	46.5	39.5	53.1
1991	29.6	35.1	41.3	51.8	63.9	69.3	74.2	73.6	63.1	56.1	45.4	36.3	53.3
1992	31.4	33.0	36.6	46.5	57.6	67.3	70.3	70.1	64.0	51.7	43.0	34.2	50.5
1993	31.4	26.3	35.8	49.6	61.8	69.3	74.5	73.8	65.1	51.5	44.0	33.7	51.4
1994	22.7	25.8	38.8	51.4	56.5	69.4	76.2	69.9	63.0	54.2	48.5	38.4	51.2
1995	36.0	29.4	41.2	48.4	57.3	68.3	75.8	73.5	62.8	57.0	40.7	29.8	51.7
1996	28.7	29.6	35.0	48.3	57.4	68.1	71.0	71.0	64.1	52.1	40.0	38.6	50.7
1997	29.3	36.5	37.8	47.1	55.4	68.1	73.7	70.6	64.0	51.8	41.0	34.2	50.8
1998	35.1	37.0	41.2	49.8	61.1	66.0	73.5	73.3	66.3	54.1	43.5	38.5	53.3
1999	30.2	34.8	39.9	50.0	59.8	70.5	76.6	72.0	66.5	52.4	47.4	36.8	53.1
2000	27.7	34.0	43.5	47.3	58.5	67.8	70.5	70.2	63.4	53.4	43.4	28.9	50.7
2001	29.0	31.9	36.3	49.1	60.1	70.5	69.9	74.3	64.9	54.2	47.6	39.3	52.3
2002	35.2	35.6	40.2	51.0	56.6	66.3	75.6	75.3	67.8	52.9	42.9	33.0	52.7
2003	25.1	26.2	38.3	45.4	55.2	65.3	73.5	74.9	66.3	51.8	46.6	36.1	50.4
2004	21.4	33.0	39.2	49.6	59.3	66.7	71.5	71.3	65.4	53.2	43.5	34.4	50.7
2005	27.5	31.3	34.8	50.0	53.4	69.7	74.3	76.5	68.3	55.3	45.8	32.4	51.6
2006	37.2	31.7	39.0	50.5	58.6	68.7	76.2	72.7	63.8	53.9	49.3	40.7	53.5
2007	34.1	27.1	38.1	46.8	60.8	68.3	73.8	73.2	67.5	59.6	42.8	32.8	52.1
2008	33.3	32.9	39.5	51.4	57.7	71.3	76.4	70.2	65.4	52.2	42.6	35.3	52.4
2009	24.2	32.9	37.7	49.9	58.7	64.5	70.4	73.9	63.1	52.0	49.0	33.0	50.8
2010	29.1	33.0	45.2	53.8	62.8	70.9	77.5	73.4	67.9	55.7	44.7	31.1	53.8
POR= 63 YRS	28.9	30.6	38.1	48.4	58.0	67.4	73.1	71.7	64.0	53.5	44.0	33.4	50.9

HEATING DEGREE DAYS (base 65°F) 2010 PROVIDENCE (KPV D)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	0	20	119	486	651	1044	1343	932	802	510	190	91	6188
1982-83	1	26	78	363	518	809	1038	892	755	449	254	13	5196
1983-84	0	4	62	323	563	1001	1190	802	961	513	236	36	5691
1984-85	1	0	125	270	637	832	1309	914	743	417	177	63	5488
1985-86	0	6	78	321	567	1065	1045	999	772	460	216	57	5586
1986-87	14	25	113	380	697	911	1111	1014	772	494	228	23	5782
1987-88	2	25	70	414	653	921	1177	954	787	532	238	67	5840
1988-89	8	10	89	491	587	1003	960	975	847	557	181	22	5730
1989-90	2	9	89	332	668	1329	882	854	761	511	275	24	5736
1990-91	6	0	107	242	549	781	1090	829	726	400	121	29	4880
1991-92	1	0	125	275	581	884	1034	919	876	549	246	27	5517
1992-93	11	4	100	404	652	951	1036	1077	901	455	118	32	5741
1993-94	1	0	102	413	623	966	1307	1092	805	401	263	17	5990
1994-95	0	5	85	326	487	815	892	990	731	493	244	22	5090
1995-96	0	0	111	245	721	1082	1116	1018	921	494	265	18	5991
1996-97	0	4	83	389	743	814	1098	794	836	529	289	77	5656
1997-98	3	2	83	410	713	948	919	776	738	451	149	61	5253
1998-99	0	0	45	329	636	816	1072	837	773	441	172	14	5135
1999-00	1	5	43	384	519	866	1148	892	659	524	219	59	5319
2000-01	2	7	120	355	642	1115	1111	922	883	473	193	15	5838
2001-02	3	0	72	334	515	790	918	819	762	424	268	69	4974
2002-03	0	2	23	392	659	984	1231	1080	818	580	297	77	6143
2003-04	0	1	31	403	549	893	1345	921	796	457	197	52	5645
2004-05	2	4	57	358	639	943	1157	936	928	448	352	42	5866
2005-06	6	0	39	321	567	1004	856	928	797	427	217	38	5200
2006-07	0	5	77	342	467	748	948	1055	823	541	178	33	5217
2007-08	0	8	38	203	662	993	972	924	782	404	227	19	5232
2008-09	0	2	72	391	665	914	1256	890	840	457	208	63	5758
2009-10	6	3	91	396	474	988	1106	890	608	334	121	16	5033
2010-	0	2	31	293	602	1043							

