

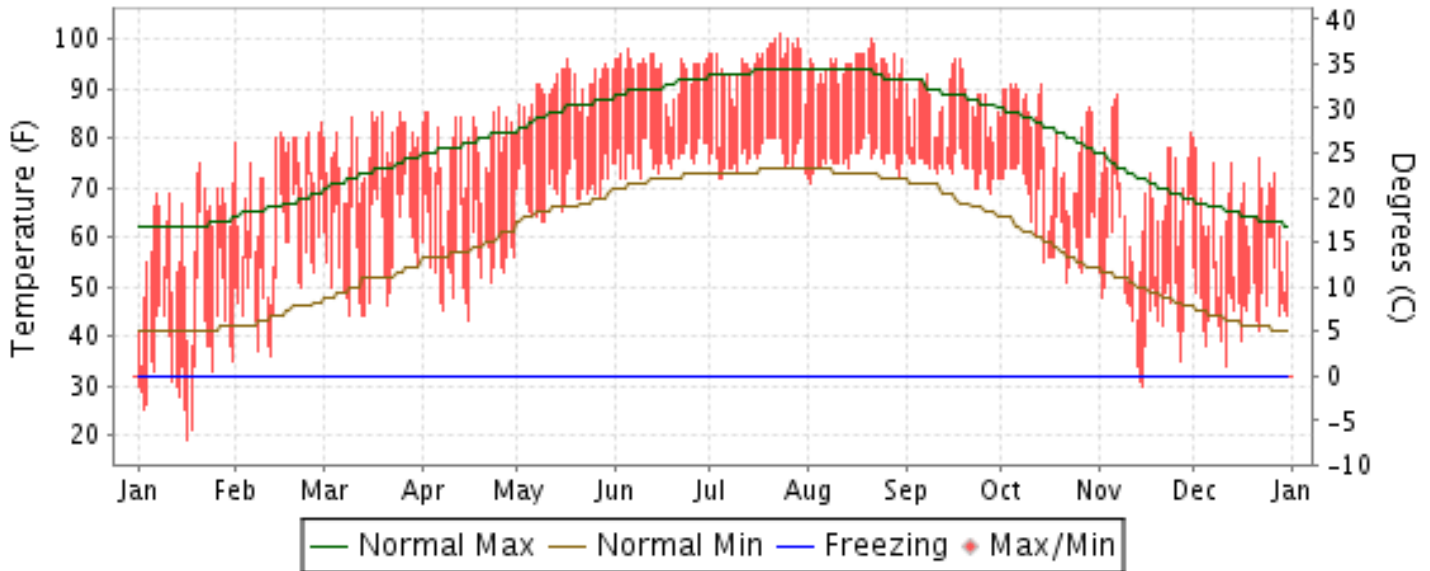


# 2018 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

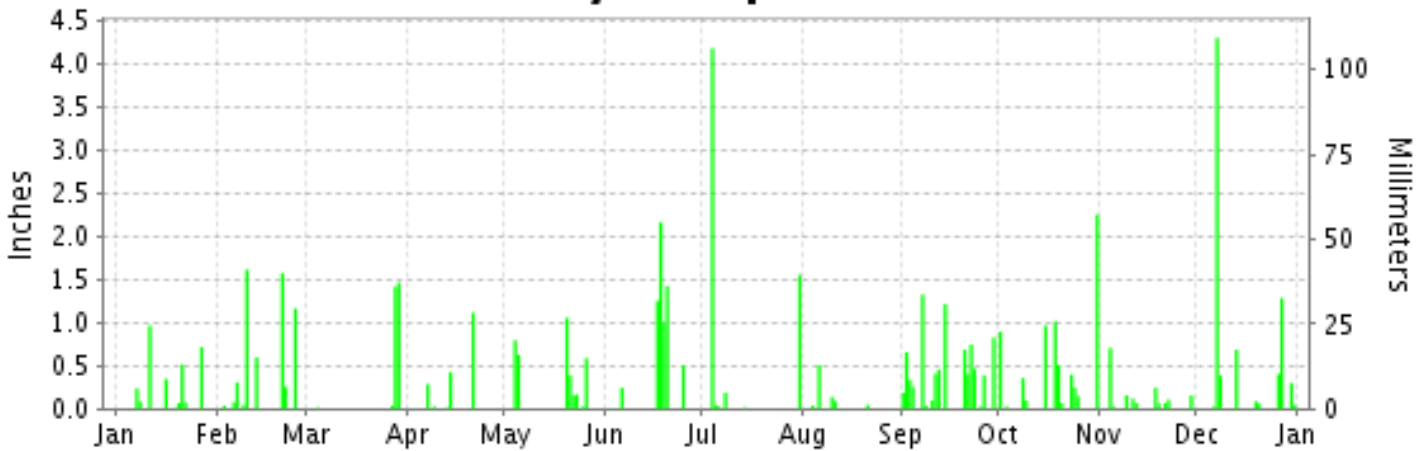
ISSN 0198-5086

## HOUSTON, TEXAS (KIAH)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CENTERS for ENVIRONMENTAL INFORMATION (NCEI) ASHEVILLE, NORTH CAROLINA

