

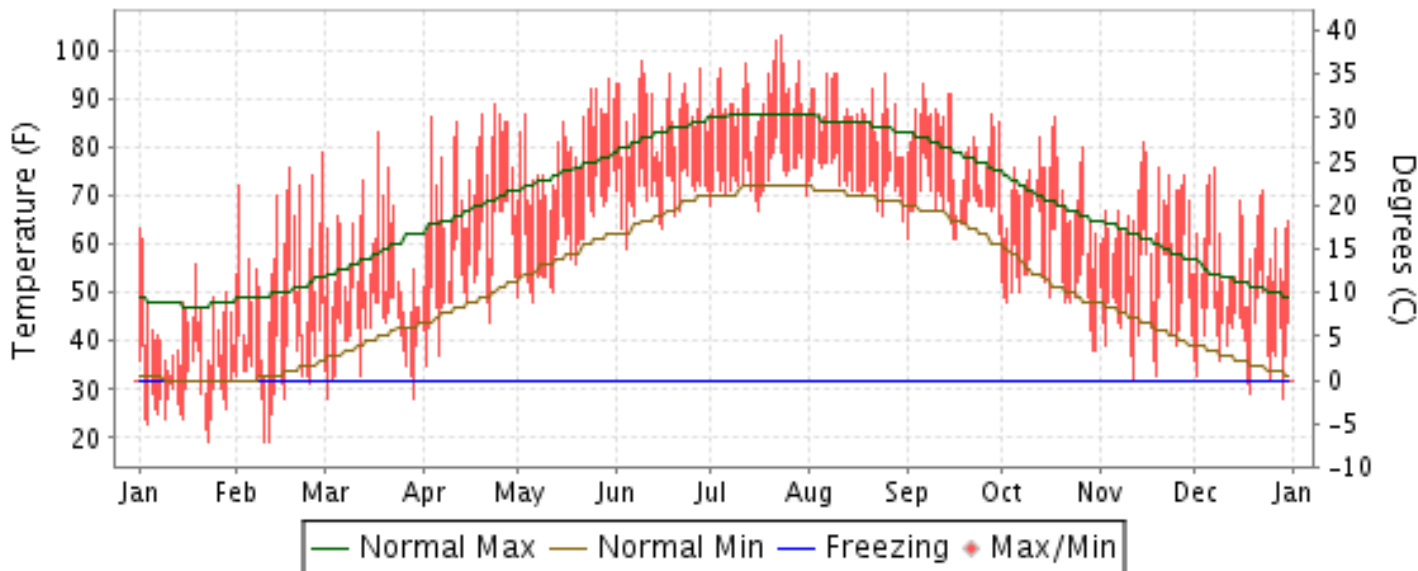


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

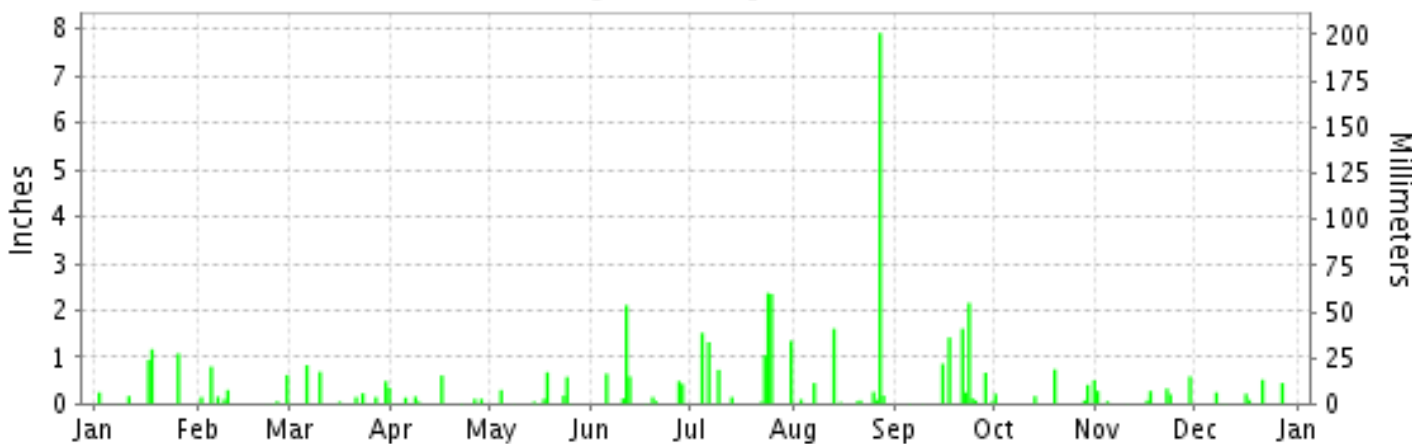
ISSN 0198-5345

## NORFOLK, VIRGINIA (KORF)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL  
OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## NORFOLK (KORF)

