



Open Burning of Natural Disaster Debris June 15, 2017

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Department of Environmental Quality Division of Air Quality



Disposal of Natural Disaster Debris





Open burning should always be a last resort.



Why Limit Open Burning?

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- Smoke from open burning activities pollutes the air and is unhealthy to breathe.
- Potential health effects include:
 - > Lung and eye irritation
 - > Heart problems
 - > Headaches, dizziness
 - > Asthma attacks
 - Coughing and wheezing
- Sensitive groups (e.g., asthmatics, elderly, etc.) are particularly at risk from breathing fine particles from open burning activities over an extended period of time.

Why Limit Open Burning?















North Carolina Administrative Code (NCAC), Title 15A, Subchapter 2D, Section .1900 – Open Burning

- One of North Carolina's oldest air quality rules
- First adopted in 1971
- Regulates outdoor open burning
- Sets conditions for allowable fires
- Prohibits burning of synthetic materials
- Violators can be fined up to \$25,000 per day per violation





Restrictions for residential open burning in NC include:

- Only leaves, branches, and other vegetative growth can be burned... nothing else.
- No synthetic (man-made) materials can be burned.
- All materials burned must originate on the property.
- Open burning is not allowed in areas with public pickup.
- No burning on Air Quality Action Days (Code Orange or higher).
- Burning should be conducted during daylight hours (officially 8:00 am to 6:00 pm).





Restrictions for land clearing open burning in NC include:

- Only land-cleared plant growth material can be burned... nothing else.
- Construction, demolition, and synthetic materials should be separated out.
- May use kerosene or diesel fuel to start fire.
- At least a 500-foot buffer must be maintained between each burn pile and the closest occupied dwelling.
- 500-foot requirement can be waived by regional office with submittal of waiver form or use of an air curtain burner.



Restrictions for land clearing open burning in NC include:

- Wind direction must be away from any public roadway within 250 feet of burn pile.
- Burning should be conducted during daylight hours (officially 8:00 am to 6:00 pm).
- No burning on Air Quality Action Days (Code Orange or higher).
- Materials should not be transported offsite to burn except in special cases.





Other types of open burning activities addressed under NC rules include:

- Camp fires / cooking fires / ceremonial fires
- Forestry / wildlife / agricultural management activities
- Fire-fighting personnel training
- Fire-fighting equipment testing and research
- Disposal of dangerous materials
- Disposal of material generated from natural disasters



Open Burning of Natural Disaster Debris

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- Open burning should always be a last resort.
- Air curtain burners may be necessary in federally designated disaster areas.
- Time period of burning may be limited to nine months.
- Burning must be preapproved by the appropriate regional office air quality supervisor.
- Written notification for approval must be submitted to the appropriate regional office.
- Sufficient documentation must be provided showing that there is no other practical method of disposal.

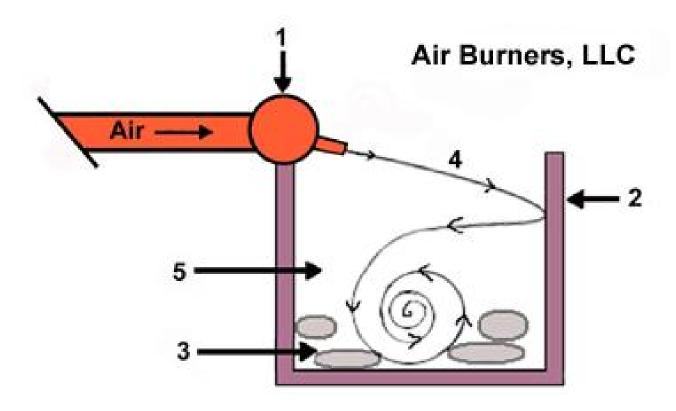


Open Burning of Natural Disaster Debris

- Regional office supervisor shall consider the following factors before granting permission to burn natural disaster debris: type, amount, and nature of combustible substances, and the location of the burning.
- Regional office supervisor shall not grant permission for the burning of any debris if the primary purpose of the fire is to dispose of synthetic materials or refuse or to recover salvageable materials.
- Open burning of natural disaster debris must also comply with the land clearing and/or air curtain burner requirements in the NC open burning rules.









