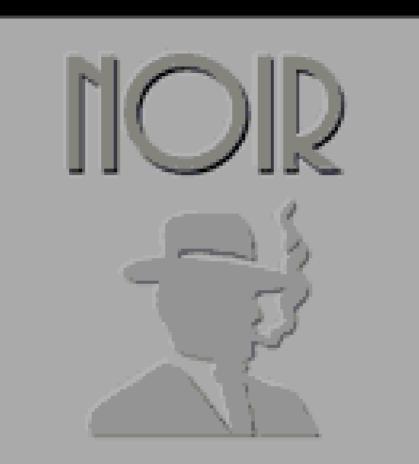
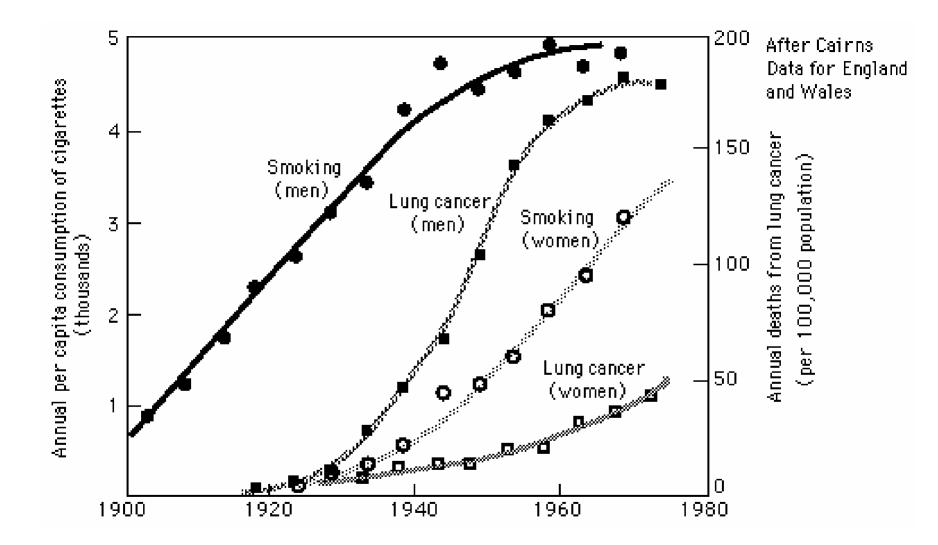
Ground Zero

Each Of Us Breathes About 3,000 Gallons of Air Every Day



The cigarette that makes your lungs as black as a night in the naked city.





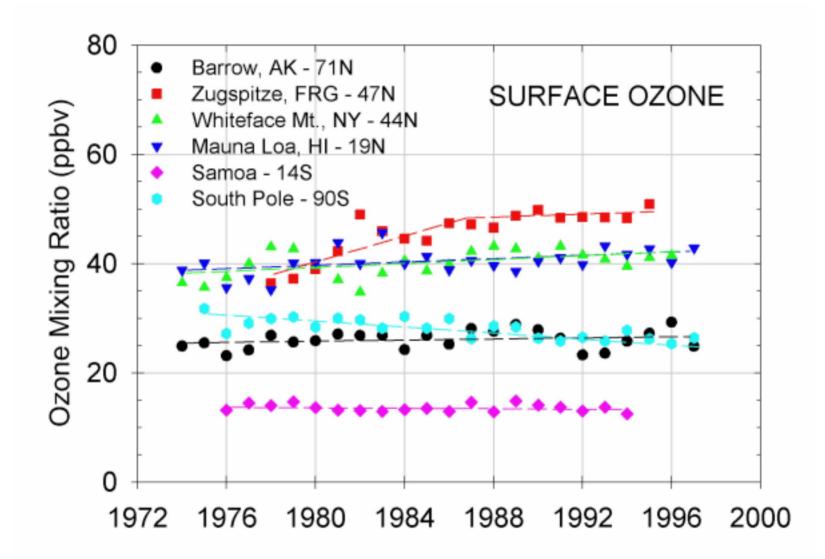
Healthy Tissue



Healthy Tissue 90-year-old schoolteacher



Progressive massive fibrosis 40-year-old-miner





Trends of ozone in the troposphere

S. J. Oltmans, A. S. Lefohn, H. E. Scheel, J. M. Harris, H. Levy II, I. E. Galbally, E.-G. Brunke, C. P. Meyer, J. A. Lathrop, B. J. Johnson, D. S. Shadwick, E. Cuevas, F. J. Schmidlin, D. W. Tarasick, H. Claude, J. B. Kerr, O. Uchino, V. Mohnen

