



DECEMBER 2015 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



DECEMBER 2015
HOUSTON, TX

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			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	57	50	54	-3	50	51	11	0	RA DZ BR	0		0.0	0.02	29.90	30.01	6.1	36	6.6	15	02	12	35	01	
02	61	46	54	-2	44	48	11	0		0		0.0	0.00	30.01	30.13	4.6	35	5.2	23	27	14	34	02	
03	62	40	51	-5	39	45	14	0		0		0.0	0.00	30.23	30.34	4.6	02	5.9	17	05	15	06	03	
04	61	38	50	-6	38	44	15	0		0		0.0	0.00	30.32	30.43	3.0	05	3.6	14	09	9	04	04	
05	66	37*	52	-4	40	44	13	0		0		0.0	0.00	30.32	30.43	0.6	08	0.9	23	09	6	35	05	
06	70	39	55	0	44	49	10	0	BR	0		0.0	0.00	30.26	30.37	2.1	32	2.2	23	22	9	34	06	
07	70	45	58	3	48	51	7	0		0		0.0	0.00	30.13	30.24	0.6	17	1.1	14	05	6	20	07	
08	72	42	57	2	52	55	8	0	MIFG BR HZ	0		0.0	0.00	29.92	30.06	3.4	18	3.7	18	22	13	18	08	
09	75	49	62	7	56	58	3	0	FG+ BR	0		0.0	0.00	29.85	29.98	2.6	22	3.5	18	26	14	24	09	
10	78	51	65	10	62	64	0	0	BCFG BR	0		0.0	0.00	29.75	29.88	6.9	20	7.1	28	18	17	20	10	
11	81	71	76	22	67	69	0	11		0		0.0	0.00	29.76	29.87	9.3	18	10.0	26	17	20	16	11	
12	77	71	74	20	69	71	0	9	RA	0		0.0	0.04	29.72	29.85	16.8	16	16.9	37	15	28	15	12	
13	74	49	62	8	56	57	3	0	RA BR	0		0.0	2.10	29.62	29.75	6.3	17	11.4	48*	16	28	17	13	
14	72	49	61	7	47	53	4	0	HZ	0		0.0	0.00	29.70	29.81	4.9	21	5.2	18	23	10	20	14	
15	77	48	63	9	59	61	2	0	RA BCFG BR	0		0.0	0.02	29.63	29.76	7.1	15	7.5	22	13	18	14	15	
16	70	50	60	7	46	54	5	0	TS TSRA RA BR	0		0.0	1.30	29.79		9.2	35	8.3	23	35	16	01	16	
17	63	42	53	0	36	45	12	0		0		0.0	0.00	29.95	30.03	3.1	33	4.8	18	28	13	04	17	
18	61	40	51	-2	34	42	14	0		0		0.0	0.00	30.24	30.32	4.7	35	5.7	20	34	15	34	18	
19	63	38	51	-2	40	45	14	0		0		0.0	0.00	30.32	30.42	6.4	12	6.8	20	15	15	15	19	
20	69	46	58	5	56	58	7	0	BR	0		0.0	0.00	30.01	30.18	7.9	13	8.6	29	14	25	14	20	
21	74	61	68	15	65	66	0	3	TS TSRA RA MIFG BR	0		0.0	0.30	29.83	29.97	2.8	21	3.5	20	16	16	16	21	
22	72	55	64	11	63	64	1	0	RA FG+ FG BCFG BR HZ	0		0.0	0.01	29.62	29.76	5.2	15	5.7	23	15	18	16	22	
23	81	58	70	17	61	65	0	5	RA	0		0.0	T	29.49	29.61	5.0	21	6.9	25	22	17	23	23	
24	79	56	68	16	69	70	0	3	FG+ BCFG BR HZ	0		0.0	0.00	29.73	29.82	5.0	15	5.2	17	18	14	13	24	
25	83*	73	78*	26	72	73	0	13	RA DZ BR	0		0.0	0.01	29.81	29.92	8.1	17	8.3	24	17	17	16	25	
26	80	73	77	25	71	73	0	12	RA BR	0		0.0	0.06	29.70	29.83	15.7	16	15.8	35	16	28	15	26	
27	78	46	62	10	63	64	3	0	TS TSRA RA FG BR	0		0.0	1.33	29.54	29.65	11.6	17	17.8	46	16	37*	16	27	
28	51	40	46*	-6	35	41	19	0	RA	0		0.0	0.01	29.80	29.89	10.7	28	11.8	30	25	23	27	28	
29	52	41	47	-5	39	44	18	0	RA	0		0.0	T	29.96	30.06	3.4	06	5.6	17	01	13	01	29	
30	57	48	53	1	45	48	12	0	RA	0		0.0	0.01	30.07	30.18	7.7	01	8.1	20	02	16	36	30	
31	55	47	51	-1	40	46	14	0	RA	0		0.0	T	30.15	30.26	11.4	02	11.6	21	03	17	02	31	
69.1		49.6	59.4	Σ	51.8	55.4	7.1	1.8	< MONTHLY AVERAGES TOTALS >			0.0	5.21	29.91	30.03	1.9	16	7.3	< MONTHLY AVERAGES					
4.8		5.0	5.0		<----- DEPARTURE FROM NORMAL ----->							1.47	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 2.14 DATE : 12-13				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM :				30.52		19		1108			
SEASON TO DATE									GREATEST SNOW DEPTH : 0 DATE :				MINIMUM :				29.49		27		1553			
TOTAL DEPARTURE									TOTAL DEPARTURE				NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 12			
HEATING : 220 -134									333 -206				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 4					
COOLING : 56 129									3346 191				THUNDERSTORMS : 3				HEAVY FOG : 3		SNOWFALL >= 1.0 INCH : 0					

