

SCHOOL ANTI-IDLING CAMPAIGN

Air Quality Subcommittee

August 2015

- ▶ Reduce bus and personal vehicle idling around schools
 - ▶ Environmental, health, and economic benefits
- ▶ Outgrowth of Wilmington Asthma Action Plan

GOAL

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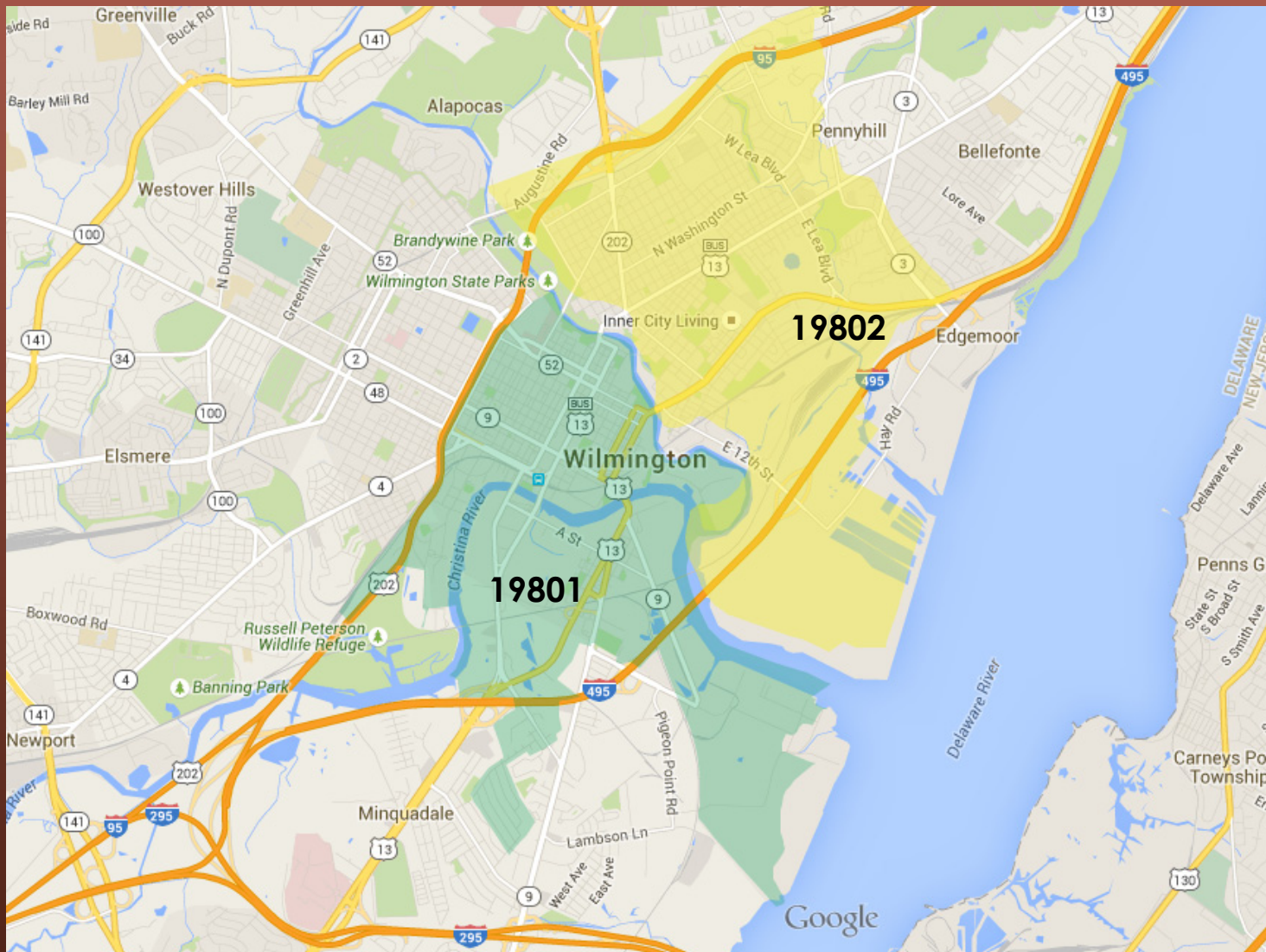
- ▶ Chronic disease that inflames and tightens airways
 - ▶ Indoor and outdoor triggers
- ▶ About 9.5% of NCC residents have asthma
 - ▶ Nationally, more common among children, women, blacks, Puerto Ricans, and low-income
- ▶ A leading cause of Emergency Department visits

