



DECEMBER 2013 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	70	48	59	2	56	58	6	0		0		0.0	0.00	29.97	30.11	5.1	16	5.2	14	15	12	15	01	
02	77	61	69	13	60	63	0	4		0		0.0	0.00	29.66	29.81	6.4	22	6.7	22	21	15	26	02	
03	80	62	71	15	63	66	0	6		0		0.0	0.00	29.57	29.70	8.2	21	8.5	22	23	15	21	03	
04	81*	70	76*	20	68	70	0	11		0		0.0	0.00	29.66	29.77	7.7	19	8.1	22	23	15	21	04	
05	76	38	57	1	53	55	8	0	RA DZ BR	0		0.0	T	29.83	29.92	8.3	34	11.4	26	34	22	34	05	
06	43	35	39	-16	37	39	26	0	RA	0		0.0	0.01	30.09	30.17	14.6	35	14.7	29	01	23	35	06	
07	38	34	36*	-19	33	34	29	0	RA	0		0.0	T	30.21	30.33	9.5	36	9.7	24	01	18	36	07	
08	47	37	42	-13	38	40	23	0	RA	0		0.0	T	30.02	30.15	4.5	01	5.0	13	33	10	34	08	
09	47	40	44	-11	42	43	21	0	RA BR	0		0.0	0.07	30.05	30.15	9.5	01	10.0	25	35	21	35	09	
10	50	32	41	-14	30	36	24	0		0		0.0	0.00	30.27	30.38	8.2	35	8.4	32	34	26	36	10	
11	53	34	44	-10	36	41	21	0		0		0.0	0.00	30.30	30.41	3.6	01	4.8	14	35	10	36	11	
12	56	36	46	-8	35	40	19	0		0		0.0	0.00	30.34	30.47	4.2	02	5.1	15	04	12	04	12	
13	55	40	48	-6	46	48	17	0	RA FG BR	0		0.0	0.06	29.91	30.09	2.7	09	5.0	16	13	12	29	13	
14	58	39	49	-5	44	47	16	0	FG+ FG BR	0		0.0	0.00	29.96	30.06	10.6	33	11.6	32	36	25	35	14	
15	58	32	45	-9	32	39	20	0		0		0.0	0.00	30.21	30.31	4.6	34	5.1	18	34	14	34	15	
16	63	30*	47	-6	35	41	18	0		0		0.0	0.00	30.17	30.30	1.2	18	1.7	13	15	7	18	16	
17	70	35	53	0	41	46	12	0		0		0.0	0.00	30.17	30.29	0.9	23	1.3	12	26	9	26	17	
18	70	37	54	1	47	50	11	0	BCFG BR	0		0.0	0.00	30.10	30.24	4.6	15	5.1	21	15	17	15	18	
19	75	46	61	8	60	61	4	0	RA	0		0.0	0.03	29.85	29.99	7.5	17	7.6	23	16	18	17	19	
20	77	68	73	20	68	69	0	8	RA BR	0		0.0	T	29.71	29.85	11.0	16	11.4	30	15	20	16	20	
21	75	53	64	11	64	65	1	0	TSRA RA BR	0		0.0	1.48	29.59	29.69	6.6	18	7.6	39*	28	26*	29	21	
22	60	37	49	-4	47	50	16	0	RA	0		0.0	0.01	29.99	30.06	8.9	33	9.4	29	33	24	34	22	
23	54	32	43	-10	32	38	22	0		0		0.0	0.00	30.34	30.42	8.0	36	8.3	22	03	17	01	23	
24	56	31	44	-8	32	38	21	0		0		0.0	0.00	30.32	30.46	2.8	10	3.5	15	11	9	09	24	
25	58	35	47	-5	43	46	18	0	RA	0		0.0	T	30.22	30.34	4.3	08	5.0	17	13	14	13	25	
26	62	47	55	3	44	48	10	0		0		0.0	0.00	30.23	30.35	2.0	03	3.8	13	09	8	11	26	
27	58	47	53	1	40	46	12	0		0		0.0	0.00	30.24	30.37	4.5	04	5.1	18	11	12	09	27	
28	60	41	51	-1	37	44	14	0		0		0.0	0.00	30.03	30.17	0.6	03	1.7	9	31	7	03	28	
29	67	37	52	0	40	46	13	0		0		0.0	0.00	29.97	30.09	1.9	33	2.3	18	34	16	33	29	
30	50	40	45	-7	34	39	20	0		0		0.0	0.00	30.19	30.28	8.9	34	9.1	22	33	17	34	30	
31	49	38	44	-8	35	40	21	0		0		0.0	0.00	30.24	30.37	3.0	03	4.4	18	28	9	03	31	

