

Bill Moore Community Park Pedestrian Count

Time Period: 4 weeks (28 days) between Tuesday, March 9, 2021 – Tuesday, April 6, 2021. Originally released as a four-week study during 2021. The report had been updated to Four On-Week Studies for data continuity (December 8, 2023)

Location: Near the bridge over Cane Creek on the greenway

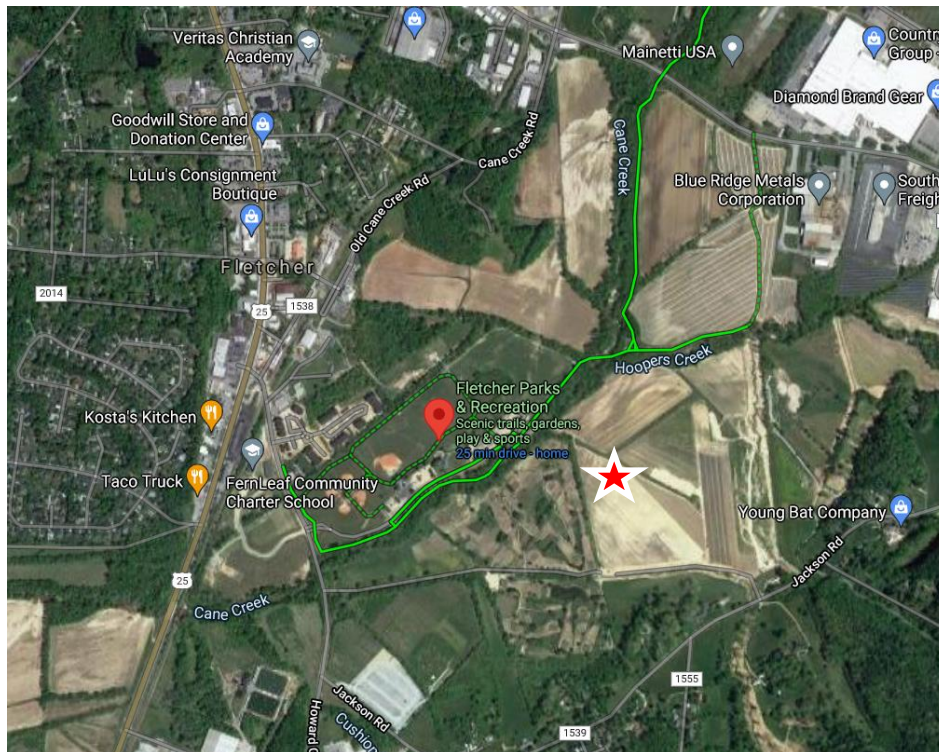


Image: Google Maps

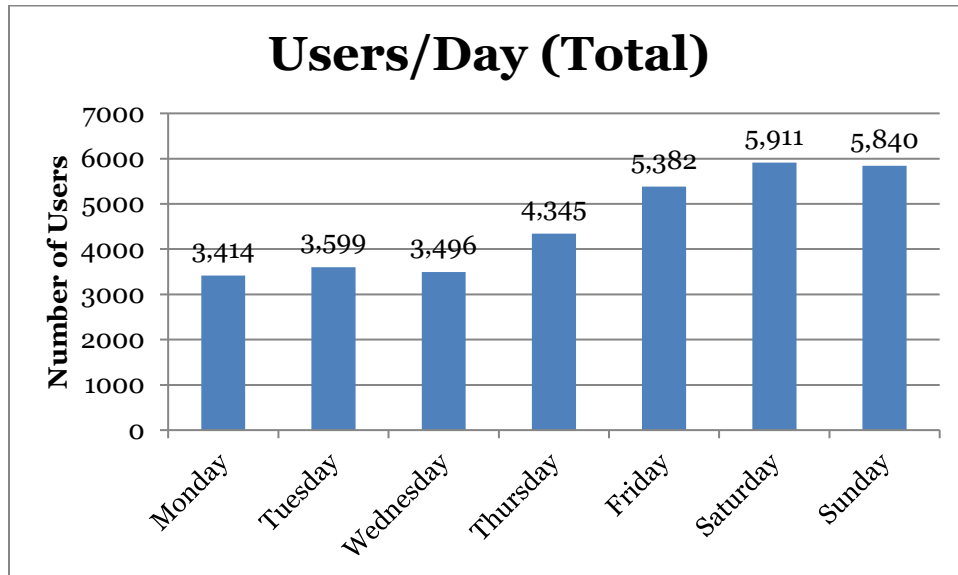
Equipment: *Eco-Counter Pyro Counter*

The Pyro Counter can count bicyclists, pedestrians, skateboarders, rollerbladers, or anyone who passes within approximately 16.5 feet of the equipment. However, the device is unable to differentiate between the different users and simply counts them as general users. The counter is bi-directional and accounts for users in both directions.

Sources of error include facility-users walking side-by-side or very close to each other; this is likely to include people walking or running side-by-side, children being held by a parent or walking along side of them, or dense groups of users. It is unclear how many users are likely to have been missed due to these circumstances.

Results

Overview. This section of the multi-use path includes the bridge going over Cane Creek on the main greenway going through Fletcher Community Park. When the original report was released, it looked at usage over the entire four-week period. It was clear at the time that the weekends saw the highest use, with Saturday being the peak day, at 5911 participants, edging out Sunday at 5840 users. Monday typically had the least users. The peak time, on average, was between 1:00pm-3:00pm with around 13% of users utilizing the greenway at that time. There was a different pattern of usage between the weekday and weekend observed. Both times have similar patterns of users on the greenway, but particularly in the afternoon hours which matches up with better Spring weather. It was thought that the patterns would vary if this count were done in mid-summer or during the winter.



By examining the individual weekly data, it was observed that Week One was the busiest, followed by Week Four, Week Two and Week Three. Week One was the driest week. Week Three was the wettest week. Week Two had some rain Tuesday through Friday. Week Four had one inch of rain on Wednesday. The warmest temperatures during weeks one through three were 71, 70, and 80 degrees, respectively. The temperature hit 74 on the final day of the study, Monday April 5th. The busiest days for trail activity were the final two days of the study during week four, Sunday April 4th and Monday April 5th. The peak time shifted as the days lengthened due to Daylight Savings Time, shifting one hour a week, from 2 PM, to 4 PM, then 5 PM and finally 6 PM.

