

## **Clarion**

The Clarion monitoring site was located in Wright County, Iowa. Monitoring for ammonia started on March 18, 2003 and for hydrogen sulfide on April 1, 2002. Monitoring for both gases ended on December 31, 2007. This monitoring site was located near the DeCoster #15 Sow Site which was permitted for 1,827,265 pounds of livestock. Eighteen long barns housing layer hens are visible in the lower right portion of the aerial photograph seen below. High levels of ammonia at this location may have been a result of winds blowing from the poultry barns. The monitors were located in ambient air, on property associated with a residence, and near a house. Clarion has an AQS identification number of 19-197-0004.

# Clarion Monitoring Site

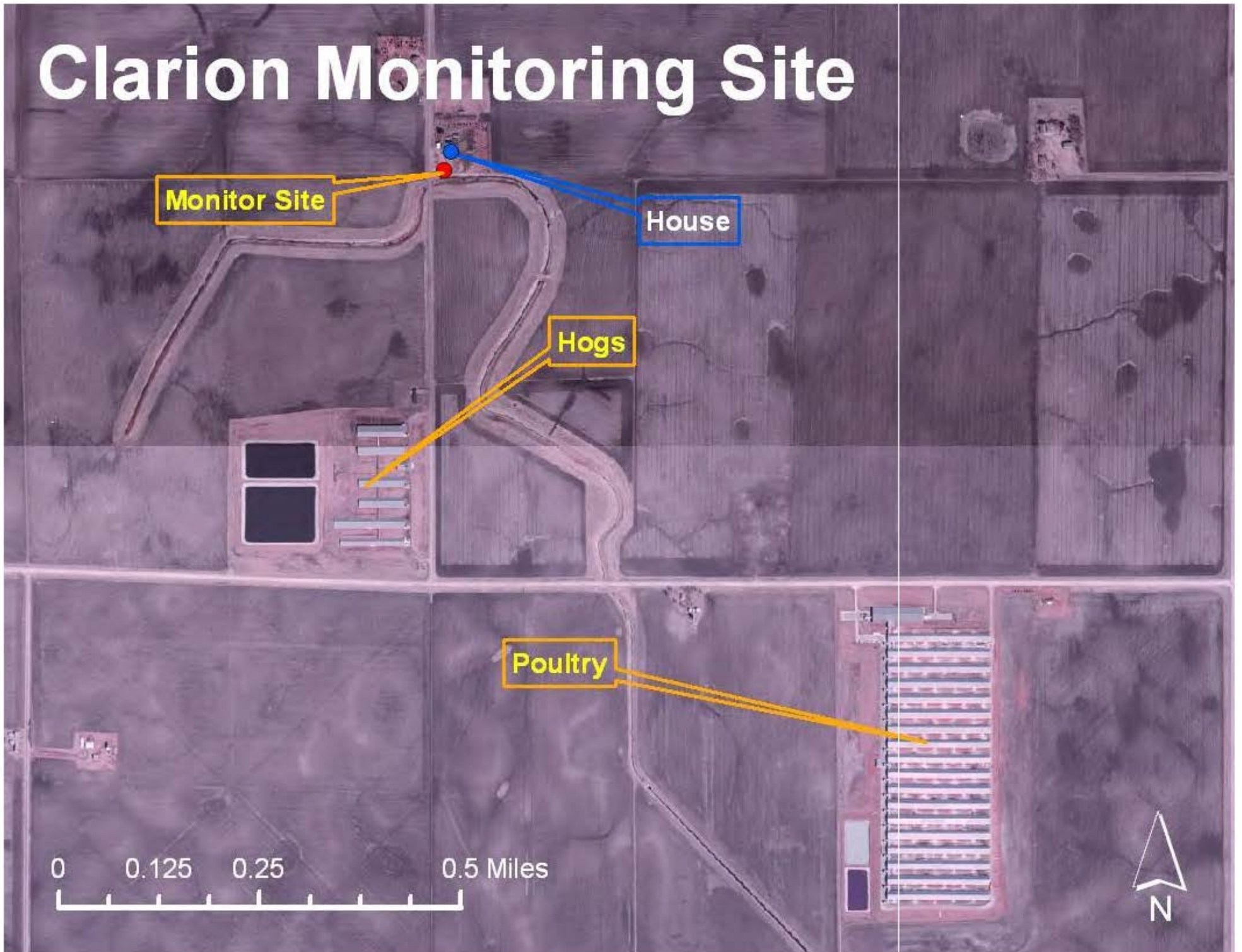
Monitor Site

House

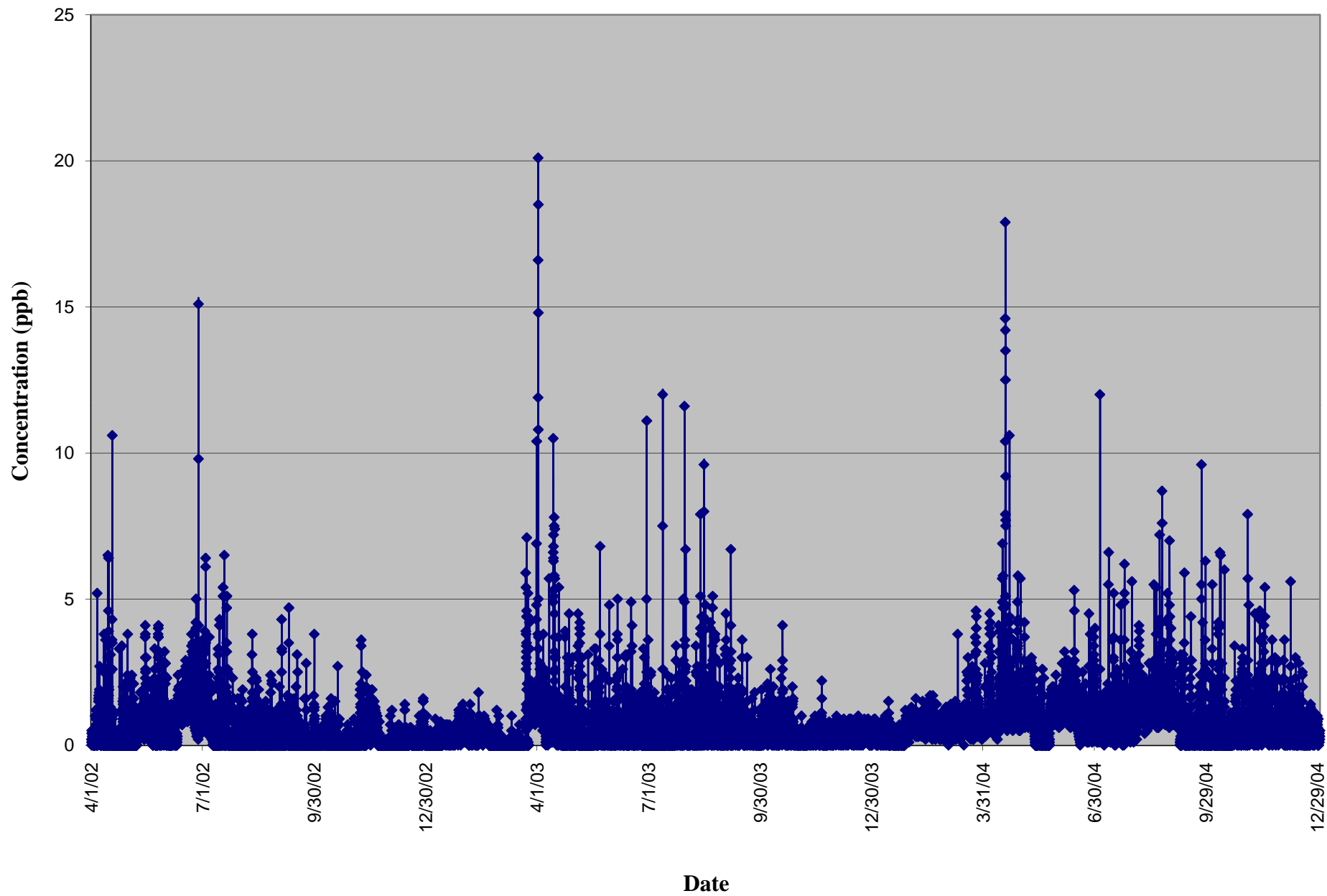
Hogs

Poultry

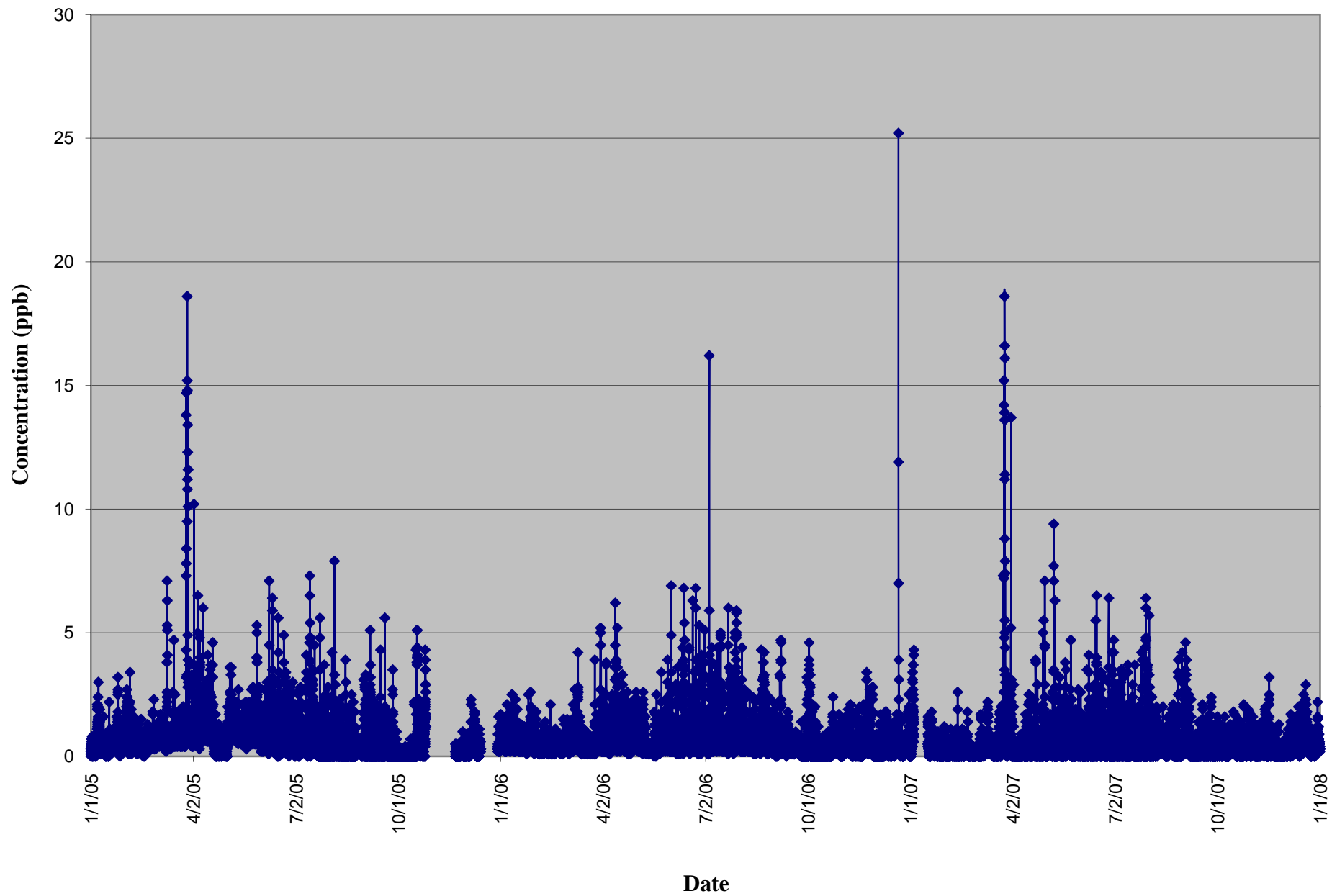
0 0.125 0.25 0.5 Miles



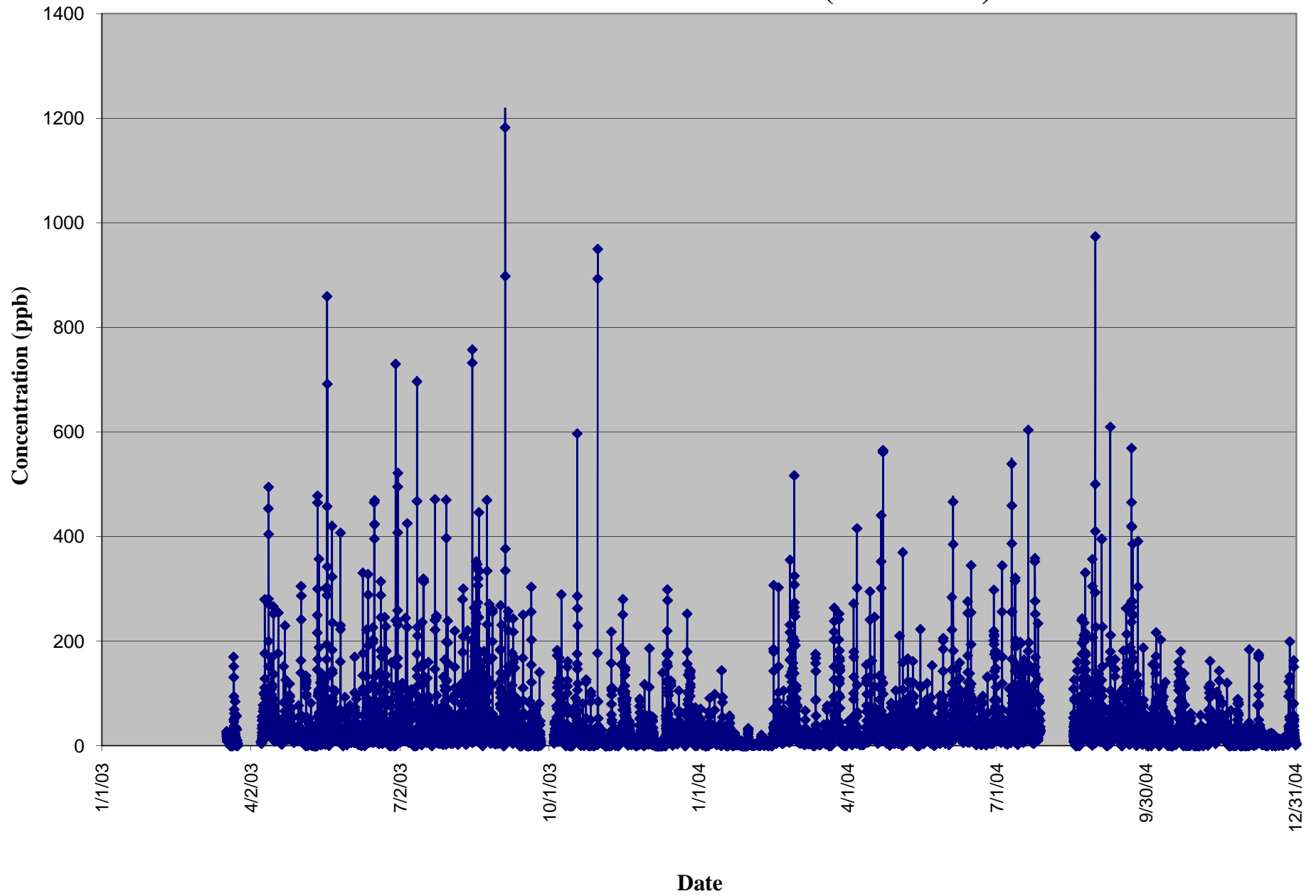
# Clarion CAFO: Hydrogen Sulfide vs Time (2002-2004)



