

JSC Building 30 Weather															
Month: April Year: 2012															
Day	Temperature in F			HDD	Precipitation (inches)				Peak Wind (mph)			Altimeter Setting		Remarks	
	Maximum	Minimum	Average		Water	Snow	Snow Depth	Weather	Direction	Speed	Time (CDT)	Min	Max		
1	79	69	74.0		9.0	0.00				S	24	1408	29.75	29.87	
2	78	63	70.5		5.5	0.32			3	NE	48	0752	29.62	29.77	
3	79	74	76.5		11.5	0.00				SE	29	0856	29.71	29.87	
4	74	69	71.5		6.5	0.46			1,3	E	43	0942	29.72	29.88	
5	84	65	74.5		9.5	0.01				NW	20	1706	29.75	29.87	
6	85	66	75.5		10.5	0.00				E	17	1336	29.87	30.02 #	
7	77	67	72.0		7.0	0.00				E	21	1158	30.02	30.17	0.67 @
8	78	66	72.0		7.0	0.00				E	14	1816	30.15	30.25	
9	80	66	73.0		8.0	0.00				S	14	2020	30.06	30.18 #	
10	79	67	73.0		8.0	0.00				E	18	1506	30.04	30.13	
11	80	67	73.5		8.5	0.00				SE	19	1406	30.00	30.12	
12															
13															
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26															
27															
28															
29															
30															
31															
Sum				0.0	91.0	0.79	0.00	0.00							0.67
Average	79.4	67.2	73.3												
Maximum	85	74	76.5						48					30.25	
Minimum	74	63	70.5						14			29.62			

Temperature Data		Precipitation Data		Weather Symbols:	
Average Monthly:	73.3	Total for month:	0.79	1	Fog
JSC avg - EFD Climo:	3.8	JSC avg - EFD Climo:	-2.51	2	Fog, VSBY <= 1/4 SM
Highest:	85	Greatest 24 hours 0000-2400:	0.46	3	Thunder
Lowest:	63	Days with 0.01" or more:	3	4	Ice Pellets
		Days with 0.10" or more:	2	5	Hail
		Days with 0.50" or more:	0	6	Glaze or rime
Year to end-of-month rainfall		Days with 1.00" or more:	0	7	Blowing Dust or Sand, VSB <= 1/2 SM
JSC - EFD	3.31	Year-to-date rainfall:	15.91	8	Smoke or Haze
		Days with thunder:	2	9	Blowing Snow
		Lightning flashes within 5 NM:	TBD	X	Tornado, waterspout, funnel cloud
		Days with dense fog:	0		

Remarks:
 @ Multiday total
 # Last of more than one occurrence
 Peak wind on 4/4 is questionable

