

Weather Data Research

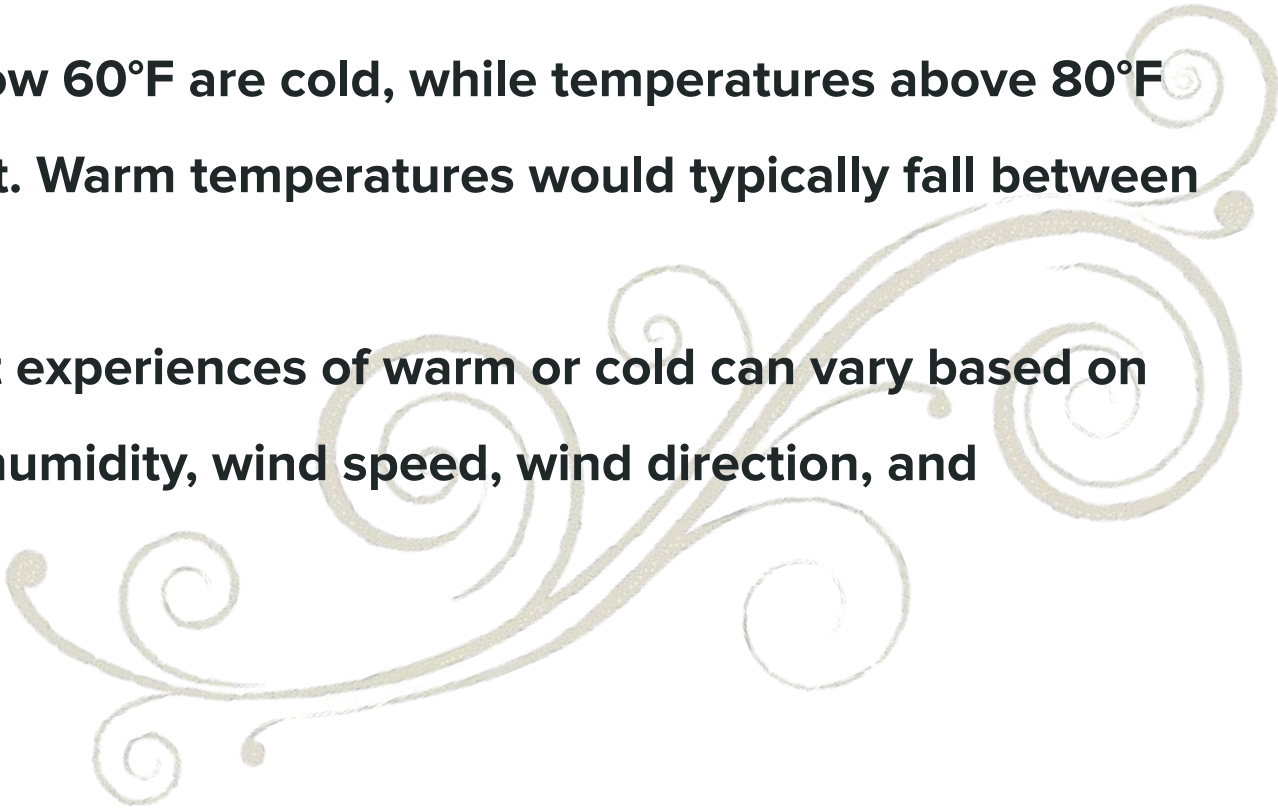
July 18 - July 22 Through The Past 10 Years

