

LIVABLE MECK
YOUR VOICE. YOUR VISION.

ENGAGEMENT CAFÉ

May 17, 2017

TODAY'S OBJECTIVES

- ▶ Learn more about air quality issues and impacts.
- ▶ How air quality influences the quality of life in our community.
- ▶ Encourage discussions and collaborations.
- ▶ Engage as a Livable Meck partner to achieve results.

TODAY'S AGENDA

- ▶ Networking with Partners
- ▶ Connect Livable Meck's Strategies & Air Quality
- ▶ Presentation & Relevant Data
- ▶ **Application & Action Steps**
- ▶ Closing Remarks

*LUES is a Livable Meck Partner

ACTIVITY



LIVABLE MECK OVERVIEW

Guiding Principles	 WELCOMING	 INNOVATIVE	 CONNECTED	 INCLUSIVE	 PREPARED	 HEALTHY	 RESILIENT
Descriptors	Character. Entertainment. Opportunity. Safe Neighborhoods.	Jobs. Entrepreneurship. Commerce.	Engaged Residents. Transportation Choices.	Community. Participation.	A Skilled Workforce. Quality Education.	Physical Activity. Healthy Foods. Clean Environment.	Future Well-being. Collaboration.
Strategies	<ul style="list-style-type: none"> • Build safe neighborhoods • Increase access to community-based arts, science, and history education • Continue to be an inviting destination for residents, visitors and businesses • Celebrate and integrate history, culture and diversity 	<ul style="list-style-type: none"> • Make it easier for new businesses to succeed and existing businesses to flourish • Increase global economic competitiveness • Promote the redevelopment, reuse, and rehabilitation of declining and vacant properties • Leverage technology 	<ul style="list-style-type: none"> • Expand capacity and increase use of sidewalks, bikeways, greenways/ paved trails, bus routes, and rail • Build stronger connections across diverse population groups 	<ul style="list-style-type: none"> • Balance available housing options • Coordinate the work of organizations addressing the needs of at-risk residents • Expand the availability of affordable recreation and cultural services programs 	<ul style="list-style-type: none"> • Expand and enhance learning across all age groups • Enhance partnerships between workforce development initiatives and employers 	<ul style="list-style-type: none"> • Create a culture of health and wellness • Protect and restore the natural environment • Coordinate open space, greenways/ paved trails, and parks planning with neighborhood accessibility 	<ul style="list-style-type: none"> • Manage zoning and development to revitalize community character and the natural environment while allowing for growth and innovation • Manage resources wisely • Develop community and neighborhood leaders for the future

Welcoming

Innovative

Connected

Inclusive

Prepared

Healthy

Resilient



Guiding Principle: Healthy

Strategy: Create a culture of health and wellness.

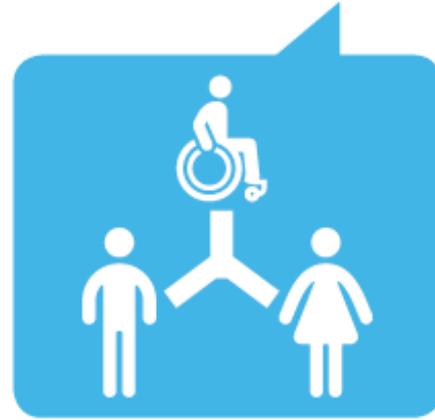
Guiding Principle: Connected

Strategy: Expand capacity and increase use of sidewalks, bikeways, greenways/paved trails, bus routes, and rail.