Patterns of Use

Week 1 -- Tuesday March 9 through Monday March 15, 2021: The weather was cool and dry for the entire seven days. Saturday had the lowest high temperature for this week. The peak days were Wednesday (3/10,) Sunday (3/14,) and Tuesday (3/9.) Activity started a little earlier on the weekend than during the week. Daylight Savings (EDT) started on Sunday March 14, 2021.

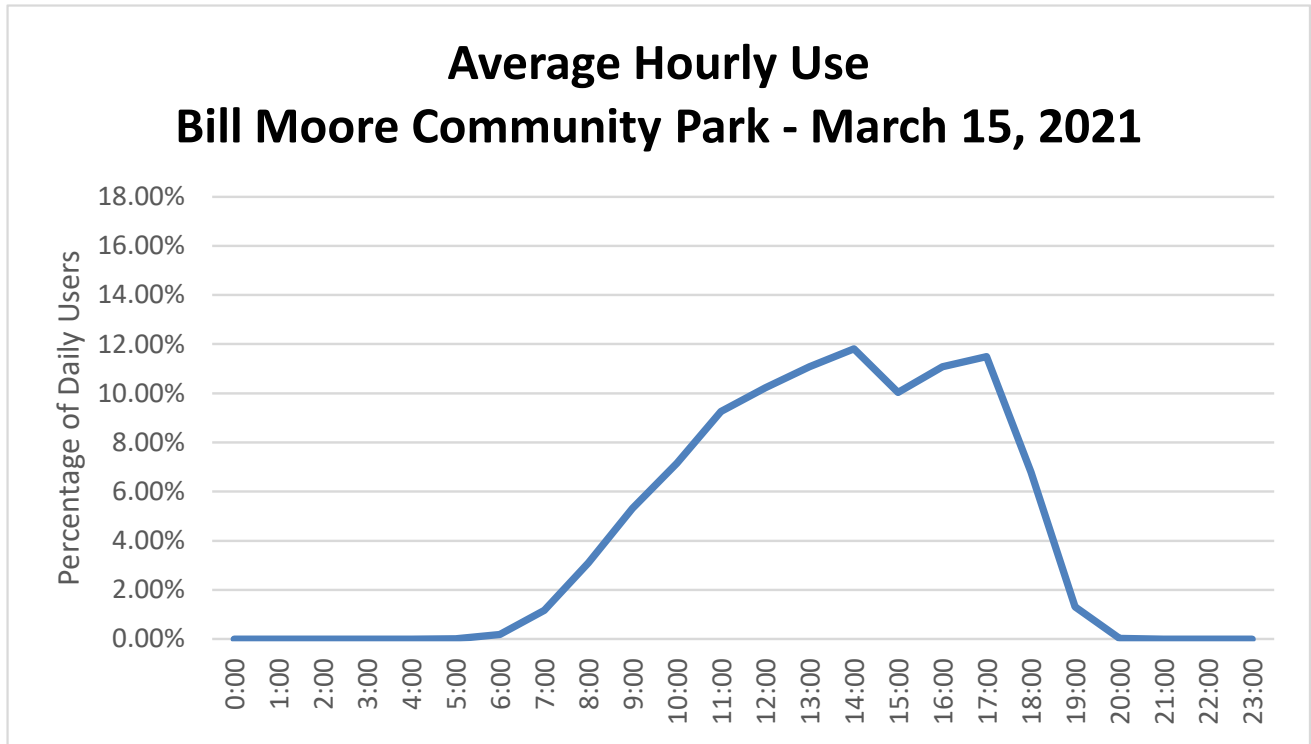
Bill Moore Community Park - March 15, 2021

Total Users	9,581
Users/Hour	57.0
Peak 24-Hour Usage	1,838
Peak Day	Wednesday March 10, 2021
Peak 2-Hour Usage Period	471
Peak 2-Hour Date and Time	March 10, 2021 - 2 PM to 4 PM

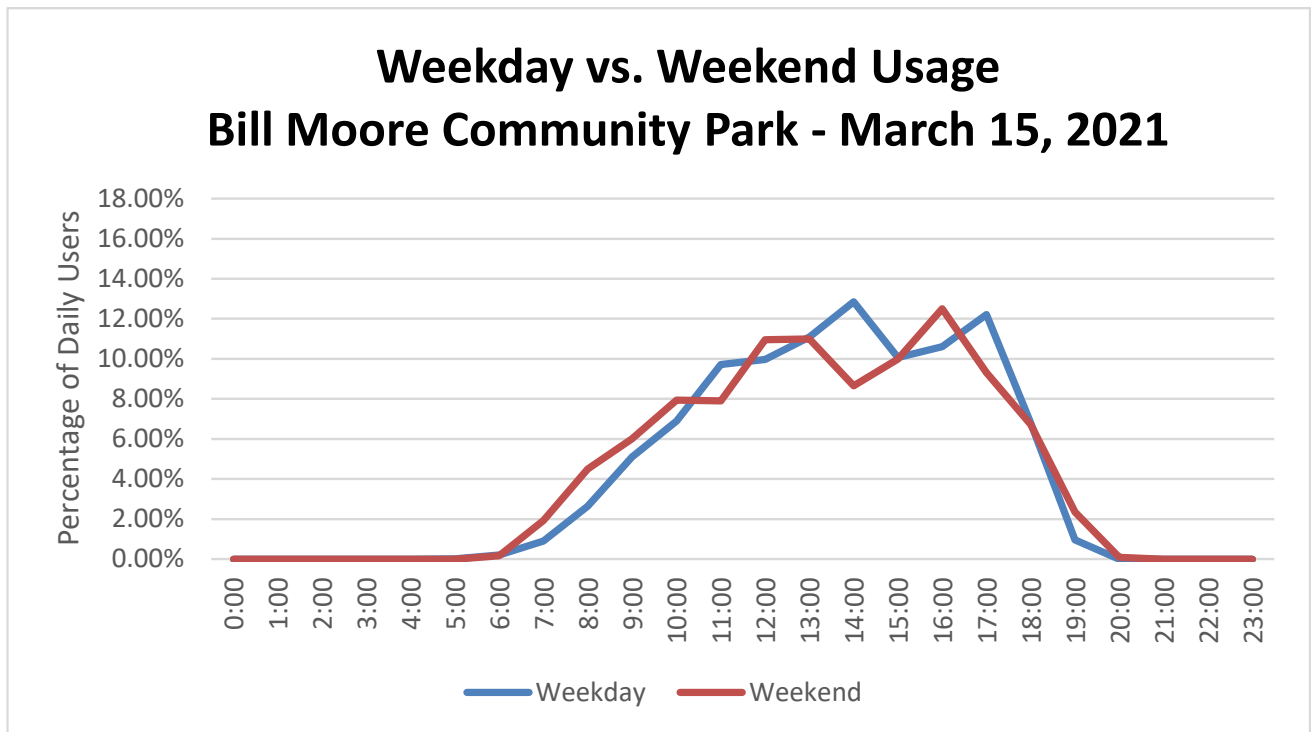
	Minimum Temperature	Maximum Temperature	Average Temperature	Wind	Precipitation
3/9/2021	27	66	47	1.6	0
3/10/2021	30	71	51.1	5.4	0
3/11/2021	44	67	56.8	4.9	0
3/12/2021	42	73	57.7	6.6	0
3/13/2021	50	62	54.2	4.7	0
3/14/2021	50	66	54.3	4.4	0.11
3/15/2021	47	54	50.6	7.1	0