JSC Building 30 Weather																
Month: January Year: 2012																
Day	Temperature in F			HDD	CDD	Precipitation (inches)			Weather	Peak Wind (mph)			Altimeter Setting			Cocorahs Rain
	Maximum	Minimum	Average			Water	Snow	Snow Depth		Direction	Speed	Time (CST)	Min	Max	Remarks	
1	69	52	60.5	4.5		0.02			1	N	36	1134	30.05	30.48 #		0.02
2	59	45	52.0	13.0		0.00				N	32	1110	30.46	30.65		0.00
3	52	41	46.5	18.5		0.00			8	NE	20	0900	30.30	30.60	Afternoon smoke	0.00
4	70	51	60.5	4.5		0.00				S	20	1238	30.20	30.31		0.00
5	71	56	63.5	1.5		0.00				E	13	1444	30.12	30.29 #		0.00
6	70	59	64.5	0.5		0.00				S	24	1618	29.97	30.12		0.00
7	75	59	67.0		2.0	0.00				SW	22	1302	29.95	30.05 #		0.00
8	74	63	68.5		3.5	0.02			2	SE	24	1400	29.96	30.07		0.00
9	69	63	66.0		1.0	2.63			1,3	SE	37	1008	29.82	30.00		1.21 @
10	63	45	54.0	11.0		0.01				W	31	0050	29.83	29.96		1.29
11	69	46	57.5	7.5		0.00				NW	29	2320	29.69	29.86 #		0.00
12	59	40	49.5	15.5		0.00				N	47	0838	29.78	30.26		0.00
13	53	36	44.5	20.5		0.00				SW	14	2308	30.25	30.34		0.00
14	62	42	52.0	13.0		0.00				N	15	1426	30.30	30.43		0.00
15	65	49	57.0	8.0		0.00				SE	26	1428	30.23	30.38		0.00
16	73	63	68.0		3.0	0.04				SW	36	1304	30.02	30.23		0.00
17	72	53	62.5	2.5		0.03			1	N	29	2306	29.98	30.19 #		0.06
18	59	43	51.0	14.0		0.00				N	29	0042	30.07	30.27		0.04
19	71	52	61.5	3.5		0.00				S	28	1602	29.98	30.07		0.00
20	75	63	69.0		4.0	0.00			1	S	34	1336	29.81	29.94 #		0.00
21	72	65	68.5		3.5	0.00			1	SW	27	0304	29.85	29.95		0.00
22	74	64	69.0		4.0	0.00				S	31	1228	29.76	29.90 #		0.00
23	69	58	63.5	1.5		0.00				N	21	0654	29.90	30.07		0.00
24	67	60	63.5	1.5		0.01				SE	30	2226	29.86	30.02 #		0.00
25	71	54	62.5	2.5		1.00			3	S	38	0618	29.63	29.90	See below	0.00
26	62	50	56.0	9.0		0.00				NW	29	1452	29.82	30.05 #		1.21 @
27	63	52	57.5	7.5		0.00				SE	20	1234	29.99	30.11 #		0.00
28	64	51	57.5	7.5		0.00				N	30	0714	30.06	30.39		0.00
29	58	45	51.5	13.5		0.00				E	19	0934	30.33	30.47		0.00
30	65	52	58.5	6.5		0.00			1	SE	19	1158	30.17	30.33	AM ground fog	0.00
31	70	59	64.5	0.5		0.38			1	S	20	1356	30.05	30.18		0.04
Sum				188.0	21.0	4.14	0.00	0.00								3.87
Average	66.6	52.6	59.6													
Maximum	75	65	70								47			30.65		
Minimum	52	36	44								13	29.63				

Temperature Data	Precipitation Data	Weather Symbols:
Average Monthly: 59.6	Total for month: 4.14	1 Fog
JSC avg - EFD Climo: 6.6	JSC avg - EFD Climo: 0.44	2 Fog, VSBY <= 1/4 SM
Highest: 75	Greatest 24 hours 0000-2400: 2.63	3 Thunder
Lowest: 36	Days with 0.01" or more: 9	4 Ice Pellets
	Days with 0.10" or more: 3	5 Hail
	Days with 0.50" or more: 2	6 Glaze or rime
Year to end-of-month rainfall	Days with 1.00" or more: 2	7 Blowing Dust or Sand, VSB <= 1/2 SM
JSC - EFD 0.44	Year-to-date rainfall: 4.14	8 Smoke or Haze
	Days with thunder: 2	9 Blowing Snow
	Lightning flashes within 5 NM: TBD	X Tornado, waterspout, funnel cloud
	Days with dense fog: 1	# Last of more than one occurrence

Remarks:
Cocorahs gauge is located near Bldg. 421
Smoke layer from a large wildfire in Jefferson county drifted over JSC during the afternoon and reduced visibility to about 3SM.
EF0 tornado hit parts of Pearland on 1/25/12 on a path toward Ellington Field where NASA issued a shelter-in-place message during the Tornado Warning.

