



NOVEMBER 2017 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

HOUSTON, TX

G BUSH INTERCONTINENTAL AP/HOUSTON AP (KIAH)

Lat:29° 58'N Long: 95° 21'W Elev (Ground) 95 Feet

Time Zone : CENTRAL

WBAN: 12960 ISSN#: 0198-5094



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0600 LST 11	1200 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	81	67	74	9	70	71	0	9	RA BR	0		0.0	0.44	29.76	29.88	5.5	20	6.5	24	21	16	22	01	
02	88	73	81	16	73	75	0	16	BR	0		0.0	0.00	29.86	29.97	6.7	19	7.1	21	21	15	22	02	
03	87	74	81	16	73	75	0	16		0		0.0	0.00	29.93	30.04	4.9	17	5.9	19	16	15	13	03	
04	87	67	77	13	71	73	0	12	FG+ FG MIFG BR	0		0.0	0.00	29.88	30.00	5.0	18	5.4	17	27	13	21	04	
05	88	74	81	17	72	74	0	16		0		0.0	0.00	29.85	29.96	7.9	19	8.1	24	19	16	19	05	
06	89*	73	81*	17	71	74	0	16		0		0.0	0.00	29.88	30.00	6.5	20	7.3	20	16	14	20	06	
07	88	65	77	14	69	72	0	12	MIFG BR	0		0.0	0.00	29.93	30.04	1.9	30	6.0	21	35	18	35	07	
08	65	55	60	-3	54	56	5	0	RA DZ BR	0		0.0	0.01	30.03	30.13	11.1	36	11.2	22	01	18	36	08	
09	66	52	59	-4	51	54	6	0	RA	0		0.0	0.05	30.11	30.21	9.3	01	9.9	20	02	17	03	09	
10	70	48	59	-4	49	54	6	0		0		0.0	0.00	30.09	30.22	5.6	06	7.0	17	10	13	08	10	
11	76	55	66	4	55	59	0	1		0		0.0	0.00	30.03	30.15	6.8	11	8.3	21	14	16	15	11	
12	81	58	70	8	58	62	0	5	RA	0		0.0	T	30.09	30.19	3.5	09	4.7	16	11	12	13	12	
13	79	60	70	9	60	63	0	5		0		0.0	0.00	30.13	30.24	3.8	07	5.1	16	10	10	12	13	
14	79	58	69	8	60	63	0	4		0		0.0	0.00	29.99	30.13	6.1	13	6.7	15	14	14	15	14	
15	81	68	75	14	64	66	0	10	MIFG BR	0		0.0	0.00	29.92	30.04	4.4	13	5.4		10	15	15	15	
16	81	67	74	13	68	69	0	9	BR	0		0.0	0.00	29.95	30.07	6.8	14	9.6		15	14	16	16	
17	86	68	77	17	68	70	0	12		0		0.0	0.00	29.83	29.97	7.6	18	8.0	22	16	17	17	17	
18	84	57	71	11	60	65	0	6		0		0.0	0.00	29.85	29.93	7.0	31	13.0	36*	33	23*	35	18	
19	67	44	56	-4	37	47	9	0		0		0.0	0.00	30.14	30.24	9.1	01	10.1	33	01	21	36	19	
20	68	41	55	-5	43	49	10	0		0		0.0	0.00	30.01	30.15	5.5	13	6.4	19	14	16	15	20	
21	77	49	63	4	57	60	2	0		0		0.0	0.00	29.83	29.95	3.9	07	6.9	20	04	16	06	21	
22	70	49	60	1	48	53	5	0		0		0.0	0.00	30.09	30.19	10.9	35	11.4	27	34	17	01	22	
23	66	38	52*	-7	38	45	13	0		0		0.0	0.00	30.01	30.14	2.0	35	3.0		8	08	23	23	
24	73	38*	56	-3	41	49	9	0		0		0.0	0.00	29.85	29.99	3.1	18	3.6		9	16	24	24	
25	81	48	65	7	56	59	0	0		0		0.0	0.00	29.91	30.01	3.1	14	3.9	16	14	14	13	25	
26	77	53	65	7	51	56	0	0	MIFG	0		0.0	0.00	30.09	30.19	3.4	05	4.2		8	01	26	26	
27	74	46	60	2	46	52	5	0		0		0.0	0.00	30.01	30.14	4.1	13	4.7	16	13	14	14	27	
28	77	46	62	5	57	59	3	0	FG+ FG MIFG	0		0.0	0.00	29.97	30.08	5.5	13	6.1		15	11	28	28	
29	74	55	65	8	60	61	0	0	FG+ MIFG BR	0		0.0	0.00	30.05	30.16	0.9	35	2.0		7	33	29	29	
30	77	49	63	6	46	54	2	0		0		0.0	0.00	30.06	30.17	4.6	35	4.8	19	36	14	02	30	

