

Arkansas Air Quality

the Clean Air Act
under EPA and
Arkansas emissions

Arkansas Air Quality

According to the Environmental Protection Administration (EPA) region rankings

Arkansas ranks
in the top
 $\frac{1}{3}$ of the
states



Primary Sources



motor vehicles



coal power generation



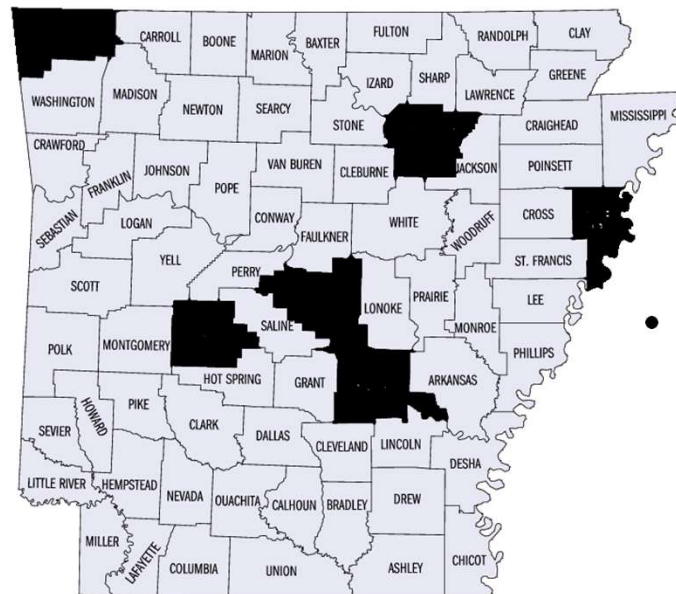
concentrated industries



fires

Ambient Air Pollutants

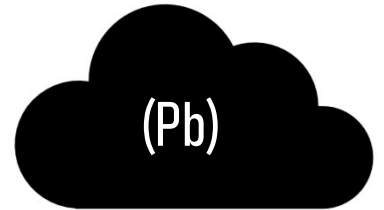
Counties of Concern



- Benton
- Crittenden
- Garland
- Independence
- Jefferson
- Pulaski

Consistently meets all federal air quality standards for criteria pollutants such as

- lead
- sulfur dioxide
- nitrogen oxides
- hydrocarbons
- other particulates



EPA ranks Arkansas

relatively low on carbon
monoxide, lead and $(NO)_x$
pollutants

but

high among states on
ammonia discharges



(Pb)



$(SO)_2$



$(NO)_x$



Swine and
poultry
operations
discharge
ammonia

Airborne particulates

- ammonia produced by nitrogenous compounds
- manure & feed
- dander, hair and poultry feathers



Swine and
poultry
operations
discharge
ammonia

Environmental
dust, ammonia,
bacteria and
other
contaminants

- create respiratory concerns
- &
- cause chronic health issues

Swine Operations

Reducing Ammonia Discharge

Manage

- Low protein diet
- Rapid manure removal

Maintain

- Moist bedding
- Uniform ventilation



Ramifications of the Clean Air Act for agriculture

Permits, penalties
and enforcement
under
consideration

2000 animal+
feeding operations
have signed
agreements with
the EPA

Emissions will be monitored for
two years beginning in 2006

At its conclusion, animal
operations must be in compliance
with air codes

Current U.S. Regulatory Activity