LATITUDE: 36° 54'N      LONGITUDE: -76° 11'W      ELEVATION (FT): GRND: 30 BARO: 69      TIME ZONE: EASTERN (UTC -5)      WBAN: 13737

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.8	55.9	57.2	73.2	79.6	87.2	90.8	87.0	81.9	71.0	66.0	59.2	71.0	
	HIGHEST DAILY MAXIMUM	63	79	83	89	94	98	103	95	93	86	81	76	103	
	DATE OF OCCURRENCE	01	28	18	24	30	09	23	25+	06	18	15	07	JUL 23	
	MEAN DAILY MINIMUM	29.2	35.2	41.3	53.5	60.1	70.4	73.7	72.9	67.8	53.5	46.7	41.5	53.8	
	LOWEST DAILY MINIMUM	19	19	28	35	48	59	67	65	61	38	32	28	19	
	DATE OF OCCURRENCE	23	11+	29+	02	06	04	16	31	17+	31+	12	29	FEB 11+	
	AVERAGE DRY BULB	36.0	45.6	49.3	63.4	69.9	78.8	82.3	80.0	74.9	62.3	56.4	50.4	62.4	
	MEAN WET BULB	32.7		44.1	56.2	62.5	69.7	73.6	72.2	69.2	56.2	50.9	46.0		
	MEAN DEW POINT	26.1		38.1	50.4	57.6	64.9	69.8	68.4	66.3	50.9	45.3	39.4		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	4	12	15	8	4	0	0	0	0	43
	MAXIMUM <= 32°	1	0	0	0	0	0	0	0	0	0	0	0	0	1
MINIMUM <= 32°	23	9	3	0	0	0	0	0	0	0	1	4	40		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	891	538	479	145	38	0	0	0	1	136	268	449	2945	
	COOLING DEGREE DAYS	0	1	1	103	197	422	543	471	303	57	17	2	2117	
RH	MEAN (PERCENT)	69	60	68	66	69	65	69	70	78	68	69	65	68	
	HOUR 01 LST	74	72	76	77	83	77	82	83	86	78	76	71	78	
	HOUR 07 LST	76	69	70	70	71	68	71	72	83	72	76	73	73	
	HOUR 13 LST	57	45	57	52	51	51	54	57	66	54	56	53	54	
	HOUR 19 LST	71	57	69	67	69	65	69	71	80	72	72	66	69	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	THUNDERSTORMS	0	0	3	4	7	8	11	7	3	1	0	0	44	
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.)	29.98	30.03	30.08	29.93	29.93	29.90	29.92	29.84	29.96	29.98	30.08	30.16	29.98	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	30.07	30.12	29.97	29.96	29.93	29.95	29.90	30.00	30.01	30.13	30.20	30.02	
WINDS	RESULTANT SPEED (MPH)	1.9	2.4	2.6	6.0	3.6	2.0	2.2	1.1	2.0	1.1	1.4	1.4	1.1	
	RES. DIR. (TENS OF DEGS.)	35	25	06	20	19	22	19	09	12	25	26	27	21	
	MEAN SPEED (MPH)	7.3	9.7	9.6	12.0	7.9	7.6	6.9	7.6	7.3	8.1	9.2	8.5	8.5	
	PREVAIL.DIR.(TENS OF DEGS.)	05	22	03	21	21	22	22	05	20	23	21	21	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	22	38	29	40	43	37	41	45	33	30	35	35	45	
	DIR. (TENS OF DEGS.)	05	23	02	22	22	21	20	03	03	22	04	21	03	
	DATE OF OCCURRENCE	31	28	01	05	18	27	04	27	16	20	04	07	AUG 27	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	32	47	37	53	56	45	49	56	41	39	45	44	56	
DIR. (TENS OF DEGS.)	21	23	03	22	21	21	20	33	03	23	03	21	33		
DATE OF OCCURRENCE	02	28	01	05	18	27	04	27	16	20	04	07	AUG 27		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.64	2.24	2.96	1.21	1.95	4.63	10.89	10.79	7.26	2.13	1.84	1.56	51.10	
	GREATEST 24-HOUR (IN.)	2.11	0.80	0.83	0.61	0.68	2.70	4.49	7.92	2.28	0.74	0.59	0.53	7.92	
	DATE OF OCCURRENCE	17-18	05	06	16	18	11-12	24-25	27	22-23	19	29	20-21	AUG 27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	8	10	10	8	9	10	10	11	12	6	8	8	110	
PRECIPITATION 0.10	5	6	7	5	5	7	8	6	7	5	5	4	70		
PRECIPITATION 1.00	2	0	0	0	0	1	6	2	3	0	0	0	14		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.2	3.8	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	
	GREATEST 24-HOUR (IN.)	0.2	3.3	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	
	DATE OF OCCURRENCE	08	10	28+		18								FEB 10	
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	1	0	0	0	0	0	0	0	0	0	0	1		