61.1	41.7	51.4	☼	44.3	47.9	14.3	0.9	< MONTHLY AVERAGES TOTALS >				0.0	1.66	30.04	30.17	1.8	36	6.7	< MONTHLY AVERAGES			
-3.2	-2.9	-3.0		-----DEPARTURE FROM NORMAL -----								-2.08	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 1.49 DATE : 21-22				SEA LEVEL PRESSURE				DATE TIME			
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.57 24 1010			
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.59 21 1253			
HEATING :		443 89		692 153		NUMBER OF DAYS WITH ->		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 5		PRECIPITATION >= 0.01 INCH: 6			
COOLING :		29 2		3204 49		THUNDERSTORMS : 1		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 1			
								HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 0			

DECEMBER 2013
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
DECEMBER 2013

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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	T	T	
06													06												06	0.01	0.01	
07													07												07	T	T	
08													08												08	T	T	
09													09												09	0.07	0.07	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.06	0.06	
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	0.03	0.03	
20													20												20	T	T	
21													21												21	1.48	1.48	
22													22												22	0.01	0.01	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	T	T	
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	
31													31												31	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)	0.21	0.41	0.53	0.59	0.60	0.64	0.78	0.81	0.81	0.81	0.81	0.81
Ending Date	21	21	21	21	21	21	21	21	21	21	21	21
Ending Time (Hr/Min)	1004	1004	1006	1008	1014	1336	1349	1349	1349	1349	1349	1349

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 DECEMBER 2013

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:

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	7.00	10.00
02	7.00	10.00
03	8.00	10.00
04	9.00	10.00
05	3.00	10.00
06	2.50	10.00
07	7.00	10.00
08	2.00	10.00
09	0.50	10.00
10	2.50	10.00
11	10.00	10.00
12	10.00	10.00
13	0.50	10.00
14	0.25	10.00
15	6.00	10.00
16	10.00	10.00
17	10.00	10.00
18	5.00	10.00
19	10.00	10.00
20	2.00	10.00
21	2.00	10.00
22	8.00	10.00
23	10.00	10.00
24	10.00	10.00
25	10.00	10.00
26	8.00	10.00
27	10.00	10.00
28	10.00	10.00
29	10.00	10.00
30	10.00	10.00
31	10.00	10.00
AVGS	6.78	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
1	9	20