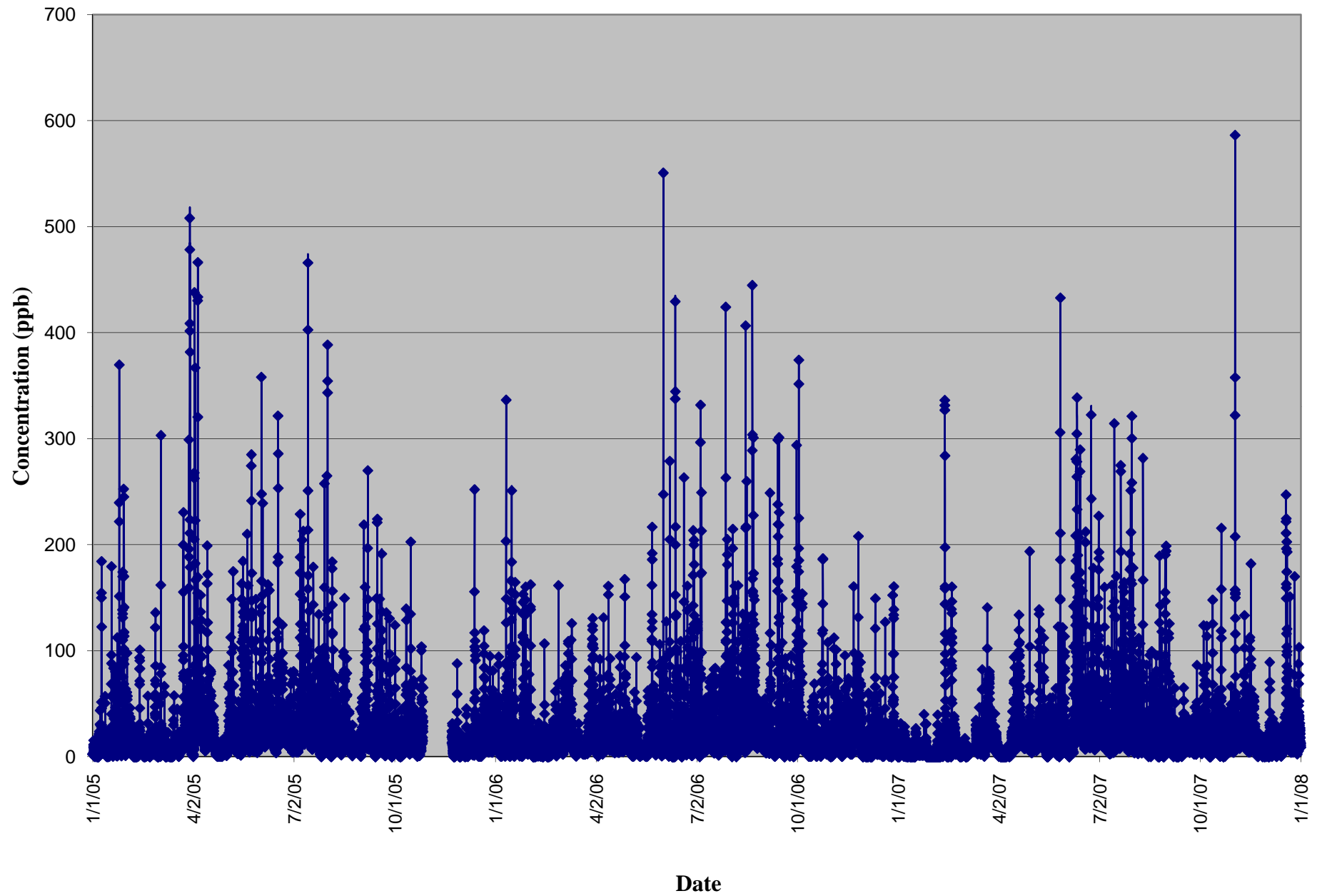
# Clarion CAFO: Hydrogen Sulfide vs Time (2005-2007)



