

Investigation One

Using the Storm Events Database on the NCDC website, a list of snowstorms for Kent County, Maryland was obtained over the past decade. These dates and amounts of snow for these events were entered into the attached chart. The type of precipitation (snow or heavy snow) is also listed for each event. It is uncertain if any ice fell along with the snow and added to the accumulations. The data shows that many storms were simply nuisances and would not require large finances for cleanup. There are two storms that come close to the January 25th, 2000 snowfall of twenty inches. One snowstorm dumped a foot of snow on Kent County on February 16th, 1996. The other snowstorm dumped twenty-two inches of snow on Kent County on February 16th, 2003. Only two storms came close to the January 25th, 2000 snowfall. Statistical analysis shows that the mean snowfall of all the events is 4.17 inches with a standard deviation of 4.25 inches. Outliers fall outside of three standard deviations of the mean, or outside the range of - 8.58 inches and 16.92 inches. The January 25th, 2000 snowstorm is thus an outlier because it dumped twenty inches on Kent County. Because of this, it can be concluded that the emergency funds of \$10,000/year are not needed.