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

DECEMBER 2013

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
SUNRISE: 0660					DEC 01					SUNSET: 1721					SUNRISE: 0704					DEC 07					SUNSET: 1722				
03	FEW	045	7.00		50	50	50	100	0	00	30.11	30.22	03	OVC	010	10.00		34	30	32	85	13	36	30.26	30.37				
06	SCT	055	10.00		53	52	52	96	3	10	30.09	30.19	06	OVC	010	10.00		34	30	32	85	13	35	30.24	30.36				
09	OVC	050	10.00		57	55	56	93	6	14	30.10	30.21	09	OVC	008	10.00		35	32	34	89	14	01	30.29	30.40				
12	OVC	060	10.00		66	58	61	75	8	18	30.06	30.17	12	OVC	008	10.00		36	33	35	89	8	34	30.27	30.39				
15	OVC	060	10.00		70	59	63	68	9	15	29.96	30.06	15	OVC	008	10.00		37	34	36	89	9	35	30.19	30.30				
18	BKN	060	10.00		67	59	62	76	8	17	29.91	30.02	18	OVC	011	10.00		37	33	35	86	7	36	30.18	30.29				
21	SCT	130	10.00		64	59	61	84	5	17	29.91	30.01	21	OVC	013	10.00		37	33	35	86	5	35	30.19	30.32				
24	BKN	250	10.00		64	61	62	90	3	20	29.85	29.96	24	OVC	027	10.00		37	35	36	93	6	03	30.16	30.28				
SUNRISE: 0700					DEC 02					SUNSET: 1721					SUNRISE: 0705					DEC 08					SUNSET: 1722				
03	SCT	250	10.00		62	62	62	100	0	00	29.81	29.92	03	OVC	035	10.00		37	34	36	89	3	06	30.10	30.21				
06	SCT	250	10.00		62	61	61	96	5	23	29.76	29.87	06	OVC	055	10.00		38	34	36	86	5	01	30.06	30.18				
09	BKN	250	10.00		65	61	63	87	8	21	29.76	29.87	09	OVC	029	10.00		39	36	38	89	5	33	30.06	30.19				
12	SCT	250	10.00		75	61	66	62	14	23	29.70	29.81	12	OVC	012	10.00		42	37	40	82	6	33	30.06	30.17				
15	FEW	250	10.00		77	59	66	54	8	20	29.61	29.72	15	OVC	030	10.00		47	39	43	74	3	04	29.96	30.07				
18	SCT	250	10.00		71	61	65	71	5	19	29.59	29.70	18	OVC	027	10.00		45	40	43	83	6	01	29.97	30.08				
21	FEW	250	10.00		66	61	63	84	6	19	29.63	29.74	21	OVC	017	10.00		45	41	43	86	5	01	30.02	30.13				
24	CLR	NC	10.00		64	62	63	93	7	21	29.61	29.72	24	OVC	010	2.00		44	43	44	96	5	03	30.02	30.13				
SUNRISE: 0701					DEC 03					SUNSET: 1721					SUNRISE: 0706					DEC 09					SUNSET: 1722				
03	CLR	NC	10.00		64	61	62	90	7	21	29.58	29.69	03	OVC	004	1.50		45	44	45	97	5	02	29.98	30.10				
06	CLR	NC	10.00		63	61	62	93	7	22	29.58	29.68	06	OVC	009	0.50		45	44	45	97	8	02	30.00	30.11				
09	OVC	006	10.00		64	63	63	96	9	21	29.62	29.73	09	OVC	005	10.00		45	44	45	97	9	01	30.05	30.16				
12	SCT	250	10.00		76	64	68	67	11	22	29.59	29.70	12	OVC	007	10.00	-RA	46	43	45	89	10	03	30.02	30.13				
15	SCT	250	10.00		80	62	69	54	9	22	29.52	29.63	15	OVC	007	10.00	-RA	45	44	45	97	7	35	29.98	30.09				
18	BKN	250	10.00		73	63	67	71	6	19	29.55	29.65	18	OVC	008	10.00		43	41	42	93	13	36	30.03	30.14				
21	BKN	250	10.00		70	67	68	90	9	19	29.60	29.70	21	OVC	012	10.00		42	41	42	96	13	35	30.11	30.23				
24	OVC	018	8.00		71	67	68	87	14	22	29.62	29.73	24	OVC	008	10.00		40	38	39	93	15	35	30.19	30.31				
SUNRISE: 0702					DEC 04					SUNSET: 1721					SUNRISE: 0706					DEC 10					SUNSET: 1722				
03	OVC	012	10.00		70	66	67	87	11	21	29.61	29.72	03	OVC	011	10.00		37	34	36	89	16	34	30.24	30.35				
06	OVC	023	10.00		71	66	68	84	7	20	29.63	29.74	06	FEW	016	10.00		33	29	31	85	10	36	30.29	30.41				
09	OVC	019	10.00		71	69	70	94	6	15	29.70	29.81	09	FEW	013	10.00		36	28	33	73	14	36	30.35	30.46				
12	OVC	023	10.00		76	69	71	79	11	20	29.68	29.79	12	FEW	250	10.00		44	27	37	51	9	34	30.32	30.43				
15	BKN	250	10.00		80	67	71	64	10	18	29.62	29.72	15	SCT	250	10.00		49	26	40	41	8	36	30.24	30.36				
18	BKN	250	10.00		75	68	70	79	8	17	29.65	29.76	18	SCT	250	10.00		43	28	37	56	6	03	30.24	30.35				
21	OVC	039	10.00		74	71	72	91	7	16	29.70	29.80	21	SCT	250	10.00		39	30	35	70	0	00	30.26	30.37				
24	OVC	016	10.00		74	72	73	94	6	18	29.72	29.83	24	FEW	250	10.00		35	30	33	82	0	00	30.27	30.38				
SUNRISE: 0703					DEC 05					SUNSET: 1722					SUNRISE: 0707					DEC 11					SUNSET: 1722				
03	OVC	019	10.00		74	72	73	94	6	18	29.71	29.81	03	OVC	075	10.00		37	32	35	82	3	02	30.24	30.36				
06	OVC	250	10.00		73	71	72	94	3	19	29.73	29.84	06	OVC	060	10.00		40	34	37	79	6	06	30.24	30.36				
09	OVC	065	3.00	BR	75	72	73	90	0	00	29.80	29.91	09	OVC	060	10.00		43	35	40	74	5	06	30.29	30.41				
12	OVC	011	3.00		56	48	52	75	15	34	29.85	29.96	12	OVC	060	10.00		48	37	43	66	0	00	30.29	30.41				
15	OVC	013	10.00	-RA	48	42	45	80	20	34	29.82	29.93	15	OVC	049	10.00		53	37	46	55	6	33	30.26	30.37				
18	OVC	011	7.00		44	39	42	83	15	35	29.88	29.98	18	OVC	050	10.00		52	38	46	59	7	01	30.30	30.42				
21	OVC	006	7.00		41	39	40	93	14	35	29.91	30.02	21	SCT	250	10.00		45	38	42	77	3	31	30.37	30.48				
24	OVC	006	8.00		38	37	38	97	15	36	29.92	30.03	24	SCT	250	10.00		42	37	40	82	3	34	30.40	30.52				
SUNRISE: 0703					DEC 06					SUNSET: 1722					SUNRISE: 0708					DEC 12					SUNSET: 1723				
03	OVC	006	2.50		39	38	39	96	13	36	29.90	30.01	03	CLR	NC	10.00		39	35	37	86	7	01	30.40	30.51				
06	OVC	006	2.50		40	39	40	97	10	33	29.94	30.05	06	CLR	NC	10.00		37	34	36	89	3	01	30.40	30.52				
09	OVC	017	10.00	-RA	39	37	38	93	11	34	30.02	30.13	09	BKN	250	10.00		42	35	39	76	10	04	30.45	30.56				
12	OVC	012	10.00	-RA	39	37	38	93	18	35	30.08	30.19	12	BKN	250	10.00		50	33	43	52	5	06	30.42	30.53				
15	OVC	014	10.00		42	37	40	82	17	35	30.08	30.19	15	BKN	250	10.00		55	32	45	42	0	00	30.32	30.44				
18	OVC	010	10.00		39	35	37	86	15	35	30.14	30.26	18	BKN	250	10.00		49	35	43	59	5	VR	30.29	30.41				
21	OVC	011	10.00		35	31	33	85	15	35	30.22	30.34	21	BKN	250	10.00		44	36	41	73	6	06	30.29	30.41				
24	OVC	011	10.00		35	31	33	85	15	35	30.26	30.37	24	SCT	250	10.00		43	38	41	82	3	35	30.26	30.37				