Restrictions for air curtain burner use in NC include:

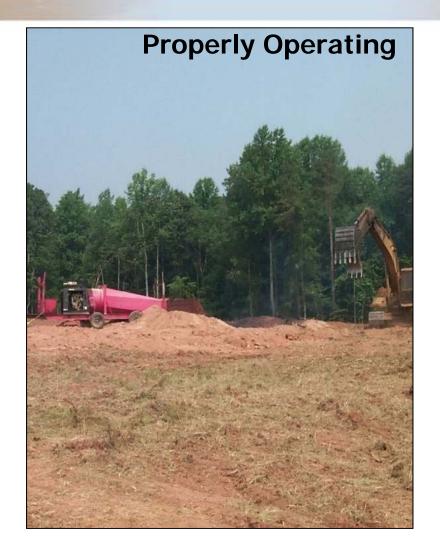
- Only vegetative material originating onsite may be burned.
- Wind direction must be away from any public road within 250 feet of burn pile.
- At least a 300-foot buffer should be maintained between each burn pit and the closest occupied dwelling.
- Visible emissions limited to 10% opacity (excluding 45 minute start-up period).
- Prior notification and DAQ approval required before use.

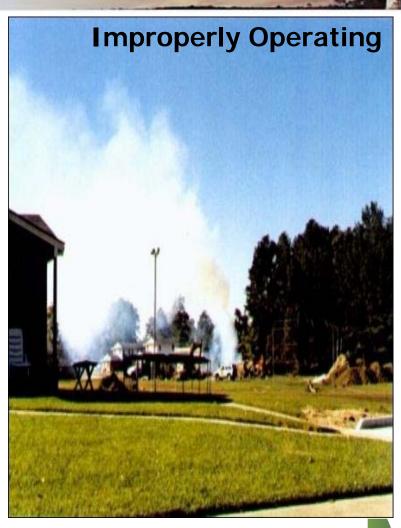




Restrictions for air curtain burner use in NC include:

- Manufacturer's specifications must be kept on site.
- Burning hours limited to between 8:00 am and 6:00 pm.
- Material should not protrude above the air curtain.
- Ash should not be allowed to build up in the pit so that it impedes combustion (<1/3 the depth of the pit).
- Operator must allow ash to cool and then water ash prior to removal from pit.
- No burning on Air Quality Action Days (Code Orange or higher).





Recent Legislative Actions

The NC open burning rules have been modified through the recent passage of the following state laws:

- Session Law 2011-394 (House Bill 119) reduces land clearing setback requirement from 1,000 to 500 feet.
- Session Law 2013-413 (House Bill 74) allows for the transport of land clearing debris to another location to burn as long as the following conditions are met:
 - > Location is not a permitted solid waste management site.
 - > Burning at new location is limited to four times per year.
 - There are no more than two 20-foot diameter piles onsite.
 - ➤ At least a 500-foot buffer is maintained between each burn pile and the closest occupied dwelling.

Recent Legislative Actions

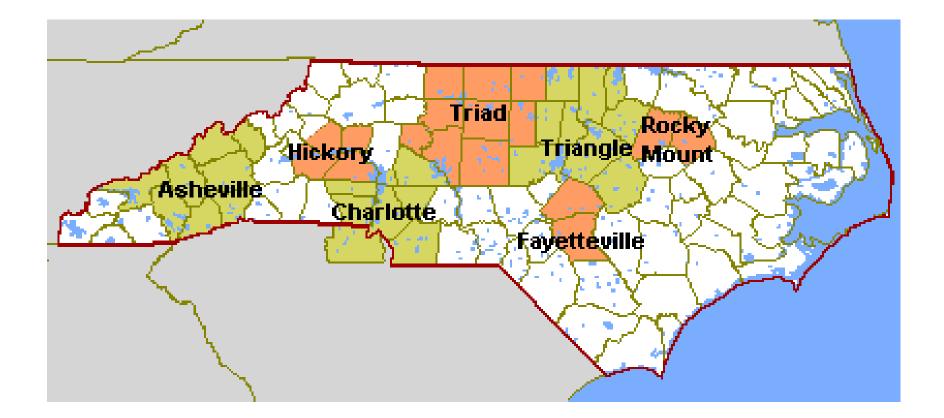


The NC open burning rules have been modified through the recent passage of the following state laws:

- Session Law 2014-120 (Senate Bill 734) allows for residential burning of logs and stumps and declares this type of burning cannot be considered a nuisance.
- Session Law 2015-286 (House Bill 765) allows for the burning of polyethylene agricultural plastics used in connection with agricultural operations under certain conditions.