AIR QUALITY AND LIVABLE MECK



Healthy = WHY



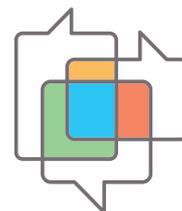
Connected =
HOW



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AIR QUALITY AND YOUR HEALTH

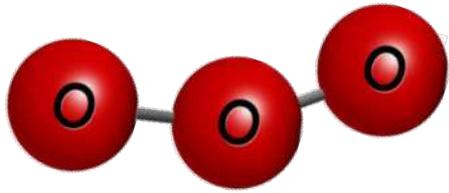


LIVABLE
MECK

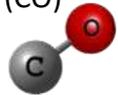
COMMON AIR POLLUTANTS

Gaseous Air Pollutants

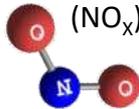
Ground-level Ozone (O_3)



Carbon Monoxide
(CO)



Oxides of Nitrogen
(NO_x)

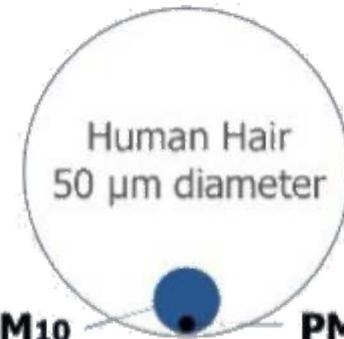


Sulfur Dioxide
(SO_2)



Particle Air Pollutants

Particulate Matter (PM)



PM₁₀
<10 µm
diameter

PM_{2.5}
<2.5 µm
diameter

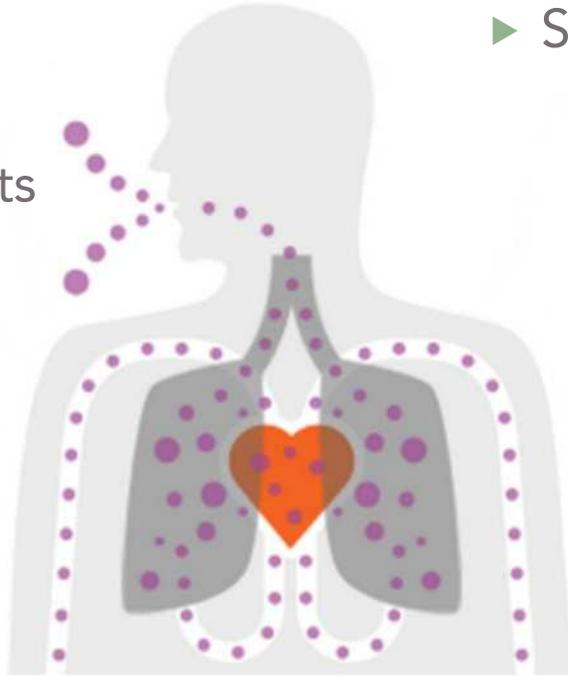
AIR POLLUTION IMPACTS HEALTH

- ▶ Respiratory Impacts

- ▶ O₃ and PM

- ▶ Cardiovascular Impacts

- ▶ PM



- ▶ Sensitive Populations

- ▶ Children
- ▶ Older adults
- ▶ Pre-existing conditions
- ▶ Active adults

KNOW THE CODE



Level of Health Concern	Index Value	Message
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk.
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects.
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.



Health-based Standard

YOU'VE GOT MAIL!



Air Quality Notifications

(n) Air Quality Action Day has been declared for Charlotte, NC, on Friday, Sep 9

Tomorrow's Forecast

Friday, Sep 9:	101 AQI	Unhealthy for Sensitive Groups	Orange	Ozone
	63 AQI	Moderate	Yellow	Particle Pollution (2.5 microns)

Extended Forecast

Saturday, Sep 10:	Moderate		Yellow	Ozone
	Moderate		Yellow	Particle Pollution (2.5 microns)
Sunday, Sep 11:	Good		Green	Ozone
	Good		Green	Particle Pollution (2.5 microns)

For additional information concerning the air quality forecast including a detailed forecast discussion, please visit the following link on the NC Division Of Air Quality Web Site: <http://www.ncair.org/airaware/forecast>

The Charlotte air quality forecast region includes Cabarrus, Gaston, Lincoln, Mecklenburg, Rowan, Union, and southern Iredell Counties.