ASTHMA FACTS

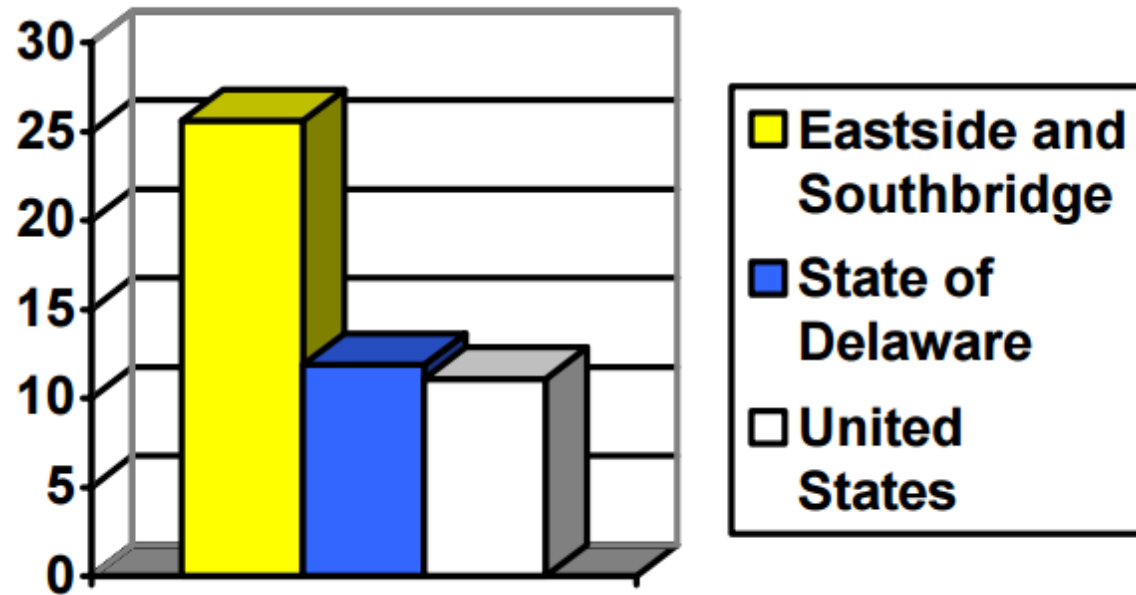
- ▶ Centers for Medicare and Medicaid Innovation (CMMI)
- ▶ Nemours-led asthma action planning across Delaware
 - ▶ Reduce asthma related ED visits by children
- ▶ Wilmington work targeted in 19801/2
 - ▶ South Wilmington Planning Network support

NEMOURS CMMI GRANT





Asthma



ASTHMA RATES: 2004 UD SURVEY

- ▶ Reduce **indoor** asthma triggers
 - ▶ Mold, pests, smoking, cleaning supplies, etc.
 - ▶ **Immediate Strategy:** Home health workers
 - ▶ **Immediate Strategy:** Healthy Homes training (Housing Authority pilot)

- ▶ Reduce **outdoor** asthma triggers
 - ▶ Vehicle exhaust, industrial pollution
 - ▶ **Immediate Strategy:** School bus idling

NEMOURS CMMI GRANT

- ▶ Environmental

- ▶ Ozone formation and haze

- ▶ Health

- ▶ Diesel exhaust: direct links to asthma, suspected links to cancer

- ▶ Economic

- ▶ One school bus idling for 30 min./day = \$175.95 fuel/year

KEY IDLING FACTS

- ▶ School Bus Driver Education/Awareness

- ▶ Christina School District

- ▶ August 2014

- ▶ Program

- ▶ Student-produced anti-idling video

- ▶ Asthma and safe cleaning

- ▶ Environmental impact

- ▶ Anti-idling recognition



MILTON DELGADO

NEMOURS CMMI GRANT

- ▶ CMMI funding ended
- ▶ WILMAPCO leading the anti-idling work
- ▶ Expanding efforts
 - ▶ School bus driver education/awareness
 - ▶ Private vehicle idling reduction

CURRENT CAMPAIGN

WILMAPCO

Nemours®



**AMERICAN
LUNG
ASSOCIATION®**
Fighting for Air

TEAM

- ▶ School bus driver education/awareness schedule

- ▶ Colonial School District (August 19)