<https://www.wunderground.com/history/monthly/us/nc/fletcher/KAVL/date/2021-3>

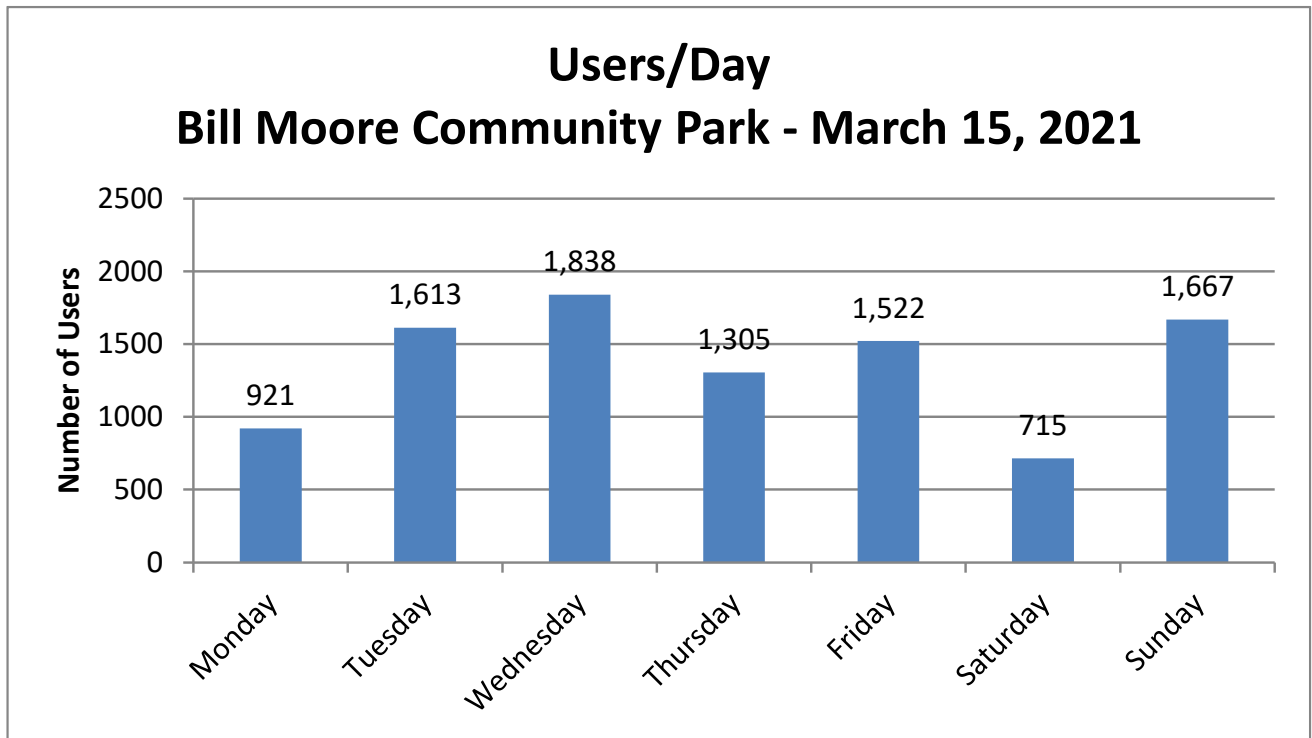
The first chart shows users per hour:



The second chart illustrates the difference between the weekday usage and weekend usage.



The third chart shows the usage per day:



Week 2 – March 16 through March 22, 2021: It was rainy from Tuesday (3/16) through Friday (3/20.) This appears to have dramatically impacted on the turnout Tuesday through Friday. Tuesday and Wednesday were two of the warmest days of the week, with Monday (3/22) and Sunday (3/21) being in the sixties. Activity picked up through the day, during the week and during the weekend. This week the weekend activity peaked closer to noon than it did during the week. The three busiest days were Saturday (3/20), Sunday (3/21), and Monday (3/22), with Monday being the busiest day.

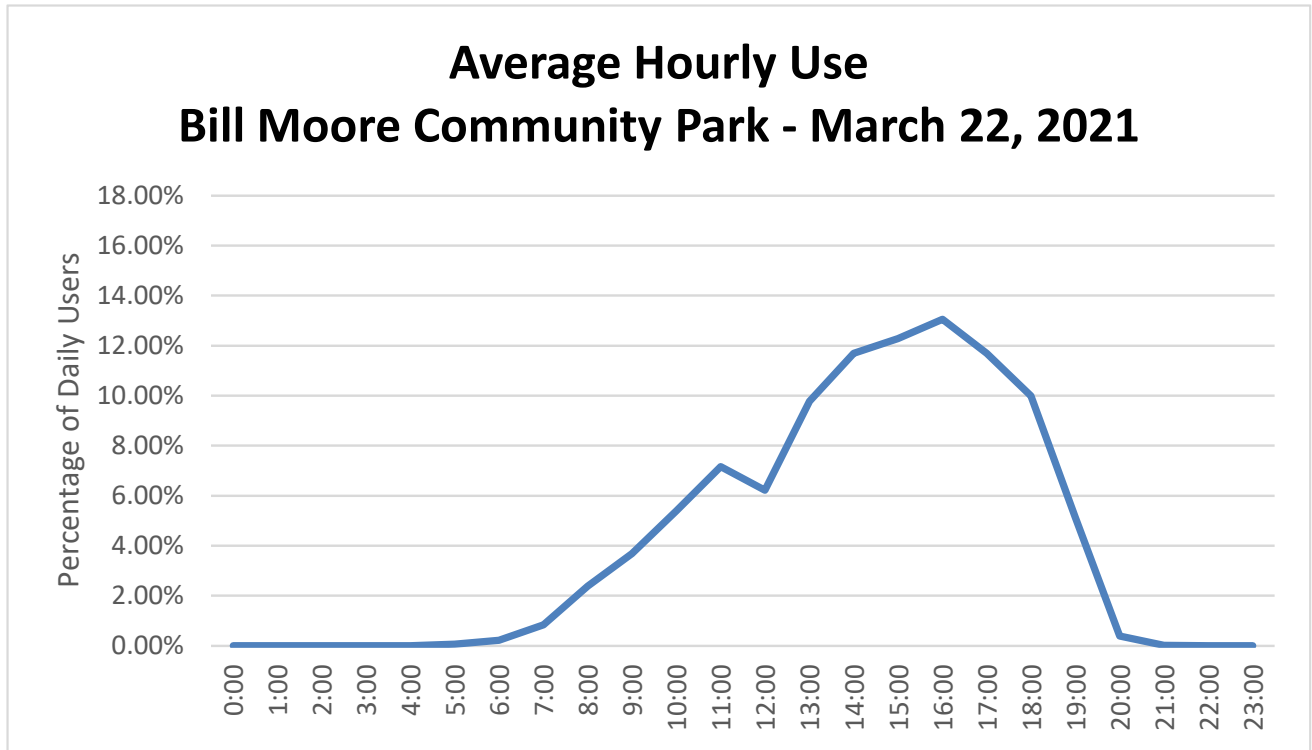
Bill Moore Community Park - March 22, 2021