Reprinted from

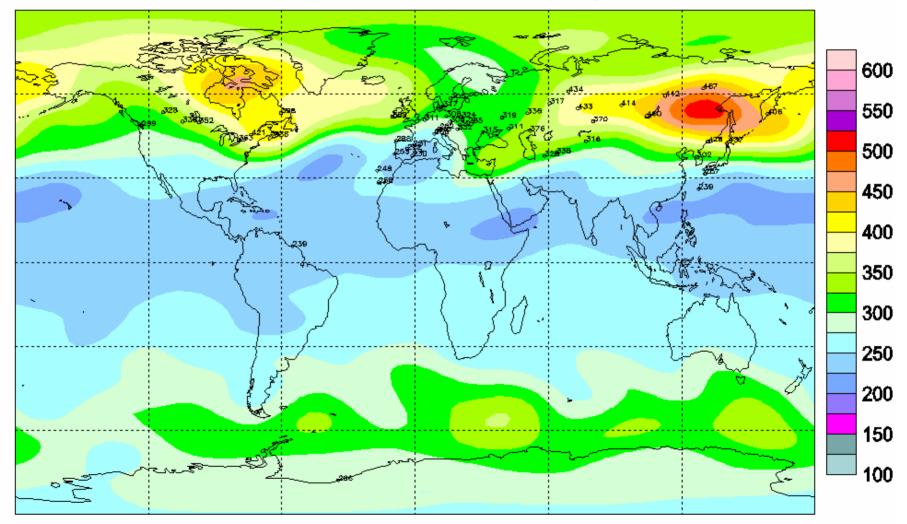
Geophysical Research Letters

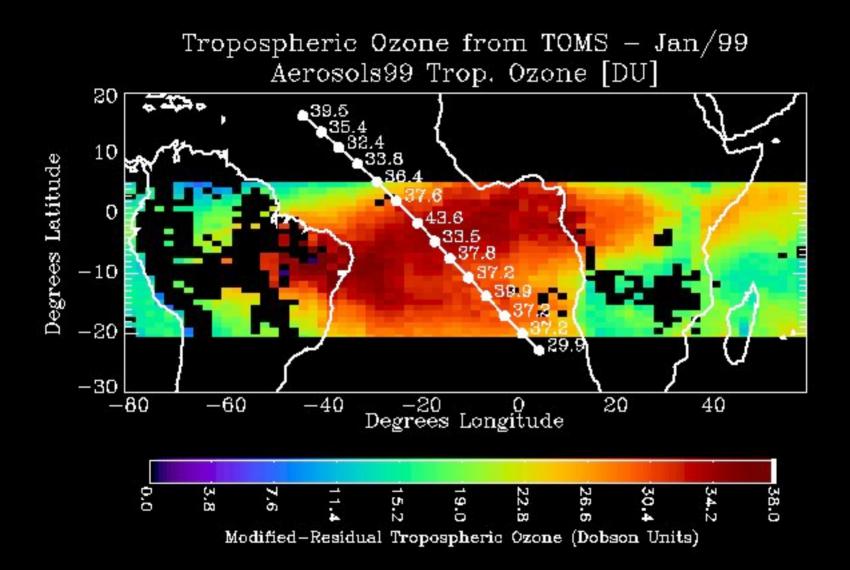
Volume 25, Number 2, January 15, 1998

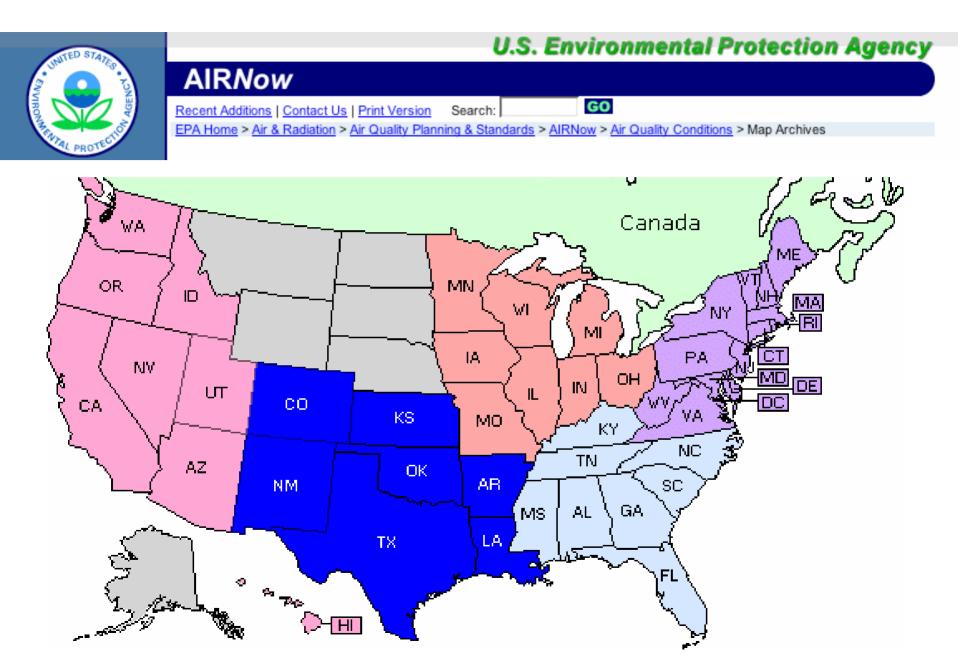


World Ozone and Ultraviolet Radiation Data Centre (WOUDC)

Total ozone (DU) / Ozone total (UD), 2004/01/11

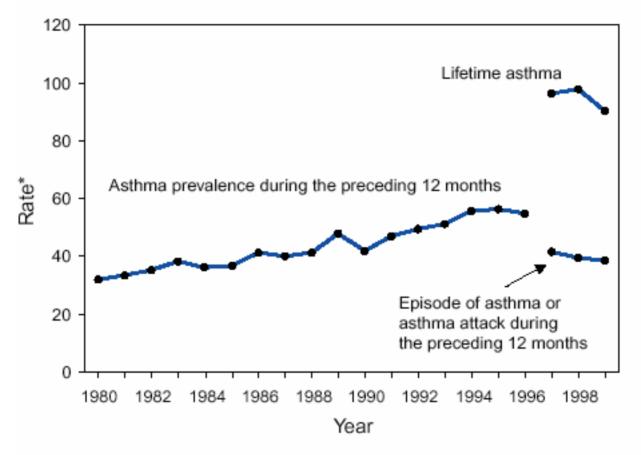






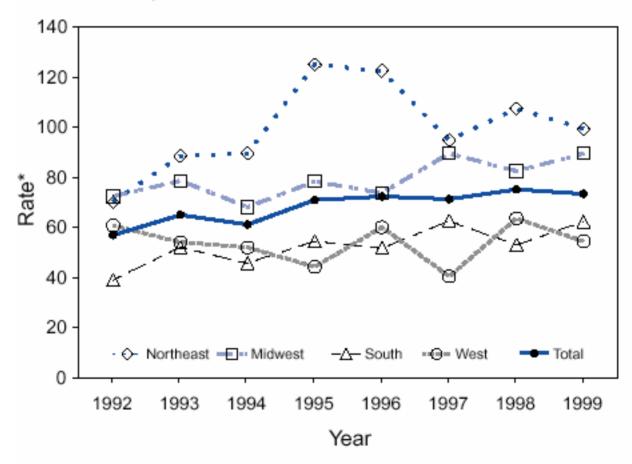
http://www.epa.gov/airnow/mapselect.html

FIGURE 2. Estimated annual prevalence* of asthma — United States, National Health Interview Survey, 1980–1999