*Mary S. Wohlgenant*  
DIRECTOR  
NCEI

# METEOROLOGICAL DATA FOR 2018

## HOUSTON (KIAH)

LATITUDE: 29° 58'N      LONGITUDE: 95° 21'W      ELEVATION (FT): GRND: 95 BARO: 107      TIME ZONE: CENTRAL (UTC -6)      WBAN: 12960

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	59.7	70.8	77.7	77.9	90.1	93.7	95.3	95.0	87.4	80.5	68.2	64.7	80.1	
	HIGHEST DAILY MAXIMUM	75	83	85	86	96	98	101	100	96	91	89	80	101	
	DATE OF OCCURRENCE	21	28	25+	25	17	05	23	21	18+	14+	07	01	JUL 23	
	MEAN DAILY MINIMUM	37.6	54.2	57.4	55.9	69.6	76.1	76.3	75.6	74.0	64.0	49.1	46.4	61.4	
	LOWEST DAILY MINIMUM	19	36	44	43	63	72	72	71	69	51	30	34	19	
	DATE OF OCCURRENCE	17	12+	14+	16	10+	09+	05+	02	28	22	15	11	JAN 17	
	AVERAGE DRY BULB	48.7	62.5	67.6	66.9	79.8	84.9	85.8	85.3	80.7	72.3	58.7	55.6	70.7	
	MEAN WET BULB	43.8	58.7	60.4	60.4	72.3	77.5	77.4	77.7	76.4	68.2	54.7	51.6	64.9	
	MEAN DEW POINT	37.0	56.5	54.4	55.2	68.8	74.9	74.4	75.3	75.3	66.3	51.5	47.5	61.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	20	25	27	30	11	7	0	0	0	120
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	10	0	0	0	0	0	0	0	0	0	2	0	0	12
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	503	148	58	46	0	0	0	0	0	25	243	286	1309	
	COOLING DEGREE DAYS	5	83	144	113	469	606	653	637	476	259	62	3	3510	
RH	MEAN (PERCENT)	68	84	67	69	73	76	73	77	88	85	81	77	77	
	HOUR 00 LST	77	89	77	80	84	87	84	88	96	94	88	83	86	
	HOUR 06 LST	80	89	84	86	95	95	95	96	99	97	94	90	92	
	HOUR 12 LST	56	80	52	53	56	60	58	57	75	71	66	65	62	
	HOUR 18 LST	60	79	56	58	60	65	58	68	83	80	76	73	68	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	8	0	0	0	0	0	0	1	2	2	6	20	
	THUNDERSTORMS	3	6	4	3	5	8	9	13	13	8	3	5	80	
PR	MEAN STATION PRESS. (IN.)	30.17	29.99	29.91	29.91	29.84	29.85	29.88	29.88	29.83	29.89	29.97	29.96	29.92	
	MEAN SEA-LEVEL PRESS. (IN.)	30.29	30.11	30.03	30.02	29.95	29.93	30.00	30.00	29.95	30.01	30.09	30.07	30.04	
WINDS	RESULTANT SPEED (MPH)	2.3	2.5	3.0	1.5	4.9	6.1	2.4	3.8	2.9	2.5	1.7	1.6	1.9	
	RES. DIR. (TENS OF DEGS.)	04	10	14	12	16	16	19	16	11	07	36	35	14	
	MEAN SPEED (MPH)	8.2	9.1	9.0	9.0	7.4	7.9	5.6	6.0	5.9	7.7	7.3	7.9	7.6	
	PREVAIL.DIR.(TENS OF DEGS.)	35	17	16	17	17	17	19	17	11	01	17	02	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	26	30	28	35	41	36	28	32	30	26	36	41	
	DIR. (TENS OF DEGS.)	36	04	36	28	15	06	02	10	15	33	35	14	06	
	DATE OF OCCURRENCE	16	02	28	13	26	03	31	29	21	31	13	26	JUN 03	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	42	33	41	38	43	53	44	34	37	39	36	46	53	
DIR. (TENS OF DEGS.)	32	15	33	26	06	05	03	10	16	33	35	15	05		
DATE OF OCCURRENCE	11	19	28	13	26	03	31	29	21	31	25	27	JUN 03		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.06	5.73	2.97	1.90	3.83	6.64	6.04	0.85	8.60	7.02	1.76	7.62	56.02	
	GREATEST 24-HOUR (IN.)	0.97	1.73	2.89	1.12	1.43	2.51	4.19	0.51	1.33	2.26	0.71	4.67	4.67	
	DATE OF OCCURRENCE	11	21-22	28-29	21	04-05	18-19	04	06	07	31	04	07-08	DEC 07-08	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	9	11	6	6	8	8	6	7	19	12	12	10	114		
PRECIPITATION 0.10	5	6	2	3	7	6	3	2	15	10	6	6	71		
PRECIPITATION 1.00	0	3	2	1	1	4	2	0	2	2	0	2	19		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.1	
	GREATEST 24-HOUR (IN.)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.1	
	DATE OF OCCURRENCE	16										13		JAN 16	
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