Nicole Wilson, Yaseen Kedio, Miguel Moreno

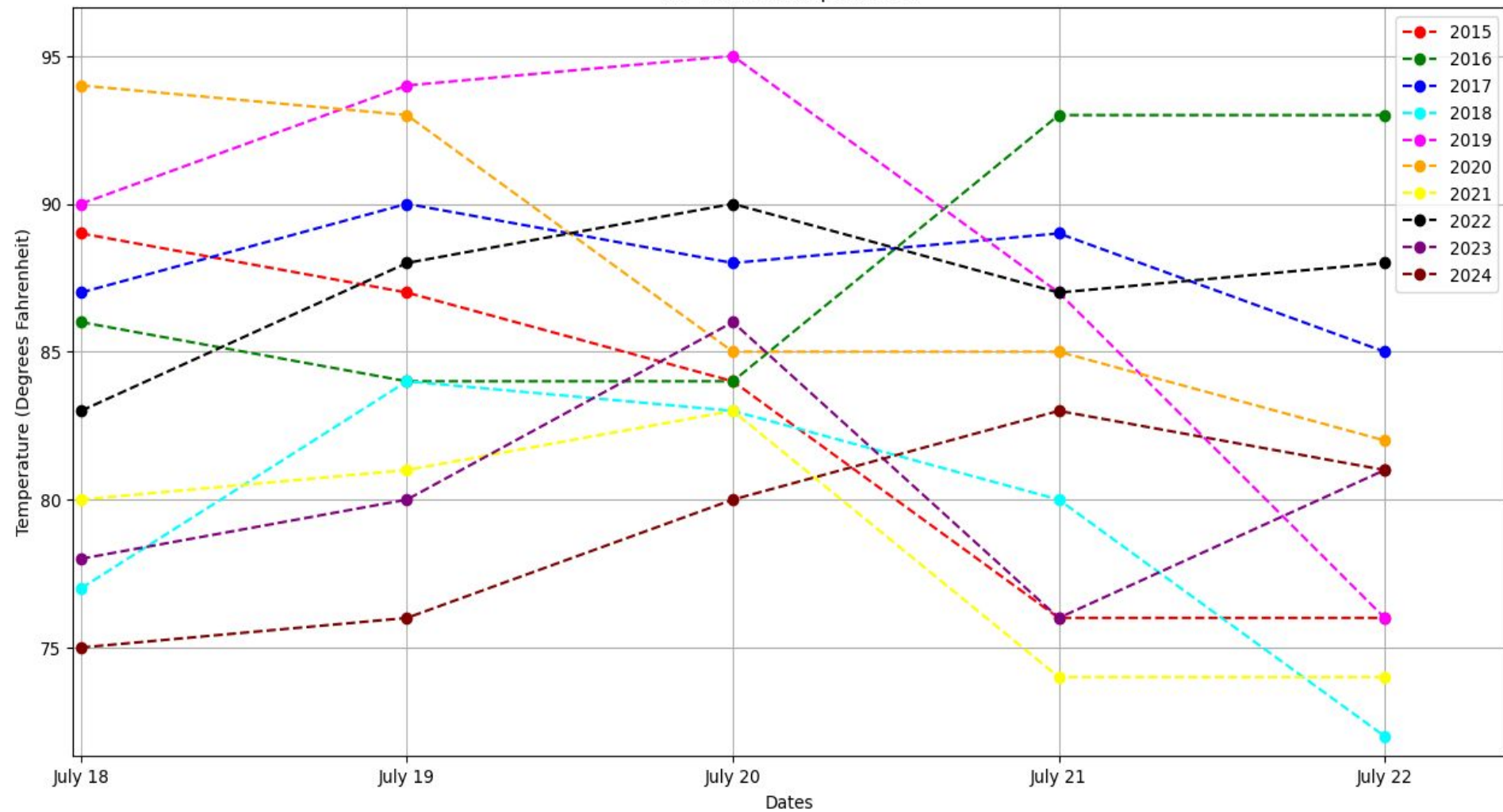
Graphs and Data



Different Temperatures (Fahrenheit)

- Temperatures below 60°F are cold, while temperatures above 80°F are considered hot. Warm temperatures would typically fall between 60°F and 80°F.
 - However, different experiences of warm or cold can vary based on other factors like humidity, wind speed, wind direction, and precipitation.
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- A decorative graphic consisting of several light beige, stylized swirls and flourishes that originate from the bottom right and curve upwards and to the left, partially overlapping the text area.