Protect your Health! Modify your physical activity as needed by referencing the Air Quality Index below.

Note: Open Burning is generally PROHIBITED on Air Quality Action Days. Burning trash and other non-vegetative material is ALWAYS PROHIBITED. For more information and exceptions to the Open Burning Rule, visit www.ncair.org/enf/openburn and <http://www.ncair.org/rules/rules/sec1900.pdf>.

Care for the Air

- Drive less: carpool, vanpool, take the bus, telecommute.
- Conserve electricity.
- Pack a lunch or walk to lunch.
- Avoid idling your vehicle.
- Refuel and mow after 6:00pm.

Get notified by email when poor air quality is forecasted

Subscribe for free at CharlotteAirAwareness.org

Look for the flag



ACCESS UP-TO-DATE LOCAL AQ DATA

Visit Mecklenburg County's Air Quality Data dashboard to see current conditions

AirQuality.CharMeck.org

Look for the skyline



The screenshot shows the Mecklenburg County Air Quality Data dashboard. At the top, there is a navigation bar with icons for Residents, Businesses, Visitors, and Government, along with a search bar and a language selector set to English. Below the navigation bar, the breadcrumb trail reads "Mecklenburg County, NC > LUESA > Air Quality > Air Quality Data".

The main content area is divided into several sections:

- Air Quality:** A sidebar menu with links for "Air Quality Cameras", "Contact Us", "Community Information", "Hot Topics", "Motor Vehicles", "Public Comment Opportunities", and "Regulated Industry".
- Address:** Mailing Address: 2145 Suttle Avenue, Charlotte, NC 28208. Office Location: 2145 Suttle Avenue, Charlotte, NC 28208. Hours: Mon-Fri 8 a.m. - 5 p.m.
- Contact:** Shelley Lanham, 704-326-5436, Send an Email.
- Air Quality Data:** A table showing the Current Air Quality Index (AQI) for various monitoring sites and pollutants.
- Recent AQI:** A link to view previous maximum AQI values.
- Historical Data:** A link to view reports and request numerical data.
- Monitoring Locations:** A map showing the locations of monitoring sites: University Meadows, Garinger, Remount, Charlotte, Montclair, and Mid Hill.
- Visibility Camera:** A live video feed showing the current sky conditions.

MONITORING SITE	POLLUTANT	INTERVAL	AIR QUALITY	AQI VALUE
GARINGER	CO	8 Hour	GOOD	3
GARINGER	Ozone	8 Hour	GOOD	29
GARINGER	PM _{2.5}	24 Hour	GOOD	28
GARINGER	SO ₂	1 Hour	GOOD	1
GARINGER	NO ₂	1 Hour	GOOD	8
MONTCLAIRE	PM _{2.5}	24 Hour	GOOD	37
REMOUNT	CO	8 Hour	GOOD	5
REMOUNT	PM _{2.5}	24 Hour	MODERATE	51
REMOUNT	NO ₂	1 Hour	GOOD	24