Total Users	7,037
Users/Hour	41.9
Peak 24-Hour Usage	1,716
Peak Day	Monday March 22, 2021
Peak 2-Hour Usage Period	467
Peak 2-Hour Date and Time	Saturday March 20, 2021 - 3 PM to 5 PM

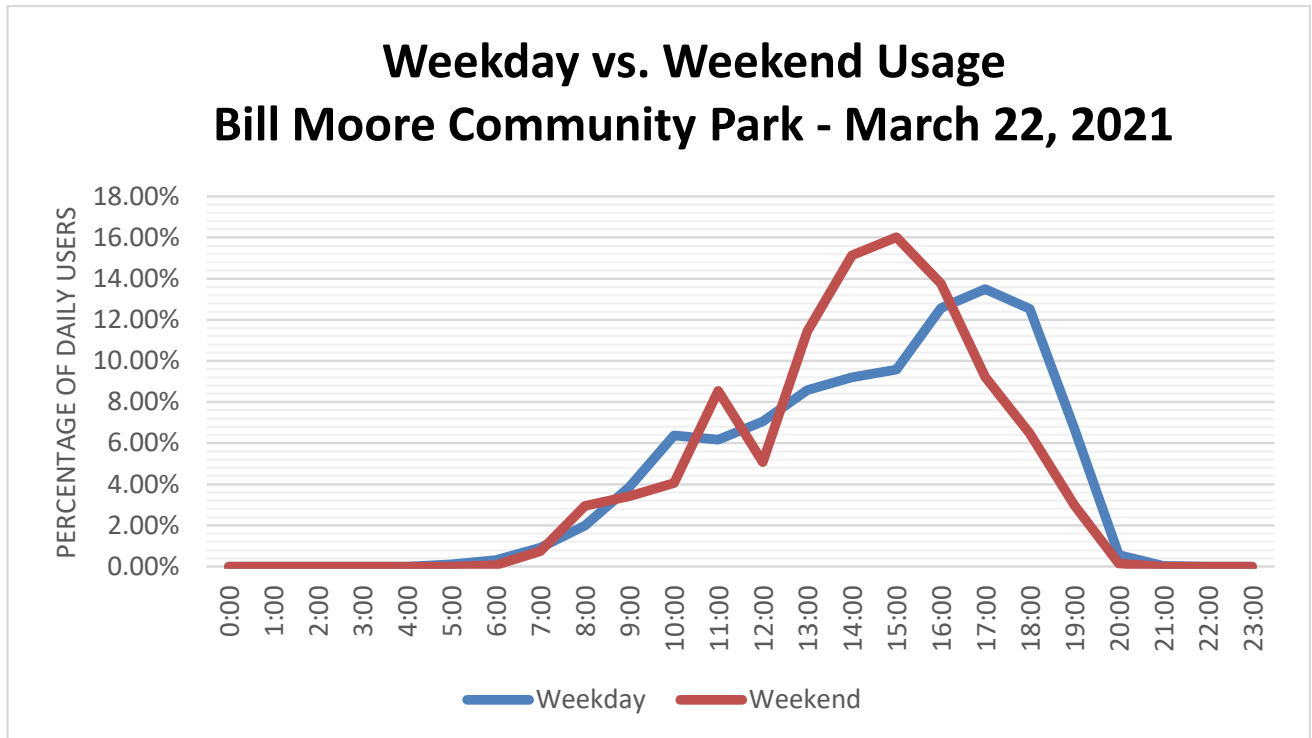
	Minimum Temperature	Maximum Temperature	Average Temperature	Wind	Precipitation
3/16/2021	37	49	42.5	4.3	0.26
3/17/2021	44	64	50.8	4.4	0.45
3/18/2021	48	70	53.4	8.4	1.36
3/19/2021	42	50	47.2	10.4	0.62
3/20/2021	32	55	43.7	3.1	0.08
3/21/2021	41	60	48	2.7	0
3/22/2021	42	64	53.5	3.1	0