77.9	56.5	67.2	☼	57.5	61.3	2.5	5.0	< MONTHLY AVERAGES TOTALS >				0.0	0.50	29.97	30.09	1.3	11	6.7	< MONTHLY AVERAGES			
5.4	4.4	4.9		-----DEPARTURE FROM NORMAL -----								-3.84				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 0.44 DATE : 01				SEA LEVEL PRESSURE				DATE TIME			
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.35 19 1035			
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.82 18 0539			
HEATING :		75 -80		111 -74		NUMBER OF DAYS WITH ->		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 3			
COOLING :		149 75		3513 385				MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 1			
								THUNDERSTORMS : 0		HEAVY FOG : 3		SNOWFALL >= 1.0 INCH : 0			

NOVEMBER 2017
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
NOVEMBER 2017

WBAN # 12960

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01		0.02	0.12	0.27	0.03	T							01												01	0.44	0.44	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08			T	T	T	0.01	T	T	T	T	T	08	0.01	0.01	
09	T	0.05	T	T									09												09	0.05	0.05	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	T	T	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.11	0.12	0.14	0.18	0.20	0.25	0.28	0.32	0.38	0.40	0.42	0.43
Ending Date	01	01	01	01	01	01	01	01	01	01	01	01
Ending Time (Hr/Min)	0324	0327	0323	0327	0334	0352	0400	0334	0352	0400	0440	0440

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

Date and time are not entered for TRACE amounts.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one).

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '-' = Light

HOUSTON, TX NOVEMBER 2017

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	4.00	10.00
02	4.00	10.00
03	7.00	10.00
04	0.25	10.00
05	10.00	10.00
06	10.00	10.00
07	5.00	10.00
08	4.00	10.00
09	7.00	10.00
10	7.00	10.00
11	8.00	10.00
12	10.00	10.00
13	8.00	10.00
14	7.00	10.00
15	3.00	10.00
16	3.00	10.00
17	4.00	10.00
18	8.00	10.00
19	10.00	10.00
20	10.00	10.00
21	10.00	10.00
22	10.00	10.00
23	10.00	10.00
24	8.00	10.00
25	10.00	10.00
26	7.00	10.00
27	10.00	10.00
28	0.00	10.00
29	0.00	10.00
30	0.00	10.00
AVGS	6.47	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
4	6	19

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
NOVEMBER 2017

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0655 NOV 25 SUNSET: 1722												
03	FEW	250	10.00		48	46	47	93	0	00	29.82	29.93
06	FEW	250	10.00		50	49	49	96	0	00	29.82	29.93
09	CLR	NC	10.00		66	60	62	81	3	VR	29.89	29.99
12	SCT	250	10.00		77	61	67	58	7	20	29.89	30.00
15	BKN	250	10.00		79	58	66	49	10	12	29.85	29.96
18	SCT	250	10.00		71	61	65	71	9	14	29.92	30.02
21	FEW	250	10.00		64	60	62	87	5	13	29.98	30.10
24	BKN	250	10.00		59	58	58	96	0	00	30.03	30.14
SUNRISE: 0655 NOV 26 SUNSET: 1722												
03	BKN	250	8.00	MIFG	56	56	56	100	0	00	30.05	30.15
06	SCT	250	8.00		55	54	54	96	0	00	30.09	30.20
09	CLR	NC	10.00		61	51	56	70	7	06	30.16	30.27
12	CLR	NC	10.00		72	48	59	43	7	04	30.14	30.26
15	SCT	250	10.00		76	49	61	39	8	04	30.08	30.19
18	FEW	250	10.00		63	51	56	65	0	00	30.08	30.19
21	CLR	NC	10.00		60	48	54	65	5	04	30.10	30.20
24	CLR	NC	10.00		55	45	50	69	0	00	30.09	30.20
SUNRISE: 0656 NOV 27 SUNSET: 1722												
03	CLR	NC	10.00		50	42	46	74	0	00	30.08	30.19
06	FEW	250	10.00		48	41	45	77	5	10	30.06	30.18
09	FEW	250	10.00		58	42	50	56	0	00	30.10	30.21
12	FEW	250	10.00		70	43	56	38	7	11	30.06	30.17
15	CLR	NC	10.00		73	43	57	34	8	11	29.97	30.08
18	CLR	NC	10.00		64	51	57	63	10	13	29.97	30.08
21	CLR	NC	10.00		57	52	54	83	8	14	30.00	30.10
24	CLR	NC	10.00		50	48	49	93	3	12	29.98	30.09
SUNRISE: 0657 NOV 28 SUNSET: 1722												
03	CLR	NC	10.00		46	46	46	100	3	10	29.94	30.05
06	CLR	NC	10.00		50	49	49	96	0	00	29.94	30.05
09	CLR	NC	10.00		62	58	60	86	3	12	29.97	30.08
12	SCT	030	10.00		75	61	66	62	9	18	29.97	30.08
15	SCT	030	10.00		74	63	67	69	15	11	29.93	30.04
18	FEW	020	10.00		68	62	64	81	9	13	29.95	30.06
21	CLR	NC	10.00		64	62	63	93	3	12	30.02	30.13
24	VV	002	0.00	FG	64	64	64	100	0	00	30.05	30.16
SUNRISE: 0658 NOV 29 SUNSET: 1722												
03	VV	002	0.00	FG	63	63	63	100	5	08	30.05	30.15
06	VV	002	0.00	FG	63	63	63	100	0	00	30.06	30.16
09	VV	002	0.00	FG	63	63	63	100	6	33	30.11	30.22
12	OVC	008	7.00		65	62	63	90	7	33	30.09	30.20
15	SCT	023	10.00		72	62	66	71	0	00	30.03	30.14
18	FEW	250	10.00		64	62	63	93	0	00	30.02	30.13
21	FEW	250	10.00		58	56	57	93	0	00	30.06	30.16
24	SCT	250	10.00		57	53	55	87	0	00	30.06	30.17
SUNRISE: 0659 NOV 30 SUNSET: 1721												
03	FEW	250	10.00		56	47	51	72	3	31	30.03	30.14
06	FEW	250	10.00		53	45	49	74	5	34	30.06	30.17
09	FEW	250	10.00		61	49	55	65	8	36	30.11	30.23
12	CLR	NC	10.00		73	44	57	35	11	36	30.09	30.20
15	FEW	250	10.00		77	40	57	26	9	01	30.01	30.12
18	FEW	015	10.00		65	44	54	47	5	32	30.03	30.14
21	CLR	NC	10.00		59	47	53	64	0	00	30.06	30.18
24	CLR	NC	10.00		53	47	50	80	0	00	30.08	30.19