WBAN : 14765

COOLING DEGREE DAYS (base 65°F) 2010 PROVIDENCE (KPV D)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1981	0	0	0	2	33	152	335	183	47	0	0	0	752
1982	0	0	0	0	11	64	276	165	59	3	2	0	580
1983	0	0	0	1	8	177	367	298	206	30	0	0	1087
1984	0	0	0	0	6	164	206	272	47	7	0	0	702
1985	0	0	0	5	34	65	256	203	90	5	0	0	658
1986	0	0	0	0	51	105	207	164	38	14	0	0	579
1987	0	0	0	0	57	130	231	177	53	0	0	0	648
1988	0	0	0	0	26	131	302	336	37	2	0	0	834
1989	0	0	0	0	10	141	237	237	103	0	0	0	728
1990	0	0	0	8	1	114	262	272	74	49	2	0	782
1991	0	0	0	12	96	166	295	276	73	8	0	0	926
1992	0	0	0	0	27	103	183	169	75	1	0	0	558
1993	0	0	0	0	26	167	303	281	110	1	1	0	889
1994	0	0	0	0	7	155	352	163	30	0	0	0	707
1995	0	0	0	0	12	128	344	272	53	4	0	0	813
1996	0	0	0	3	36	117		200	65	0	0	0	
1997	0	0	0	0	0	177	281	184	63	10	0	0	715
1998	0	0	8	0	36	96	270	266	93	0	0	0	769
1999	0	0	0	0	18	185	366	229	96	0	0	0	894
2000	0	0	0	0	27	147	179	173	77	1	0	0	604
2001	0	0	0	1	48	190	161	293	74	10	0	0	777
2002	0	0	0	14	16	118	335	327	112	24	0	0	946
2003	0	0	0	0	0	91	272	310	76	0	0	0	749
2004	0	0	0	0	24	111	212	205	76	0	0	0	628
2005	0	0	0	2	0	189	300	365	145	24	0	0	1025
2006	0	0	0	0	25	156	355	251	49	3	0	0	839
2007	0	0	0	0	54	140	280	272	120	42	0	0	908
2008	0	0	0	1	6	214	363	172	92	3	0	0	851
2009	0	0	0	10	21	55	181	286	38	0	0	0	591
2010	0	0	0	6	58	200	394	273	125	13	0	0	1069