<https://www.wunderground.com/history/monthly/us/nc/fletcher/KAVL/date/2021-3>

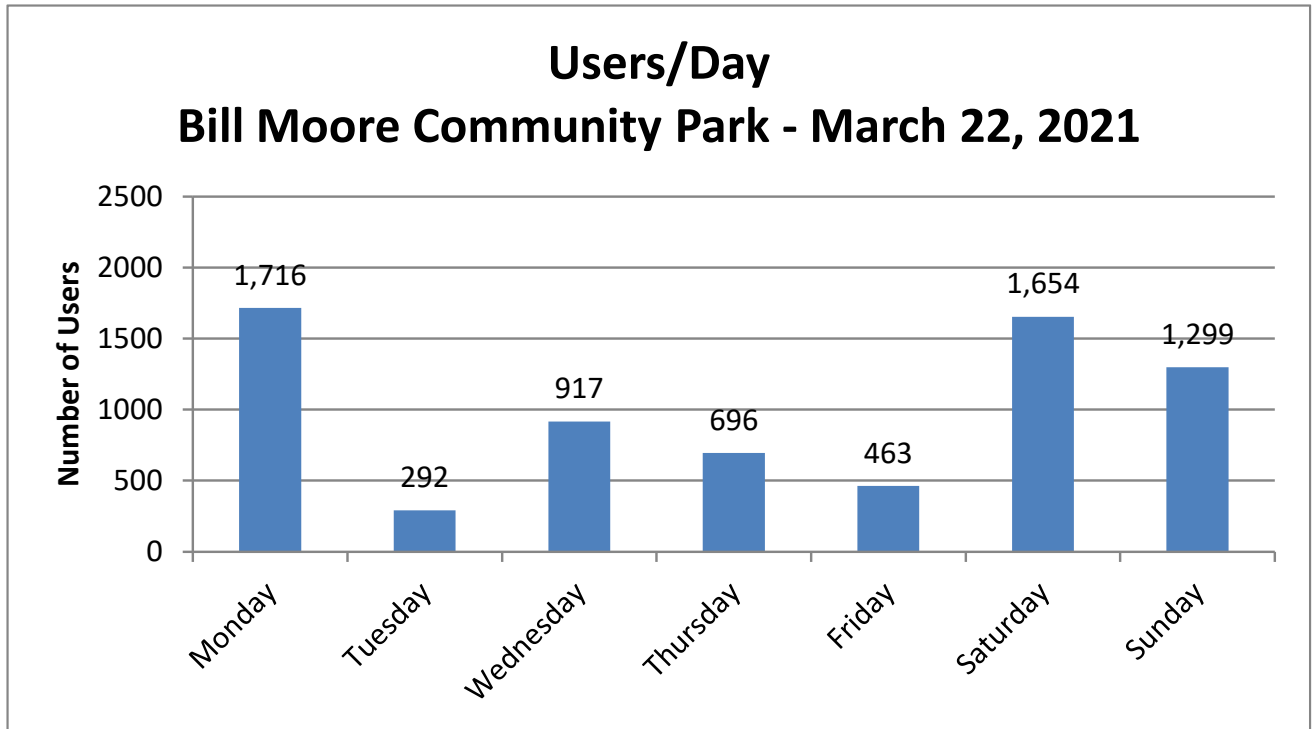
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Week 3 – March 23 through March 29, 2021: Friday (3/26,) Saturday (3/27,) and Sunday were the warmest days of the week. Friday was the wettest day of the week, the month, and the study period. Friday was also the only day where it hit 80 degrees during the study period. Thursday (3/25) saw the least activity for a 24-hour period for the entire study period with just 110 participants recorded. Tuesday, Wednesday, and Friday were the three busiest days of the week during this seven-day period. Weekend usage peaked early during the morning around 9 AM and tapered off during the day. Weekday activity was slow during the morning hours and reached a crescendo at 6 PM.

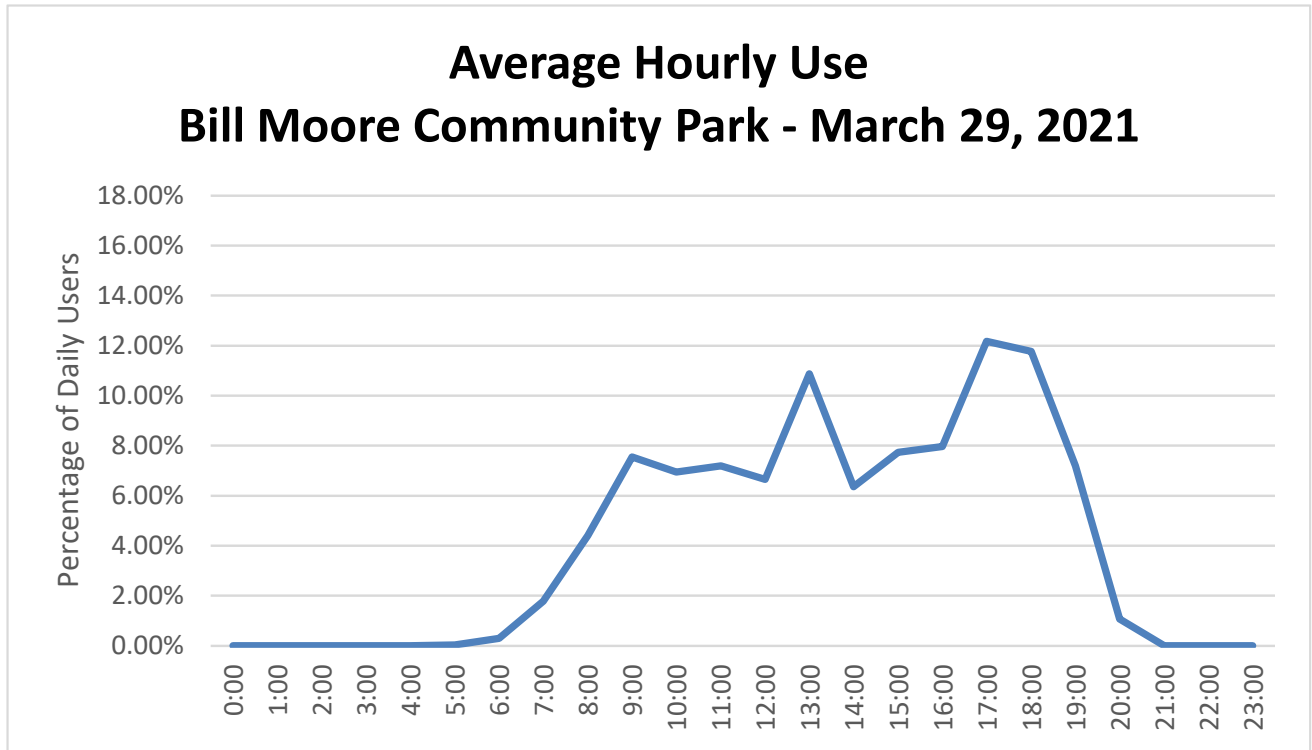
Bill Moore Community Park - March 29, 2021

Total Users	5,020
Users/Hour	29.9
Peak 24-Hour Usage	1,052
Peak Day	Tuesday March 23, 2021
Peak 2-Hour Usage Period	377
Peak 2-Hour Date and Time	Wednesday March 24, 2021 - 5 PM to 7 PM