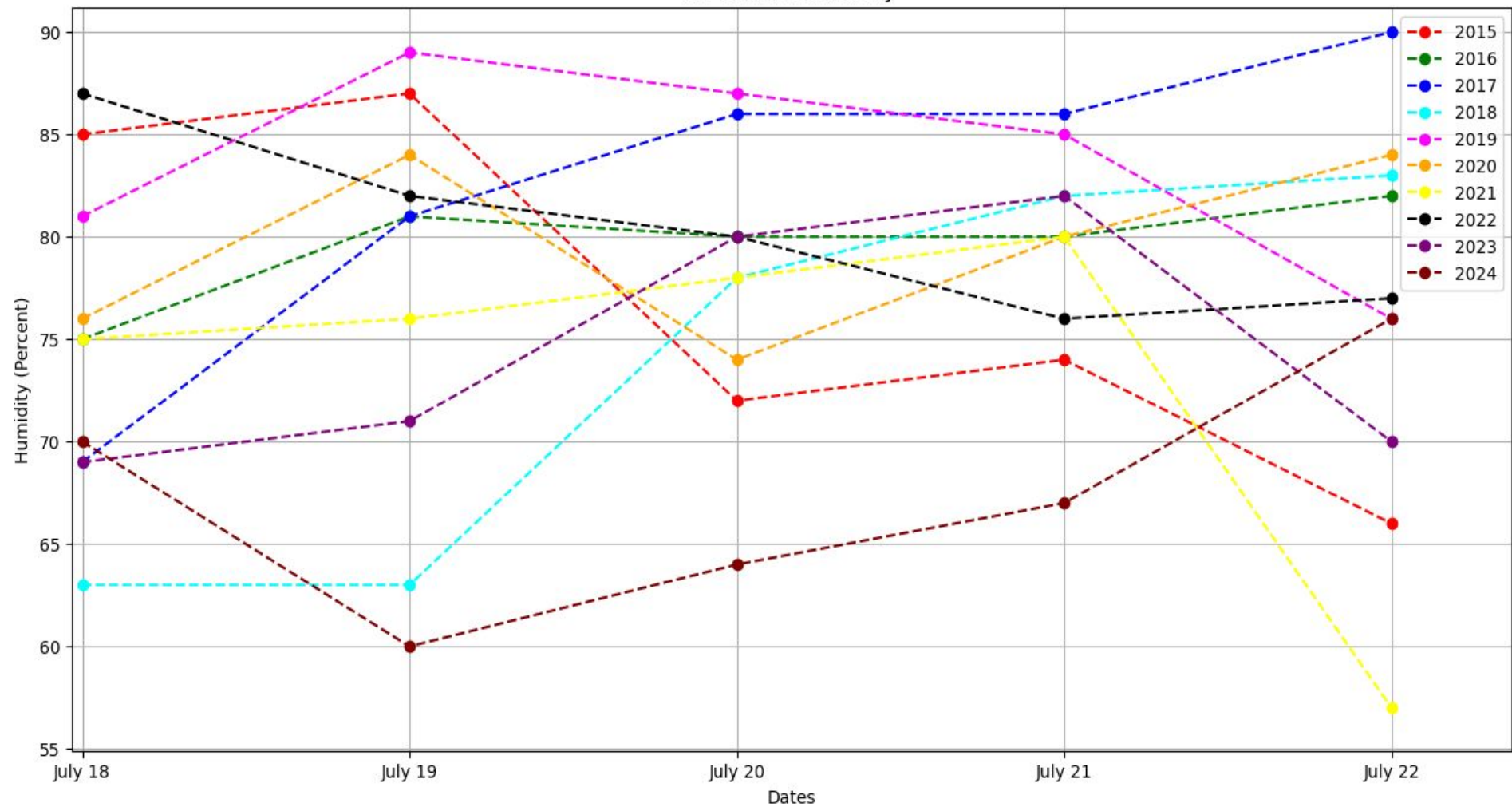
10 Years of Temperatures



What was Humidity like?