Air Quality Forecast Areas



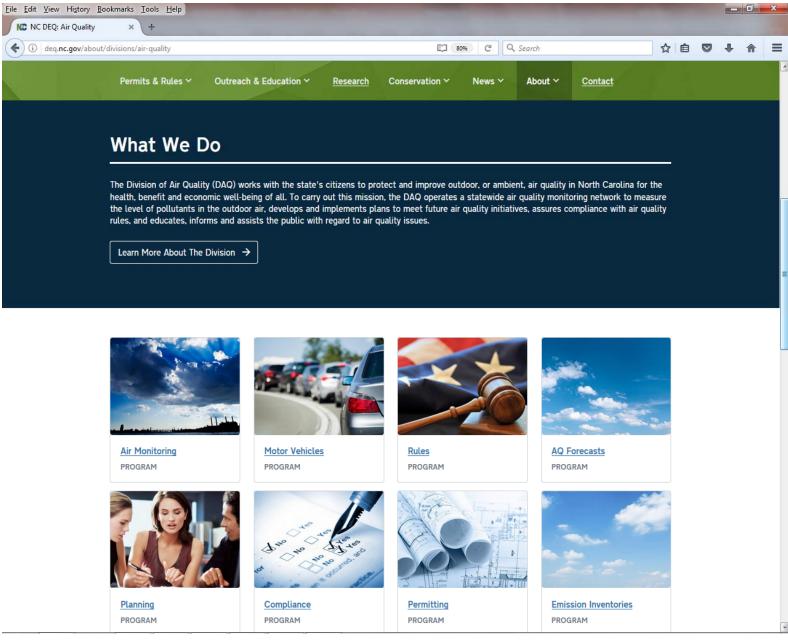




On Code Orange, Red, or Purple days in a specific air quality forecast area, you cannot burn the following:

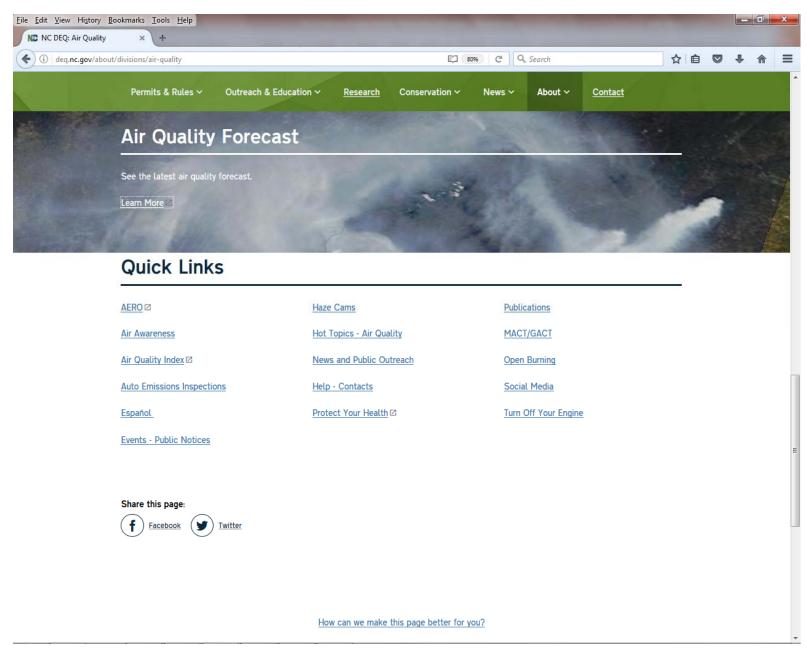
- Yard waste
- Land clearing debris
- Natural disaster material
- Most types of open burning with a couple of exceptions

DAQ recommends <u>no burning</u> throughout the rest of the state on Code Orange, Red, or Purple days.