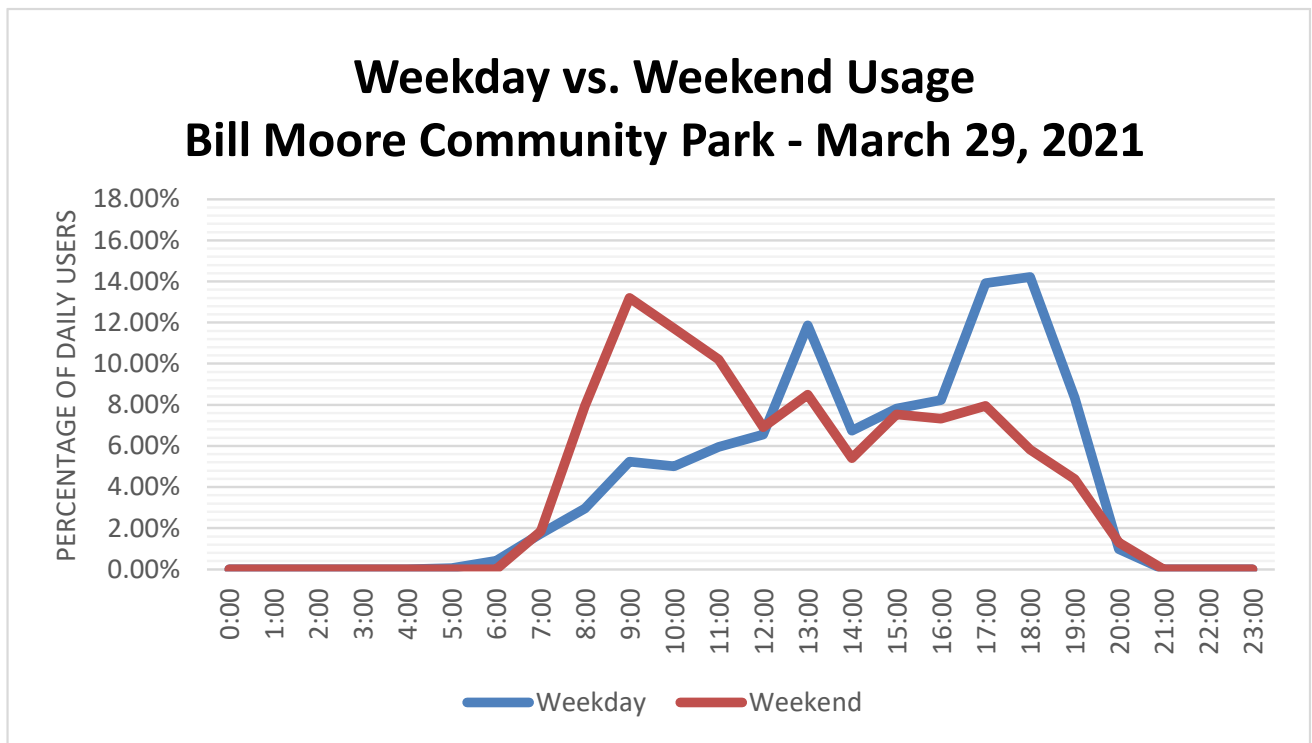
	Minimum Temperature	Maximum Temperature	Average Temperature	Wind	Precipitation
3/23/2021	42	59	53	4.4	0
3/24/2021	53	64	56.5	6.1	0.04
3/25/2021	48	59	54.4	3.7	0.01
3/26/2021	57	80	63.2	6	3.68
3/27/2021	46	72	56.7	5.5	0
3/28/2021	46	67	58.6	10.8	0.46
3/29/2021	38	63	49.1	9.5	0.22