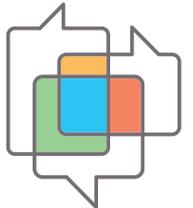
Last Updated: 05-09-17 at 9:36 AM



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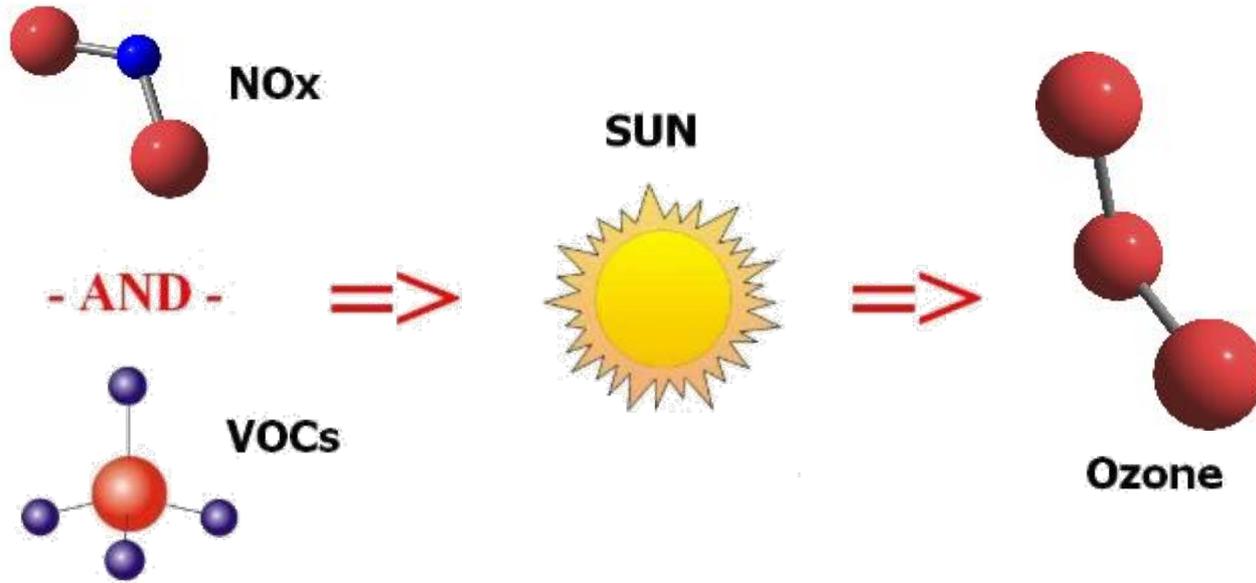


REDUCING LOCAL AIR POLLUTION

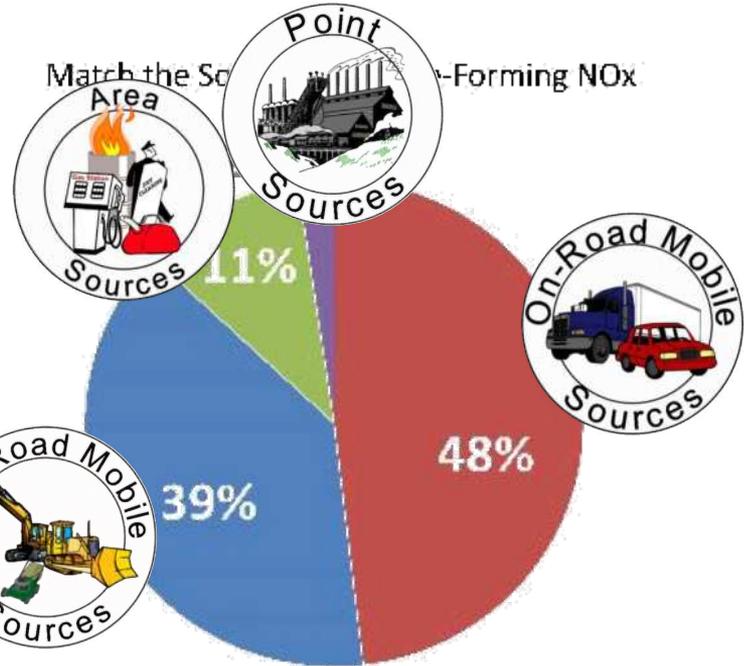


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OZONE FORMATION



LOCAL SOURCES OF NOx



MCAQ: A Local Resource for Improving Air Quality

MISSION

Lead and assist Mecklenburg County towards **meeting and maintaining compliance** with the health-based National Ambient Air Quality Standards.