# NORMALS, MEANS, AND EXTREMES NORFOLK (KORF)

LATITUDE:  
36° 54'N

LONGITUDE:  
-76° 11'W

ELEVATION (FT):  
GRND: 30 BARO: 69

TIME ZONE:  
EASTERN (UTC -5)

WBAN: 13737

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	47.8	50.3	57.8	67.0	74.9	82.8	86.8	84.7	79.4	69.4	60.9	52.3	67.8	
	MEAN DAILY MAXIMUM	66	48.8	50.7	58.1	68.1	75.9	83.4	87.4	85.6	79.9	70.3	61.4	52.4	68.5	
	HIGHEST DAILY MAXIMUM	63	80	82	88	97	100	101	105	104	99	95	86	80	105	
	YEAR OF OCCURRENCE		2002	1997	1990	1960	1991	2008	2010	1980	1983	1954	1974	1991	JUL 2010	
	MEAN OF EXTREME MAXS.	66	70.7	72.4	80.0	86.8	90.8	95.2	97.1	95.5	91.9	84.8	78.6	72.1	84.7	
	NORMAL DAILY MINIMUM	30	32.3	33.6	40.1	47.8	57.6	66.2	71.4	70.1	64.8	52.8	43.7	36.1	51.4	
	MEAN DAILY MINIMUM	66	32.5	33.4	40.0	48.5	57.6	66.0	70.9	70.1	64.7	53.6	43.8	35.7	51.4	
	LOWEST DAILY MINIMUM	63	-3	8	18	28	36	45	54	49	45	27	20	7	-3	
	YEAR OF OCCURRENCE		1985	1965	2009	1982	1966	1967	1979	1982	1967	1976	1950	1983	JAN 1985	
	MEAN OF EXTREME MINS.	66	17.5	20.1	27.0	35.4	44.7	54.6	62.0	60.8	52.8	38.6	29.5	21.3	38.7	
	NORMAL DRY BULB	30	40.1	42.0	49.0	57.4	66.3	74.5	79.1	77.4	72.1	61.1	52.3	44.2	59.6	
	MEAN DRY BULB	66	40.7	42.1	49.1	58.3	66.8	74.8	79.2	77.9	72.3	62.0	52.6	44.1	60.0	
	MEAN WET BULB	28	35.6	37.6	42.7	51.0	59.5	67.9	71.9	71.3	66.2	56.2	47.8	39.3	53.9	
	MEAN DEW POINT	28	32.0	32.9	39.2	47.3	56.8	65.8	70.3	69.7	64.3	53.7	44.0	35.5	51.0	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.4	1.7	6.8	12.9	9.2	2.6	0.1	0.0	0.0	33.7	
	MAXIMUM <= 32	30	2.4	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.5	
MINIMUM <= 32	30	15.1	13.3	5.1	0.3	0.0	0.0	0.0	0.0	0.0	0.1	2.7	11.5	48.1		
MINIMUM <= 0	30	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
H/C	NORMAL HEATING DEG. DAYS	30	759	638	488	247	66	4	0	0	8	152	375	631	3368	
	NORMAL COOLING DEG. DAYS	30	1	2	8	35	119	303	453	400	235	45	10	1	1612	
RH	NORMAL (PERCENT)	30	68	66	66	64	70	71	73	75	74	72	70	69	70	
	HOURLY 01 LST	30	72	72	73	73	80	83	84	85	84	81	76	74	78	
	HOURLY 07 LST	30	74	75	75	73	77	79	81	84	83	82	78	76	78	
	HOURLY 13 LST	30	59	56	55	50	56	57	58	61	61	58	57	59	57	
	HOURLY 19 LST	30	67	65	63	60	65	66	69	73	74	73	70	68	68	
S	PERCENT POSSIBLE SUNSHINE	32	53	56	60	63	62	67	62	62	61	58	56	54	60	
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	1.8	1.8	1.8	1.2	1.2	0.5	0.4	0.5	0.7	1.3	1.4	1.8	14.4	
	THUNDERSTORMS	64	0.4	0.6	1.8	2.7	4.9	5.7	8.4	6.8	2.8	1.1	0.5	0.3	36.0	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	48	5.0	5.0	4.9	4.6	4.9	4.7	4.7	4.6	4.5	4.2	4.4	4.8	4.7	