# NORMALS, MEANS, AND EXTREMES HOUSTON (KIAH)

**LATITUDE:** 29° 58'N      **LONGITUDE:** 95° 21'W      **ELEVATION (FT):** GRND: 95 BARO: 107      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 12960**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	62.9	66.3	73.0	79.6	86.3	91.4	93.7	94.5	89.7	82.0	72.5	64.3	79.7
	MEAN DAILY MAXIMUM	49	62.4	66.5	73.2	79.4	85.9	91.3	93.8	94.0	89.4	81.9	72.1	64.8	79.6
	HIGHEST DAILY MAXIMUM	49	84	91	91	95	99	107	104	109	109	96	89	85	109
	YEAR OF OCCURRENCE		1975	1986	1989	1987	1996	2013	1980	2011	2000	1991	2018	1995	AUG 2011
	MEAN OF EXTREME MAXS.	52	78.5	81.2	85.3	88.4	93.0	97.4	98.7	99.8	96.5	91.6	85.2	80.3	89.7
	NORMAL DAILY MINIMUM	30	43.2	46.5	52.5	59.4	67.6	73.3	75.1	74.8	69.8	60.9	52.1	44.6	60.0
	MEAN DAILY MINIMUM	49	42.0	45.4	51.9	58.7	66.4	72.1	74.1	73.8	69.3	59.6	50.4	44.1	59.0
	LOWEST DAILY MINIMUM	49	12	20	22	31	42	52	62	60	48	29	19	7	7
	YEAR OF OCCURRENCE		1982	1997	2002	1987	2013	1970	1990	1992	1975	1993	1976	1989	DEC 1989
	MEAN OF EXTREME MINS.	52	25.5	29.0	33.8	41.5	52.7	64.0	69.3	68.5	56.6	43.2	33.1	27.9	45.4
	NORMAL DRY BULB	30	53.1	56.4	62.7	69.5	76.9	82.4	84.4	84.6	79.8	71.5	62.3	54.4	69.8
	MEAN DRY BULB	52	52.4	55.8	62.5	69.3	76.1	81.8	83.9	83.9	79.3	70.8	61.3	54.5	69.3
	MEAN WET BULB	35	45.9	49.7	55.2	61.2	68.3	73.4	74.9	74.7	70.8	63.0	54.9	48.7	61.7
	MEAN DEW POINT	35	45.1	48.7	54.1	60.2	67.7	72.9	74.2	73.9	69.8	62.3	54.0	47.6	60.9
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.7	7.4	20.7	26.4	27.1	17.0	3.0	0.1	0.0	102.4
	MAXIMUM <= 32	30	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
	MINIMUM <= 32	30	3.7	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.3	9.6
	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	0.0
H/C	NORMAL HEATING DEG. DAYS	30	385	264	141	37	1	0	0	0	1	29	155	354	1367
	NORMAL COOLING DEG. DAYS	30	15	23	71	172	371	520	601	609	443	229	74	27	3155
RH	NORMAL (PERCENT)		75	74	73	74	76	76	74	75	76	75	77	76	75
	HOURLY 00 LST	30	82	83	83	85	87	88	86	87	88	88	86	84	86
	HOURLY 06 LST	30	86	87	88	89	92	93	93	94	93	91	89	87	90
	HOURLY 12 LST	30	64	61	59	58	60	60	57	57	59	57	61	62	60
	HOURLY 18 LST	30	67	62	60	60	64	64	62	62	66	68	72	71	65
S	PERCENT POSSIBLE SUNSHINE	27	45	50	54	58	62	68	70	68	66	64	52	51	59
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	49	3.8	3.1	2.6	1.9	1.3	0.6	0.2	0.4	1.0	2.2	3.1	3.7	23.9
	THUNDERSTORMS	49	2.1	2.3	3.5	3.9	6.4	8.6	10.4	9.9	7.0	4.0	2.8	2.2	63.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	27	5.5	5.3	5.4	5.3	5.2	4.6	4.4	4.4	4.2	4.0	4.6	5.3	4.9
