

PUBLIC INFORMATION STATEMENT  
 NATIONAL WEATHER SERVICE HOUSTON/GALVESTON TX  
 910 PM CDT MAY 12 2013

...DROUGHT EASED AND APRIL 2013 CONTINUED A COOLING TREND...  
 ...UPDATED TO INCLUDE COOP DATA...

MUCH NEEDED RAINFALL FELL ACROSS SOUTHEAST TEXAS IN APRIL 2013. ABNORMALLY DRY TO MODERATE DROUGHT CONDITIONS WERE EASED BY THE NEAR TO ABOVE NORMAL PRECIPITATION. THE EFFECT OF THE RAIN WAS THEN AMPLIFIED BY BELOW NORMAL TEMPERATURES.

A SERIES OF COLD FRONTS WAS RESPONSIBLE FOR THE WETTER AND COOLER CONDITIONS. THE MONTH BEGAN WITH TWO COLD FRONTS PUSHING THROUGH THE THE STATE AND WITH A COLD AIR MASS FOLLOWING. THREE MORE COLD AIR MASSES SETTLED ACROSS SOUTHEAST TEXAS FOLLOWING FRONTAL PASSAGES THROUGHOUT THE REMAINDER OF THE MONTH. EACH BROUGHT TEMPERATURES OF BETWEEN 10 AND 15 DEGREES BELOW THE DAILY NORMALS FOR MANY OF THE FIRST AND SECOND-ORDER CLIMATE SITES. APRIL ENDED WITH THE MONTHLY NORMALS RANGING BETWEEN 1.0 AND 3.5 DEGREES BELOW NORMAL.

THE WET START TO APRIL ENDED THE DRYING TREND WHICH HAD OCCURRED OVER MOST OF SOUTHEAST TEXAS BETWEEN MID JANUARY AND THE END OF MARCH. EVENTS ON THE 2ND AND 27TH OF APRIL BROUGHT HEAVIER RAINFALL AMOUNTS TO PORTIONS OF THE AREA...AND GREATER THAN 6 INCHES OF RAIN WAS RECORDED AT HOBBY AIRPORT AND SUGAR LAND ON THE 27TH. THE NATIONAL WEATHER SERVICE OFFICE IN LEAGUE CITY WAS THE ONLY OTHER MAJOR CLIMATE SITE TO RECORD MORE THAN 6 INCHES OF RAINFALL FOR THE MONTH...ALTHOUGH THERE WERE NO DAILY TOTALS ABOVE 1.78 INCHES AT THE SITE. OF THE COOPERATIVE DATA STATIONS THAT REPORTED...MOST RECORDED RAINFALL OF BETWEEN 3 TO JUST OVER 5 INCHES OF RAINFALL. THE TWO ANOMALIES WERE BAYTOWN WITH OVER 6 INCHES AND DANEVANG JUST UNDER 2.5 INCHES.

THE FOLLOWING TABLE ILLUSTRATES HOW SOUTHEAST TEXAS HAS GONE FROM A DRYING TREND OVER THE FIRST THREE MONTHS OF THE YEAR TO A WETTER TREND IN APRIL. PLEASE NOTE THE HIGHER DEPARTURES BELOW NORMAL FOR THE MONTH OF MARCH FOR MOST OF THE FIRST AND SECOND-ORDER CLIMATE SITES.

CLIMATE SITE	JANUARY		FEBRUARY		MARCH		APRIL	
	RAIN	DEP	RAIN	DEP	RAIN	DEP	RAIN	DEP
HOUSTON	3.21	-0.17	1.32	-1.88	0.89	-2.52	2.88	-0.43
CLL	5.06	+1.82	1.10	-1.75	1.73	-1.44	1.65	-1.01
GALVESTON	7.18	+2.98	2.24	-0.33	0.72	-2.44	3.46	+0.41
HOBBY ARPT	3.13	-0.74	1.63	-1.58	1.18	-2.02	9.56	+6.31
CONROE	4.84	+1.06	4.47	+1.21	1.59	-1.60	2.53	-0.14
HUNTSVILLE	3.70	-0.12	1.22	-1.84	2.65	-0.76	2.35	-0.62
DW HOOKS	5.68	+2.13	2.42	-0.61	0.63	-2.96	3.18	-0.21
SUGAR LAND	3.51	-0.09	1.32	-1.90	1.37	-1.88	9.48	+6.16
ANGLETON	2.64	-1.81	1.31	-1.63	0.24	-3.23	2.94	+0.41
PALACIOS	2.67	-0.70	1.64	-0.71	TRACE	-3.00	3.35	-1.0