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

DECEMBER 2013

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F					WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F					WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL	DRY BULB						DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL		
																										DRY BULB	DEW POINT
SUNRISE: 0708 DEC 13					SUNSET: 1723					SUNRISE: 0712 DEC 19					SUNSET: 1725												
03	BKN	250	10.00		42	38	40	85	5	12	30.14	30.26	03	FEW	040	10.00		50	50	50	100	0	00	29.96	30.07		
06	SCT	250	10.00		43	37	40	80	5	06	30.11	30.22	06	BKN	055	10.00		56	54	55	93	0	00	29.93	30.03		
09	BKN	200	10.00		48	39	44	71	8	11	30.06	30.18	09	OVC	065	10.00		61	58	59	90	6	16	29.93	30.04		
12	OVC	018	10.00		54	45	49	72	7	10	29.98	30.09	12	BKN	070	10.00		74	63	67	69	14	16	29.89	30.00		
15	OVC	006	2.00	-RA BR	53	52	52	96	3	VR	29.87	29.98	15	BKN	075	10.00		73	65	68	76	8	18	29.79	29.90		
18	OVC	003	1.00	-RA BR	53	53	53	100	10	12	29.76	29.87	18	BKN	080	10.00		71	65	67	81	14	16	29.79	29.90		
21	OVC	003	0.50	-RA FG	54	54	54	100	7	30	29.82	29.93	21	BKN	055	10.00		69	66	67	90	8	17	29.81	29.91		
24	BKN	095	5.00	BR	53	53	53	100	5	21	29.80	29.91	24	OVC	017	10.00		69	67	68	93	15	17	29.79	29.90		
SUNRISE: 0709 DEC 14					SUNSET: 1723					SUNRISE: 0712 DEC 20					SUNSET: 1726												
03	SCT	100	2.00	BR	48	48	48	100	0	00	29.76	29.87	03	OVC	028	10.00		69	67	68	93	9	17	29.76	29.87		
06	SCT	110	7.00		48	47	48	96	6	26	29.78	29.89	06	BKN	045	10.00		68	67	67	96	7	16	29.77	29.88		
09	BKN	100	6.00	BR	54	54	54	100	5	30	29.84	29.95	09	OVC	130	10.00		71	69	70	94	10	16	29.81	29.91		
12	OVC	120	10.00		57	48	52	72	17	32	29.88	29.99	12	OVC	060	10.00		75	70	72	84	10	16	29.78	29.88		
15	OVC	019	10.00		53	45	49	74	22	34	29.95	30.06	15	OVC	060	10.00		76	70	72	82	10	16	29.70	29.80		
18	OVC	024	10.00		49	41	45	74	18	34	30.03	30.15	18	OVC	020	6.00	BR	70	69	69	97	13	12	29.69	29.80		
21	OVC	026	10.00		45	36	41	71	17	33	30.11	30.23	21	OVC	013	2.00	-RA BR	71	70	70	96	13	17	29.68	29.79		
24	BKN	250	10.00		40	32	37	73	13	35	30.18	30.29	24	OVC	013	8.00		73	71	72	94	17	16	29.64	29.75		
SUNRISE: 0710 DEC 15					SUNSET: 1724					SUNRISE: 0713 DEC 21					SUNSET: 1726												
03	SCT	250	10.00		37	31	35	79	9	34	30.19	30.30	03	OVC	014	9.00		74	70	71	88	15	16	29.57	29.68		
06	SCT	250	10.00		34	29	32	82	5	30	30.22	30.33	06	OVC	050	10.00	-RA	73	70	71	90	7	18	29.56	29.67		
09	CLR	NC	8.00		39	31	36	73	8	34	30.27	30.39	09	OVC	110	2.00	-RA BR	72	71	71	97	10	17	29.55	29.66		
12	CLR	NC	10.00		51	31	42	46	10	36	30.24	30.35	12	OVC	022	10.00		74	71	72	91	14	19	29.49	29.59		
15	CLR	NC	10.00		57	31	45	37	5	36	30.16	30.29	15	OVC	034	10.00		62	58	60	86	0	00	29.53	29.63		
18	CLR	NC	10.00		47	34	41	61	0	00	30.19	30.31	18	SCT	250	10.00		58	58	58	100	0	00	29.58	29.69		