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.7	4.7	4.4	4.2	4.6	4.4	4.5	4.4	4.2	4.0	4.1	4.4	4.4	
	MEAN NO. DAYS WITH: CLEAR	48	8.8	8.1	8.9	8.8	7.7	7.5	7.4	7.9	9.1	11.6	10.3	9.4	105.5	
	PARTLY CLOUDY	48	6.5	6.2	7.6	9.3	10.0	11.7	12.0	11.9	9.5	7.2	7.9	6.8	106.6	
	CLOUDY	48	15.7	13.9	14.5	11.9	13.3	10.8	11.6	11.3	11.5	12.2	11.7	14.8	153.2	
PR	MEAN STATION PRESSURE(IN)	28	30.07	30.05	30.03	29.96	29.97	29.95	29.97	29.99	30.02	30.05	30.08	30.09	30.02	
	MEAN SEA-LEVEL PRES. (IN)	28	30.10	30.08	30.06	29.99	30.00	29.98	30.00	30.02	30.05	30.08	30.11	30.12	30.05	
WINDS	MEAN SPEED (MPH)	28	10.3	10.5	11.1	11.1	10.2	9.2	8.6	8.1	9.3	9.1	9.4	9.8	9.7	
	PREVAIL.DIR.(TENS OF DEGS)	43	36	03	05	23	23	24	23	23	05	05	24	24	23	
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	44	41	45	40	43	37	44	46	47	38	58	37	58	
	DIR. (TENS OF DEGS)		24	07	04	22	22	21	17	11	06	08	05	23	05	
	YEAR OF OCCURRENCE		2009	1998	2009	2011	2011	2011	2007	1998	2003	2006	2009	2009	NOV 2009	
	MAXIMUM 3-SECOND SPEED (MPH)	15	60	60	69	53	56	60	68	67	74	51	74	49	74	
	DIR. (TENS OF DEGS)		24	07	30	22	21	02	16	22	11	08	05	02	05	
	YEAR OF OCCURRENCE		2009	2010	2007	2011	2011	2006	2003	2000	2003	2006	2009	2004	NOV 2009	
PRECIPITATION	NORMAL (IN)	30	3.93	3.34	4.08	3.38	3.74	3.77	5.17	4.79	4.06	3.47	2.98	3.03	45.74	
	MAXIMUM MONTHLY (IN)	63	9.93	8.21	10.36	7.25	10.12	10.53	14.37	14.32	13.80	10.12	9.20	7.57	14.37	
	YEAR OF OCCURRENCE		1987	1998	1994	1984	1979	2006	1994	1992	1979	1971	2009	2009	JUL 1994	
	MINIMUM MONTHLY (IN)	63	1.05	0.65	0.52	0.43	0.64	0.37	0.36	0.67	0.26	0.01	0.08	0.67	0.01	
	YEAR OF OCCURRENCE		1981	2006	2006	1985	1991	1954	1993	2008	1986	2000	2001	1988	OCT 2000	
	MAXIMUM IN 24 HOURS (IN)	63	3.80	4.78	4.02	5.90	3.41	6.85	5.64	11.40	8.93	7.29	5.01	2.80	11.40	
	YEAR OF OCCURRENCE		1967	1998	1994	1991	1980	1963	1969	1964	2006	1999	2009	2008	AUG 1964	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.4	10.1	10.9	9.5	10.5	9.5	11.0	9.8	8.4	7.5	8.3	10.2	117.1	
	PRECIPITATION >= 1.00	30	0.8	0.6	1.0	0.9	0.8	1.1	1.7	1.4	1.2	0.9	0.5	0.6	11.5	
SNOWFALL	NORMAL (IN)	30	2.6	3.8	1.3	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.4	8.1	
	MAXIMUM MONTHLY (IN)	59	14.2	24.4	13.7	1.2	T	T	T	T	T	0.0	0.0	0.6	17.8	
	YEAR OF OCCURRENCE		1966	1989	1980	1964	2011	1990		1991				1950	2010	FEB 1989
	MAXIMUM IN 24 HOURS (IN)	59	9.1	14.2	9.9	1.2	T	T	0.0	T	0.0	0.0	0.6	13.4	14.2	
	YEAR OF OCCURRENCE		1973	1989	1980	1964	2011	1990		1991			1950	2010	FEB 1989	
	MAXIMUM SNOW DEPTH (IN)	49	9	14	14	0	0	0	0	0	0	0	0	11	14	
	YEAR OF OCCURRENCE		1966	1980	1980									1958	MAR 1980	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.1		