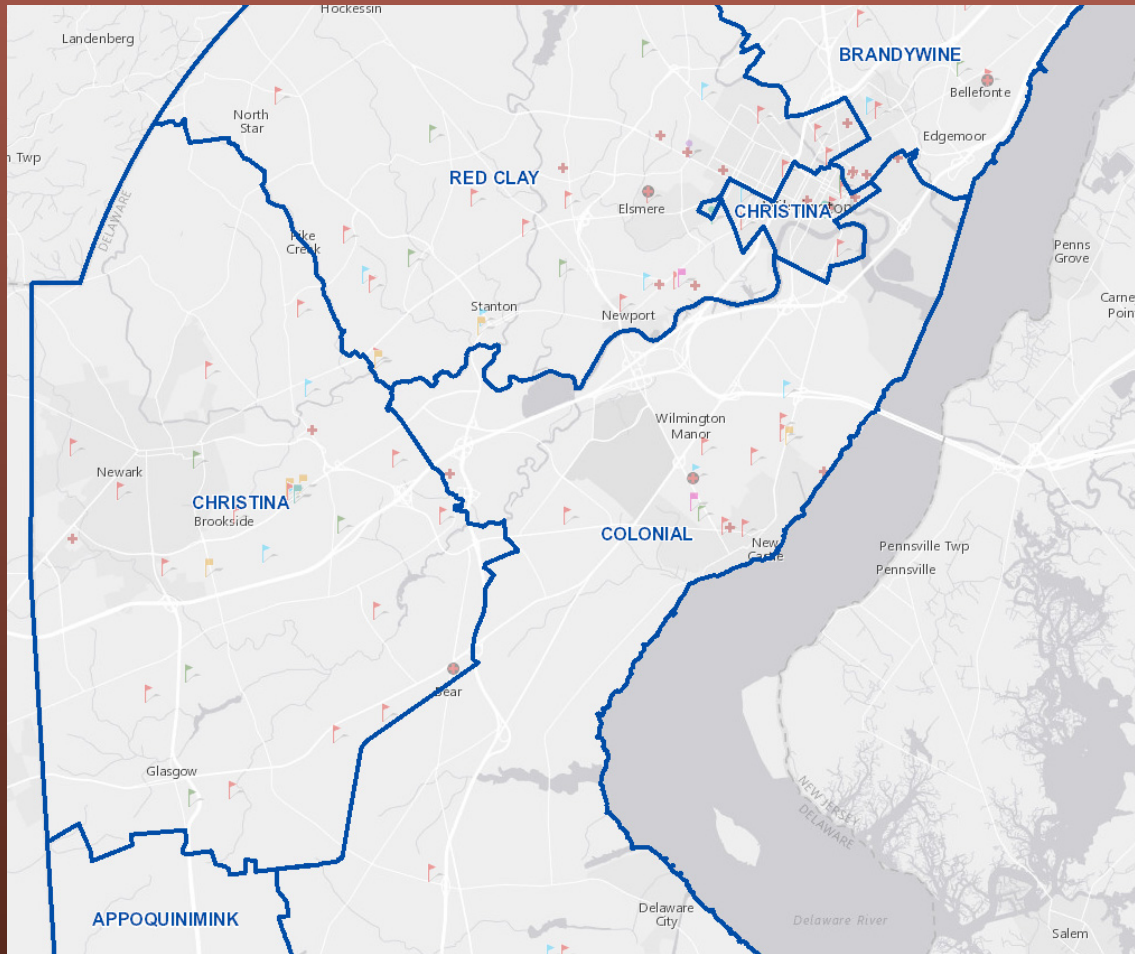
- ▶ 70 drivers

- ▶ Christina School District (August 26)

- ▶ 190 contracted drivers

- ▶ Only engaged district drivers last year

BUS ANTI-IDLING



DELAWARE DEPARTMENT OF EDUCATION

SCHOOL DISTRICT BOUNDARIES

SCHOOL-WIDE AWARENESS

Presentation at assembly(ies)

- Mascot assembly

School anti-idling policy

- Signage around school

Ozone Flag Program

Literature distribution

CAR ANTI-IDLING

TARGETED SCIENCE/HEALTH CLASS(ES)

Asthma curriculum

Presentation from experts

Interaction w/air quality monitoring equipment

Mock enforcement and encouragement of anti-idling policy

CAR ANTI-IDLING

AIR QUALITY MONITORING



Pre-and post program measurements

Interaction with targeted science/health class

CAR ANTI-IDLING



VIDEO PRODUCTION

Documentation of work

Production of video to promote work at other schools

CAR ANTI-IDLING

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CAR ANTI-IDLING

- ▶ Tied to Next Generation Science Standards
- ▶ Schools choose level of involvement
- ▶ Funding: DERA, WILMAPCO, in-kind

CAR ANTI-IDLING

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- ▶ Open to all schools, but focused on 19801/2
- ▶ Howard High School
- ▶ Elbert-Palmer Elementary School

CAR ANTI-IDLING



TropoNose.org