21	CLR	NC	10.00		39	36	38	89	0	00	30.21	30.32	21	FEW	250	10.00		55	54	54	96	7	16	29.66	29.77		
24	CLR	NC	10.00		37	35	36	93	0	00	30.22	30.33	24	SCT	250	10.00	-RA	57	57	57	100	5	23	29.74	29.85		
SUNRISE: 0710 DEC 16					SUNSET: 1724					SUNRISE: 0713 DEC 22					SUNSET: 1727												
03	CLR	NC	10.00		34	33	34	97	0	00	30.19	30.31	03	BKN	110	10.00		58	57	57	97	6	32	29.75	29.86		
06	CLR	NC	10.00		33	32	33	96	0	00	30.21	30.32	06	BKN	100	10.00		56	56	56	100	5	35	29.78	29.89		
09	CLR	NC	10.00		42	38	40	85	0	00	30.24	30.35	09	BKN	250	10.00		59	56	57	90	8	31	29.88	29.99		
12	CLR	NC	10.00		57	33	46	41	0	00	30.21	30.32	12	BKN	120	10.00		56	49	52	77	13	31	29.96	30.07		
15	CLR	NC	10.00		63	32	49	31	3	24	30.14	30.25	15	SCT	250	10.00		56	46	51	70	17	33	29.97	30.08		
18	CLR	NC	10.00		52	37	45	57	0	00	30.14	30.25	18	CLR	NC	10.00		49	38	44	66	13	34	30.06	30.17		
21	CLR	NC	10.00		48	40	44	74	5	17	30.18	30.29	21	CLR	NC	10.00		41	33	38	73	15	34	30.16	30.28		
24	CLR	NC	10.00		41	37	39	86	0	00	30.18	30.29	24	FEW	250	10.00		38	31	35	76	5	35	30.22	30.34		
SUNRISE: 0711 DEC 17					SUNSET: 1724					SUNRISE: 0714 DEC 23					SUNSET: 1727												
03	CLR	NC	10.00		38	37	38	97	0	00	30.16	30.28	03	CLR	NC	10.00		37	31	35	79	8	36	30.22	30.35		
06	CLR	NC	10.00		37	35	36	93	0	00	30.19	30.29	06	CLR	NC	10.00		33	29	31	85	11	35	30.24	30.37		
09	FEW	030	10.00		47	43	45	86	0	00	30.22	30.34	09	FEW	012	10.00		35	30	33	82	18	01	30.34	30.45		
12	FEW	250	10.00		65	42	53	43	7	27	30.21	30.32	12	CLR	NC	10.00		46	31	40	56	14	36	30.35	30.47		
15	FEW	250	10.00		68	39	53	35	5	24	30.14	30.25	15	CLR	NC	10.00		54	30	44	40	10	01	30.32	30.43		
18	FEW	250	10.00		54	44	49	69	0	00	30.16	30.27	18	FEW	250	10.00		47	30	40	52	7	04	30.35	30.47		
21	FEW	250	10.00		54	47	50	77	5	19	30.19	30.30	21	CLR	NC	10.00		42	31	38	65	5	35	30.40	30.52		
24	FEW	250	10.00		45	45	45	100	0	00	30.19	30.30	24	CLR	NC	10.00		37	32	35	82	0	00	30.42	30.53		
SUNRISE: 0711 DEC 18					SUNSET: 1725					SUNRISE: 0714 DEC 24					SUNSET: 1728												
03	FEW	250	10.00	BCFG	43	43	43	100	0	00	30.16	30.28	03	CLR	NC	10.00		33	31	32	92	0	00	30.42	30.53		
06	SCT	250	10.00	BCFG	41	41	41	100	0	00	30.18	30.29	06	CLR	NC	10.00		32	29	31	88	0	00	30.42	30.54		
09	FEW	001	6.00	BR	45	45	45	100	0	00	30.21	30.32	09	CLR	NC	10.00		39	34	37	82	5	06	30.45	30.56		
12	CLR	NC	10.00		66	47	56	50	5	VR	30.18	30.29	12	FEW	250	10.00		50	32	42	50	8	09	30.40	30.53		
15	SCT	046	10.00		70	51	59	51	9	18	30.08	30.19	15	CLR	NC	10.00		55	30	44	38	7	08	30.30	30.42		
18	SCT	045	10.00		60	53	56	78	15	14	30.06	30.17	18	SCT	250	10.00		45	35	41	68	6	12	30.27	30.39		
21	SCT	040	10.00		56	53	54	90	8	15	30.06	30.17	21	BKN	250	10.00		44	36	41	73	5	16	30.26	30.37		
24	FEW	040	10.00		56	52	54	87	8	15	30.01	30.12	24	BKN	250	10.00		37	36	37	96	3	34	30.22	30.34		