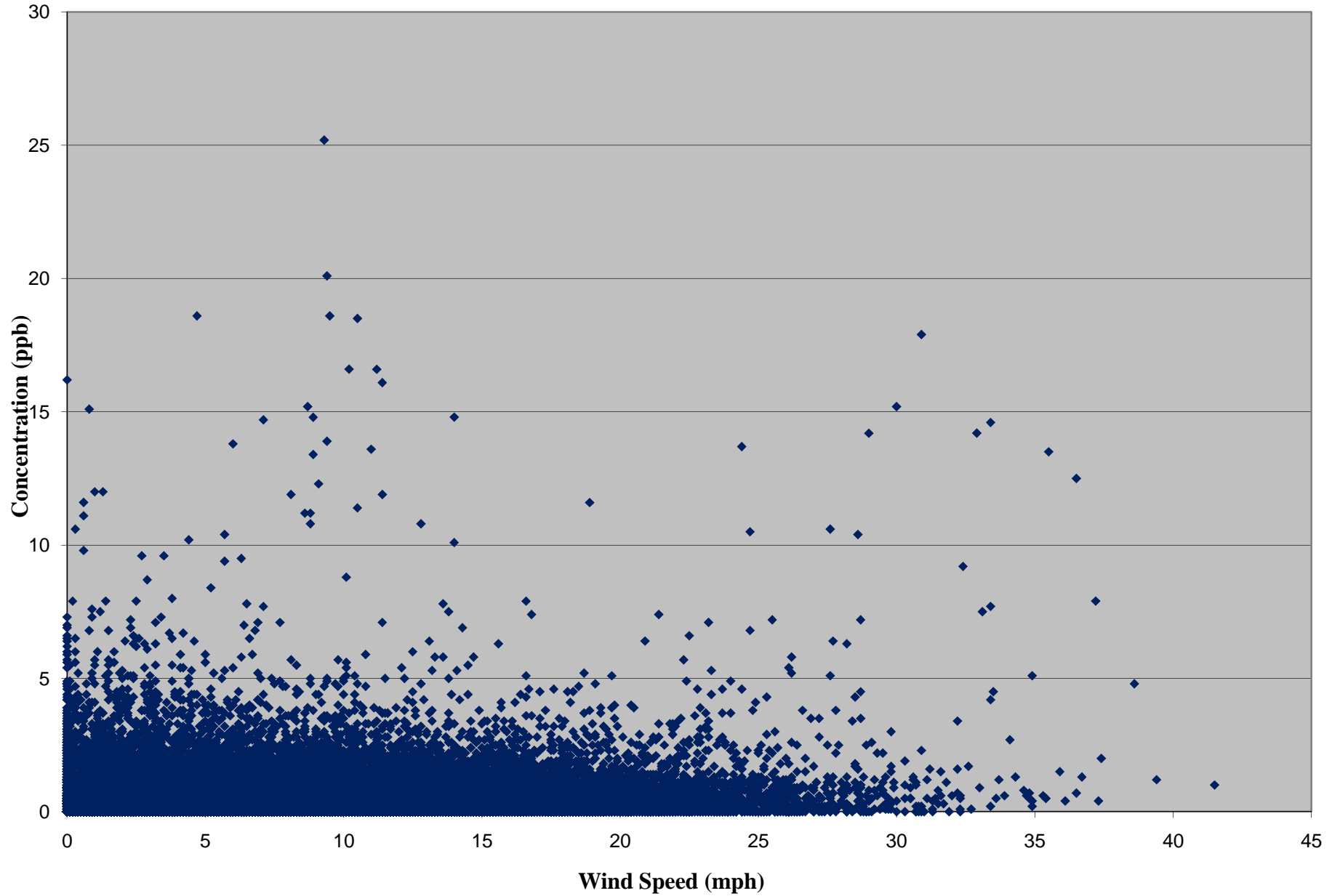
# Clarion CAFO: Ammonia vs Time (2003-2004)