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

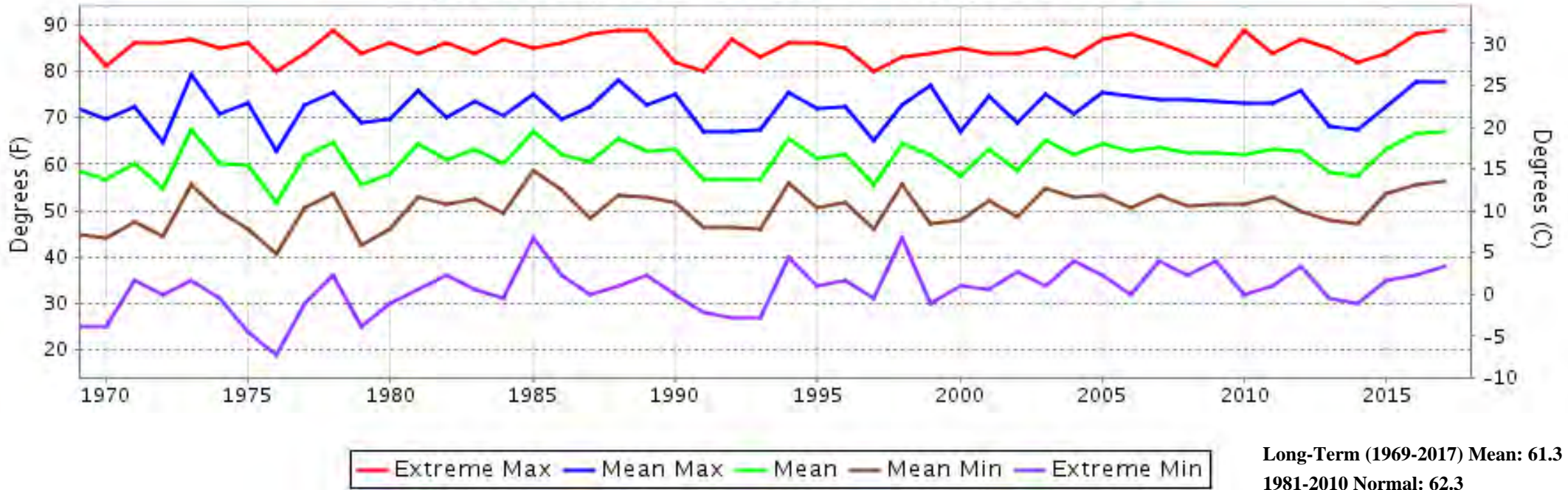
& = Original observation contained additional weather elements.

See page 3 for additional notes.