	MIDNIGHT-MIDNIGHT (OKTAS)	26	5.3	5.0	5.1	5.0	4.9	3.9	3.8	3.7	3.6	3.5	4.3	5.0	4.4
	MEAN NO. DAYS WITH: CLEAR	27	7.2	7.0	7.0	7.2	5.6	7.3	6.9	6.1	8.6	11.2	9.0	7.2	90.3
	PARTLY CLOUDY	27	5.4	5.6	6.4	7.1	11.0	13.3	15.9	16.9	11.5	8.9	7.0	5.5	114.5
	CLOUDY	27	18.4	15.6	17.6	15.7	14.3	9.3	8.2	8.0	10.0	10.9	14.0	18.3	160.3
PR	MEAN STATION PRESSURE(IN)	35	30.03	29.98	29.91	29.85	29.83	29.82	29.88	29.86	29.85	29.91	29.98	30.02	29.91
	MEAN SEA-LEVEL PRES. (IN)	35	30.15	30.09	30.03	29.97	29.94	29.94	29.99	29.97	29.97	30.03	30.10	30.13	30.03
WINDS	MEAN SPEED (MPH)	35	7.9	8.4	8.7	8.9	8.3	7.1	6.1	6.0	6.3	6.9	7.4	7.6	7.5
	PREVAIL.DIR.(TENS OF DEGS)	46	36	17	17	17	17	17	17	17	13	14	35	36	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	22	43	40	37	39	47	45	44	48	47	39	38	46	48
	DIR. (TENS OF DEGS)		34	10	31	14	31	13	05	31	34	36	33	14	31
	YEAR OF OCCURRENCE		2006	2000	2016	2007	2006	2004	2010	2009	2011	2013	2015	2002	AUG 2009
	MAXIMUM 3-SECOND SPEED (MPH)	22	49	53	51	49	58	66	55	70	61	53	49	52	70
	DIR. (TENS OF DEGS)		15	28	26	30	31	15	05	32	34	02	33	13	32
	YEAR OF OCCURRENCE		2012	2011	2017	2016	2006	2000	2010	2009	2005	2014	2015	2002	AUG 2009
PRECIPITATION	NORMAL (IN)	30	3.38	3.20	3.41	3.31	5.09	5.93	3.79	3.76	4.12	5.70	4.34	3.74	49.77
	MAXIMUM MONTHLY (IN)	49	9.78	6.10	8.52	14.39	14.39	19.21	12.92	39.11	12.07	16.05	11.73	9.34	39.11
	YEAR OF OCCURRENCE		1991	2005	1972	2016	1970	2001	2010	2017	2008	1984	2004	1991	AUG 2017
	MINIMUM MONTHLY (IN)	49	0.36	0.38	0.12	0.11	0.04	.08	0.47	0.09	0.80	0.02	0.41	0.64	0.02
	YEAR OF OCCURRENCE		1971	1976	1996	2011	1998	2005	1993	2011	1975	2010	1988	1973	OCT 2010
	MAXIMUM IN 24 HOURS (IN)	49	2.85	2.23	7.47	10.58	10.36	11.02	5.45	18.09	7.98	9.31	6.33	5.64	18.09
	YEAR OF OCCURRENCE		2012	2012	1972	2016	1989	2001	2010	2017	1976	1984	1998	2005	AUG 2017
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.6	9.2	8.8	6.8	8.0	10.6	9.1	8.3	8.0	7.9	8.2	9.5	104.0
	PRECIPITATION >= 1.00	30	1.0	0.9	1.0	1.1	1.7	1.8	1.2	1.0	1.2	1.7	1.3	1.2	15.1
SNOWFALL	NORMAL (IN)	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	MAXIMUM MONTHLY (IN)	49	2.0	2.8	T	T	T	T	T	T	0.0	0.0	T	1.7	2.8
	YEAR OF OCCURRENCE		1973	1973	2017	2012	1993	2012	2011	2013			2018	1989	FEB 1973
	MAXIMUM IN 24 HOURS (IN)	49	2.0	1.4	T	T	T	T	T	T	0.0	0.0	T	1.7	2.0
	YEAR OF OCCURRENCE		1973	1980	2017	2012	1993	2012	2011	2013			2018	1989	JAN 1973
	MAXIMUM SNOW DEPTH (IN)	48	1	1	0	0	0	0	0	0	0	0	0	1	1
	YEAR OF OCCURRENCE		1973	1973										2017	DEC 2017
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	