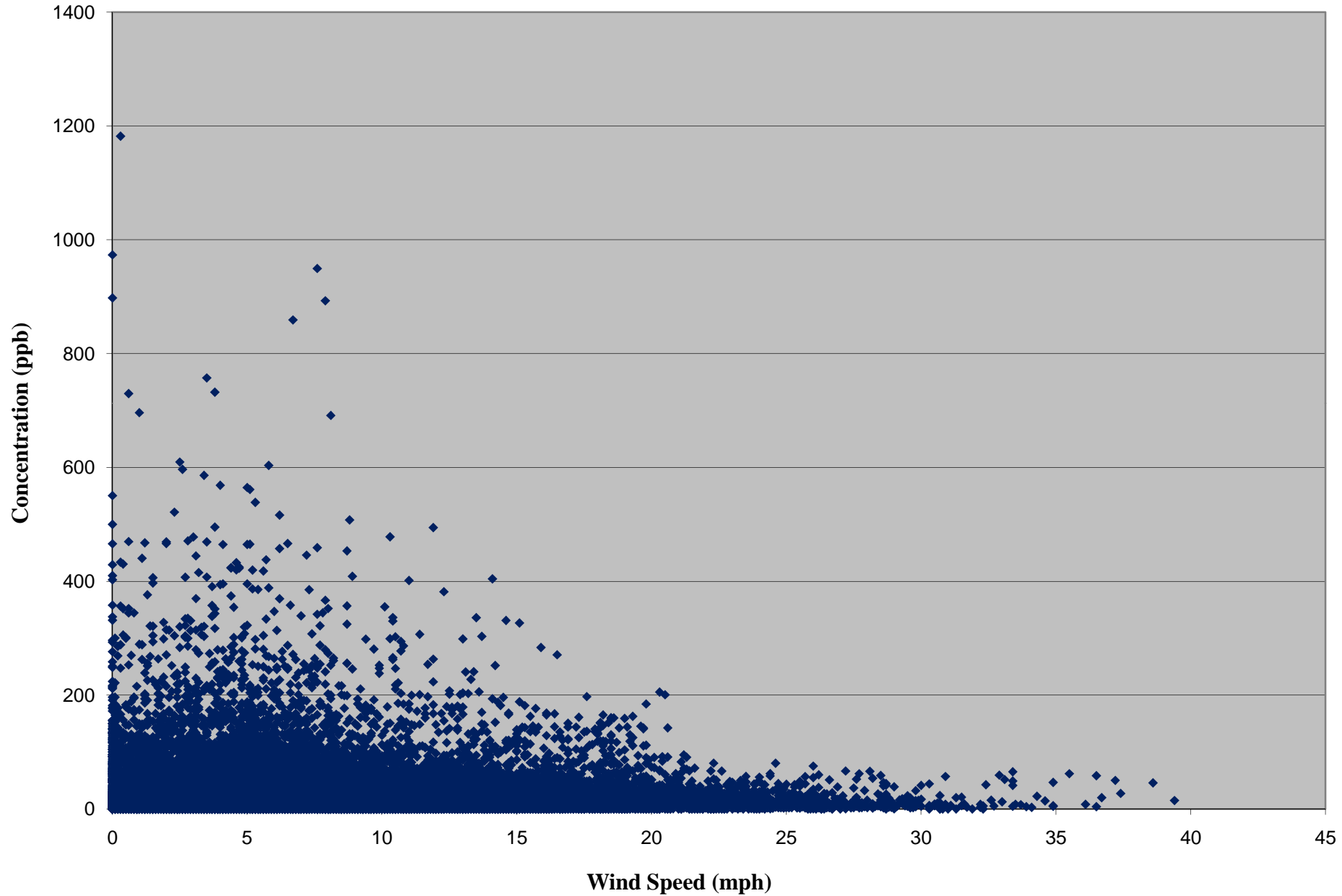
# Clarion CAFO: Ammonia vs Time (2005-2007)