Mobile Sources

Reduce air pollution from cars, trucks, and off-road equipment



Monitoring

Collect real-time, accurate data



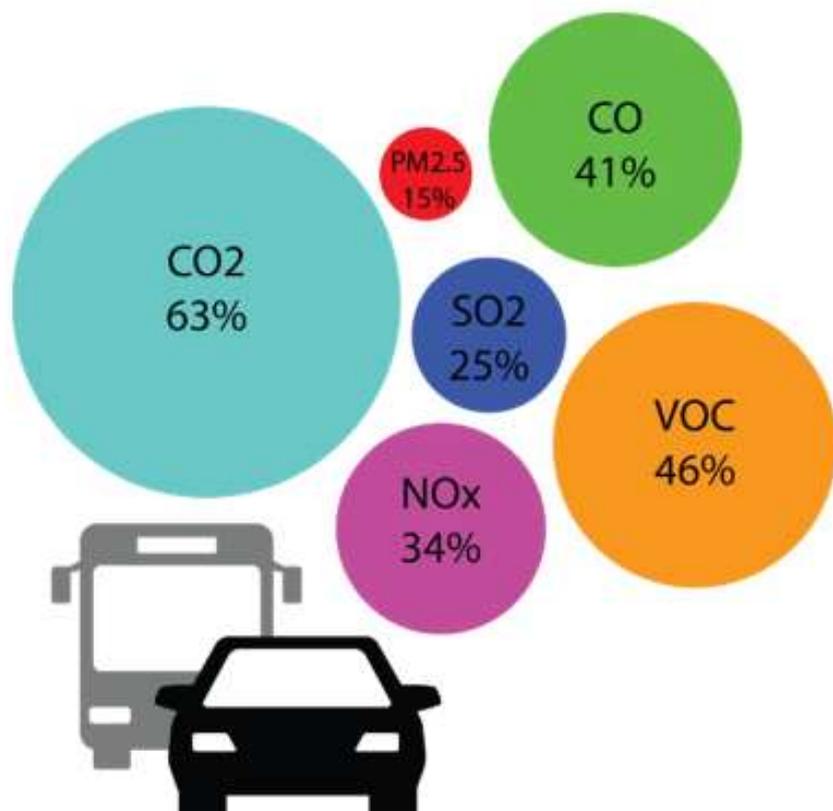
Permitting and Enforcement