**PRECIPITATION (inches) 2011 NORFOLK (KORF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	3.35	5.81	3.04	1.71	3.07	4.22	5.83	6.51	3.63	4.25	3.43	4.30	49.15
1983	2.21	6.23	4.55	6.13	3.52	3.84	0.77	3.07	4.52	5.29	3.24	6.10	49.47
1984	2.77	4.66	5.09	7.25	6.23	1.50	7.66	2.25	1.94	0.57	2.68	2.22	44.82
1985	3.98	3.53	2.02	0.43	3.23	6.81	6.14	1.89	6.36	3.92	5.71	0.79	44.81
1986	2.52	2.71	0.75	3.31	1.41	1.51	2.59	4.80	0.26	1.67	1.21	3.74	26.48
1987	9.93	3.11	2.30	3.83	2.65	2.98	3.20	2.04	7.00	1.81	3.51	2.33	44.69
1988	3.12	2.70	2.11	3.53	5.49	3.83	2.93	5.69	1.74	2.85	4.02	0.67	38.68
1989	2.70	5.80	8.50	3.62	2.97	5.10	4.86	7.49	5.10	2.94	3.69	3.86	56.63
1990	3.26	2.93	3.49	3.55	3.79	3.51	4.06	11.85	1.00	3.73	1.68	2.67	45.52
1991	4.74	0.84	4.70	6.39	0.64	4.54	6.46	3.77	2.04	4.65	1.72	2.43	42.92
1992	4.48	2.07	2.63	1.26	3.46	2.22	4.52	14.32	2.06	2.85	4.26	3.15	47.28
1993	4.89	2.36	5.91	3.59	2.88	2.79	0.36	1.45	4.14	3.40	0.97	3.29	36.03
1994	4.06	3.64	10.36	0.56	3.52	1.27	14.37	3.65	2.02	2.50	5.25	1.20	52.40
1995	2.40	2.80	2.95	2.76	2.42	4.54	1.78	1.50	5.05	4.82	2.94	1.86	35.82
1996	5.49	3.04	3.46	4.94	3.59	6.60	7.46	5.19	2.72	4.71	2.87	3.86	53.93
1997	2.09	2.94	3.21	3.01	1.66	1.10	7.85	1.76	1.97	4.31	4.94	2.64	37.48
1998	6.02	8.21	4.15	4.31	3.99	4.56	3.91	8.47	2.25	1.73	1.83	5.33	54.76
1999	3.51	2.33	3.29	3.66	3.85	3.60	6.17	4.47	13.16	8.24	1.40	1.71	55.39
2000	5.07	1.13	2.40	3.70	4.05	8.31	7.52	8.35	6.25	0.01	1.67	0.97	49.43
2001	1.46	2.16	4.73	1.48	2.89	6.91	4.40	4.21	2.46	0.75	0.08	1.83	33.36
2002	4.22	1.38	4.91	2.40	3.50	4.28	3.59	4.27	6.69	6.55	4.92	4.16	50.87
2003	2.34	5.25	2.91	6.39	4.66	3.43	8.56	6.08	9.54	3.91	2.45	6.24	61.76
2004	1.59	1.82	2.09	2.82	4.67	4.86	10.89	11.11	3.30	1.88	2.65	2.41	50.09
2005	2.48	2.32	2.25	2.74	4.02	4.50	3.67	7.61	2.90	5.53	3.79	4.30	46.11
2006	2.68	0.65	0.52	3.65	2.96	10.53	1.34	3.13	11.64	3.54	6.46	2.06	49.16
2007	2.71	2.09	1.84	3.19	2.06	3.80	4.77	3.71	0.38	5.39	0.31	3.50	33.75
2008	1.36	3.41	2.96	6.37	2.88	1.93	5.19	0.67	9.41	1.47	5.32	3.83	44.80
2009	1.82	1.26	5.28	2.28	4.77	5.81	2.47	13.22	7.77	3.21	9.20	7.57	64.66
2010	3.81	4.20	6.02	1.00	4.60	3.76	5.84	3.59	12.16	2.68	0.43	2.88	50.97
2011	3.64	2.24	2.96	1.21	1.95	4.63	10.89	10.79	7.26	2.13	1.84	1.56	51.10
POR= 66 YRS	3.51	3.15	3.66	3.11	3.62	3.88	5.37	5.48	4.49	3.29	3.06	3.14	45.76

