1. Find the month in 2015 where the State of Washington had the largest number of storm events. How many days of storm-free weather occurred in that month?

28

The first step was to exclude all rows that have a County/Parish, Zone, or Marine name that begins with the letters A, B, or C. The question was focused in the state of Washington, so I separated the data for the state of Washington only. After that, I filtered the event type column using the text filter to separate the storm events only. Now the search is on the month with the largest number of storm events. To find this, I color coded the month\_name column after I sorted the column. This step helped to count how many incidents happened on every month. August had the largest number of events which was 8. However, all events happened in three days. These means there were 28 storm-free days in August in the state of Washington.

2. How many storms impacting trees happened between 8PM EST and 8AM EST in 2000?

1773

The first step was to exclude all rows that have a County/Parish, Zone, or Marine name that begins with the letters A, B, or C. The data asked to find storm events impacting trees, so I isolated all storms from all the event types from the data. I used the text filter to separate all the incident types contain storm in the event type column. After this according to the question I filter the CZ\_Timezone column to provide only the eastern time zone. Separating eastern time zone only made it easier to separate the storm events happened between 8 PM EST and 8 AM EST. Since the time was recorded on the 24hr; I had to separate events from 20:00 to 8:00.

3. In which year (2000 or 2015) did storms have a higher monetary impact within the boundaries of the 13 original colonies?

2000

This question was the most complex. I started by excluding all rows that have a County/Parish, Zone, or Marine name that begins with the letters A, B, or C. Then I filter the event type column using a text filter to those events which contain storms. After that, I screen the 13 original colonies which are Delaware, Pennsylvania, New Jersey, Georgia, Connecticut, Massachusetts Bay, Maryland, South Carolina, New Hampshire, Virginia, New York, North Carolina, and Rhode Island. Then I remove the rows in which there was no data on either property or crop damage. Then I color code the loss value in millions and thousands; it helped me to separate the thousands and millions and use formulas easier. The next step was to convert the text money value to actual numbers. I started by removing the letters K and M which denote thousands and millions. After that, it was necessary to remove the dots used between the numbers and add the appropriate zeros. Then it was time to convert the formula results to actual numbers to calculate the sum. The last step was to sum the total property and crop damage of the two years. Based on the results the year 2000 had a higher financial impact within the boundaries of the 13 original colonies.