

Submitted by
Dr. Woo
1/31/2005



Objectives

- Assess the health of the community
- Keep Gainesville a vibrant and healthy place to live and work

Health and Air Quality

• Asthma attacks	• Ozone, PM, traffic, PM components
• Respiratory symptoms	• Ozone, PM, traffic
• Cardiovascular symptoms	• Air pollution, NO ₂ , CO
• Mortality	• PM, Ozone, SO ₂ , PM components
• Emergency Room visits	• PM, Ozone, NO _x , SO ₂ , traffic

Develop Community Health Indicators

- Identify susceptible populations
 - People with pre-existing health problems
 - Young
 - Elderly
- Monitor emergency room visits
 - Asthma
 - Respiratory symptoms
 - Cardiovascular symptoms
- Compare ER visits with Air Quality measures

Impact of City Growth

- More and more vehicles on the road
- A growing energy demand
- More industrial activities
- Congested shopping centers and transportation depots
- Biomass burning (hurricane debris incineration, wild fire, firewood) in the area



Questions to be answered

- ? What is the current air quality in Gainesville?
- ? What will it be like a few years down the road due to the growth?
- ? Which emission sources present more health concerns?
- ? How can we continue growth and maintain a healthy air quality at the same time?

Goal

- To build a healthy city of sustainable growth by
 - establishing the baseline outdoor air quality condition to assess the impact of urban and industrial growth on air quality and the community's health
 - identifying the sources of greatest impact to the city's air quality in order to develop a strategy for the most cost-effective control



Why can't we use data from studies carried out in other places?

- Focused on metropolitan areas (LA, Boston, Atlanta)
- Geographical differences (Northeast, California)
- Weather (Southernmost sub-tropical state)



Benefits of Gainesville Air Quality Study

- Provide database for assessing the impact on human health in Gainesville
- Identify the major sources
- Identify severe air quality episodes and the environmental conditions that result in poor air quality
- Better health and economy for the community