WBAN : 13737

**AVERAGE TEMPERATURE (°F) 2011 NORFOLK (KORF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	35.4	42.0	48.8	55.0	69.4	73.4	78.6	75.3	70.0	60.2	54.4	48.8	59.3
1983	40.2	40.8	51.0	55.7	65.8	73.0	80.3	79.0	72.8	62.7	52.6	41.6	59.6
1984	35.5	46.7	45.4	55.6	67.8	76.2	76.7	78.4	70.5	66.9	49.9	50.9	60.0
1985	34.9	40.4	51.8	62.0	68.8	74.2	78.2	77.2	73.4	65.9	60.3	41.2	60.7
1986	39.3	42.1	49.9	57.3	67.6	76.1	82.1	76.6	72.4	65.4	54.9	44.8	60.7
1987	39.6	38.7	47.5	54.6	68.3	77.0	82.4	79.6	74.3	56.6	54.3	46.0	59.9
1988	37.3	42.5	49.5	56.5	65.8	73.6	80.1	80.8	70.5	56.9	54.2	42.4	59.2
1989	45.3	43.6	50.1	56.5	65.6	78.5	79.2	77.7	73.9	62.7	53.3	34.8	60.1
1990	47.3	50.2	53.2	58.7	66.6	75.5	80.6	78.0	71.6	65.9	55.0	50.5	62.8
1991	43.5	46.0	52.7	61.6	72.8	76.2	82.0	79.5	72.3	61.9	52.7	47.6	62.4
1992	42.7	45.0	48.8	58.2	62.4	72.0	81.8	75.6	73.5	59.7	53.8	44.6	59.8
1993	44.2	39.1	46.8	57.3	68.5	76.1	83.4	78.9	74.6	61.3	53.5	41.5	60.4
1994	36.5	43.4	51.7	64.7	64.9	79.6	83.0	77.6	72.4	62.0	57.5	50.1	62.0
1995	45.1	41.5	51.7	60.4	67.9	75.8	83.3	80.1	72.2	65.5	48.4	40.0	61.0
1996	38.7	41.3	45.0	58.8	65.2	75.2	77.7	74.9	72.4	61.8	46.5	46.7	58.7
1997	41.3	46.0	51.5	54.6	64.0	72.0	79.1	76.4	72.0	62.1	50.3	43.5	59.4
1998	46.5	47.2	50.8	58.9	67.5	75.9	79.0	78.9	75.3	61.9	52.6	48.7	61.9
1999	46.1	44.5	47.6	58.0	66.5	73.9	81.1	79.5	72.1	61.5	55.5	45.8	61.0
2000	40.2	45.1	53.0	57.5	70.3	76.1	76.3	76.6	71.5	62.1	49.3	38.2	59.7
2001	39.3	44.0	46.5	58.2	66.5	75.8	76.3	78.8	70.4	61.3	56.0	49.7	60.2
2002	44.6	45.7	52.2	62.7	66.7	76.8	80.8	79.5	74.1	64.4	51.1	42.3	61.7
2003	36.3	41.0	51.6	58.0	65.7	75.0	80.2	80.3	74.1	62.0	58.1	44.4	60.6
2004	38.8	42.6	52.4	60.3	73.1	75.1	79.2	76.0	72.6	61.0	53.3	44.3	60.7
2005	41.7	41.4	45.3	57.5	62.5	75.1	81.0	80.1	75.8	63.8	54.6	42.0	60.1
2006	47.4	42.6	49.7	60.5	66.2	74.4	80.8	81.3	70.4	61.1	54.5	48.2	61.4
2007	46.1	38.2	51.3	57.6	65.6	75.9	79.4	79.7	74.4	69.1	52.0	47.8	61.4
2008	42.2	46.8	52.9	59.0	65.2	79.2	79.0	77.7	73.9	60.4	49.4	48.2	61.2
2009	37.8	43.1	47.5	59.5	69.0	75.6	77.6	79.6	71.1	62.5	55.3	43.9	60.2
2010	37.9	37.3	51.0	61.8	70.2	80.3	82.8	80.2	75.2	63.9	52.6	35.1	60.7
2011	36.0	45.6	49.3	63.4	69.9	78.8	82.3	80.0	74.9	62.3	56.4	50.4	62.4
POR= 66 YRS	40.7	42.1	49.1	58.3	66.8	74.8	79.2	77.9	72.3	62.0	52.6	44.1	60.0