<https://www.wunderground.com/history/monthly/us/nc/fletcher/KAVL/date/2021-3>

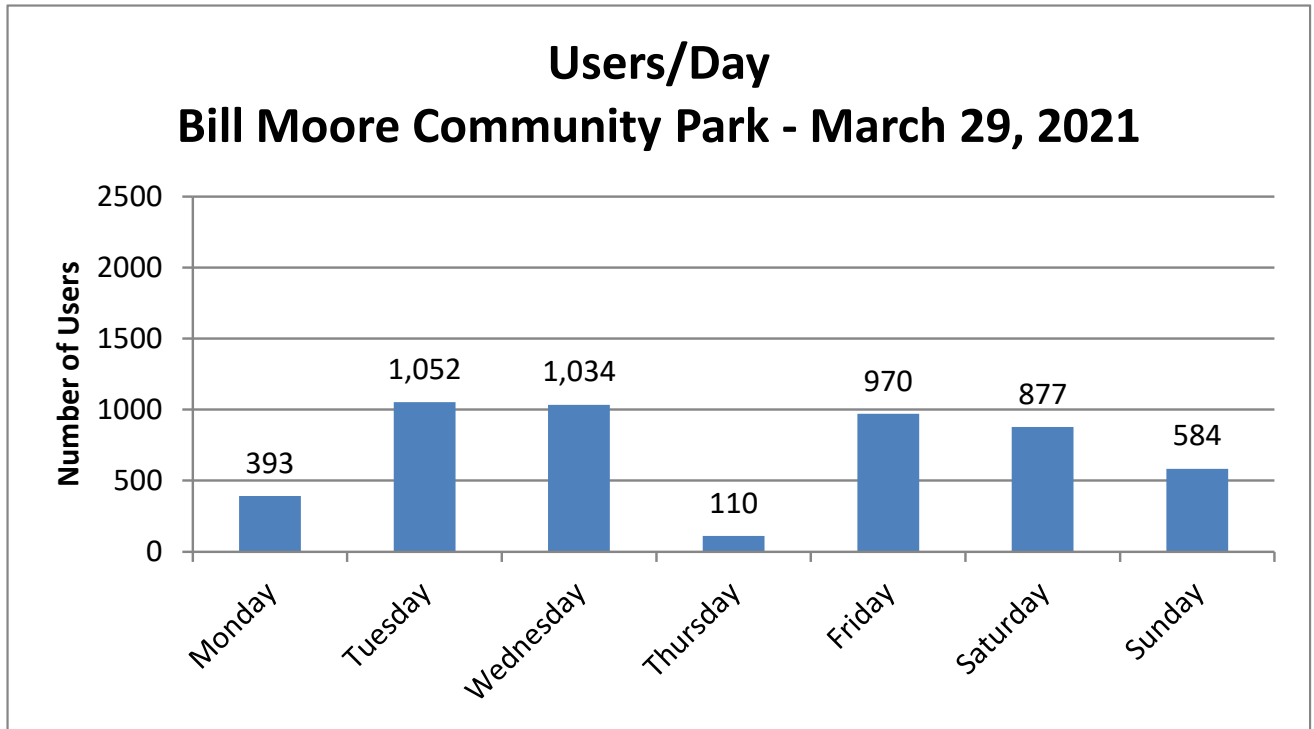
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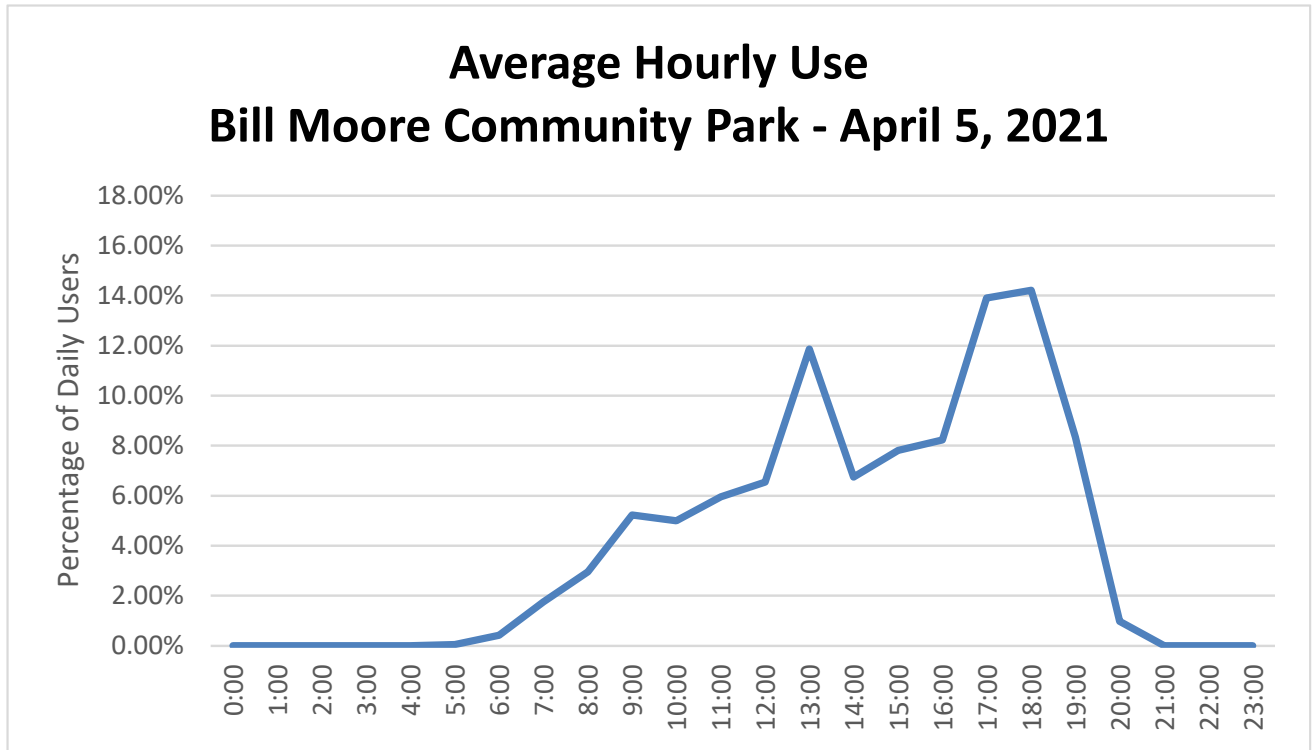
Week –4 March 30 through April 5, 2021: The weather was cool this week with lows in the mid-twenties and low-thirties. There was an April Fool’s Day rain of just over one inch. The final two days of the study, Sunday (4/4) and Monday (4/5) were the warmest and driest days of the week. Monday, Sunday, and Saturday were the three busiest days of the week. Sunday (4/4) and Monday (4/5) were the two busiest days of the Study Period.

Bill Moore Community Park - April 5, 2021

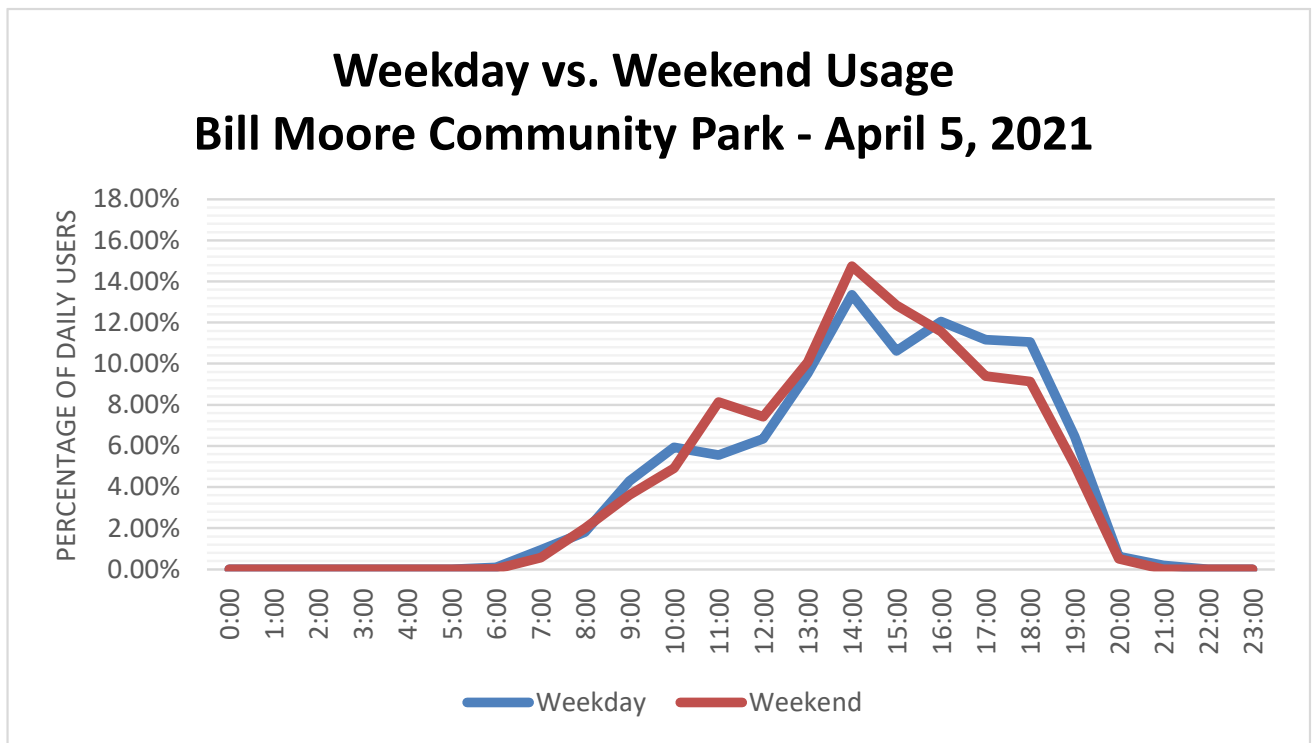
Total Users	8,522
Users/Hour	50.7
Peak 24-Hour Usage	1,981
Peak Day	Monday April 4, 2021
Peak 2-Hour Usage Period	488
Peak 2-Hour Date and Time	Monday April 4, 2021 - 2 PM - 4 PM