# Clarion CAFO: Hydrogen Sulfide vs Wind Speed (2002-2007)

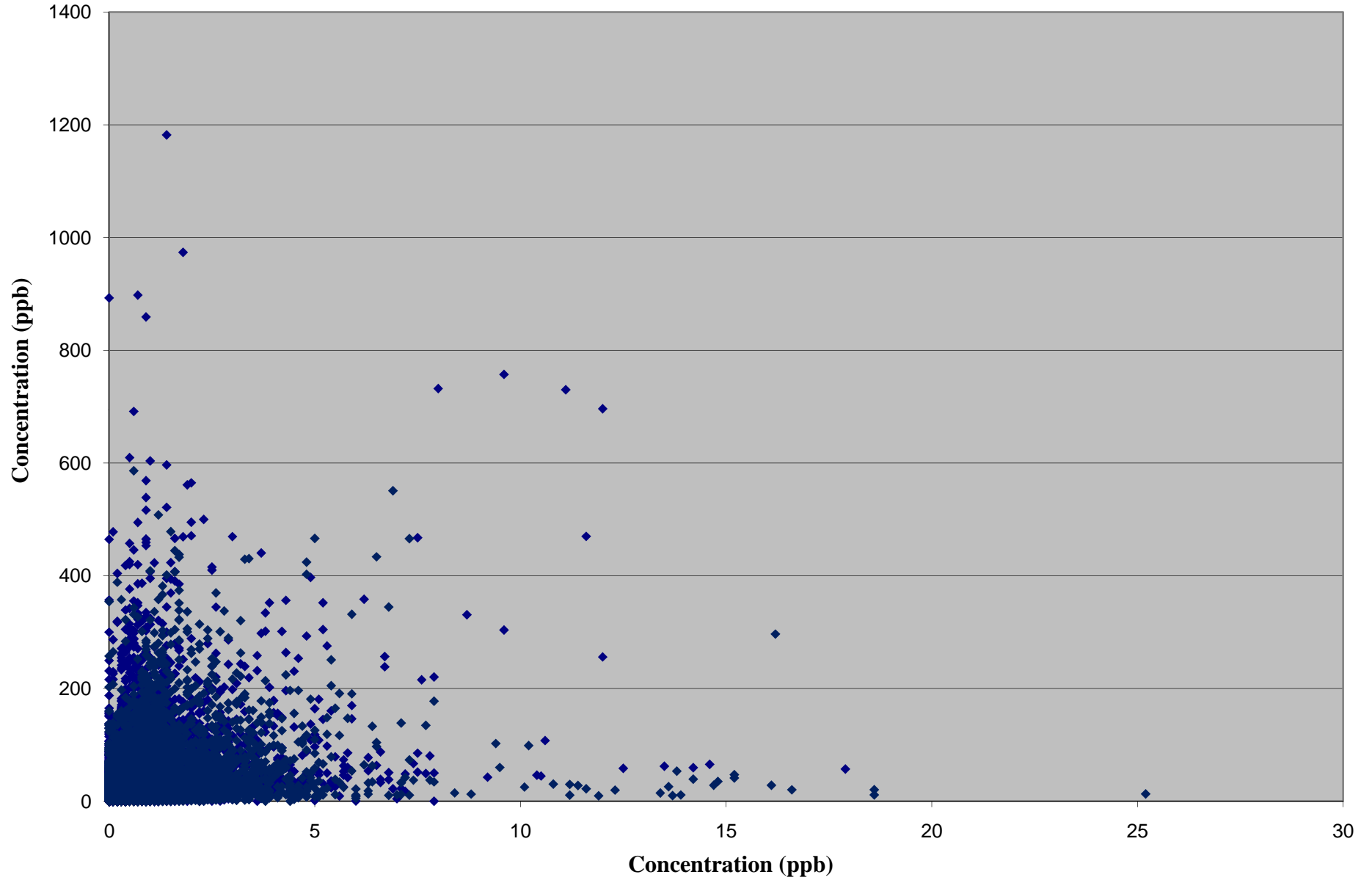


# Clarion CAFO: Ammonia vs Wind Speed (2003-2007)

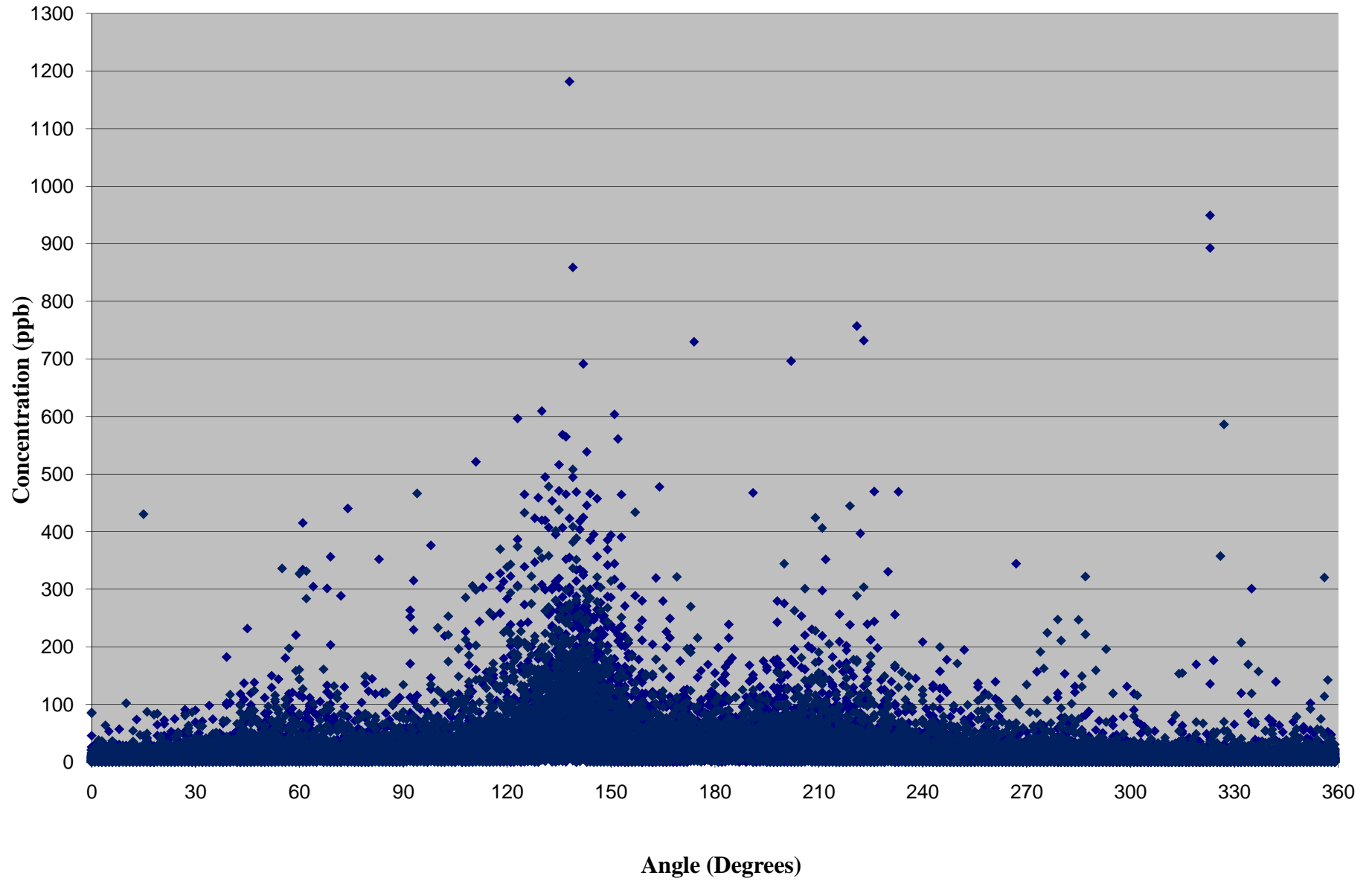




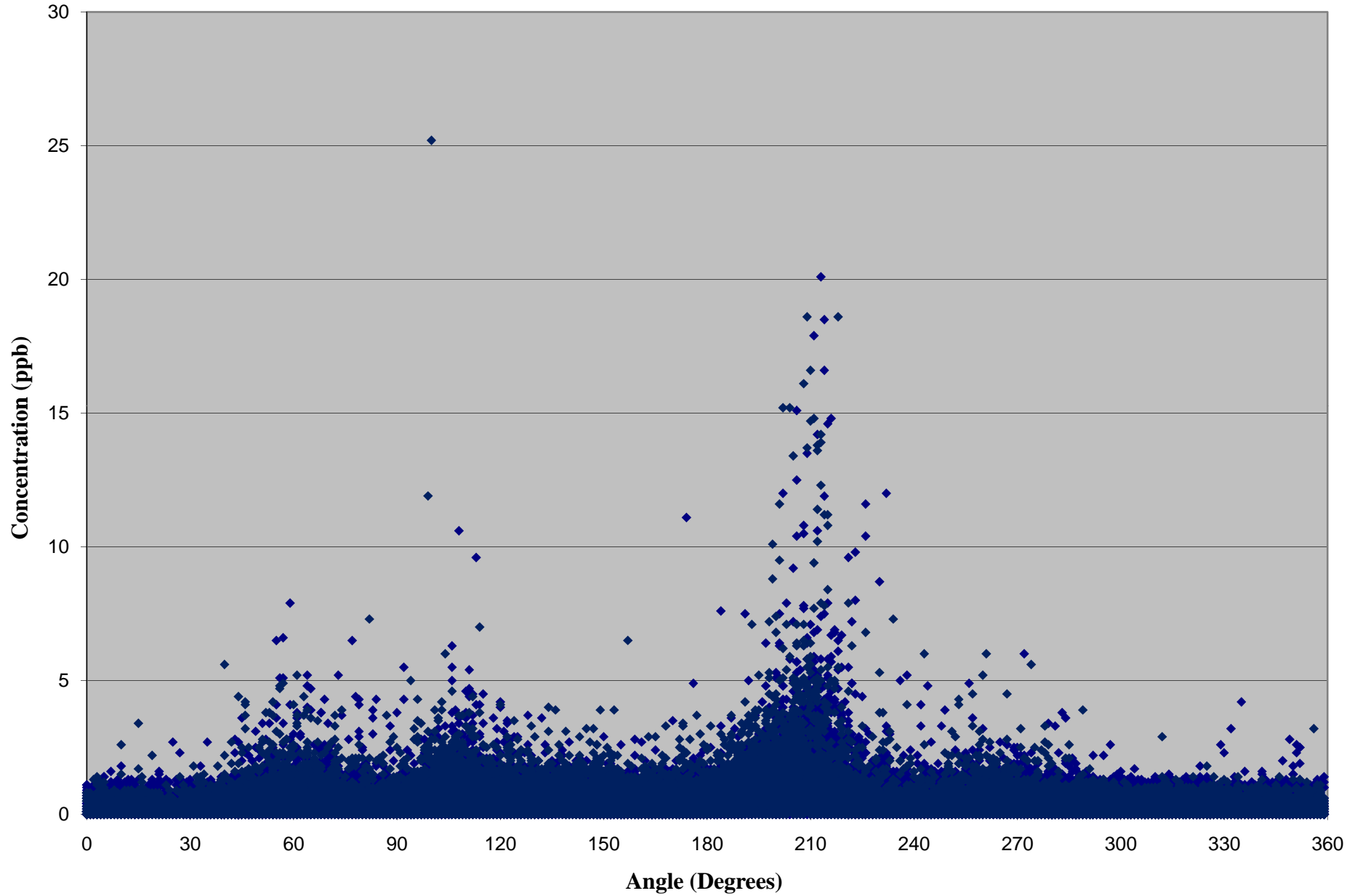
# Clarion CAFO: Ammonia vs Hydrogen Sulfide (2003-2007)



# Clarion CAFO: Ammonia vs Wind Direction (2003-2007)



# Clarion CAFO: H<sub>2</sub>S Hydrogen Sulfide vs Wind Direction (2002-2007)



# Clarion CAFO: Wind Speed vs Wind Direction (2002-2007)

