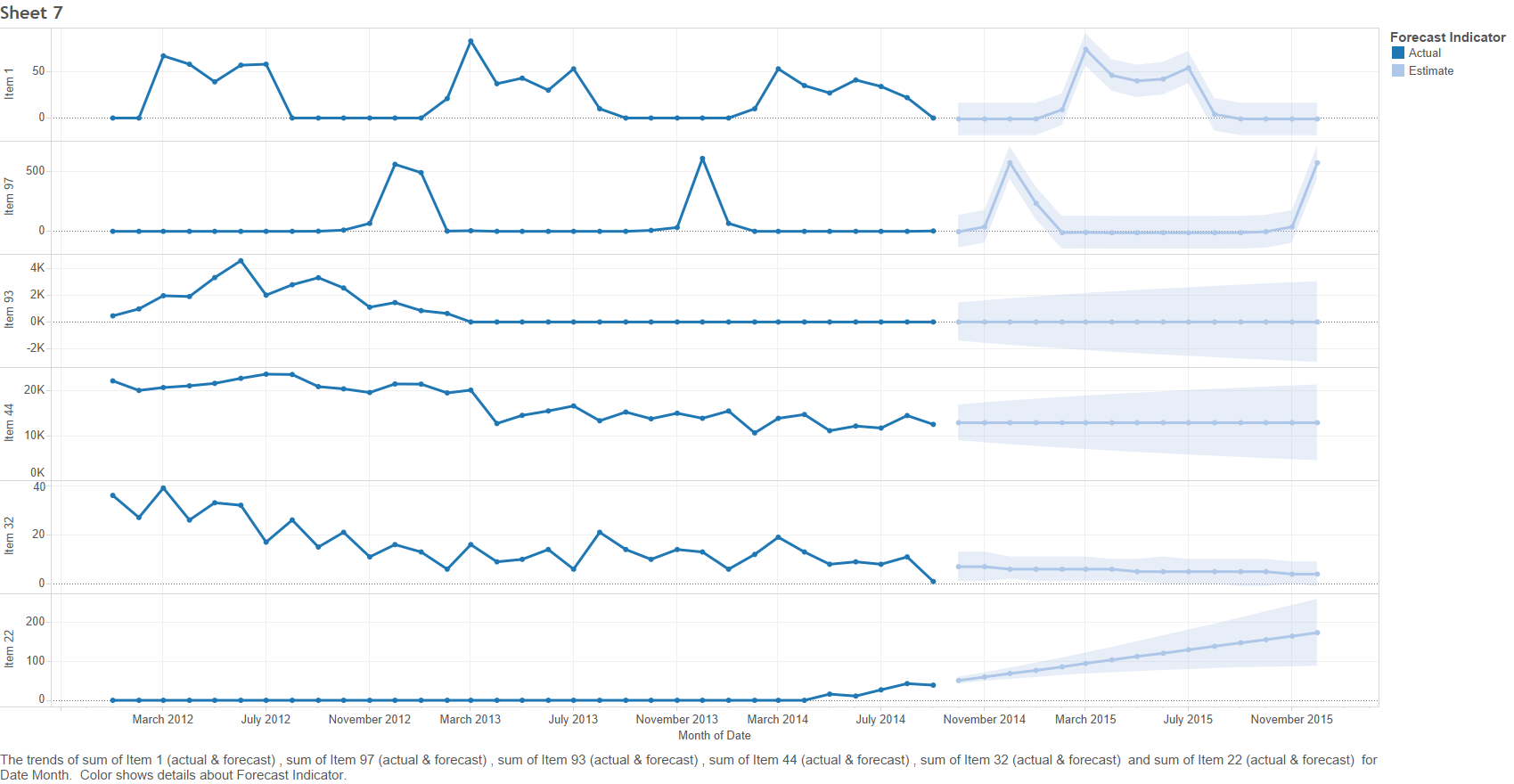
**Data Analysis and Visualization**

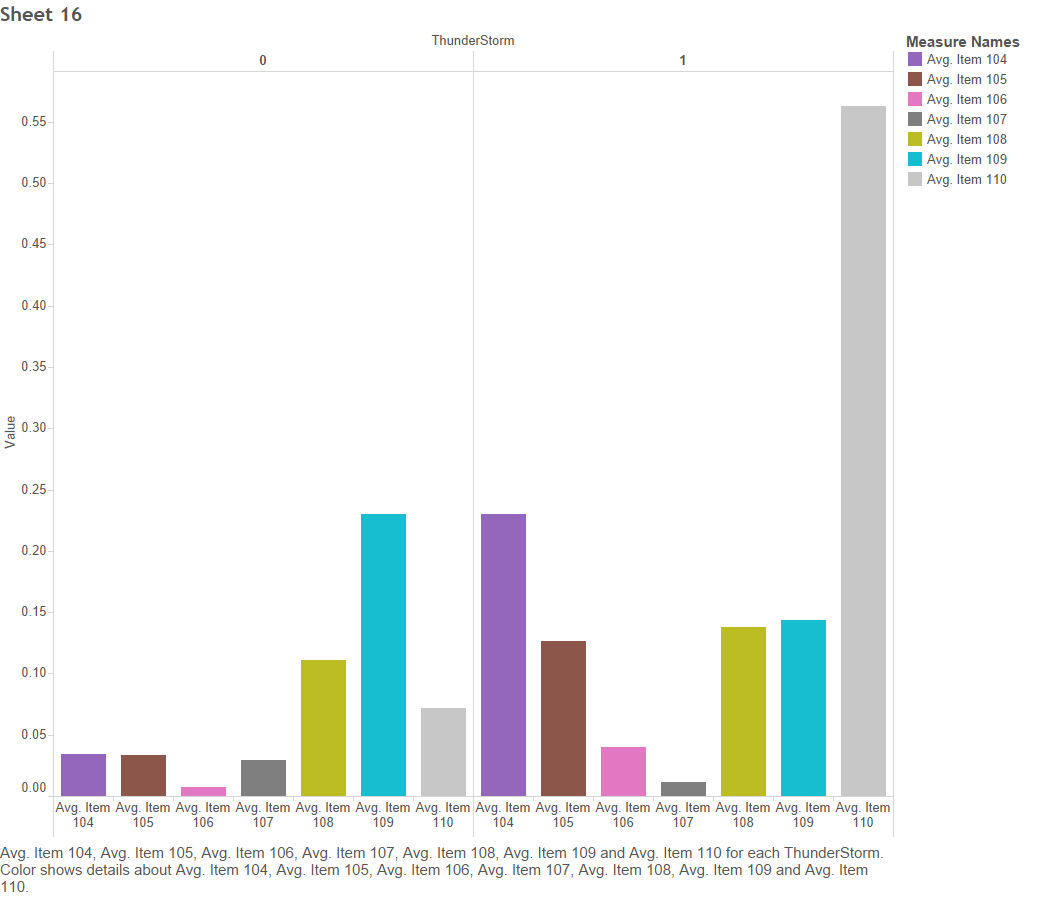
We visually analyzed our final data (Merge.csv) using Tableau and found the following conclusions –

1. **Item sales vs Time of the Year**



* As the graph shows, the demand for items changes as per the season and months thus the supply should adapt to such changes.
* Item1 and Item97 vary according to each month; Item1 being bought mostly during March-July and the latter from December to January. Items 44 and 32 are fairly constant over the months.
* We also see that Item93 hasn’t been sold post-March 2013 and would likely be not sold; as opposed to Item22, which has just started its sales from April 2014.
* There are predictions shown at the right in light color, as to how the sales would be.

1. **Effect of Thunderstorms on Item Sales -**



* The sale of some of the items spike while others reduces.
* More number of Item110 is sold during the storm (Thunderstorm: 1).
* Item109 is sold less during the thunderstorms (Thunderstorm: 1).