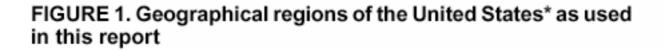


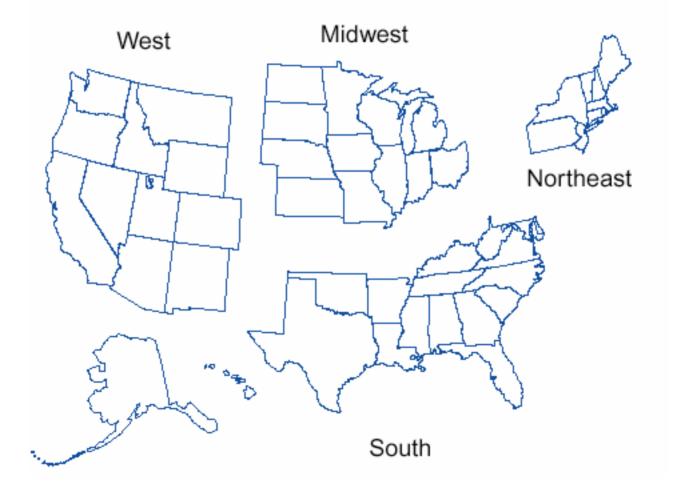
* Per 1,000 population; age-adjusted to the 2000 U.S. population.

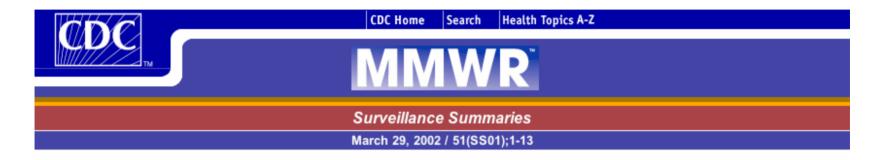
FIGURE 4. Estimated annual rate* of emergency department visits for asthma as the first-listed diagnosis, by region and year, National Hospital Ambulatory Medical Care Survey — United States, 1992–1999



* Per 10,000 population; age-adjusted to the 2000 U.S. population.