**HEATING DEGREE DAYS (base 65°F) 2011 NORFOLK (KORF)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	4	6	177	334	498	762	674	426	295	85	3	3264
1983-84	0	0	27	126	370	718	908	522	601	281	54	3	3610
1984-85	0	0	16	37	450	432	928	686	421	172	21	0	3163
1985-86	0	0	6	61	162	731	790	637	465	228	69	1	3150
1986-87	0	1	8	88	311	620	779	730	538	306	58	0	3439
1987-88	0	0	0	252	320	582	851	646	474	266	86	15	3492
1988-89	0	0	2	265	324	692	602	601	486	282	80	0	3334
1989-90	0	0	12	134	356	928	541	417	410	234	39	3	3074
1990-91	0	0	13	102	301	444	657	527	386	166	19	2	2617
1991-92	0	0	22	132	377	542	686	575	496	262	125	1	3218
1992-93	0	0	9	179	337	623	638	722	555	246	22	5	3336
1993-94	0	0	10	140	353	726	877	599	414	111	89	0	3319
1994-95	0	0	0	113	239	463	614	651	411	190	45	0	2726
1995-96	0	0	4	80	497	769	810	681	614	237	99	7	3798
1996-97	0	0	1	123	559	561	728	532	418	314	82	44	3362
1997-98	0	0	1	148	434	663	573	492	466	211	60	0	3048
1998-99	0	0	2	127	367	513	583	567	531	226	60	0	2976
1999-00	0	0	4	146	282	588	762	570	374	227	28	1	2982
2000-01	0	0	13	133	466	825	793	583	571	239	52	0	3675
2001-02	0	0	19	163	275	468	629	537	398	158	75	3	2725
2002-03	0	0	0	115	418	697	884	665	413	231	71	2	3496
2003-04	0	0	5	120	239	634	814	643	393	198	25	0	3071
2004-05	0	0	2	155	353	633	719	654	605	241	108	6	3476
2005-06	0	0	0	110	318	708	538	620	484	168	56	0	3002
2006-07	0	0	11	164	308	521	580	748	436	261	85	2	3116
2007-08	0	0	0	58	381	526	702	528	371	206	73	0	2845
2008-09	0	0	0	174	463	515	837	609	542	210	46	0	3396
2009-10	0	0	3	131	286	648	835	769	425	157	35	0	3289
2010-11	0	0	0	94	366	920	891	538	479	145	38	0	3471
2011-	0	0	1	136	268	449							

WBAN : 13737

**COOLING DEGREE DAYS (base 65°F) 2011 NORFOLK (KORF)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	1	8	166	257	428	331	164	39	21	4	1419
1983	0	0	0	21	115	250	481	440	265	62	4	0	1638
1984	0	0	0	5	146	345	368	426	188	102	5	2	1587
1985	0	5	20	91	146	284	419	382	267	97	28	0	1739
1986	0	0	2	2	153	343	537	367	237	109	15	0	1765
1987	0	0	0	2	168	364	544	461	285	0	7	0	1831
1988	0	0	1	18	118	280	477	498	173	17	10	0	1592
1989	0	9	30	31	106	412	447	399	286	69	10	0	1799
1990	0	8	52	51	98	324	489	407	218	137	8	5	1797
1991	0	0	13	71	269	347	534	456	248	43	18	11	2010
1992	0	0	0	63	51	220	527	336	270	23	9	0	1499
1993	0	0	0	23	136	345	579	438	305	31	18	0	1875
1994	0	0	11	111	94	447	562	400	229	30	20	8	1912
1995	2	0	4	59	143	330	574	475	226	102	6	0	1921
1996	0	0	1	55	116	320	401	312	227	31	10	0	1473
1997	0	7	7	7	59	262	443	360	218	63	0	0	1426
1998	7	0	33	37	143	338	440	440	317	39	0	12	1806
1999	4	0	0	25	112	275	509	458	222	42	4	0	1651
2000	0	0	7	10	196	342	358	368	216	51	0	0	1548
2001	0	0	3	40	108	331	357	435	187	57	15	3	1536
2002	5	1	8	97	134	365	495	454	276	100	9	0	1944
2003	0	0	7	28	103	310	482	485	285	35	39	0	1774
2004	5	0	10	65	283	312	449	348	235	39	6	0	1752
2005	4	0	0	22	37	318	500	478	333	82	13	0	1787
2006	0	0	18	41	100	291	498	514	178	50	3	7	1700
2007	2	0	18	43	112	335	451	464	289	194	1	0	1909
2008	0	6	4	31	85	433	442	404	271	39	1	3	1719
2009	0	0	8	50	176	323	397	457	195	59	1	0	1666
2010	0	0	0	65	202	464	559	476	311	70	0	0	2147
2011	0	1	1	103	197	422	543	471	303	57	17	2	2117

