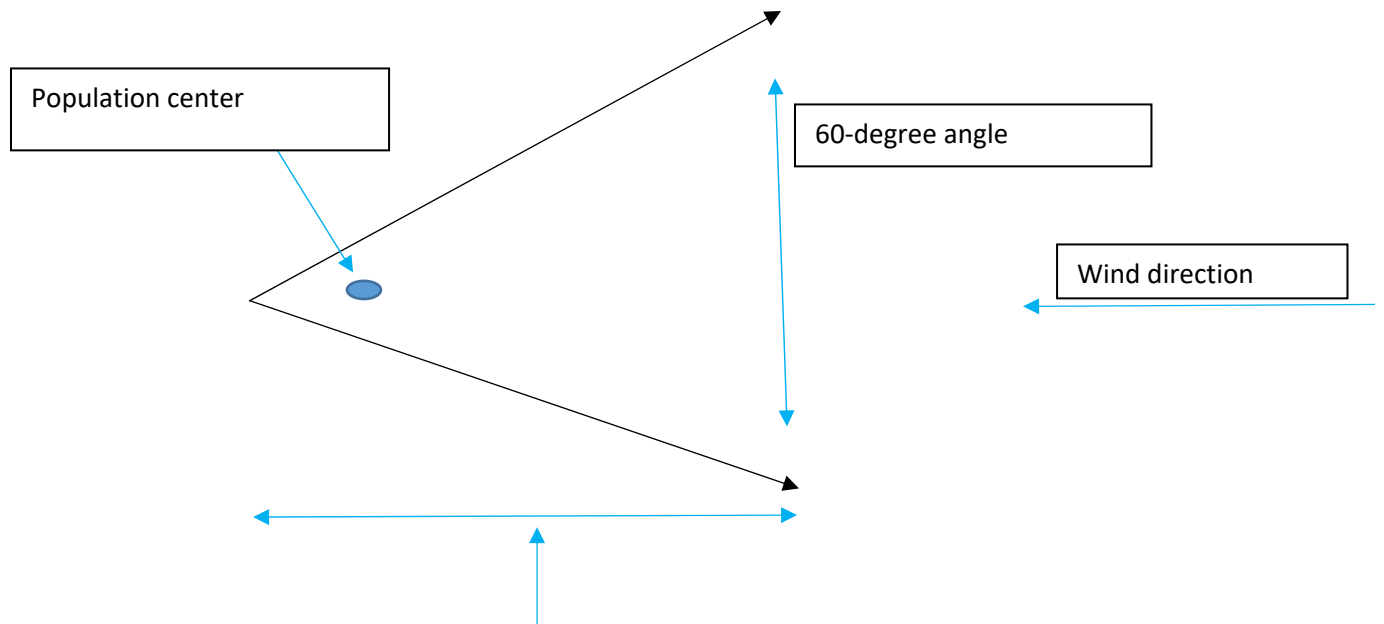


## Albany Pilot Project V 2.0

### Overview

- The original pilot project encompassed 8 counties that were part of the Albany Metropolitan Statistical Area (MSA).
- The size of the MSA encompassed ~ 2 million Acres.
- The Albany Pilot Project V 2.0 will focus on mitigating smoke impacts from upwind of the population center (~383,000 acres area inside inverted v-smoke cone).
- GFC will use an inverted v-smoke cone that will be affixed over the population center (see drawing on next pages).
- The cone will have a 60-degree angle and will extend out 30 miles from the core population center, 35 miles total.
- We will use the 2:00 pm forecast weather for the population center for transport wind speed, dispersion, and wind direction to determine the daily placement of the cone and associated restrictions.
- A Decision Matrix will be used to determine whether a permit will be issued or what restrictions will apply.
- Completing firing operations earlier in day will further reduce potential smoke impacts. This will be especially true for those burns that fall within the cone (upwind from the population center).



Each side of the V (cone) will be 35 miles overall length. The population center will be 5 miles from the back of the V (vertex). This allows for the mitigation of smoke inside core population areas as the V swings around to face the forecast transport wind direction. The 2:00 pm forecasted weather will be used to determine the placement of the cone.

The V1 pilot 8 county MSA encompassed 1,933,242 ac. New pilot area focuses more on what is upwind of the population center and is approximately 383,000 Acres, but cone position updates daily based on forecast.

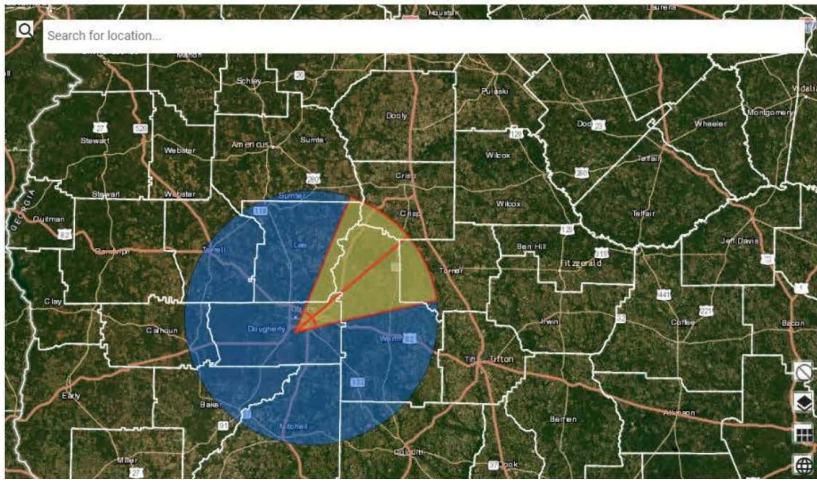
Parameters being considered:

- Transport wind direction (Albany Forecasted value for 1400 daily)
- Transport wind speed (Albany Forecasted value for 1400 daily)
- Acreage of Rx Burn
- Early firing operations/completion times
- Atmospheric Dispersion Index/Smoke Dispersion Index (which considers stability, mixing height, and transport wind speed inputs)
- 24-hour Particulate Matter (PM<sub>2.5</sub> in µg/m<sup>3</sup>) 0:00 hrs
- 30-Mile Buffer instead of 8 County MSA (Focus on upwind side of population center)
- Project methodology will be applied year-round instead of just February through April
- See below for buffer and cone example

# New Burn Permit

- Permit Sections
- 1 Applicant Info
  - 2 **Location**
  - 3 Restrictions & Dates
  - 4 Permit Details
  - 5 Involved Parties
  - 6 Smoke Modeling
  - 7 Review & Approval
  - 8 Finish

FILL WITH APPLICANT LOCATION    FILL PREVIOUS PERMIT LOCATION



Coordinates Format  
DMS

Latitude  
-

Longitude  
-

State  
-

County  
-

Zip Code  
-

City  
-

Address  
-