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
DECEMBER 2015

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						T	T	0.02	T	T			01												01	0.02	0.02	
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												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12												T	12				0.01	T	0.02	0.01			T	T	12	0.04	0.04	
13	0.08	0.03	T	0.01	0.07	T	T	0.64	0.31	0.18	0.11	0.20	13	0.36	0.09	T	0.02	T	T					13	2.10	2.10		
14													14												14	0.00	0.00	
15													15								T	T		0.02	15	0.02	0.02	
16	T	0.26	0.53	0.05	0.46	T	T						16												16	1.30	1.30	
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			0.04	0.01	T	T	T	0.24		0.01	T	T	21												21	0.30	0.30	
22													22					T	T	T	0.01				22	0.01	0.01	
23									T	T			23												23	T	T	
24													24												24	0.00	0.00	
25	T	0.01											25				T	T			T	T			25	0.01	0.01	
26	T	0.01	0.01	0.01	T	0.01	0.02	T	T	T	T		26			T	T			T	T	T	T		26	0.06	0.06	
27	T	T	T		T	T	0.01	0.01	T	T	0.01	T	27	T		T	0.51	0.68	0.10	T	T	0.01	T		27	1.33	1.33	
28	0.01	T	T										28												28	0.01	0.01	
29													29												29	T	T	
30	T	0.01	T	T	T								30												30	0.01	0.01	
31													31								T	T			31	T	T	

* 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)	0.34	0.47	0.56	0.66	0.79	0.93	1.12	1.19	1.19	1.29	1.29	1.29
Ending Date	27	27	27	27	27	27	27	27	27	27	27	27
Ending Time (Hr/Min)	1711	1712	1717	1711	1719	1716	1719	1727	1727	1815	1815	1815

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	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

HOUSTON, TX DECEMBER 2015

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	1.50	10.00
02	8.00	10.00
03	10.00	10.00
04	10.00	10.00
05	10.00	10.00
06	6.00	10.00
07	8.00	10.00
08	3.00	10.00
09	0.25	10.00
10	2.00	10.00
11	7.00	10.00
12	8.00	10.00
13	1.50	10.00
14	9.00	10.00
15	6.00	10.00
16	4.00	10.00
17	7.00	10.00
18	10.00	10.00
19	8.00	10.00
20	4.00	10.00
21	4.00	10.00
22	0.12	10.00
23	5.00	10.00
24	0.12	8.00
25	4.00	10.00
26	6.00	10.00
27	2.00	10.00
28	9.00	10.00
29	10.00	10.00
30	7.00	10.00
31	10.00	10.00
AVGS	5.82	9.94
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
3	8	15

