Let's GET INVOLVED

Meadow's Weather/Hurricane Analysis: April & May 2022 Report
Roy Wysnewski

Rainfall & Temperature Data:

	April	May
Rainfall for month:	3.47 inches	4.83 inches
Rainfall year-to-date:	5.91 in.	10.74 in.
23 yr. rainfall average:	2.07 in.	2.81 in.
Average high temperature:	87.3 F (normal: 83.0 F)	91.3 (normal: 88.2 F)
Above normal temperature days:	26	28
Record high-temperature days:	6	2

Weather Summary: The pattern of 'above normal temperature days' that began more than two years ago continued through April and May. With the latest data, twenty-seven of the last twenty-nine months have been above normal! Neighbors, it's not your imagination --- our atmosphere is really heating up!

After four consecutive months of very dry weather, the monthly rainfall totals exceeded normal in both April and May. This is great news because we were getting dangerously close to true 'drought' status locally, and you could almost hear our lawns and lakes 'begging' for rain.

Temperature Analysis: Just how much did the temperature exceed normal in April and May? Average high temperature (87.3 F) was 4 degrees above normal in April and (88.2 F) 3 degrees in May. Since January 1, the temperature has averaged 3.4 degrees F above normal. That is significant!

Other temperature statistics for April and May (combined) include 54 above normal high temperature days and 8 record high temperature-days.

Rainfall Analysis: The April and May rainfall patterns were quite similar – see the blue bars in the graphs below. In each month, the prospects for future rainfall looked promising after the first week but was followed by long periods of rainless days – 22 in April and 16 in May. Then, rainfall did increase significantly during

the final days of each month. Sixty-six percent of April's total rainfall occurred on the 29th and 30th of the month and 46% of May's rain fell on the 31st.

The Meadow's 'dry' season ended on May 31st. Earlier this year -- in March -- the expectation was for the dry season to end on an extremely dry season note, possibly drought status! However, two consecutive months of above average rainfall saved the day (season). In fact, the actual season total was 16.9 inches -- very close to our historical average (17.1 inches).

Monthly rainfall and temperature data are presented in the two graphs.

Hurricane Season Analysis: Forecasters at NOAA's Climate Prediction Center (National Oceanic and Atmospheric Administration) are predicting above-average tropical cyclone activity this year which would make it the seventh consecutive above-average hurricane season. Their forecast is based on many factors including: a strong **La Nina** in the South Pacific Ocean; warmer than normal **Sea surface temperatures (SST's)**; and a persistent **Bermuda High** off the Southeastern coast. The 2022 forecast is presented in the table below.

NOAA National Hurricane Season (2022) Forecast

Atlantic Basin Hurricane Season

Number of Storms

Year	2020	2021	2022 Forecast	Average
Named	30	21	13 – 20	14
Hurricanes	13	7	6 – 10	7
Major Hurricanes	6	4	3 -- 5	3