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
DECEMBER 2013

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							
03	SCT	110	10.00		36	35	36	97	3	04	30.19	30.31
06	BKN	250	10.00		40	38	39	93	3	02	30.19	30.31
09	OVC	050	10.00		44	40	42	85	9	09	30.24	30.35
12	BKN	250	10.00		57	44	50	62	9	11	30.24	30.35
15	OVC	250	10.00		58	46	52	65	5	10	30.18	30.29
18	OVC	048	10.00		55	47	51	74	3	03	30.21	30.32
21	OVC	028	10.00		52	49	50	89	8	05	30.24	30.36
24	OVC	033	10.00		52	51	51	97	0	00	30.26	30.37
SUNRISE: 0715 DEC 26					SUNSET: 1729							
03	OVC	038	10.00		51	50	50	96	7	36	30.24	30.35
06	SCT	038	10.00		48	47	48	96	5	05	30.22	30.35
09	OVC	250	10.00		50	46	48	86	5	33	30.29	30.40
12	SCT	250	10.00		58	40	49	51	6	08	30.24	30.37
15	BKN	250	10.00		61	39	50	44	5	11	30.19	30.30
18	BKN	250	10.00		54	46	50	75	0	00	30.22	30.33
21	OVC	250	10.00		52	41	47	66	3	18	30.24	30.36
24	OVC	250	10.00		50	43	47	77	3	35	30.24	30.36
SUNRISE: 0716 DEC 27					SUNSET: 1729							
03	OVC	250	10.00		50	44	47	80	5	36	30.24	30.35
06	OVC	250	10.00		49	43	46	80	3	04	30.27	30.38
09	OVC	250	10.00		50	41	46	71	6	06	30.30	30.42
12	OVC	250	10.00		56	39	48	53	9	07	30.29	30.40
15	OVC	250	10.00		56	37	47	49	8	07	30.24	30.35
18	OVC	200	10.00		53	38	46	57	6	02	30.22	30.35
21	OVC	250	10.00		50	39	45	66	3	35	30.26	30.37
24	BKN	250	10.00		47	38	43	71	0	00	30.22	30.33
SUNRISE: 0716 DEC 28					SUNSET: 1730							
03	BKN	250	10.00		46	38	42	73	0	00	30.18	30.29
06	BKN	250	10.00		46	37	42	71	0	00	30.14	30.25
09	BKN	250	10.00		48	37	43	66	5	02	30.14	30.25
12	OVC	220	10.00		53	35	45	51	3	06	30.10	30.21
15	SCT	210	10.00		58	32	46	38	0	00	29.98	30.10
18	FEW	110	10.00		50	38	44	63	0	00	29.95	30.06
21	CLR	NC	10.00		47	38	43	71	0	00	29.95	30.06
24	CLR	NC	10.00		42	37	40	82	3	20	29.94	30.05
SUNRISE: 0716 DEC 29					SUNSET: 1731							
03	FEW	250	10.00		40	37	39	89	0	00	29.92	30.03
06	FEW	250	10.00		38	36	37	93	0	00	29.91	30.02
09	BKN	250	10.00		48	42	45	80	0	00	29.98	30.10
12	SCT	250	10.00		61	33	48	35	0	00	29.97	30.09
15	BKN	250	10.00		65	37	51	36	0	00	29.91	30.02
18	OVC	049	10.00		62	46	54	56	8	32	29.96	30.07
21	CLR	NC	10.00		57	48	52	72	3	32	30.03	30.14
24	BKN	190	10.00		50	43	47	77	13	33	30.06	30.17
SUNRISE: 0717 DEC 30					SUNSET: 1731							
03	BKN	190	10.00		44	36	41	73	10	33	30.08	30.19
06	OVC	180	10.00		41	33	38	73	13	34	30.10	30.22
09	OVC	050	10.00		40	33	37	77	14	35	30.18	30.29
12	OVC	180	10.00		43	33	39	68	9	34	30.19	30.31
15	OVC	180	10.00		44	33	39	65	8	34	30.14	30.26
18	OVC	200	10.00		44	34	40	68	8	34	30.19	30.30
21	OVC	200	10.00		42	33	38	71	3	35	30.27	30.38
24	OVC	200	10.00		40	32	37	73	5	01	30.29	30.40