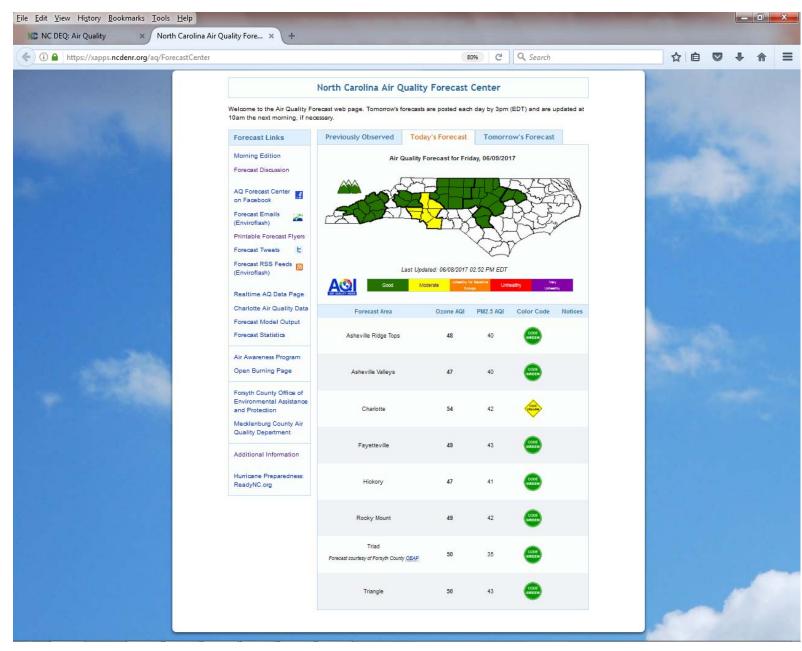






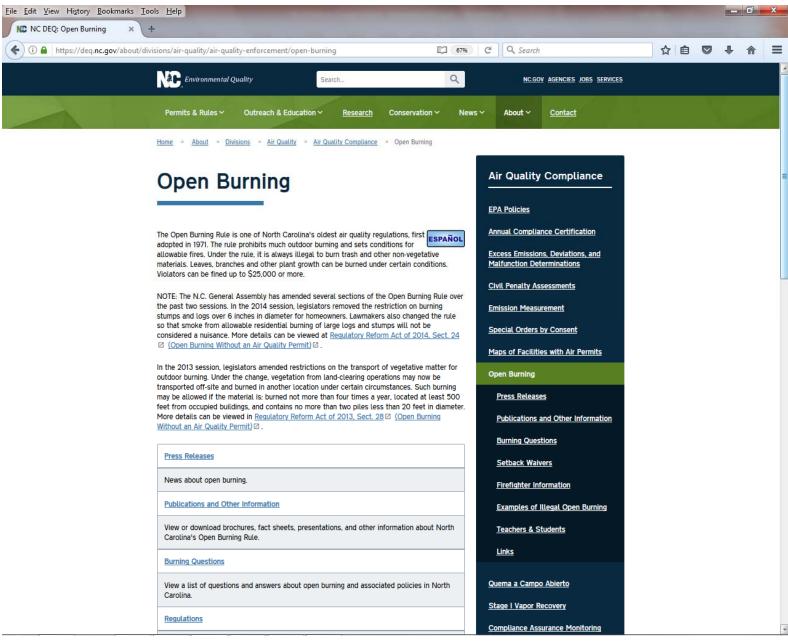




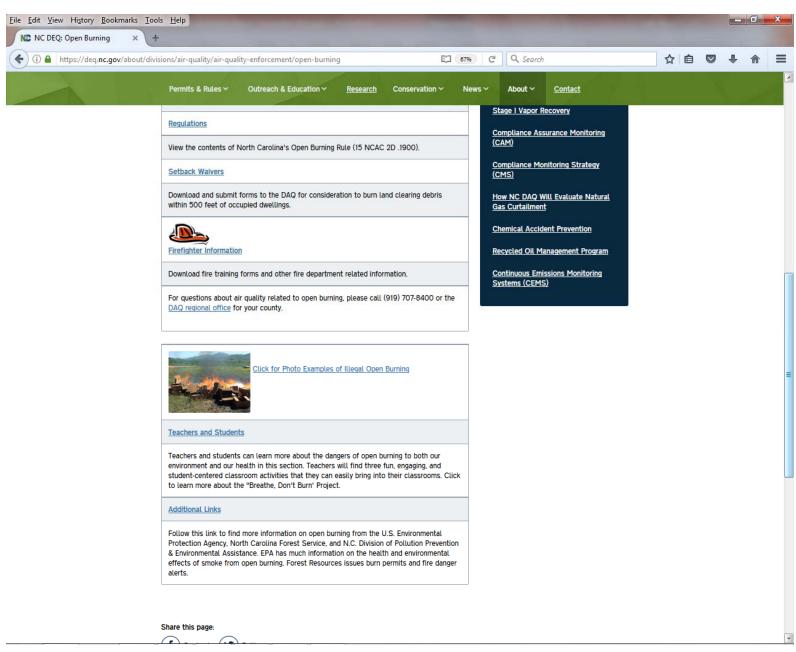








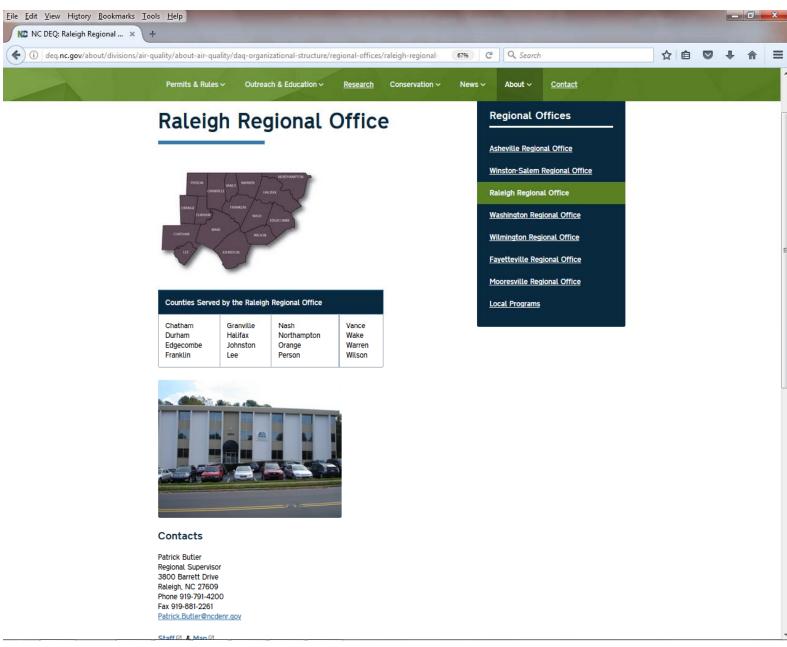






