

# Fremont Asthma Initiatives



**WILL RETZ**

# Current Efforts



- **Identification of Asthmatic Students**
  - Peak flow screenings during all visits for non-confidential services
  - Mass asthma screenings via questionnaire in collaboration with the school nurse
  - Gone from 4 to 37 identified asthmatics in the last 5 months
- **Improving Care for Asthmatic Population**
  - Development and deployment of an asthma action plan on our HER
  - Air Quality Flag Program

# Why the Flag Program?



- **Fremont Student Population: ~2200**
- **Fremont Asthmatic Population: ~200**
- **Campus design results in students spending most of their school day exposed to outdoor air**
- **Pre-existing YAB with annual turnover in the group**



# What is this Intervention?



- Made a national program in 2010
- Now implemented at 700 schools in 12 states
- Alerts individuals to the local air quality
- Provides a recommendation for how to respond
- More information at [airnow.gov](http://airnow.gov)

# Indicators at Fremont

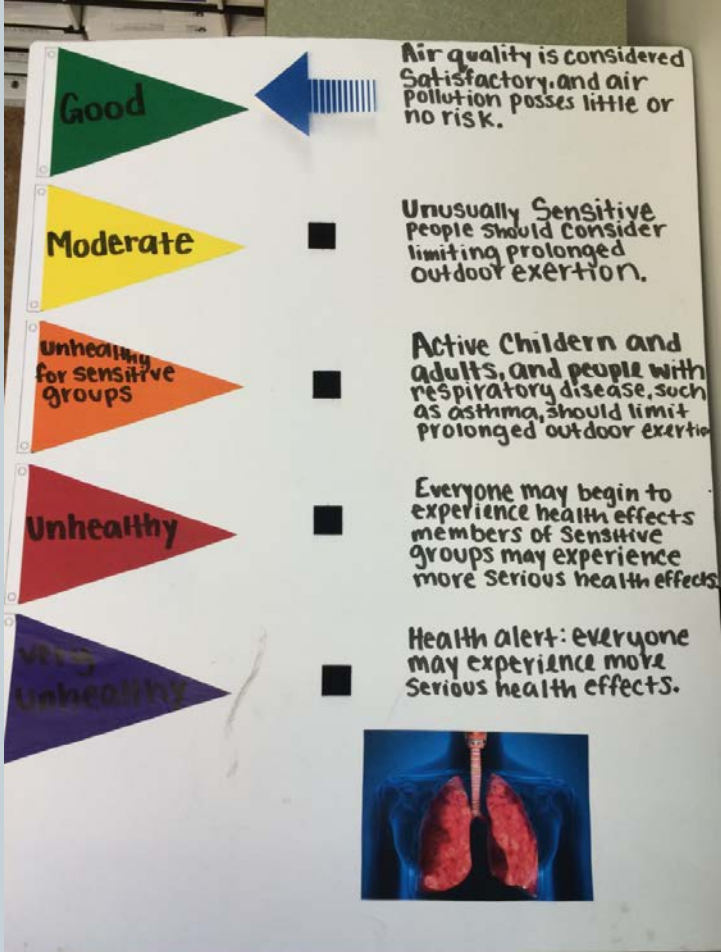


# Indicators at Fremont

Raleigh-Durham-Chapel Hill, NC  
AIR Quality Forecasts


Date: 3/7/2014	Good	OZON
Date: 3/7/2014	Good	PM2.

 [www.airnow.gov](http://www.airnow.gov)



A vertical chart showing the Air Quality Index (AQI) color scale with corresponding health advice. The scale consists of five colored triangles pointing to the right, with a blue arrow pointing to the left next to the 'Good' category. The categories and their descriptions are:

- Good** (Green): Air quality is considered Satisfactory, and air pollution poses little or no risk.
- Moderate** (Yellow): Unusually Sensitive people should consider limiting prolonged outdoor exertion.
- Unhealthy for sensitive groups** (Orange): Active Children and adults, and people with respiratory disease, such as asthma, should limit prolonged outdoor exertion.
- Unhealthy** (Red): Everyone may begin to experience health effects; members of Sensitive groups may experience more serious health effects.
- Very Unhealthy** (Purple): Health alert: everyone may experience more serious health effects.



# Our Success



- **Strong student ownership of and involvement in the program**
- **Several mediums for dissemination of the information**
- **Consistent management of those indicators**
- **Generates more conversation about asthma on campus**



## Obstacles to Implementation and Results

- **Vandalization**
- **School construction**
- **Support from school administration**
- **Limited in our ability to objectively measure the clinical effect of the program**
- **Buy-in on behalf of the school's PE teachers**





## Considerations for Other Schools

- **Local air quality may not necessitate this program and could lead to management issues**
- **Staff to manage the program or student responsibility and accountability**
- **Possible involvement of principal, PE teachers, and school nurse**