	Minimum Temperature	Maximum Temperature	Average Temperature	Wind	Precipitation
3/30/2021	36	68	53.5	5.8	0
3/31/2021	40	60	56.1	6.8	0.35
4/1/2021	33	41	37.1	20.3	1.09
4/2/2021	26	45	35.1	13.5	0
4/3/2021	26	59	42.3	2	0
4/4/2021	32	69	51.7	5.6	0
4/5/2021	37	74	55.9	2.8	0
https://www.wunderground.com/history/monthly/us/nc/fletcher/KAVL/date/2021-3					
https://www.wunderground.com/history/monthly/us/nc/fletcher/KAVL/date/2021-4					

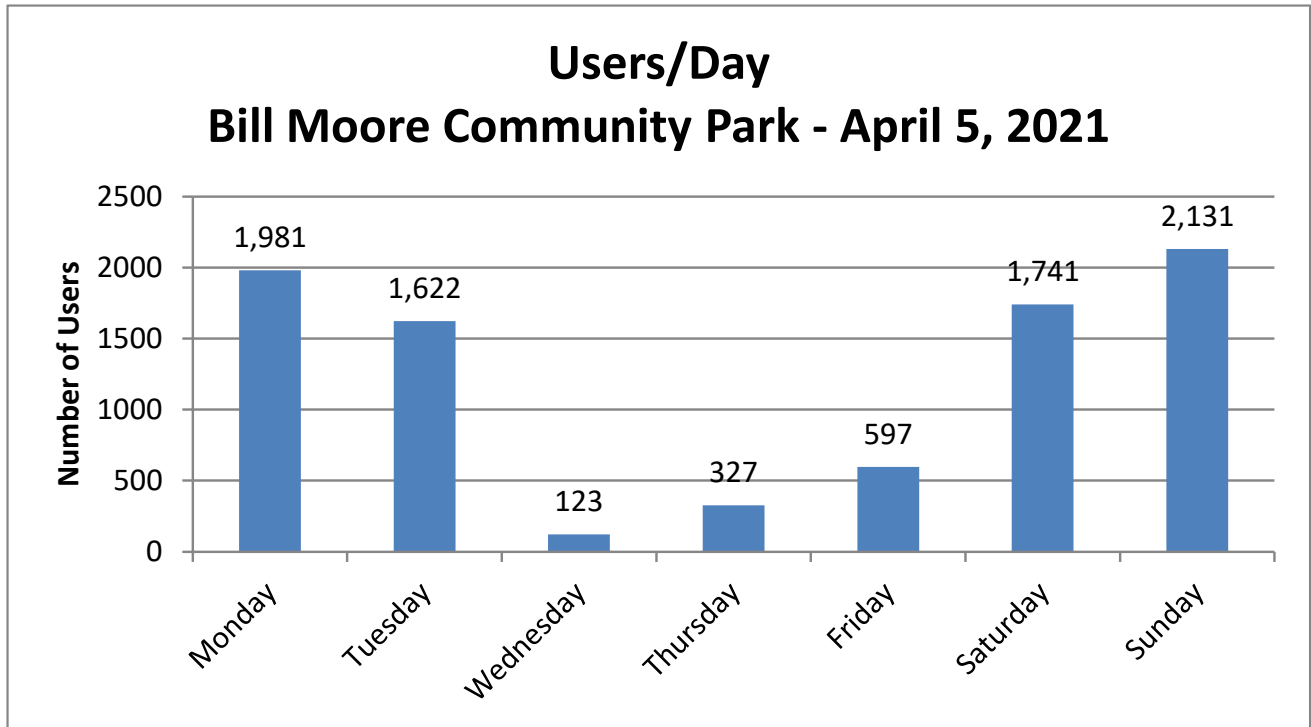
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Weather and Notes

MARCH – APRIL 2021

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

7 Mostly Sunny Actual: 50° 27° 0 in	8 Mostly Sunny Actual: 64° 26° 0 in	9 Mostly Sunny Actual: 66° 27° 0 in	10 Mostly Sunny Actual: 71° 30° 0 in	11 Mostly Sunny Actual: 67° 44° 0 in	12 Cloudy Actual: 73° 42° 0 in	13 Cloudy Actual: 62° 50° 0 in
14 Cloudy Actual: 66° 50° 0.11 in	15 Cloudy Actual: 54° 47° 0 in	16 Cloudy Actual: 49° 37° 0.26 in	17 Foggy Actual: 64° 44° 0.45 in	18 Scattered Showers Actual: 70° 48° 1.36 in	19 Cloudy Actual: 50° 42° 0.62 in	20 Mostly Sunny Actual: 55° 32° 0.08 in
21 Cloudy Actual: 60° 41° 0 in	22 Mostly Sunny Actual: 64° 42° 0 in	23 Cloudy Actual: 59° 42° 0 in	24 Cloudy Actual: 64° 53° 0.04 in	25 Thunderstorm Actual: 59° 48° 0.01 in	26 Mostly Sunny Actual: 80° 57° 3.68 in	27 Cloudy Actual: 72° 46° 0 in
28 Cloudy Actual: 67° 46° 0.46 in	29 Mostly Sunny Actual: 63° 38° 0.22 in	30 Mostly Sunny Actual: 68° 36° 0 in	31 Scattered Showers Actual: 60° 40° 0.35 in	1 Mostly Sunny Actual: 41° 33° 1.09 in	2 Mostly Sunny Actual: 45° 26° 0 in	3 Mostly Sunny Actual: 59° 26° 0 in

Source: Weather Underground