**PRECIPITATION (inches) 2018 HOUSTON (KIAH)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1989	4.80	0.90	3.96	1.48	13.56	16.28	1.92	2.74	2.69	1.76	1.84	0.80	52.73
1990	3.96	4.54	5.11	6.21	2.23	2.98	4.85	0.31	1.57	3.79	3.01	1.81	40.37
1991	9.78	5.79	1.77	8.06	4.02	7.69	1.31	2.97	2.76	2.57	5.03	9.34	61.09
1992	7.70	5.99	6.28	3.74	7.05	3.38	3.85	2.78	1.08	1.03	5.99	3.46	52.33
1993	5.79	2.67	6.41	7.88	8.50	12.08	0.47	1.82	1.10	5.32	3.27	2.68	57.99
1994	2.08	2.79	2.39	2.11	5.02	3.40	1.60	5.45	1.12	10.62	1.67	4.90	43.15
1995	5.95	2.55	4.11	2.59	3.83	4.11	2.68	4.90	2.52	2.77	3.63	4.99	44.63
1996	0.88	1.29	0.12	2.05	0.56	8.37	1.11	10.58	6.96	2.60	4.55	3.74	42.81
1997	3.26	5.35	7.96	7.17	6.69	4.46	2.30	2.26	4.86	7.11	3.38	5.42	60.22
1998	4.35	5.85	2.32	1.21	0.04	2.87	1.65	4.38	10.16	7.79	10.21	4.01	54.84
1999	2.12	0.80	3.44	1.06	4.10	5.26	5.11	0.50	1.36	0.56	1.53	2.20	28.04
2000	1.25	2.32	1.35	5.52	12.35	3.29	0.64	2.11	4.34	3.27	8.50	2.69	47.63
2001	4.25	0.82	7.97	2.00	3.53	19.21	2.05	4.83	8.82	8.95	2.58	6.18	71.19
2002	1.24	0.89	2.36	3.79	1.79	4.54	7.11	5.47	8.02	14.65	4.20	5.65	59.71
2003	2.09	4.08	2.04	1.46	0.06	3.62	5.35	4.47	6.79	4.99	7.80	2.99	45.74
2004	6.01	5.58	2.23	5.56	7.33	18.33	0.79	2.49	1.01	2.05	11.73	1.95	65.06
2005	3.41	6.10	4.05	1.28	6.06	0.08	5.30	1.52	2.63	1.69	2.72	6.37	41.21
2006	2.50	1.46	2.36	2.93	8.78	7.84	7.85	3.40	3.22	14.53	0.92	2.07	57.86
2007	5.72	1.15	6.40	3.86	9.88	3.07	9.94	8.05	3.05	6.85	5.49	2.06	65.52
2008	4.62	4.00	2.41	1.46	4.57	2.06	1.09	7.45	12.07	8.67	2.92	1.68	53.00
2009	0.49	1.52	4.08	10.38	0.38	0.27	2.84	2.11	4.68	13.16	1.66	5.44	47.01
2010	2.53	3.55	1.88	2.81	3.68	3.75	12.92	1.02	4.81	0.02	2.71	3.04	42.72
2011	5.05	0.69	0.78	0.11	0.33	0.92	2.98	0.09	1.28	3.36	4.70	4.28	24.57
2012	5.07	5.98	7.14	3.28	0.77	4.97	4.71	3.88	2.02	1.00	0.65	2.85	42.32
2013	3.21	1.32	0.89	2.88	1.02	4.46	4.09	3.33	5.09	7.08	3.81	1.66	38.84
2014	0.96	2.39	2.45	1.56	11.71	2.18	5.40	1.24	3.88	2.95	3.40	5.60	43.72
2015	3.17	0.66	6.34	6.10	14.17	11.39	0.61	2.94	2.59	13.05	3.80	5.21	70.03
2016	2.16	1.95	3.25	14.39	7.20	13.12	1.09	10.41	1.70	0.14	1.99	3.56	60.96
2017	6.09	2.42	5.63	1.68	2.41	7.19	6.29	39.11	1.23	3.42	0.50	3.72	79.69
2018	3.06	5.73	2.97	1.90	3.83	6.64	6.04	0.85	8.60	7.02	1.76	7.62	56.02
POR= 52 YRS	3.60	2.92	3.44	3.62	5.33	5.53	3.89	4.36	4.47	5.16	3.76	3.73	49.81