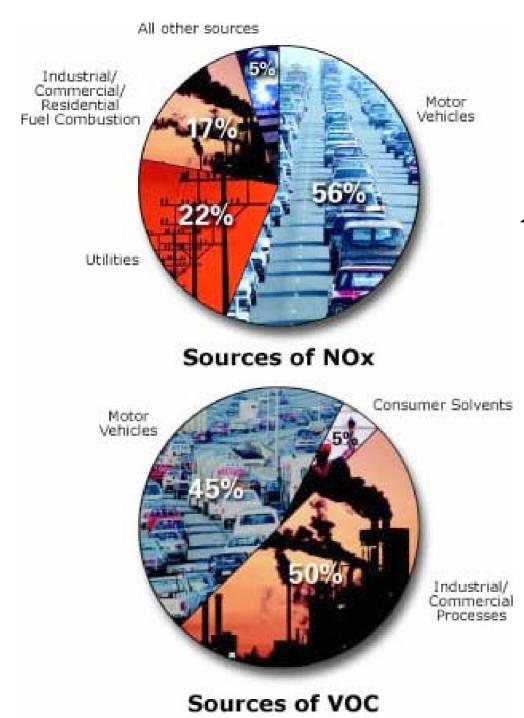






Surveillance for Asthma --- United States, 1980--1999

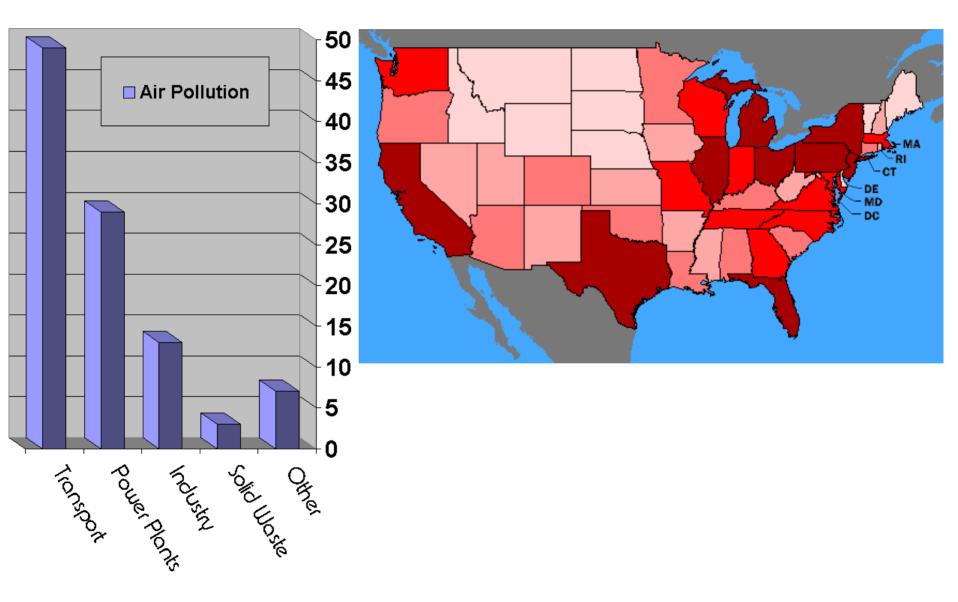
David M. Mannino, M.D. David M. Homa, Ph.D. Lara J. Akinbami, M.D. Jeanne E. Moorman, M.S. Charon Gwynn, Ph.D. Stephen C. Redd, M.D. Division of Environmental Hazards and Health Effects National Center for Environmental Health