Assist local businesses in complying with local, state, and federal rules

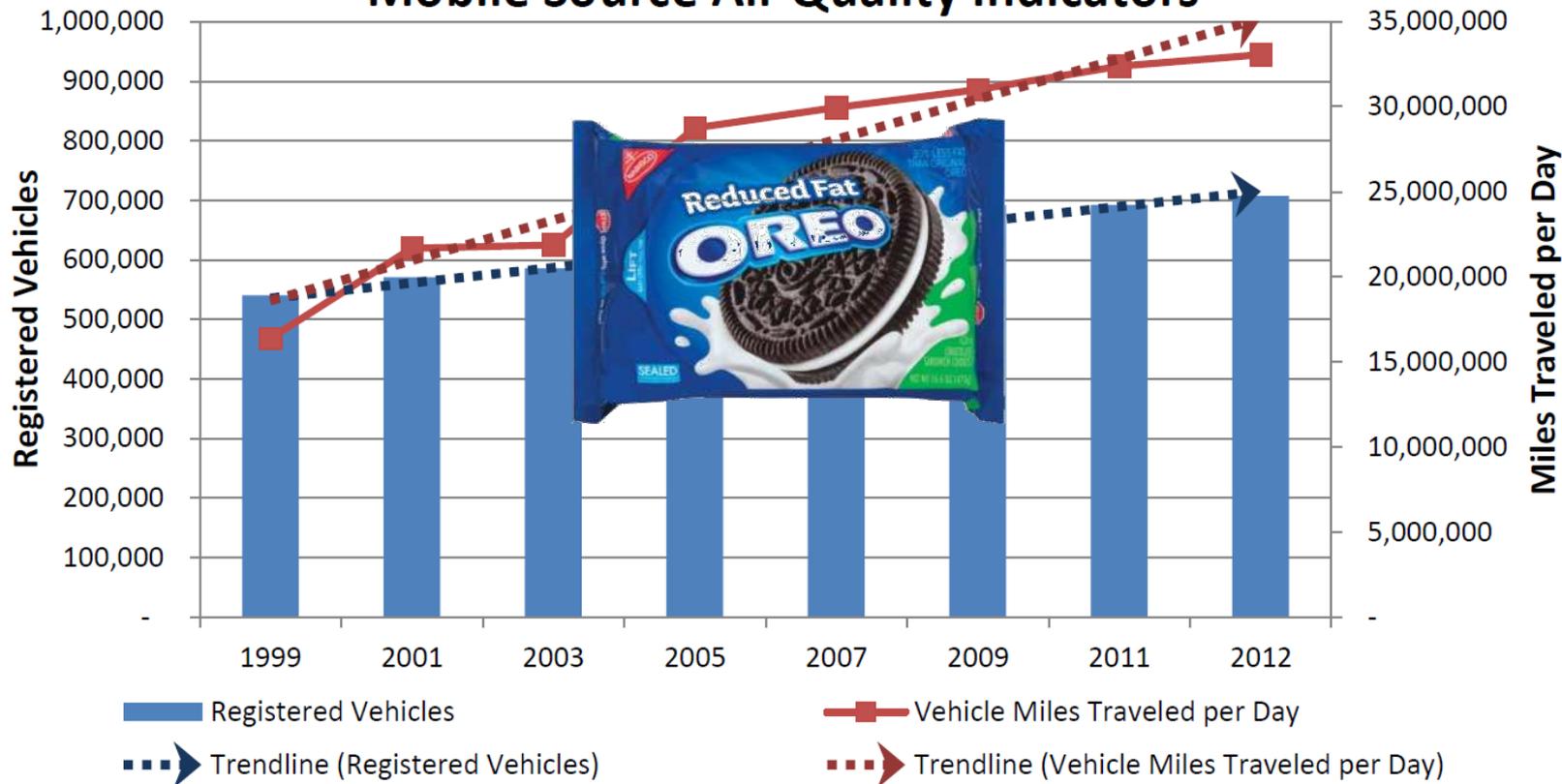


Drive Less!

Passenger transport
is the largest mobile source
of air pollution in
Mecklenburg County.