WBAN : 12960

**AVERAGE TEMPERATURE (°F) 2018 HOUSTON (KIAH)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1989	57.5	52.7	61.3	69.4	77.8	79.9	82.4	81.7	77.0	70.2	62.9	44.4	68.1
1990	57.0	59.1	62.9	69.4	78.1	84.8	82.1	85.1	80.1	68.7	63.4	53.6	70.4
1991	50.4	57.4	63.5	72.2	78.0	82.0	84.0	83.0	77.4	72.3	56.7	56.2	69.4
1992	51.0	58.5	64.0	68.7	73.7	81.7	83.6	80.1	79.3	71.4	56.8	56.7	68.8
1993	53.6	56.7	61.1	65.9	73.4	81.6	85.8	86.5	80.2	69.5	56.9	54.6	68.8
1994	52.6	55.2	62.7	69.6	76.0	83.5	85.5	83.1	78.3	71.9	65.7	57.2	70.1
1995	54.3	58.7	62.9	68.6	77.9	80.6	84.8	84.9	81.6	70.4	61.4	57.1	70.3
1996	52.0	58.7	58.1	69.4	81.4	80.7	83.8	82.0	77.5	70.6	62.0	57.4	69.5
1997	50.8	55.3	65.3	64.2	73.6	79.2	83.1	83.2	79.1	68.9	55.7	50.1	67.4
1998	57.1	55.1	60.1	65.9	78.7	85.5	86.6	84.7	82.2	72.6	64.3	55.1	70.7
1999	57.1	61.5	63.7	73.0	76.6	81.9	83.1	86.8	78.0	69.0	62.2	53.7	70.6
2000	56.5	61.7	66.4	67.9	78.1	81.4	85.2	84.8	79.4	70.9	57.6	47.6	69.8
2001	49.3	59.3	56.4	71.7	75.9	80.5	83.6	83.5	77.0	66.9	63.4	56.0	68.6
2002	54.6	50.7	61.3	73.5	77.0	81.7	84.5	83.9	79.7	71.6	58.8	54.6	69.3
2003	50.1	53.8	61.4	70.5	80.8	82.7	83.4	84.7	77.7	71.7	65.0	53.8	69.6
2004	54.7	53.5	67.3	69.5	77.0	81.1	84.6	83.2	81.2	77.5	62.0	53.8	70.5
2005	56.3	58.8	61.7	67.7	75.3	83.3	84.5	84.6	83.4	71.1	64.5	53.1	70.4
2006	58.9	55.5	65.6	73.7	76.7	81.4	83.3	84.9	79.4	72.4	62.7	55.7	70.9
2007	50.5	55.2	65.9	66.7	76.4	82.5	82.2	85.4	81.9	73.0	63.7	57.7	70.1
2008	52.2	60.1	63.6	69.4	77.8	84.6	84.9	84.0	78.2	69.6	62.5	55.7	70.2
2009	54.0	61.2	62.9	68.6	78.2	85.7	87.4	86.3	79.0	71.0	62.5	50.2	70.6
2010	49.1	48.5	59.1	69.5	79.5	84.8	84.0	87.8	81.4	73.0	62.2	55.5	69.5
2011	51.4	55.0	66.6	75.0	78.8	86.2	87.2	90.4	82.9	70.8	63.1	54.6	71.8
2012	58.8	60.1	69.1	73.6	78.9	83.7	83.0	86.1	79.7	70.9	62.9	58.7	72.1
2013	55.5	58.4	61.3	66.6	75.5	84.4	84.1	85.3	82.4	71.3	58.1	51.4	69.5
2014	49.5	54.7	58.8	69.4	74.1	82.5	83.7	84.6	80.6	72.8	57.4	57.0	68.8
2015	49.8	52.6	62.5	72.5	77.0	82.2	86.1	85.0	79.9	73.3	63.1	59.4	70.3
2016	52.4	59.1	65.4	69.0	74.5	82.1	87.1	84.6	82.7	75.0	66.7	58.6	71.4
2017	59.9	66.4	68.2	71.8	76.3	82.1	85.3	83.7	79.8	72.0	67.2	53.7	72.2
2018	48.7	62.5	67.6	66.9	79.8	84.9	85.8	85.3	80.7	72.3	58.7	55.6	70.7
POR= 52 YRS	52.4	55.8	62.5	69.3	76.1	81.8	83.9	83.9	79.3	70.8	61.3	54.5	69.3