Asthma and Air Pollution

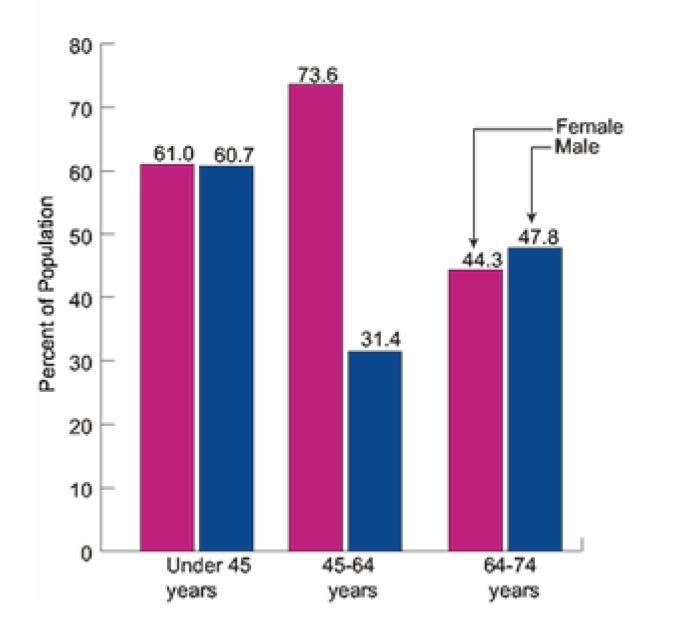


Air Pollution In The USA



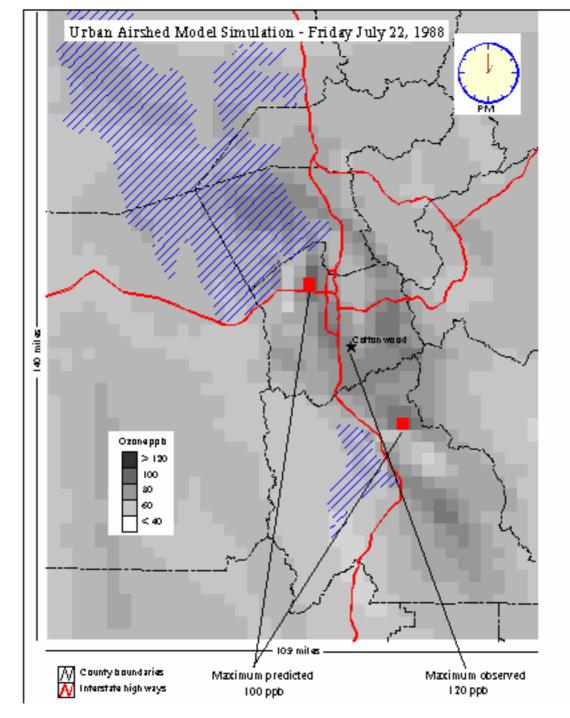
Persons Diagnosed with Asthma, by Age and Sex, 1999

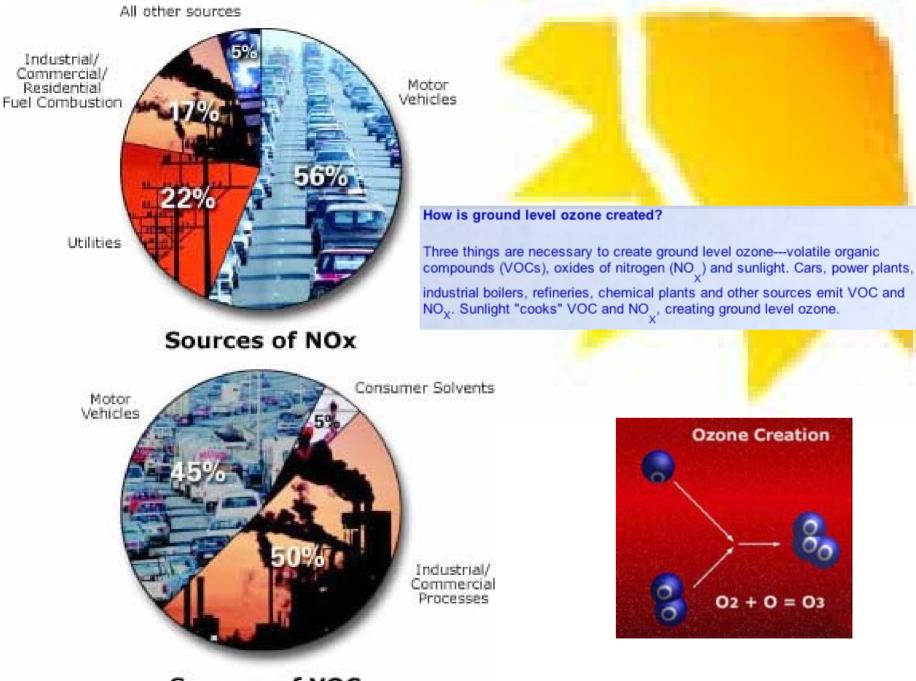
Source (II.20): National Health Interview Survey