JSC Building 30 Weather

Month: February Year: 2012

Day	Temperature in F			HDD	CDD	Precipitation (inches)			Weather	Peak Wind (mph)		Time (CST)	Altimeter Setting		Remarks	Cocorahs Rain
	Maximum	Minimum	Average			Water	Snow	Snow Depth		Direction	Speed		Min	Max		
1	73	65	69.0		4.0	0.24			2	S	17	2024	30.01	30.12		0.29
2	67	62	64.5	0.5		0.42			2	SE	19	2312	29.98	30.11 #		0.37
3	73	65	69.0		4.0	0.00				S	26	1300	29.93	30.05		0.36
4	70	55	62.5	2.5		1.65			1,3	NE	33	0854	29.94	30.16		
5	55	47	51.0	14.0		0.04				N	32	0802	30.14	30.28		
6	58	43	50.5	14.5		0.00				N	24	0138	30.14	30.30		1.78 @
7	61	50	55.5	9.5		0.00				N	17	2348	30.12	30.26 #		0.00
8	60	50	55.0	10.0		0.00				N	24	1238	30.27	30.38 #		0.00
9	54	44	49.0	16.0		0.00				NE	17	0052	30.12	30.29 #		0.00
10	59	49	54.0	11.0						NW	24	1650	30.04	30.23 # / PCPN Missing		
11	52	38	45.0	20.0		0.00				NE	34	0344	30.20	30.49		1.22 @
12	45	34	39.5	25.5		0.00				NE	28	0650	30.23	30.54 #		0.00
13	63	45	54.0	11.0					1	SE	29	1154	29.83	30.23		0.01
14	59	51	55.0	10.0		0.00			1	E	18	1852	29.90	30.00		0.71
15	71	57	64.0	1.0					1	S	26	1450	29.84	30.01		0.00
16	66	57	61.5	3.5					1	E	21	2148	30.01	30.16		0.06
17	60	56	58.0	7.0					3	SE	24	2138	29.89	30.07 #		
18	65	53	59.0	6.0					3	NW	33	2302	29.67	29.90 #		
19	61	48	54.5	10.5		0.00				NW	34	0020	29.89	30.12		3.02
20	64	52	58.0	7.0		0.00				SE	22	1144	30.02	30.11		0.00
21	66	58	62.0	3.0		0.00			1	S	18	2214	29.99	30.17		0.00
22	78	62	70.0		5.0	0.00			1	SW	33	1250	29.70	30.00		0.00
23	76	67	71.5		6.5	0.00				SW	35	1750	29.56	29.71 #		0.00
24	72	56	64.0	1.0		0.00				NE	45	0826	29.63	30.32 #		0.00
25	56	49	52.5	12.5		0.01				NE	26	0356	30.24	30.41 #		
26	61	49	55.0	10.0		0.00				E	22	1306	30.08	30.24		
27	66	58	62.0	3.0		0.08			1	NE	23	1336	30.14	30.24 #		0.02 @
28	74	59	66.5		1.5	0.01			2	SE	27	2312	29.98	30.16 #		0.07
29	78	68	73.0		8.0	0.00			1	S	23	1310	29.93	30.05 Trace PCPN		0.00 Trace
30																
31																
Sum				209.0	29	2.45	0.00	0.00								7.91 Month
Average	64.2	53.3	58.8													11.78 YTD
Maximum	78	68	73.0								45			30.54		
Minimum	45	34	39.5								17		29.56			

Temperature Data		Precipitation Data		Weather Symbols:	
Average Monthly:	58.8	Total for month:	2.45	1	Fog
JSC avg - EFD Climo:	2.8	JSC avg - EFD Climo:	-0.65	2	Fog, VSBY <= 1/4 SM
Highest:	78	Greatest 24 hours 0000-2400:	1.65	3	Thunder
Lowest:	34	Days with 0.01" or more:	7	4	Ice Pellets
		Days with 0.10" or more:	3	5	Hail
		Days with 0.50" or more:	1	6	Glaze or rime
Year to end-of-month rainfall		Days with 1.00" or more:	1	7	Blowing Dust or Sand, VSB <= 1/2 SM
JSC - EFD	-0.21	Year-to-date rainfall:	6.59	8	Smoke or Haze
		Days with thunder:	3	9	Blowing Snow
		Lightning flashes within 5 NM:	TBD	X	Tornado, waterspout, funnel cloud
		Days with dense fog:	3		

Remarks:

Cocorahs rain gauge is located near Bldg 421 and is measured once daily between 7AM and 9AM.
 B30 rain gauge malfunctioned on Feb 10 and repaired on Feb 21.