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
DECEMBER 2015

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: 0715 DEC 25 SUNSET: 1728					74	73	73	97	7	18	29.82	29.93
03	OVC	060	7.00		74	72	73	94	6	17	29.83	29.94
06	OVC	042	7.00		75	72	73	90	5	18	29.89	29.99
09	BKN	040	4.00	BR	81	70	74	69	6	VR	29.86	29.96
12	BKN	037	10.00		83	72	75	70	13	17	29.78	29.88
15	BKN	060	10.00		78	73	75	85	10	17	29.78	29.89
18	BKN	250	10.00		76	73	74	91	11	17	29.82	29.93
21	OVC	020	9.00		76	72	73	88	9	17	29.80	29.91
24	OVC	038	9.00									
SUNRISE: 0715 DEC 26 SUNSET: 1729					75	72	73	90	11	17	29.78	29.89
03	BKN	040	9.00	-RA	75	71	72	88	13	16	29.76	29.86
06	OVC	020	9.00		75	71	72	88	13	16	29.80	29.91
09	OVC	022	9.00	-RA	78	71	73	79	21	16	29.76	29.87
12	OVC	031	9.00		79	71	74	77	23	16	29.68	29.79
15	BKN	050	10.00		77	70	72	79	20	16	29.65	29.76
18	OVC	060	10.00		76	70	72	82	17	15	29.66	29.76
21	BKN	065	10.00		74	71	72	91	14	15	29.65	29.75
24	OVC	060	9.00	-RA								
SUNRISE: 0716 DEC 27 SUNSET: 1729					74	71	72	91	21	15	29.59	29.70
03	OVC	030	9.00	-RA	73	70	71	90	16	13	29.56	29.67
06	OVC	055	9.00		74	71	72	91	15	14	29.57	29.67
09	OVC	032	7.00		76	71	73	85	25	17	29.49	29.60
12	OVC	033	7.00	-RA	77	70	72	79	23	17	29.40	29.50
15	OVC	031	9.00		52	51	51	97	14	29	29.47	29.57
18	OVC	020	7.00	-TSRA BR	48	45	47	89	15	28	29.59	29.69
21	OVC	009	10.00	-RA	46	42	44	86	13	26	29.63	29.74
24	OVC	014	10.00	-RA								
SUNRISE: 0716 DEC 28 SUNSET: 1730					43	38	41	82	20	25	29.63	29.74
03	OVC	110	10.00		40	32	37	73	13	25	29.68	29.79
06	BKN	030	10.00		41	32	37	70	17	28	29.77	29.88
09	BKN	026	10.00		48	35	42	61	15	25	29.80	29.91
12	SCT	033	10.00		48	34	42	58	13	29	29.79	29.90
15	BKN	037	10.00		45	33	40	63	11	32	29.85	29.96
18	BKN	030	10.00		44	33	39	65	8	33	29.91	30.02
21	BKN	029	10.00		43	35	40	74	7	30	29.93	30.04
24	BKN	024	10.00									
SUNRISE: 0716 DEC 29 SUNSET: 1731					42	34	39	73	0	00	29.92	30.03
03	OVC	024	10.00		41	36	39	82	5	02	29.94	30.05
06	BKN	250	10.00		43	36	40	76	8	05	29.98	30.10
09	BKN	250	10.00		49	39	44	69	8	15	30.00	30.11
12	BKN	250	10.00		51	40	46	66	8	12	29.92	30.03
15	OVC	049	10.00		51	43	47	74	6	12	29.94	30.05
18	OVC	060	10.00		51	44	48	77	8	04	29.98	30.10
21	OVC	038	10.00		49	44	47	83	11	01	30.03	30.14
24	OVC	019	10.00	-RA								
SUNRISE: 0717 DEC 30 SUNSET: 1731					48	45	47	89	8	04	30.01	30.12
03	OVC	070	10.00		49	46	48	90	7	36	30.03	30.14
06	OVC	022	10.00		50	47	49	89	9	36	30.08	30.19
09	OVC	028	10.00		54	47	50	77	10	36	30.09	30.20
12	OVC	036	10.00		55	45	50	69	9	03	30.06	30.17
15	OVC	042	10.00		54	45	49	72	6	01	30.09	30.20
18	OVC	050	10.00		53	45	49	74	8	35	30.11	30.23
21	OVC	055	10.00		52	45	49	77	8	01	30.11	30.22
24	OVC	080	10.00									