**SNOWFALL (inches) 2011 NORFOLK (KORF)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	0.0	0.4	T	3.0	T	T	0.0	0.0	3.4
1983-84	0.0	0.0	0.0	0.0	0.0	T	T	5.2	T	0.0	0.0	0.0	5.2
1984-85	0.0	0.0	0.0	0.0	0.0	T	4.3	0.0	T	0.0	0.0	0.0	4.3
1985-86	0.0	0.0	0.0	0.0	0.0	T	3.6	1.1	T	T	0.0	0.0	4.7
1986-87	0.0	0.0	0.0	0.0	0.0	T	1.6	1.0	1.2	T	0.0	0.0	3.8
1987-88	0.0	0.0	0.0	0.0	0.3	T	4.4	T	T	0.0	0.0	0.0	4.7
1988-89	0.0	0.0	0.0	0.0	0.0	T	T	24.4	T	0.5	0.0	0.0	24.9
1989-90	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	T	0.0	0.0	T	0.5
1990-91	0.0	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	T
1991-92	0.0	T	0.0	0.0	0.0	T	T	0.0	T	T	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.9	1.7	0.0	0.0	0.0	3.9
1993-94	0.0	0.0	0.0	0.0	0.0	3.9	7.4	1.2	0.3	0.0	T	0.0	12.8
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.3	T	0.0	0.0	0.0	0.3
1995-96	0.0	0.0	0.0	0.0	0.0	T	6.2	11.0					
1996-97													
1997-98													
1998-99								T					
1999-00							9.0						
2000-01									0.3	0.0	0.0	0.0	
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.2	0.0	0.0	0.0	T	7.4
2002-03	0.0	0.0	0.0	0.0	0.0	T	5.1	T	T	0.0	0.0	0.0	5.1
2003-04	0.0	0.0	0.0	0.0	0.0	T	4.0	2.2	T	0.0	0.0	0.0	6.2
2004-05	0.0	0.0	0.0	0.0	0.0	5.5	1.3	0.5	0.9	0.0	0.0	0.0	8.2
2005-06	0.0	0.0	0.0	0.0	0.0	T	0.7	0.1	T	0.0	0.0	0.0	0.8
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.1	0.0	0.0	0.1
2007-08	0.0	0.0	0.0	0.0	0.0	0.0	T	0.2	0.0	0.0	0.0	0.0	0.2
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.5	T	0.0	0.0	0.5
2009-10	0.0	0.0	0.0	0.0	0.0	0.2	6.5	1.7	0.9	0.0	0.0	0.0	9.3
2010-11	0.0	0.0	0.0	0.0	0.0	17.8	0.2	3.8	T	0.0	T	0.0	21.8
2011-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 64 YRS	0.0	T	0.0	0.0	0.0	1.0	2.7	2.6	0.9	T	T	T	7.2

WBAN : 13737

**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: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> 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>
--	--

# 2011 NORFOLK VIRGINIA (KORF)

The city of Norfolk, Virginia, is located near the coast and the southern border of the state. It is almost surrounded by water, with the Chesapeake Bay immediately to the north, Hampton Roads to the west, and the Atlantic Ocean only 18 miles to the east. It is traversed by numerous rivers and waterways and its average elevation above sea level is 13 feet. There are no nearby hilly areas and the land is low and level throughout the city. The climate is generally marine. The geographic location of the city with respect to the principal storm tracks, is especially favorable, being south of the average path of storms originating in the higher latitudes and north of the usual tracks of hurricanes and other tropical storms.

The winters are usually mild, while the autumn and spring seasons usually are delightful. Summers, though warm and long, frequently are tempered by cool periods, often associated with northeasterly winds off the Atlantic. Temperatures of 100 degrees or higher occur infrequently. Extreme cold waves seldom penetrate the area and temperatures of zero or below are almost nonexistent. Winters pass, on occasion, without a measurable amount of snowfall. Most of the snowfall in Norfolk is light and generally melts within 24 hours.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 17 and the average last occurrence in the spring is March 23.

# Station History

NORFOLK, VA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
NORFOLK MUNICIPAL AP	1938-07-08	1948-01-01	36° 52'	-76° 12'			AIRWAYS
NORFOLK MUNICIPAL AP	1952-01-01	1968-11-01	36° 54'	-76° 12'	24		AIRWAYS, COOP, USHCN
NORFOLK INTL AP	1981-12-31	1996-03-01	36° 54'	-76° 12'	24		COOP, USHCN
NORFOLK INTL AP	1996-03-01	Present	36° 54'	-76° 11'	30		ASOS, COOP, USHCN
NORFOLK REGIONAL AP	1968-11-01	1969-01-01	36° 54'	-76° 12'	24		AIRWAYS, COOP, USHCN
NORFOLK REGIONAL AP	1969-01-01	1976-11-01	36° 54'	-76° 12'	24		COOP, USHCN, WXSVC
NORFOLK INTL AP	1976-11-01	1981-12-31	36° 54'	-76° 12'	24		COOP, USHCN, WXSVC
NORFOLK MUNICIPAL AP	1948-01-01	1952-01-01	36° 52'	-76° 12'	39		AIRWAYS, COOP, USHCN

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1938-07-08	1959-08-01	DAILY	2400	TB	RCRD	
TEMP	1938-07-08	1959-08-01	DAILY	2400			
PRECIP	1959-08-01	1992-01-08	DAILY	2400	TB	RCRD	
PRECIP	1959-08-01	1992-01-08	HOURLY	2400	TB	RCRD	
TEMP	1959-08-01	1992-01-08	DAILY	2400			
TEMP	1992-01-08	Present	DAILY	2400	HYGR		
PRECIP	1992-01-08	Present	DAILY	2400	TB	RCRD	
PRECIP	1992-01-08	Present	HOURLY	2400	TB	RCRD	

\* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.info@noaa.gov](mailto:ncdc.info@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)