Asthma In New Jersey

County	Grade	Wgt. Avg.	Orange Days	Red Days		Years in Previous Reports					
						(1998-2000)		(1997-1999)		(1996-1998)	
						Grade	Wgt. Avg.	Grade	Wgt. Avg.	Grade	Wgt. Avg.
ATLANTIC	F	8.7	26	0	0	F	13	F	18.3	F	18.3
BERGEN	*	.8	*	8	*	*	*	*	*	D	3
CAMDEN	F	23	48	14	0	F	25.5	F	30.2	F	25.2
CUMBERLAND	F	12.5	30	5	0	F	13.2	F	16.7	F-	12.8
ESSEX	*	*	*	*	*	*	*	F	6.2	F	4.8
GLOUCESTER	F	16.3	37	8	0	F	17.8	F	21.8	F-	18
HUDSON	F	9.8	20	5	1	F	10	F	12.3	F	7.5
HUNTERDON	F	15.3	37	6	0	F	18.2	F	21.8	F	16.2
MERCER	F	18.7	35	10	3	F	19.2	F	21.3	F	15.5
MIDDLESEX	F	18.5	38	9	2	E	17.5	F	19.7	F	14.2
MONMOUTH	F	9	21	4	0	F	12.5	F	15.2	F	15.2
MORRIS	F	14.3	34	6	0	F	16.8	F	18.8	E	15.2
OCEAN	F	20	40	12	1	F	22.2	F	25.8	F	22.3
PASSAIC	F	8	24	0	0	F	8	ंभः	*	*	*



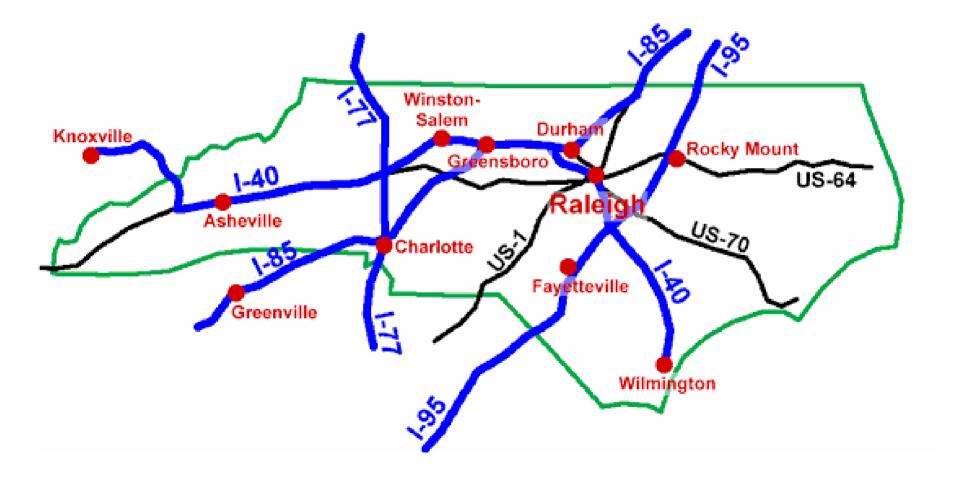


Sources of VOC

Knoxville, TN - A new study^{*} released today by the American Lung Association (ALA) finds that ten cities in the Southeast rank in the top 25 for worst ozone pollution. In addition, ten counties in the Southeast with ozone monitors received a "Failing" grade from ALA for air quality. The report ranks four Tennessee cities, two Georgia cities, and three North Carolina cities in the top 25. Eleven counties in Florida

* 2002 study by ALA

Case Study: North Carolina

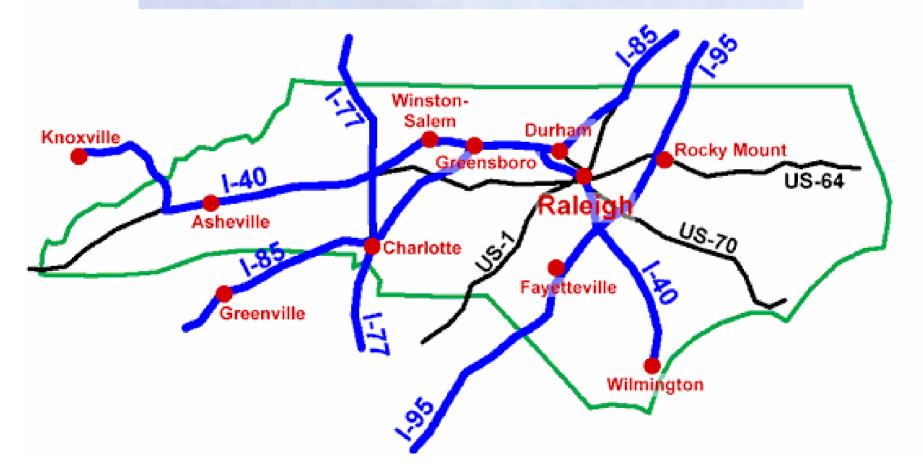


New Study Shows Southeast Cities Worst in Nation for Air Pollution Groups Call for Senators to Support Power Plant Clean Up