- **About 55% and below:** Would be dry and comfortable
- **56-65%:** Typically feels sticky or muggy, especially during evenings and warmer temperatures.
- **66% and above:** Lots of moisture in the air which can feel very oppressive and heavy.

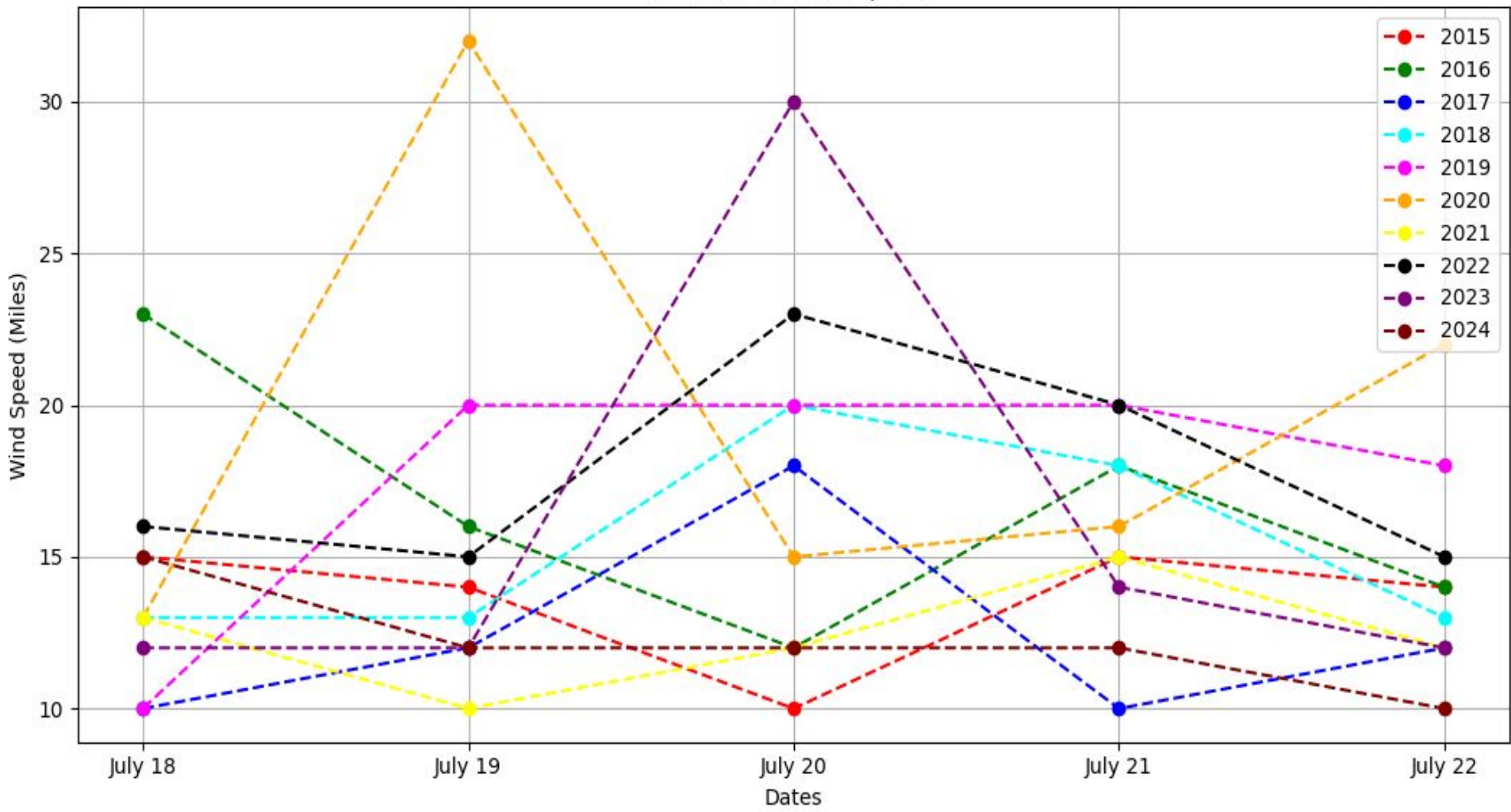
10 Years of Humidity



Wind Speed (MPH)