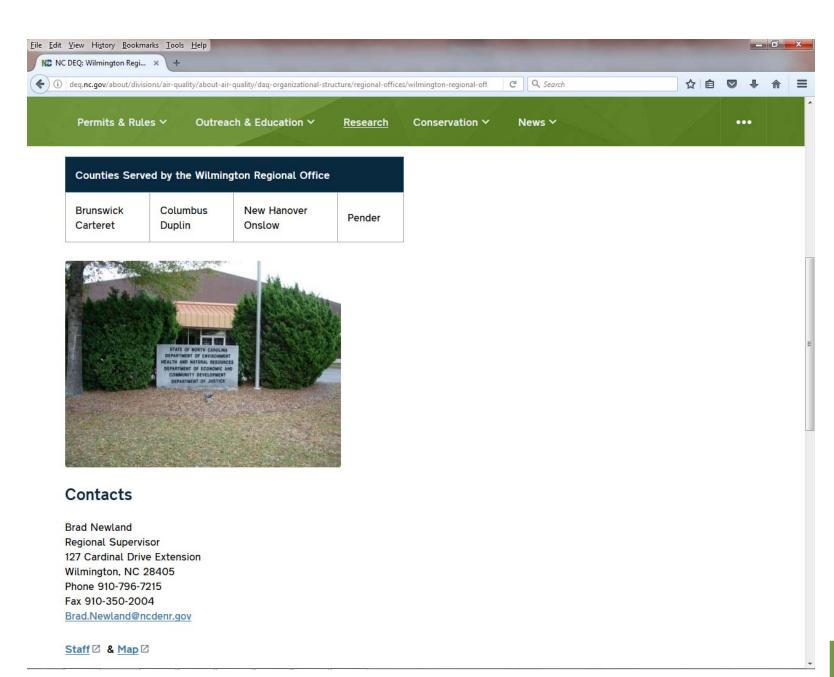
















DAQ Contact Information



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https://deq.nc.gov/about/divisions/air-quality