The Southeast cities ranking in the top 25 worst polluted in the U.S. are as follows: #6 Atlanta, Georgia #8 Knoxville, Tennessee #13 Raleigh-Durham-Chapel Hill, North Carolina #18 Nashville, Tennessee #19 Memphis, Tennessee #21 Birmingham, Alabama #21 Greensboro-Winston-Salem-High Point, North Carolina #24 Macon, Georgia #24 Chattanooga, Tennessee

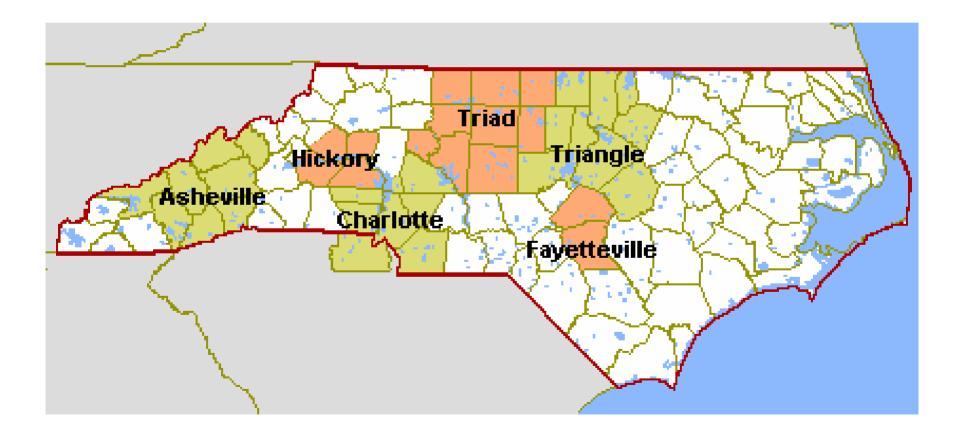
Ozone and Your Health

When people think of air pollution affecting human health, they probably think of southern California or other highly urbanized areas. But air pollution can be a problem in North Carolina. In 1999, ozone levels reached unhealthy levels at least somewhere in the state on 68 days -- which means North Carolina ranks fifth among the 50 states for unhealthy ozone.



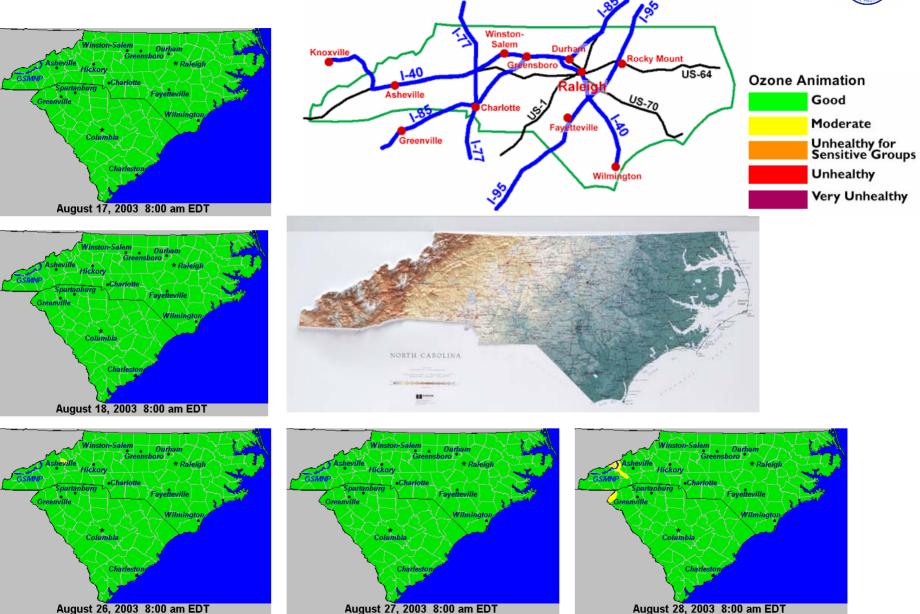


N.C. Air Awareness Program >> Ozone Forecast Center >> Ozone Monitors



AQI Map Archives - Southeast





- · The average adult breathes over 3,000 gallons of air a day.
- Almost 4 million North Carolinians live in counties with air quality not meeting Federal clean air standards.
- Up to 70% of air pollution in North Carolina's cities is caused by cars and trucks. The traffic really is getting worse every day. The number of miles we drive in our state is increasing three times as fast as the population.
- Air Pollution aggravates asthma and may cause asthma in children.(2)

 One in ten North Carolina 7th and 8th graders has diagnosed asthma. One in four 7th and 8th graders has either diagnosed asthma or asthma symptoms.(3)