JSC Building 30 Weather															Cocorahs rain			
Month: March Year: 2012																		
Day	Temperature in F			HDD	CDD	Precipitation (inches)			Weather	Direction	Peak Wind (mph)		Altimeter Setting		Remarks			
	Maximum	Minimum	Average			Water	Snow	Snow Depth			Speed	Time (CST)	Min	Max				
1	77	68	72.5		7.5	0.00				SW	32	1402	29.75	29.96			0.00	Trace
2	76	69	72.5		7.5	0.00				SW	30	0324	29.66	29.78 #			0.00	
3	70	56	63.0	2.0		0.02				NE	35	0938	29.70	30.17				
4	69	49	59.0	6.0		0.00				S	24	1814	30.15	30.27				
5	72	53	62.5	2.5		0.00				SW	18	1652	30.24	30.38				
6	71	60	65.5		0.5	0.00				SE	29	0942	30.11	30.30				
7	74	65	69.5		4.5	0.00				SE	36	1112	30.06	30.12				
8	77	61	69.0		4.0	0.07			1	S	38	1132	29.95	30.06				
9	61	49	55.0	10.0		2.46			1,3	NE	42	1928	30.06	30.27	see remarks below		0.40	@
10	63	50	56.5	8.5		0.80				NE	46	0206	30.04	30.26 #	see remarks below			
11	70	62	66.0		1.0	2.15			3	SE	44	1120	29.96	30.06				
12	78	61	69.5		4.5	0.00			1	S	17	2214	30.03	30.11 #	/ Trace PCPN		3.43	@
13	76	67	71.5		6.5	0.00			1	SE	19	1646	30.06	30.16	Trace PCPN		0.00	
14	76	68	72.0		7.0	0.00				SE	20	2352	30.07	30.17			0.00	
15	77	69	73.0		8.0	0.00				S	20	1758	30.09	30.21 #			0.00	
16	77	68	72.5		7.5	0.00				SE	25	1708	30.05	30.17			0.00	
17	76	69	72.5		7.5	0.00				SE	23	1430	30.01	30.10 #			0.00	
18	76	71	73.5		8.5	0.00				SE	33	2352	29.92	30.07			0.00	
19	76	71	73.5		8.5	0.02				S	39	1234	29.71	29.97			0.00	
20	78	52	65.0	0.0		1.73			1,3	NW	47	0920	29.63	29.80 #			0.04	
21	70	54	62.0	3.0		0.03			3	W	23	1602	29.77	29.95			1.51	
22	75	59	67.0		2.0	0.00				SE	23	1538	29.87	29.98 #			0.00	
23	78	60	69.0		4.0	0.00				NW	17	0410	29.93	30.04			0.00	
24	83	60	71.5		6.5	0.00			2	SW	14	2256			# / See remarks below		0.00	
25	83	62	72.5		7.5	0.01			2	S	13	2000			# / Drizzle / See Remarks below		0.00	
26	80	64	72.0		7.0	0.00				SE	16	1818			#		0.00	
27	77	65	71.0		6.0	0.00			1	S	22	1542			Patchy AM ground fog		0.00	
28	77					0.00			1	S	19	15165			Patchy AM ground fog		0.00	
29	74	65	69.5		4.5	1.24			3	SW	42	1520					0.00	
30	78	67	72.5		7.5	0.00			1	S	16	1930	29.79	29.90 #/	Patchy AM ground fog		0.81	
31	80	67	73.5		8.5	0.00				S	19	1502	29.83	29.93			0.00	
Sum				32.0	136.5	8.53	0.00	0.00									6.19	
Average	75.0	62.0	68.5														17.97	YTD
Maximum	83	71	77								47			30.38				
Minimum	61	49	55								13		29.63					

Temperature Data	Precipitation Data	Weather Symbols:
Average Monthly: 68.5	Total for month: 8.53	1 Fog
JSC avg - EFD Climo: 6.5	JSC avg - EFD Climo: 6.03	2 Fog, VSBY <= 1/4 SM
Highest: 83	Greatest 24 hours 0000-2400: 2.46	3 Thunder
Lowest: 49	Days with 0.01" or more: 10	4 Ice Pellets
	Days with 0.10" or more: 5	5 Hail
	Days with 0.50" or more: 5	6 Glaze or rime
Year to end-of-month rainfall	Days with 1.00" or more: 4	7 Blowing Dust or Sand, VSB <= 1/2 SM
JSC - EFD 5.82	Year-to-date rainfall: 15.12	8 Smoke or Haze
	Days with thunder: 5	9 Blowing Snow
	Lightning flashes within 5 NM: TBD	X Tornado, waterspout, funnel cloud
	Days with dense fog: 2	