- A wind speed of 1-18 mph would be classified as a light to moderate breeze. Leaves and small twigs would blow around this amount.
- A strong breeze would have the wind speed of 19-31. It can be difficult to use umbrellas in a condition like this and large branches would be seen in motion.
- A near gale of air would be 32 to 38 mph, and a strong gale would be from 39-46 mph. These amount of wind speeds can cause small trees to fall and window vibration.
- A storm force would be about 64 to 76 mph, and a hurricane type of force would be over 75 mph. These wind speeds can cause severe damage to larger trees, roofs could be peeled off, and cars could be pushed off the roadways.

10 Years of Wind Speeds



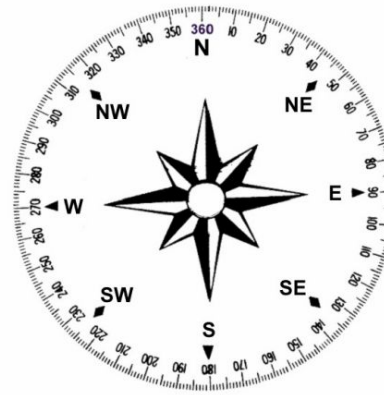
Wind Direction (Degrees)

- A wind vane is what is commonly used to measure the direction of wind.



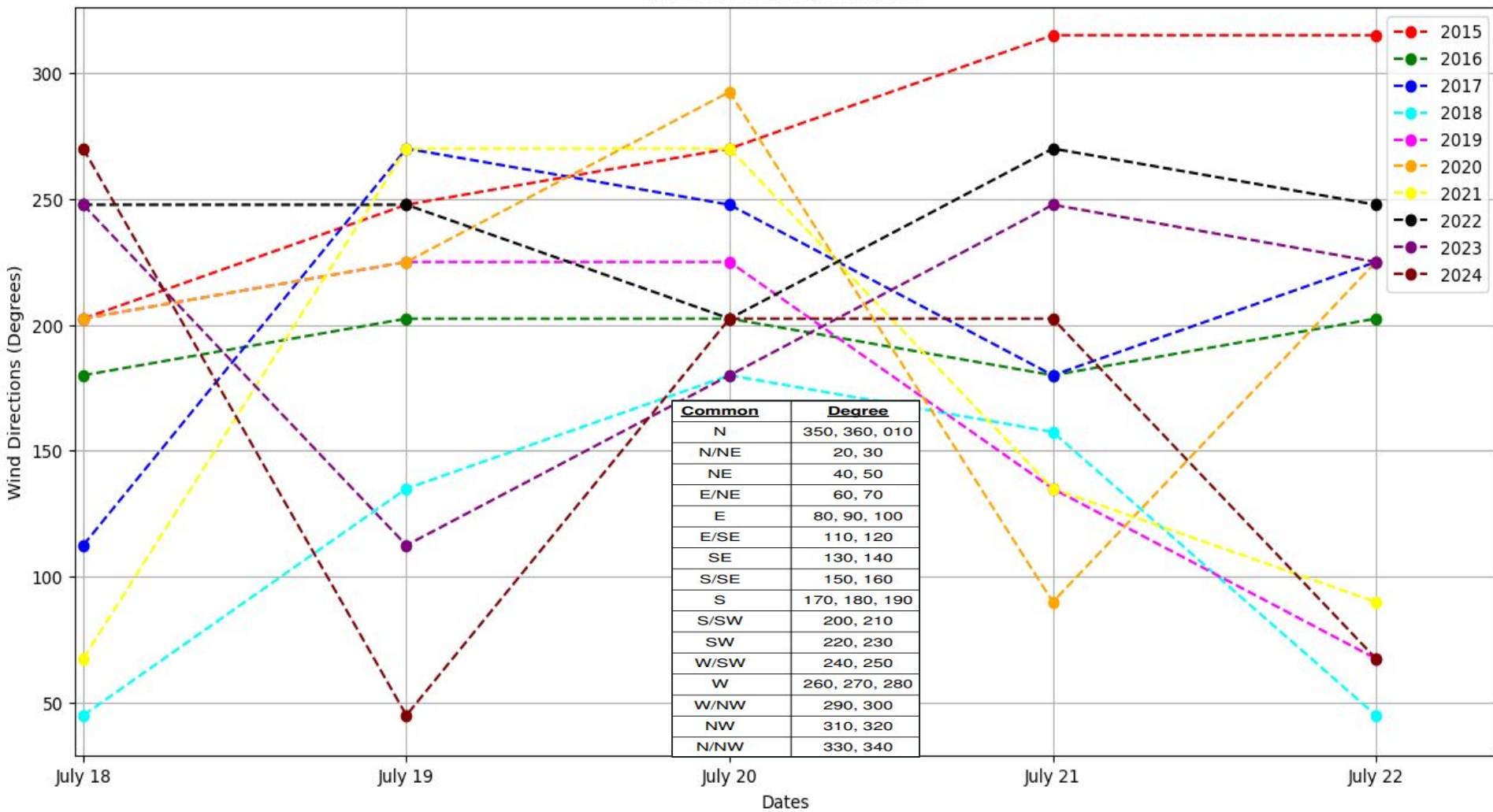
- The wind vane would have a tail that catches the wind with an arrow that points at the direction the wind is blowing from.