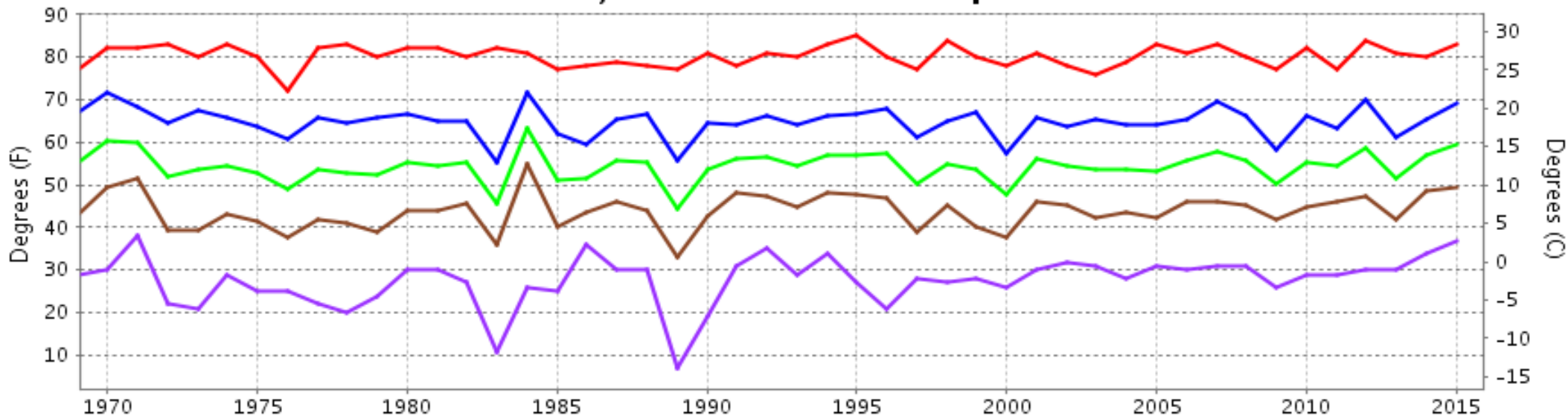
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0717 DEC 31 SUNSET: 1732					50	43	47	77	11	36	30.10	30.22
03	OVC	060	10.00		48	41	45	77	15	01	30.10	30.21
06	OVC	065	10.00		47	40	44	77	13	03	30.16	30.27
09	BKN	250	10.00		52	39	46	61	14	04	30.14	30.26
12	BKN	250	10.00		54	39	47	57	15	03	30.09	30.20
15	OVC	250	10.00		53	39	46	59	8	02	30.14	30.26
18	OVC	250	10.00		51	41	46	69	8	36	30.21	30.32
21	OVC	250	10.00		49	42	46	77	11	01	30.22	30.34
24	OVC	065	10.00									