Remarks:
Max wind speeds on the 9th and 10th estimated. Seemed to be some bad max gusts in the data.
Difference in rainfall between B30 and the Cocorahs gauge at B421 seems real based upon analysis of radar and surrounding observations.
B30 rainfall total is low due to rain gauge outage in February
Pressure sensor failed at 4:40 PM CDT on 3/24/12; returned to service 3/29/12 at 1502

JSC Building 30 Weather

Year: 2012

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	All Time Max	All Time Min
Extreme Max Temp	75	78	83	85	0	0	0	0	0	0	0	0	85	109	85
Mean Max Temp	67	64	75	79	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mean Temp	60	59	69	73	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Mean Min Temp	53	53	62	67	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Extreme Min Temp	36	34	49	63	0	0	0	0	0	0	0	0	0	0	0
Days wi Temp > 95F	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Days wi Temp > 90F	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0
Days wi Temp < 40F	1	2	0	0	0	0	0	0	0	0	0	0	3	12	3
Days wi Temp < 33F	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Heating Degree Days	188.0	209.0	32.0	0.0	0	0	0	0	0	0	0	0	429	971.0	281
Cooling Degree days	21.0	29.0	136.5	91.0	0	0	0	0	0	0	0	0	277.5	3451.0	278
Total Precipitation:	4.14	2.45	8.53	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.91	67.05	16
Max Single Day Rain:	2.63	1.65	2.46	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.63	4.78	3
D/W wi precip > 0.01"	9	7	10	3	0	0	0	0	0	0	0	0	29	99	29
D/W precip > 0.50"	2	1	5	0	0	0	0	0	0	0	0	0	8	39	8
D/W precip > 1.00"	2	1	4	0	0	0	0	0	0	0	0	0	7	23	7
Max wind speed (mph)	47	45	47	48	0	0	0	0	0	0	0	0	48	67	37
Days with Thunder	2	3	5	2	0	0	0	0	0	0	0	0	12	62	12
LTG flashes wi 5nmi	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	0	484	0
Days with Fog	8	12	10	1	0	0	0	0	0	0	0	0	31	50	31
Days with dense fog	1	3	2	0	0	0	0	0	0	0	0	0	6	8	3

Remarks:

CoCoRaHs Rain: 3.87 7.91 6.19 0.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 18.64

Altm Min
Altm Max

KEFD	Rainfall	Min Temp	Max Temp	Average	rain tot
Jan	3.70	44	62	53	3.70
Feb	3.10	47	65	56	6.80
Mar	2.50	53	71	62	9.30
Apr	3.30	61	78	69.5	12.60
May	4.50	67	84	75.5	17.10
Jun	5.10	73	89	81	22.20
Jul	4.30	75	92	83.5	26.50
Aug	4.70	75	92	83.5	31.20
Sep	5.00	71	88	79.5	36.20
Oct	3.90	61	81	71	40.10
Nov	3.70	52	71	61.5	43.80
Dec	3.60	46	64	55	47.40
Annual	47.4	60.4	78.1	69.25	
POR	July 1941 - August 2007				

Old POR 12 years

KEFD	Rainfall	Min Temp	Max Temp	Average	rain tot
Jan	2.68	46	65	55.5	2.68
Feb	4.67	48	66	57	7.35
Mar	2.00	53	71	62	9.35
Apr	3.76	60	77	68.5	13.11
May	3.51	68	85	76.5	16.62
Jun	4.09	73	90	81.5	20.71
Jul	4.84	75	92	83.5	25.55
Aug	4.06	75	92	83.5	29.61
Sep	4.80	71	88	79.5	34.41
Oct	3.30	61	81	71	37.71
Nov	3.52	50	70	60	41.23
Dec	3.64	46	65	55.5	44.87
Annual	44.87	60.5	78.5	69.5	