PEARLAND	4.40	+0.18	2.10	-1.08	0.56	-2.47	4.89	+1.37
NWS HGX	5.37	+0.90	1.22	-1.84	2.65	-0.76	2.35	-0.62

OF INTEREST IS THE HEAVY RAINFALL EVENT THAT OCCURRED ON THE 27TH OF APRIL AT BOTH HOBBY AIRPORT AND SUGAR LAND. RELIABLE RECORDS AT HOBBY AIRPORT HAVE BEEN KEPT SINCE 1947 ALTHOUGH THERE ARE SOME ADDITIONAL RECORDS FROM 1941 TO 1946. DAILY RAINFALL OF MORE THAN 5 INCHES HAS NEVER BEEN RECORDED AT HOBBY AIRPORT FOR JANUARY...FEBRUARY...OR MARCH. THE AIRPORT HAS ON REPORTED RAINFALL OF MORE THAN 6 INCHES ON TWO DATES IN APRIL...COINCIDENTALLY BOTH ON THE 27TH OF APRIL IN 1972 AND 2013.

FOR THE SUGAR LAND SITE...RECORDS THAT HAVE ONLY BEEN KEPT SINCE SEPTEMBER OF 2000 HAVE NOT ALWAYS BEEN RELIABLE. RAINFALL AMOUNTS GREATER THAN 6 INCHES HAS NEVER BEEN RECORDED IN JANUARY THROUGH MARCH AT THE SUGAR LAND AIRPORT...WHILE APRIL HAS ONLY RECORDED MORE THAN 6 INCHES ON THE 27TH OF APRIL IN 2013. THE PREVIOUS DATE WHICH RECORDED MORE THAN 6 INCHES OF RAINFALL WAS SEPTEMBER 13TH OF 2008 AT HOBBY AND 6.10 INCHES ON JULY 7TH OF 2010 AT SUGAR LAND.

NOW FOR THE GENERAL MONTHLY CLIMATE DATA. THE FOLLOWING TABLE LISTS THE MONTHLY CLIMATE DATA FOR THE FIRST AND SECOND-ORDER CLIMATE SITES IN THE NWS HOUSTON/GALVESTON COUNTY WARNING AREA FOR THE MONTH OF APRIL.

SITE	AVG HIGH	AVG LOW	AVG MONTH	DEP	RAIN	DEP
IAH	77.0	56.2	66.6	-2.9	2.88	-0.43
GLS	73.6	62.1	67.8	-2.3	3.46	+0.41
CLL	77.2	55.6	66.4	-2.1	1.65	-1.01
HOU	76.0	57.6	66.8	-3.0	9.56	+6.31
CXO	76.5	52.2	64.3	-2.6	2.53	-0.14
UTS	76.5	54.1	65.3	-2.7	2.35	-0.62
DWH	77.6	55.1	66.3	-1.6	3.18	-0.21
SGR	76.8	56.6	66.7	-2.1	9.48	+6.16
LBX	75.0	55.8	65.4	-3.3	2.94	+0.41
PSX	78.1	59.7	68.9	-1.0	3.35	+0.75
LVJ	74.8	56.4	65.6	-3.4	4.89	+1.37
HGX	74.9	56.3	65.6	-2.1	6.27	+2.96

HERE ARE SOME APRIL TEMPERATURE AND RAINFALL TOTALS AVAILABLE FROM THE HOUSTON/GALVESTON AREA NETWORK OF CO-OP OBSERVERS THAT HAVE REPORTED AS OF MAY 12TH.

LOCATION	RAINFALL (INCHES)	AVERAGE HIGH TEMPERATURE	AVERAGE LOW TEMPERATURE
ANAHUAC	5.44	74.2	53.3
ANGLETON	3.76	76.9	61.9

BAY CITY	5.11	76.6	55.1
BAYTOWN	6.30	74.2	55.3
BREHAM	3.63	75.2	53.3
CLEVELAND	3.50	76.5	52.0
CONROE	3.60	75.9	56.3
DANEVANG 1W	2.47	77.3	53.0
FREEPORT	3.91	75.1	59.0
HOUSTON WFO	6.27	74.9	56.3
HUNTSVILLE	3.75	73.9	52.1
MADISONVILLE	3.10	75.7	51.9
PIERCE 1E	5.05	77.3	54.9

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