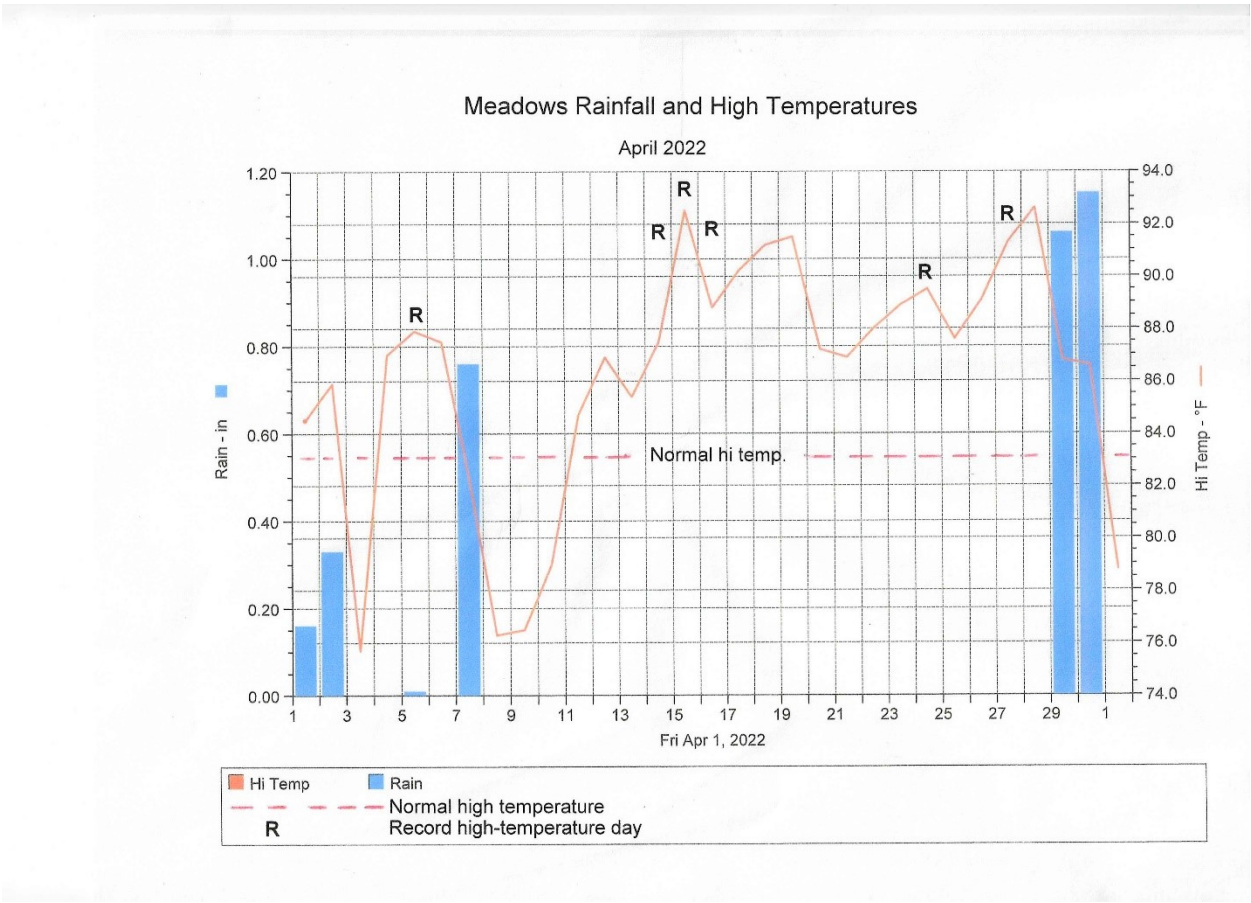
This is the time of year when we **get involved** and prepare for the annual six-month hurricane season. As we strive to become hurricane resilient and climate-ready, residents want to know our storm impact 'risks' – how bad might this

