



EthylBloc™ Technology
Truck Treatment



EthylBloc™ Sachet

Distribution of Ethylene Levels in the Floral Industry

Background

Floralife, Inc. analyzes air samples for ethylene (using gas chromatography in our labs) from different locations for many customers in the floral industry. The 240 data points were separated according to the following industry segments: wholesale (Whsle), retail (Rtl), supermarket distribution (SD), grower (Gwr), supermarket store (SS), bouquet operation (Bqt). The data from 1999 - 2001 were analyzed to determine the distribution of varying levels of ethylene in the industry.

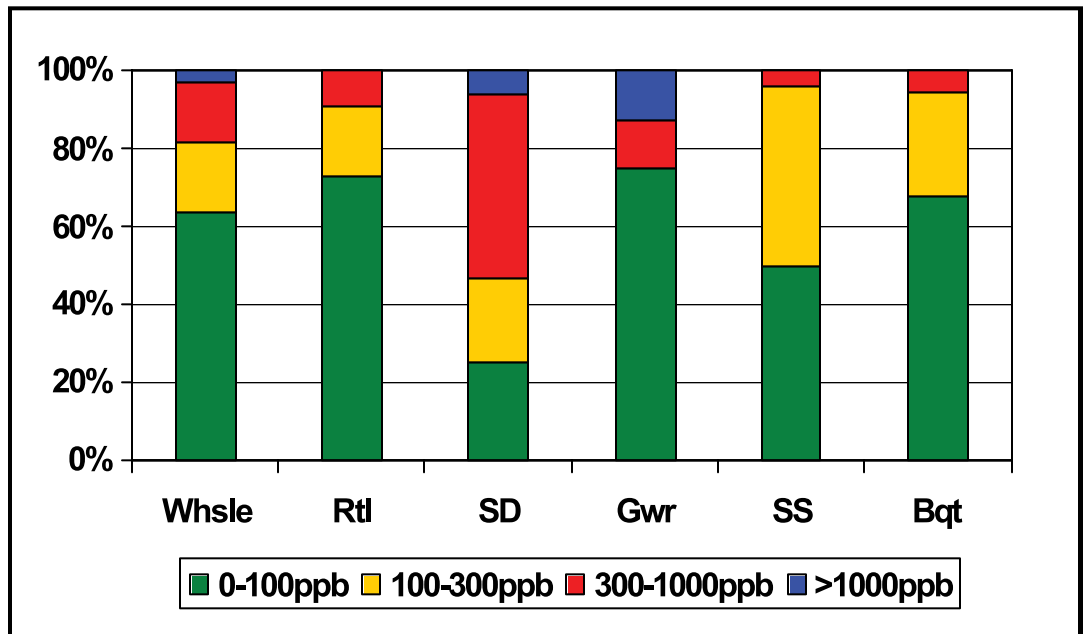
Keep in mind the following points:

1. Levels of ethylene of 100 ppb can do damage to ornamentals in time periods greater than 24 hours.
2. Levels of 250 ppb and more can do damage in as little as 12 hours.

The graph below gives the percentage of air samples from each segment of the industry that falls within four ethylene level categories. The four colors represent the categories as follows: green areas demonstrate low levels of ethylene, yellow areas are a caution area, red and blue areas are levels of concern.

For example, within the wholesale segment, 63.5% of the data tested in the 0-100ppb ethylene range, 18.3% in the 100-300 ppb range, 15.3% in the 300-1000 ppb range, and 2.9% greater than 1000 ppb.

Distribution Analysis of Industry Ethylene Levels



Conclusion

Damaging levels of ethylene are commonly found in supermarket distribution centers, and occasionally in other areas of the floral industry.