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							
03	OVC	190	10.00		39	32	36	76	7	34	30.30	30.42
06	OVC	190	10.00		38	32	36	79	5	06	30.29	30.40
09	BKN	180	10.00		40	33	37	77	3	05	30.32	30.43
12	OVC	170	10.00		45	33	40	63	6	03	30.29	30.41
15	OVC	250	10.00		48	34	42	58	0	00	30.22	30.34
18	BKN	250	10.00		45	38	42	77	0	00	30.24	30.35
21	BKN	110	10.00		46	38	42	73	6	11	30.21	30.32
24	OVC	100	10.00		46	40	43	79	5	12	30.18	30.29

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.

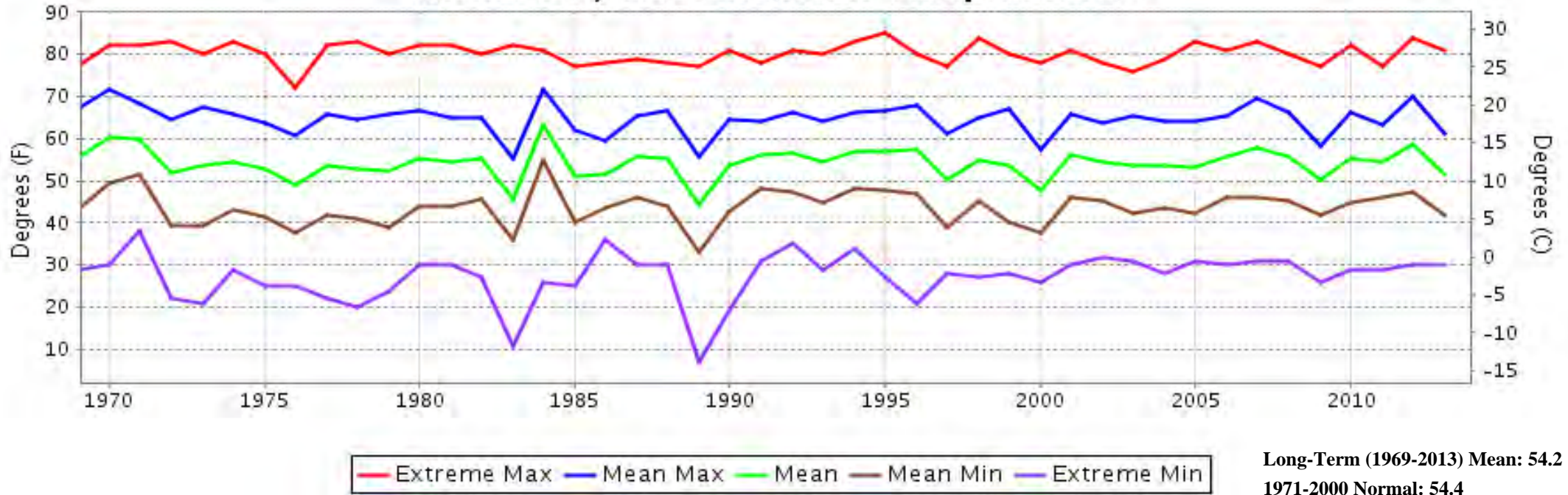
& = Original observation contained additional weather elements.