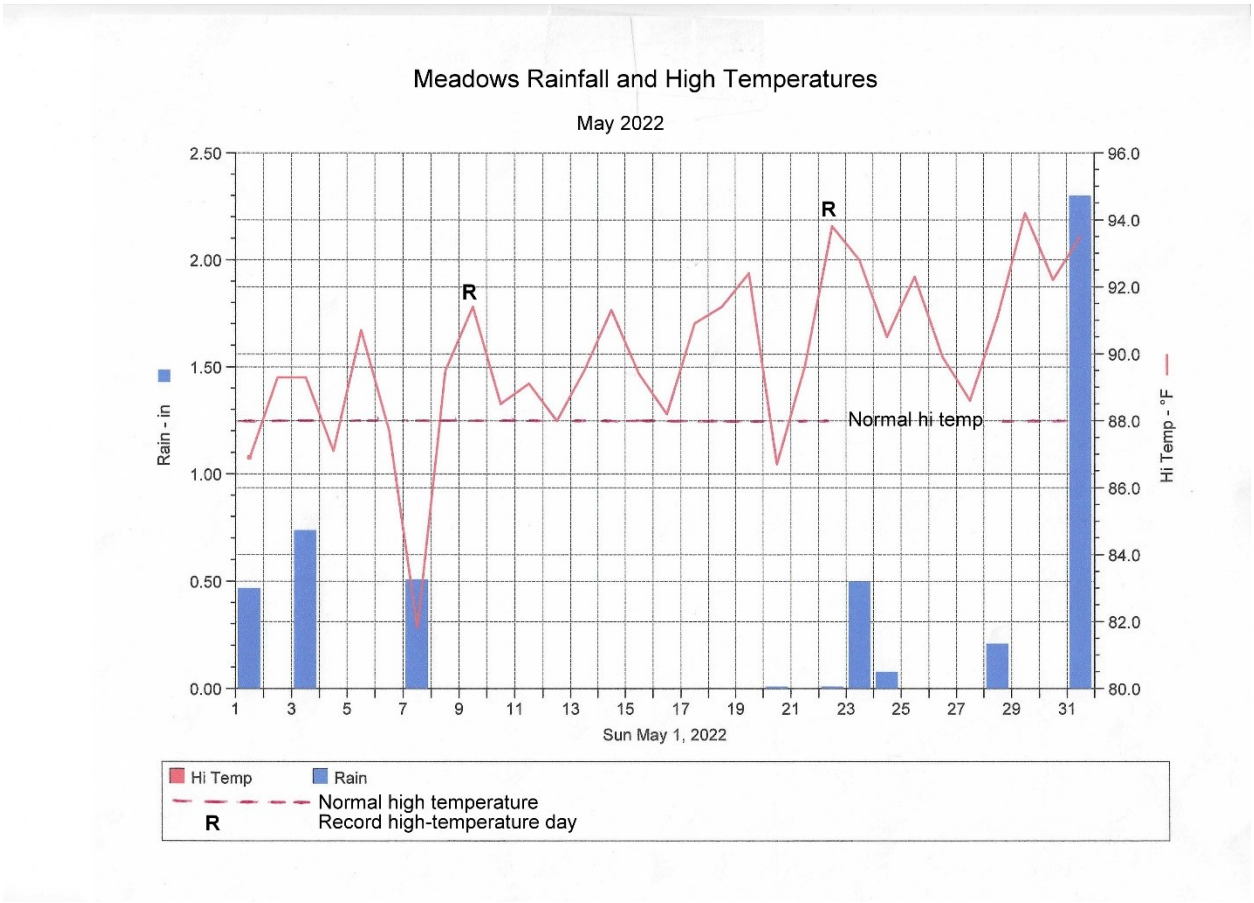
season be? Here are some key factors that might be helpful in making this determination (courtesy of the Sarasota Climate Adaptation Center):

- The rapid intensification of storms is happening more frequently thereby setting up a scenario that leads to less time to prepare and evacuate
- The Gulf of Mexico is 4 degrees warmer than normal in places and warm water can cause more dangerous and volatile storm events
- The seas are rising, an average of 9 inches since 1950 and forecasted for an additional 11 inches by 2050, creating greater higher risk storm surges and flooding
- Because of these factors, the impact of hurricanes and tropical storms is expected to increase dramatically

If you are interested in learning more about our local weather and climate as well as programs being developed to address our changing climate in Southwest Florida, I recommend **getting involved** in Sarasota's Climate Adaptation Center (CAC) –https://www.theclimateadaptationcenter.org. The CAC is Southwest Florida's only 501.c.3 dedicated to helping our community understand the impact of climate warming on events including hurricanes, red tides, sea level rise, human health, and biodiversity by providing education on what we can do about it and solutions to mitigate the risk.

Send comments and questions about this month's report to: roywys9@gmail.com.


Meadows Rainfall and High Temperatures
April 2022
Rain - in
Hi Temp - °F
Normal hi temp.
R
1.20
1.00
0.80
0.60
0.40
0.20
0.00
94.0
92.0
90.0
88.0
86.0
84.0
82.0
80.0
78.0
76.0
74.0
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
1
Fri Apr 1, 2022
Hi Temp
Rain
Normal high temperature
Record high-temperature day


Meadows Rainfall and High Temperatures
May 2022
Rain - in
Hi Temp - °F
2.50
2.00
1.50
1.00
0.50
0.00
96.0
94.0
92.0
90.0
88.0
86.0
84.0
82.0
80.0
R
R
Normal hi temp
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
Sun May 1, 2022
Hi Temp
Rain
Normal high temperature
R
Record high-temperature day