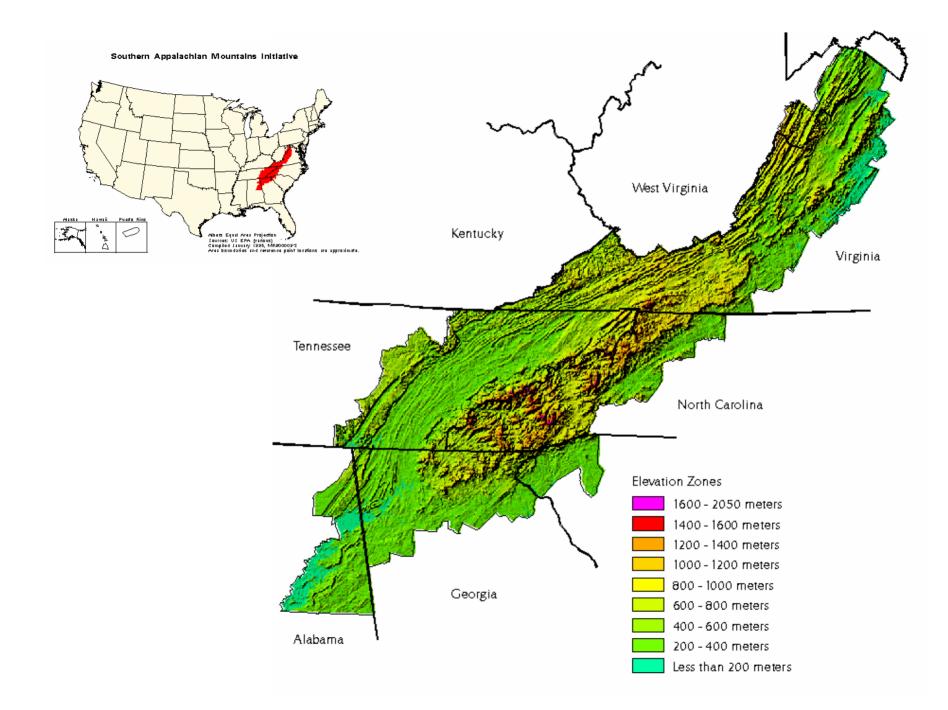
North Carolina Department of Health and Human Services

http://www.dhhs.state.nc.us/ozone.htm

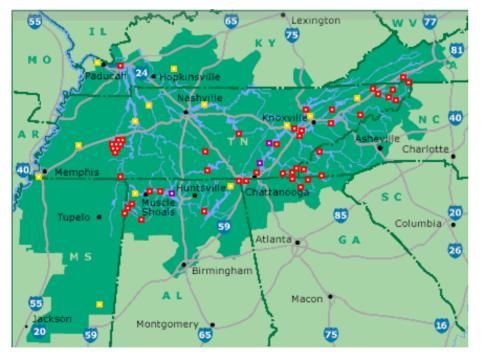
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#24 Chattanooga, Tennessee



Tennessee Valley Authority



Interactive Map

Reservoirs Apalachia

Bear Creek Beaver Creek Beech Blue Ridge Boone Cedar Cedar Creek Chatuge Cherokee Chickamauga Clear Creek Dogwood Douglas Fontana * Fort Loudoun Fort Patrick Henry Great Falls Guntersville Hiwassee Kentucky * Little Bear Creek Lost Creek Melton Hill

Nickaiack Nolichucky Normandy Norris Nottely Ocoee 1 Occee 2 Occee 3 Pickwick. Pin Oak Pine Raccoon Mtn. * Redbud South Holston Sycamore Tellico Tims Ford Upper Bear Creek Watauga Watts Bar Wheeler Wilbur Wilson

* Visitor Centers at these sites are open except during high security alerts.

Fossil Plants

Allen Bull Run Colbert Cumberland Gallatin John Sevier Johnsonville Kemper Kingston Lagoon Creek Paradise Shawnee Widows Creek

Nuclear Plants

Browns Ferry Sequoyah Watts Bar

Small TVA dams at John Sevier and Doakes Creek do not appear on this map. American Geophysical Union



5 January 2004 AGU Release No. 04-01 For Immediate Release Contact: Harvey Leifert +1 (202) 777-7507 hleifert@agu.org

Ozone Standards Pose Health Risks, Scientists Report

WASHINGTON - The air Americans breathe contains more ozone from pollution than the Environmental Protection Agency estimates, Harvard scientists report. Ozone can cause pain, breathing difficulties, and coughing. It can damage the lungs, EPA warns on its Web site, and it can also make one susceptible to respiratory infections. Those active outdoors are particularly at risk for exposure, the agency says.