See page 3 for additional notes.

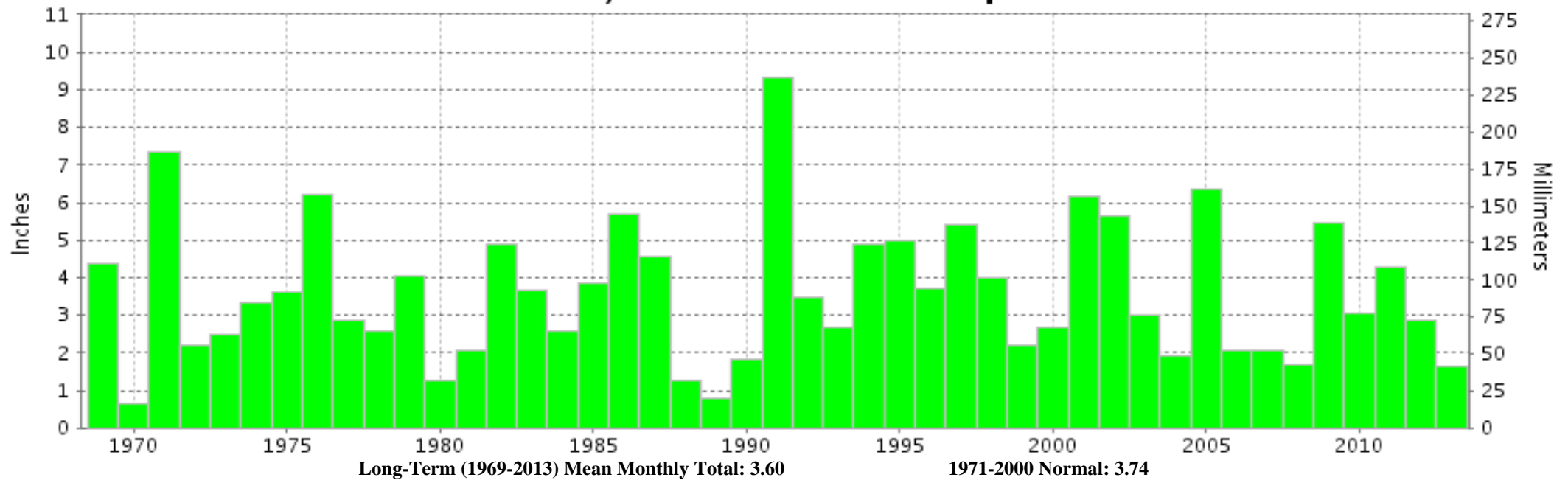
SUMMARY BY HOUR

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	48	45	47	89	30.05	30.16	9.38	6	1	32
02	47	44	46	89	30.05	30.16	9.40	5	1	33
03	47	44	46	90	30.04	30.16	9.10	5	1	34
04	47	44	45	89	30.04	30.16	9.18	5	1	34
05	47	44	45	89	30.04	30.15	9.31	5	1	36
06	47	43	45	89	30.05	30.16	9.35	5	1	35
07	46	43	45	90	30.06	30.17	8.94	6	1	01
08	47	44	46	89	30.07	30.19	9.10	6	1	03
09	50	45	48	85	30.09	30.20	9.19	7	1	05
10	52	45	49	77	30.10	30.21	9.39	8	1	03
11	55	45	50	70	30.09	30.20	9.65	8	1	34
12	57	44	50	65	30.07	30.18	9.77	9	1	33
13	58	44	51	62	30.04	30.15	9.48	8	1	31
14	58	43	51	61	30.02	30.13	9.68	8	1	34
15	58	43	51	60	30.01	30.12	9.74	7	1	33
16	58	43	51	62	30.01	30.12	9.66	8	1	36
17	56	44	50	66	30.02	30.13	9.71	8	1	04
18	53	45	49	73	30.03	30.14	9.48	7	2	05
19	52	45	48	77	30.04	30.15	9.39	7	1	03
20	51	45	48	79	30.05	30.16	9.35	6	1	04
21	51	45	48	81	30.06	30.17	9.34	7	1	35
22	50	45	47	84	30.07	30.18	9.55	7	1	33
23	49	45	47	85	30.07	30.18	9.61	6	1	33
24	48	45	47	87	30.07	30.18	9.39	6	1	33

HOUSTON, TX DECEMBER Temperatures



HOUSTON, TX DECEMBER Precipitation





**DECEMBER 2013
HOUSTON, TX**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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 Climatic Data Center (NCDC), Asheville, North Carolina 28801.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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