SNOWFALL (inches) 2010 PROVIDENCE (KPV D)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	0.0	0.0	0.0	T	T	16.4	13.4	4.3	5.7	7.6	0.0	0.0	47.4
1982-83	0.0	0.0	0.0	0.0	0.0	7.3	3.8	21.3	T	T	0.0	0.0	32.4
1983-84	0.0	0.0	0.0	0.0	T	4.5	17.9	T	13.7	T	0.0	0.0	36.1
1984-85	0.0	0.0	0.0	0.0	T	2.0	9.8	10.0	0.6	T	0.0	0.0	22.4
1985-86	0.0	0.0	0.0	0.0	1.8	2.6	0.7	13.0	0.5	T	T	0.0	18.6
1986-87	0.0	0.0	0.0	0.0	4.4	8.0	21.5	4.7	1.6	1.1	0.0	0.0	41.3
1987-88	0.0	0.0	0.0	0.0	8.0	7.8	13.5	6.7	2.7	T	0.0	0.0	38.7
1988-89	0.0	0.0	0.0	0.0	T	1.2	0.2	7.3	1.9	0.3	0.0	0.0	10.9
1989-90	0.0	0.0	0.0	0.0	8.0	15.8	10.8	10.5	9.3	1.8	0.0	0.0	56.2
1990-91	0.0	0.0	0.0	0.0	T	6.9	6.4	6.0	5.3	0.0	0.0	0.0	24.6
1991-92	0.0	0.0	0.0	0.0	T	4.8	2.4	4.9	8.2	2.0	0.0	0.0	22.3
1992-93	0.0	0.0	0.0	T	T	3.6	5.4	12.7	17.8	0.2	0.0	0.0	39.7
1993-94	0.0	0.0	0.0	0.0	T	10.1	18.0	25.8	9.6	0.0	T	0.0	63.5
1994-95	0.0	0.0	0.0	0.0	0.7	0.3	3.0	8.4	T	0.1	0.0	0.0	12.5
1995-96	0.0	0.0	0.0	0.0	4.0		37.2						
1996-97													
1997-98					0.2		1.6	0.1	0.3	T			
1998-99							6.5	12.8	12.2	T			
1999-00							6.9	6.8	2.6				
2000-01							9.7	10.8	10.3	T	0.0	0.0	
2001-02	0.0	0.0	0.0	0.0	0.0	1.5	5.6	0.6	2.5	T	0.0	0.0	10.2
2002-03	0.0	0.0	0.0	0.0	5.8	12.0	3.9	24.7	7.8	2.1	0.0	0.0	56.3
2003-04	0.0	0.0	0.0	T	0.0	20.4	11.0	3.1	6.5	T	0.0	0.0	41.0
2004-05	0.0	0.0	0.0	0.0	3.8	7.9	36.7	13.9	9.9	0.0	0.0	0.0	72.2
2005-06	0.0	0.0	0.0	T	2.0	8.8	6.9	9.8	6.2	0.2	0.0	0.0	33.9
2006-07	0.0	0.0	0.0	0.0	0.0	0.8	1.2	7.3	5.8	T	0.0	T	15.1
2007-08	0.0	0.0	0.0	0.0	T	14.4	2.7	6.2	1.2	0.0	0.0	0.0	24.5
2008-09	0.0	0.0	0.0	0.0	T	20.6	14.9	3.9	11.6	0.0	0.0	0.0	51.0
2009-10	0.0	0.0	0.0	0.0	0.0	21.7	4.3	4.9	0.6	T	0.0	0.0	31.5
2010-	0.0	0.0	0.0	0.0	0.1	10.2							
POR= 58 YRS	0.0	0.0	0.0	0.1	1.0	7.4	10.0	9.7	6.9	0.6	0.1	T	35.8

WBAN : 14765

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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2010 PROVIDENCE RHODE ISLAND (KPVD)

The proximity to Narragansett Bay and the Atlantic Ocean plays an important part in determining the climate for Providence and vicinity. In winter, the temperatures are modified considerably, and many major snowstorms change to rain before reaching the area. In summer, many days that could be uncomfortably warm are cooled by refreshing sea breezes. At other times of the year, sea fog may be advected in over land by onshore winds. In fact, most cases of dense fog are produced this way, but the number of such days is few, averaging two or three days per month. In early fall, severe coastal storms of tropical origin sometimes bring destructive winds to this area. Even at other times of the year, it is usually coastal storms which produce the severest weather.

The temperature for the entire year averages around 50 degrees with 70 degree temperatures common from near the end of May to the latter part of September. During this period, there may be several days reaching 90 degrees or more. Temperatures of 100 degrees and more are rare.

Freezing temperatures occur on the average about 125 days per year. They become a common daily occurrence in the latter part of November, and become less frequent near the end of March. The average date for the last freeze in spring is mid-April, while the average date for the first freeze in fall is late October, making the growing season about 195 days in length. Sub-zero weather in winter seldom occurs, averaging less than one day for December and one or two days each for January and February.

Measurable precipitation occurs on about one day out of every three, and is fairly evenly distributed throughout the year. There is usually no definite dry season, but occasionally droughts do occur.

Thunderstorms are responsible for much of the rainfall from May through August. They usually produce heavy, and sometimes even excessive amounts of rainfall. However, since their duration is relatively short, damage is ordinarily light. The thunderstorms of summer are frequently accompanied by extremely gusty winds, which may result in some damage to property.

The first measurable snowfall of winter usually comes toward the end of November, and the last in spring is about the middle of March. Winters with over 50 inches of snow are not common. The area normally receives less than 25 inches. The month of greatest snowfall is usually February, but January and March are close seconds. It is unusual for the ground to remain well covered with snow for any long period of time.

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