**HEATING DEGREE DAYS (base 65°F) 2018 HOUSTON (KIAH)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1989-90	0	0	0	47	160	637	264	177	122	34	0	0	1441
1990-91	0	0	0	61	129	395	448	222	115	8	0	0	1378
1991-92	0	0	0	15	289	303	428	197	95	37	4	0	1368
1992-93	0	0	0	1	270	268	351	235	157	62	0	0	1344
1993-94	0	0	0	76	269	343	391	291	136	40	1	0	1547
1994-95	0	0	0	21	75	268	347	192	155	28	0	0	1086
1995-96	0	0	4	8	145	303	408	267	259	54	0	0	1448
1996-97	0	0	1	29	159	280	458	287	77	70	0	0	1361
1997-98	0	0	0	58	282	454	254	276	212	57	0	0	1593
1998-99	0	0	0	8	92	349	276	153	106	25	0	0	1009
1999-00	0	0	0	51	114	355	298	152	72	50	0	0	1092
2000-01	0	0	5	51	267	532	480	207	262	19	0	0	1823
2001-02	0	0	0	57	111	311	343	395	181	11	1	0	1410
2002-03	0	0	0	13	201	332	461	314	135	24	0	0	1480
2003-04	0	0	0	12	105	342	328	328	29	33	0	0	1177
2004-05	0	0	0	3	121	350	303	210	144	19	3	0	1153
2005-06	0	0	0	36	138	375	203	278	90	1	0	0	1121
2006-07	0	0	0	14	132	316	451	288	75	65	0	0	1341
2007-08	0	0	0	23	137	267	407	170	129	28	0	0	1161
2008-09	0	0	0	35	122	319	355	145	152	31	0	0	1159
2009-10	0	0	0	32	108	459	497	455	198	19	0	0	1768
2010-11	0	0	0	7	156	316	421	332	71	10	1	0	1314
2011-12	0	0	0	33	156	331	213	192	40	0	0	0	965
2012-13	0	0	0	40	128	256	323	183	176	67	14	0	1187
2013-14	0	0	0	8	241	443	473	315	214	41	6	0	1741
2014-15	0	0	0	0	248	257	464	350	139	4	0	0	1462
2015-16	0	0	0	1	112	220	390	194	80	20	0	0	1017
2016-17	0	0	0	3	55	259	212	71	52	1	0	0	653
2017-18	0	0	0	36	75	364	503	148	58	46	0	0	1230
2018-	0	0	0	25	243	286							

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**COOLING DEGREE DAYS (base 65°F) 2018 HOUSTON (KIAH)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1989	33	44	105	194	405	454	547	526	363	218	105	5	2999
1990	20	19	65	174	413	603	536	630	456	181	87	47	3231
1991	0	14	76	231	408	514	593	565	376	248	47	37	3109
1992	0	17	74	155	281	508	584	476	437	210	32	20	2794
1993	4	10	42	92	267	506	652	674	463	221	31	27	2989
1994	15	25	74	186	347	561	644	569	406	243	102	33	3205
1995	24	22	98	142	406	476	622	622	508	183	42	65	3210
1996	15	89	53	192	513	475	587	532	384	205	78	51	3174
1997	23	21	94	52	274	432	567	570	426	187	9	0	2655
1998	16	6	64	90	429	621	678	616	524	250	75	50	3419
1999	37	60	73	270	365	515	568	685	395	182	35	11	3196
2000	41	64	126	143	413	495	632	622	443	242	51	0	3272
2001	2	51	3	230	344	474	585	581	370	123	70	40	2873
2002	27	2	72	272	380	507	611	590	449	223	24	17	3174
2003	6	6	31	196	495	538	575	617	387	228	111	3	3193
2004	17	1	108	176	379	491	616	570	495	398	37	11	3299
2005	41	42	51	109	329	558	611	615	558	233	131	14	3292
2006	23	17	116	265	370	499	574	625	441	252	70	34	3286
2007	9	19	108	125	360	530	539	640	513	280	106	48	3277
2008	17	32	93	166	403	594	625	594	403	184	54	38	3203
2009	19	44	92	150	418	627	699	665	430	227	40	8	3419
2010	9	0	21	162	455	599	598	710	497	259	81	26	3417
2011	3	58	126	314	432	640	693	793	543	221	103	16	3942
2012	30	56	174	264	435	567	563	662	448	230	72	70	3571
2013	35	5	65	120	345	591	596	636	528	212	42	29	3204
2014	0	34	32	181	294	533	588	614	474	249	29	15	3043
2015	0	10	68	236	378	523	660	630	456	265	64	56	3346
2016	6	31	99	143	302	520	693	614	536	320	113	67	3444
2017	60	119	158	211	361	521	636	586	451	261	149	19	3532
2018	5	83	144	113	469	606	653	637	476	259	62	3	3510

## SNOWFALL (inches) 2018 HOUSTON (KIAH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	T
1996-97	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1998-99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004-05	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	0.0	T
2005-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008-09	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	T	0.0	0.0	0.0	1.4
2009-10	0.0	0.0	0.0	0.0	0.0	1.0	0.0	T	0.0	0.0	0.0	0.0	1.0
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011-12	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	T
2012-13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013-	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013-14	0.0	T	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
2014-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015-16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016-17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2017-18	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.8
2018-	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POR= 50 YRS	T	T	0.0	0.0	T	0.1	0.1	0.1	T	T	T	T	0.3

WBAN : 12960

### REFERENCE NOTES :

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).