Wind Direction



<u>Common</u>	<u>Degree</u>
N	350, 360, 010
N/NE	20, 30
NE	40, 50
E/NE	60, 70
E	80, 90, 100
E/SE	110, 120
SE	130, 140
S/SE	150, 160
S	170, 180, 190
S/SW	200, 210
SW	220, 230
W/SW	240, 250
W	260, 270, 280
W/NW	290, 300
NW	310, 320
N/NW	330, 340

10 Years of Wind Directions

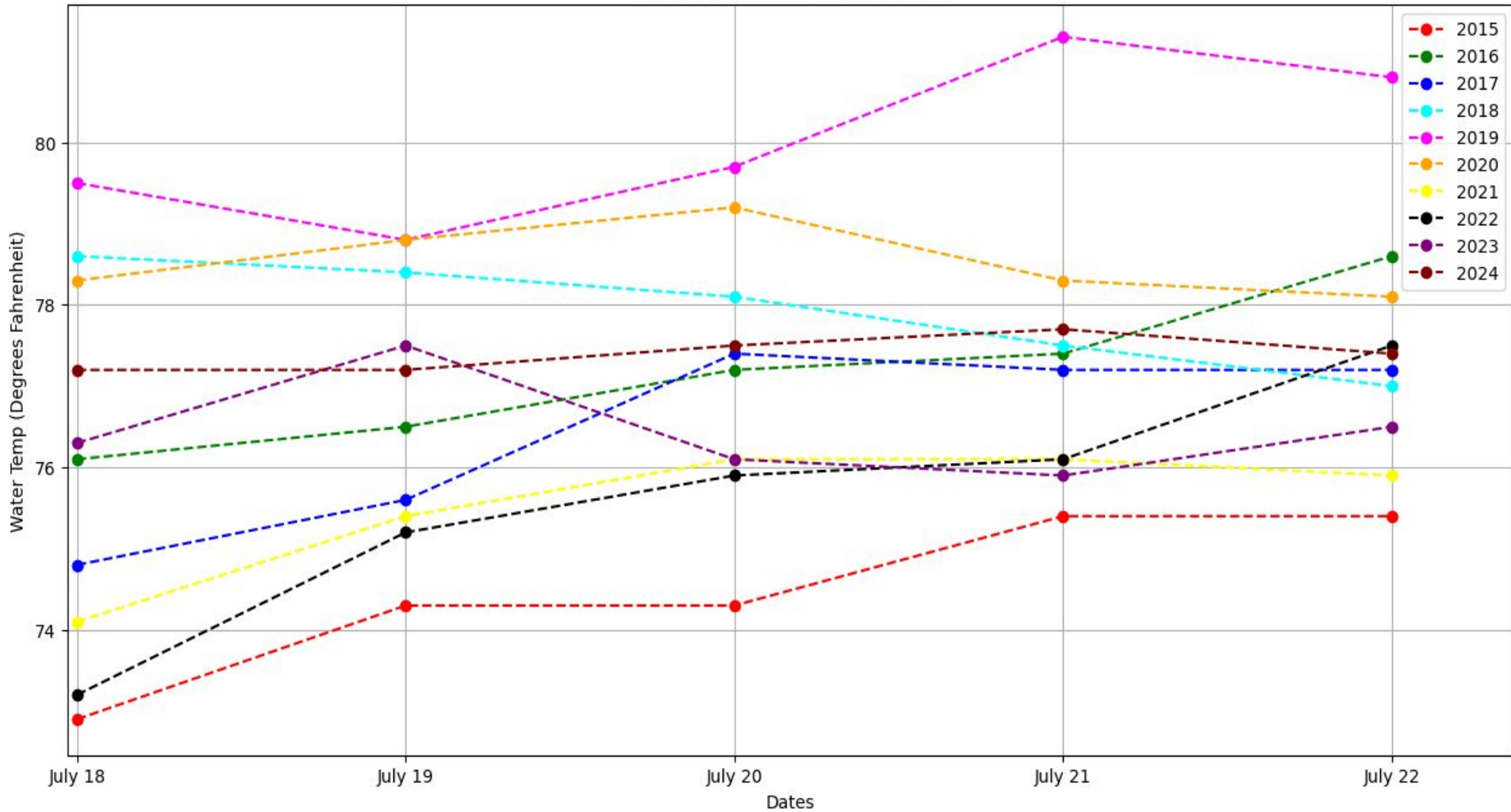


Water Temperature (Degrees)



- **Measuring water temperature is important for the safety of people wanting to temper or interact with said area.**
- **Water temperature is measured using thermometers, probes, or sensors that detect the heat energy of the water.**