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	56	52	54	88	29.91	30.02	9.00	6	2	17
02	55	52	54	88	29.91	30.02	8.44	6	2	17
03	55	51	53	89	29.90	30.01	8.27	6	2	19
04	55	51	53	89	29.90	30.01	7.93	6	2	19
05	54	51	53	90	29.90	30.01	7.98	6	2	16
06	54	51	53	90	29.91	30.03	8.20	7	2	16
07	54	51	53	90	29.93	30.05	7.86	6	2	16
08	54	51	53	90	29.94	30.06	7.18	6	2	17
09	57	52	55	85	29.95	30.07	7.62	7	2	15
10	60	53	56	78	29.97	30.08	8.27	8	3	13
11	63	53	57	71	29.96	30.07	9.01	9	2	14
12	65	52	58	66	29.94	30.05	9.21	9	2	17
13	66	52	58	62	29.90	30.01	9.48	10	2	16
14	67	51	59	59	29.88	29.99	9.87	9	2	15
15	67	51	59	59	29.87	29.98	9.84	10	2	14
16	67	51	58	61	29.87	29.98	9.84	9	2	14
17	64	52	57	66	29.87	29.98	9.61	8	2	14
18	61	52	56	75	29.88	29.99	9.71	7	2	14
19	60	52	56	79	29.89	30.00	9.53	7	2	14
20	58	52	55	81	29.91	30.02	9.47	7	2	15
21	58	52	55	82	29.92	30.03	9.48	6	2	16
22	58	52	55	83	29.92	30.04	9.65	8	2	16
23	57	52	55	84	29.93	30.04	9.55	7	2	16
24	56	52	54	87	29.93	30.04	9.23	6	2	18

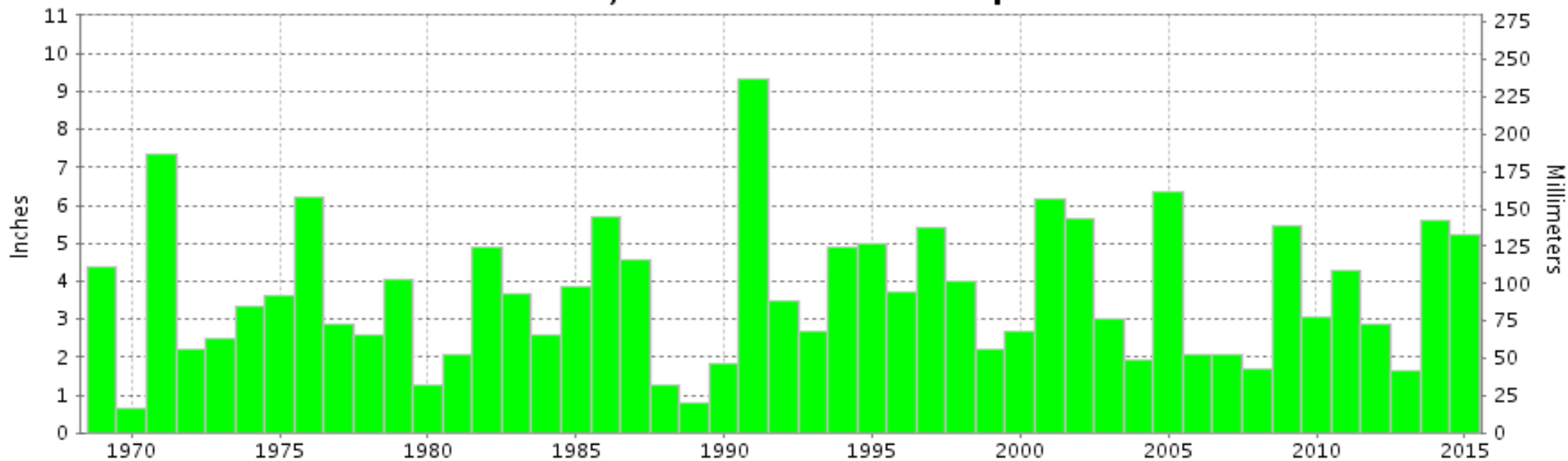
HOUSTON, TX DECEMBER Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1969-2015) Mean: 54.4
1981-2010 Normal: 54.4

HOUSTON, TX DECEMBER Precipitation



Long-Term (1969-2015) Mean Monthly Total: 3.67

1981-2010 Normal: 3.74



**DECEMBER 2015
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, appearing to read "Thomas R. Karl".

DIRECTOR

NCEI now offers free online access to the **Edited Local Climatological Data Publication**. Go to : www.ncdc.noaa.gov/IPS/lcd/lcd.html

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