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).

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.

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

CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.

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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

<http://www.ncdc.noaa.gov/homr/>

SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

### NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

# 2018 HOUSTON TEXAS (KIAH)

Houston, the largest city in Texas, is located in the flat Coastal Plains, about 50 miles from the Gulf of Mexico and about 25 miles from Galveston Bay. The climate is predominantly marine. The terrain includes numerous small streams and bayous which, together with the nearness to Galveston Bay, favor the development of both ground and advective fogs. Prevailing winds are from the southeast and south, except in January, when frequent passages of high pressure areas bring invasions of polar air and prevailing northerly winds.

Temperatures are moderated by the influence of winds from the Gulf, which result in mild winters. Another effect of the nearness of the Gulf is abundant rainfall, except for rare extended dry periods. Polar air penetrates the area frequently enough to provide variability in the weather.

Records of sky cover for daylight hours indicate about one-fourth of the days per year as clear, with a high number of clear days in October and November. Cloudy days are relatively frequent from December to May and partly cloudy days are the more frequent for June through September. Sunshine averages nearly 60 percent of the possible amount for the year ranging from 42 percent in January to 67 percent in June.

Heavy fog occurs on an average of 16 days a year and light fog occurs about 62 days a year in the city. The frequency of heavy fog is considerably higher at William P. Hobby Airport and at Intercontinental Airport.

Destructive windstorms are fairly infrequent, but both thundersqualls and tropical storms occasionally pass through the area.

# Station History

HOUSTON, TX

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
HOUSTON INTERCONTINENTAL AP	1969-06-01	1973-01-01	29° 58'	-95° 22'	102		AIRWAYS, COOP
HOUSTON INTERCONTINENTAL AP	1973-01-01	1981-12-31	29° 58'	-95° 21'	96		COOP, WXSVC
HOUSTON INTERCONTINENTAL AP	1981-12-31	1996-06-01	29° 58'	-95° 21'	96		COOP
HOUSTON INTERCONTINENTAL AP	2017-10-01	Present	29° 58'	-95° 21'	95		ASOS, COOP, PLCD
HOUSTON INTERCONTINENTAL AP	2011-04-15	2017-10-01	29° 58'	-95° 21'	95		ASOS, COOP
HOUSTON INTERCONTINENTAL AP	1996-06-01	2002-04-18	29° 59'	-95° 21'	95		ASOS, COOP
HOUSTON INTERCONTINENTAL AP	2002-04-18	2011-04-15	29° 58'	-95° 21'	95	200 YD S	ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1990-08-07	1996-06-01	DAILY	2400	SRG		
PRECIP	1990-08-07	1996-06-01	HOURLY	2400	UNIV	RCRD	
PRECIP	2009-06-11	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1996-06-01	2002-04-01	DAILY	2400	HYGR		
TEMP	2002-04-01	2009-06-11	DAILY	2400	ATEMP		
TEMP	1990-08-07	1996-06-01	DAILY	2400	HYGR		
PRECIP	1996-06-01	2002-04-01	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	2002-04-01	2009-06-11	HOURLY	2400	AHTB	RCRD;HTD	
WIND	2002-04-01	2009-06-11	HOURLY	UNKN	ANEMCUP		
PRECIP	2009-06-11	Present	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	1969-06-01	1990-08-07	DAILY	2400	SRG		
PRECIP	1969-06-01	1990-08-07	HOURLY	2400	UNIV	RCRD	
PRECIP	1996-06-01	2002-04-01	HOURLY	2400	AHTB	RCRD;HTD	
WIND	1996-06-01	2002-04-01	HOURLY	UNKN	ANEMCUP		
WIND	2009-06-11	Present	HOURLY	UNKN	ANEMSONIC		
TEMP	2009-06-11	Present	DAILY	2400	ATEMP		
TEMP	1969-06-01	1990-08-07	DAILY	2400	MXMN		
PRECIP	2002-04-01	2009-06-11	DAILY	2400	AHTB	RCRD;HTD	

\* 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

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TDD : (828) 271-4010

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

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Asheville, NC 28801-5001

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