10 Years of Water Temperatures



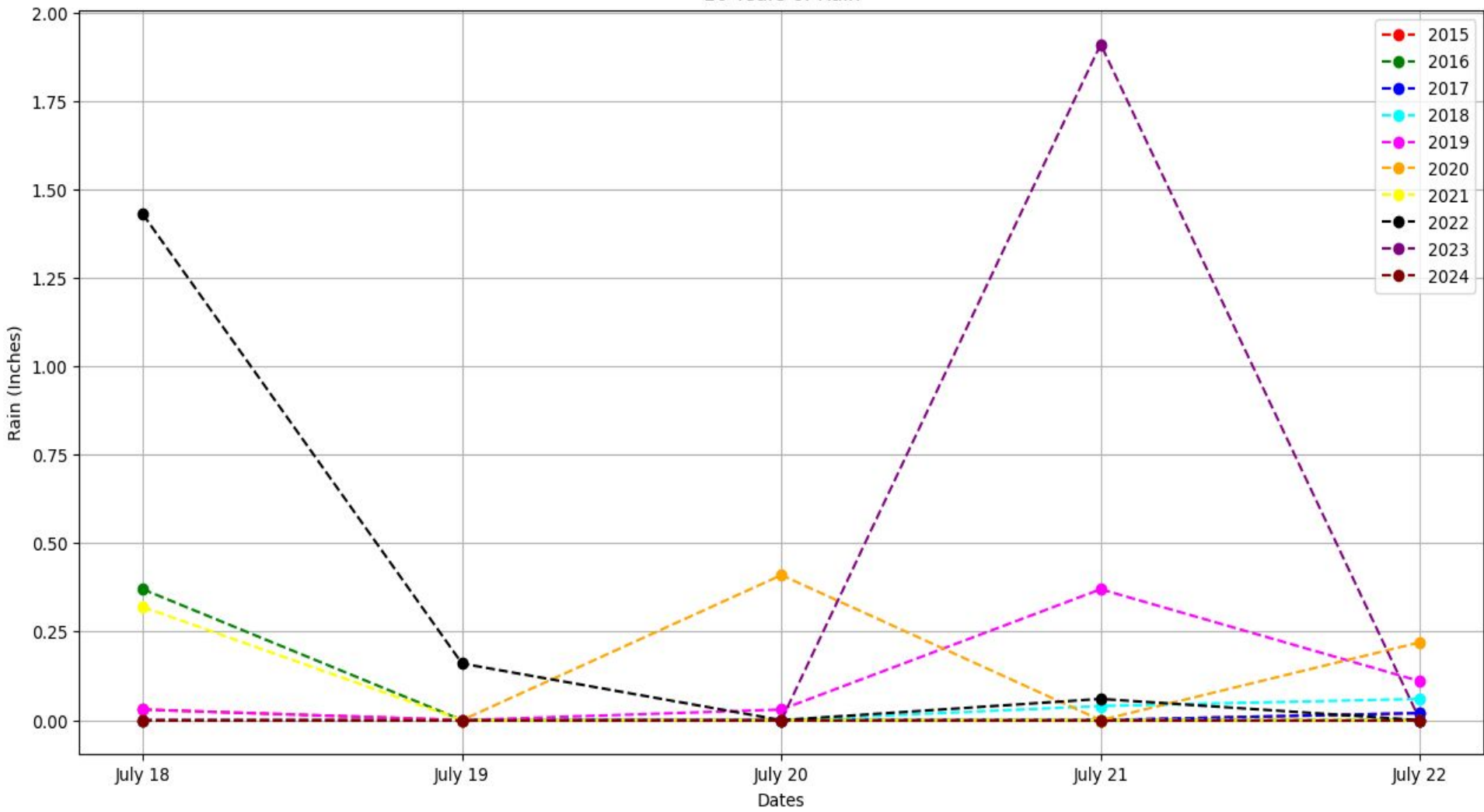
The Different Measurements of Rain

- Rain is measured in inches in a rain gauge to collect the amount of liquid precipitation in a area, over a specific area and time period.
- Rainfall is measured in inches, different amounts of rain have different attributes.
- A light amount of rain would be 0.01 inches to 0.10 inches.
- A moderate amount of rain would be 0.11 to 0.30 inches per hour or 0.30 inches in 6 minutes.
- Heavy rain is about 0.30 inches or more per hour or in 6 minutes.



Rain Gauge

10 Years of Rain





Weather Predictions

July 18 - July 22

18th

Temp: **88°F**
Hum: **74%**
Wind Sp: **14**
Wind Dir:
SW
Water
Temp: **76°F**
Rainfall:
30%

19th

Temp: **88°F**
Hum: **82%**
Wind Sp: **15**
Wind Dir:
W/SW
Water
Temp: **77°F**
Rainfall: **10%**

20th

Temp: **85°F**
Hum: **75%**
Wind Sp: **13**
Wind Dir:
W
Water
Temp: **77°F**
Rainfall: **10%**

21st

Temp: **92°F**
Hum: **80%**
Wind Sp: **16**
Wind Dir: **SE**
Water
Temp: **92°F**
Rainfall:
20%

22nd

Temp: **79°F**
Hum: **83%**
Wind Sp: **13**
Wind Dir:
SW
Water
Temp: **78°F**
Rainfall:
5%