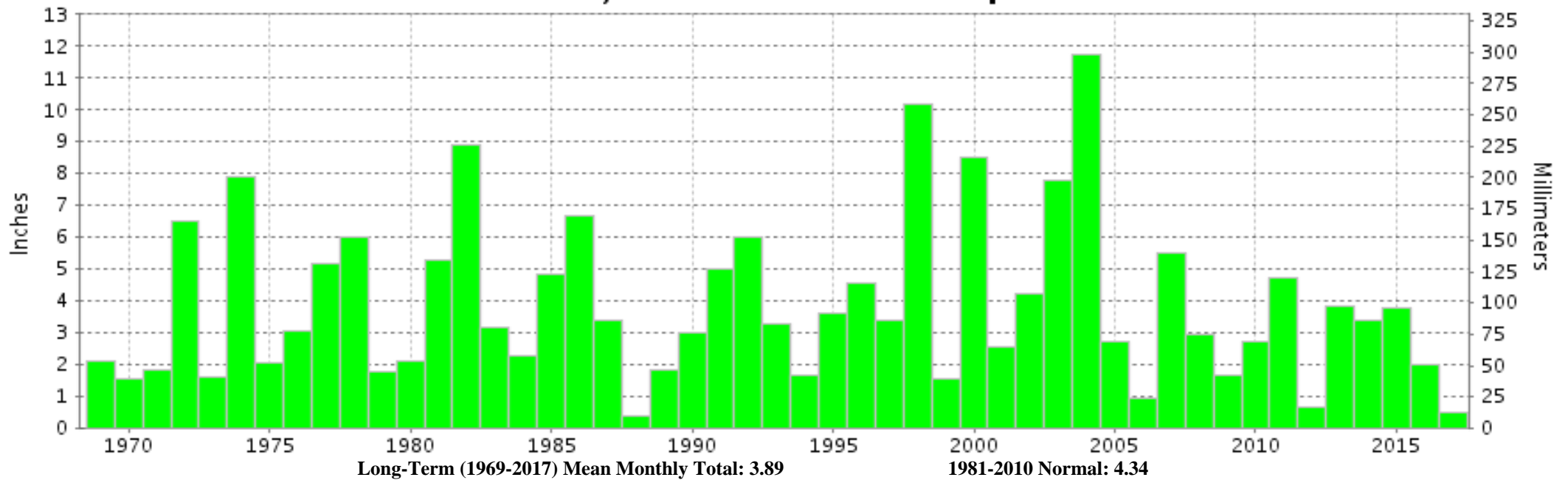
SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	62	58	59	88	29.97	30.08	9.00	6	2	11
02	61	57	59	88	29.97	30.08	8.93	5	1	12
03	60	57	59	89	29.97	30.08	9.00	5	2	11
04	60	57	58	90	29.97	30.08	8.73	5	1	12
05	60	57	58	91	29.97	30.08	8.57	3	1	12
06	60	57	58	90	29.98	30.09	8.54	4	2	11
07	59	57	58	91	29.99	30.10	8.44	5	1	11
08	62	58	60	88	30.01	30.12	8.51	5	2	11
09	65	59	62	80	30.02	30.13	9.12	8	2	10
10	69	58	63	70	30.03	30.14	9.57	8	2	10
11	72	58	63	63	30.02	30.13	9.63	9	2	11
12	74	58	64	59	30.00	30.11	9.90	9	0	18
13	75	57	65	55	29.97	30.07	10.00	8	1	24
14	76	57	65	52	29.94	30.05	10.00	8	1	14
15	76	57	65	52	29.93	30.04	9.90	9	1	11
16	76	57	65	53	29.93	30.04	9.70	9	1	11
17	73	57	64	59	29.94	30.05	9.70	8	3	10
18	69	58	63	68	29.95	30.06	9.73	8	3	10
19	68	58	62	73	29.96	30.07	9.80	8	2	10
20	66	58	61	77	29.97	30.09	9.80	7	2	10
21	65	58	61	80	29.99	30.09	9.80	7	2	10
22	63	58	60	84	29.99	30.10	9.28	6	2	10
23	62	58	60	86	29.99	30.10	9.20	6	2	10
24	62	57	59	87	29.99	30.10	9.17	5	1	12

HOUSTON, TX NOVEMBER Temperatures



HOUSTON, TX NOVEMBER Precipitation





NOVEMBER 2017
HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.

A handwritten signature in black ink that reads "Mary A. Wohlgemuth".

DIRECTOR

NCEI now offers free online access to the **Edited Local Climatological Data Publication**. Go to : www.ncdc.noaa.gov and choose Most Popular.

We welcome your questions or comments, please contact us at:
(828) 271-4800, option 2
Fax Number : 828-271-4876
TDD : (828) 271-4010
or Email : ncdc.orders@noaa.gov

NOAA\National Centers for Environmental Information
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001