Mobile Source Air Quality Indicators



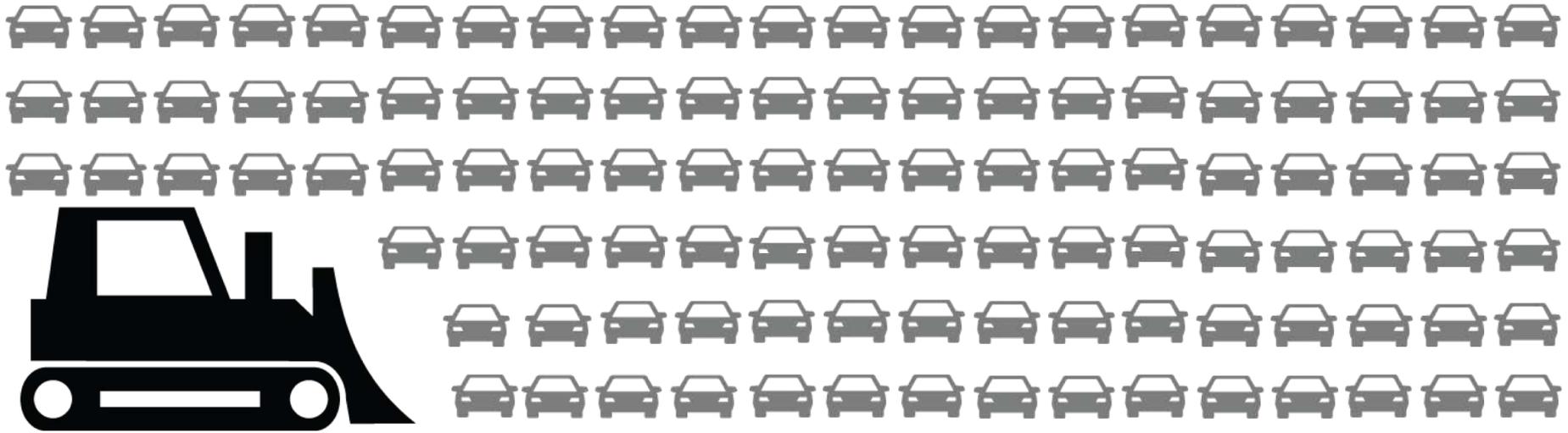
WAYS TO CURB AIR POLLUTION

- ▶ Drive less!
 - ▶ Clean commute to work
 - ▶ Trip chain
 - ▶ Shop local
 - ▶ Carpool with other families to kids' practices, games, and events
 - ▶ Be idle free

2017 CLEAN COMMUTE CHALLENGE

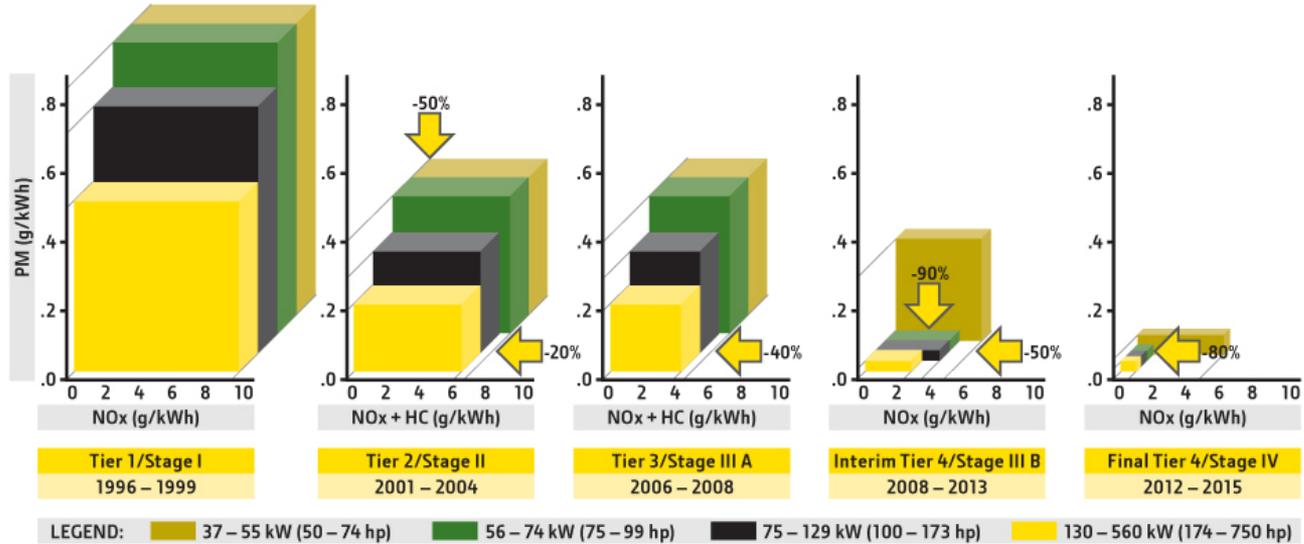


- ▶ June 1 – July 31, 2017
- ▶ 10 Clean Commutes = Entry for PRIZES
- ▶ Log: Way2GoCLT.com | Commute Tracker app
- ▶ Create a TEAM to get coworkers and customers involved!



**NO_x Emissions from 1 piece of Construction Equipment
= NO_x Emissions from 104 Passenger Vehicles**

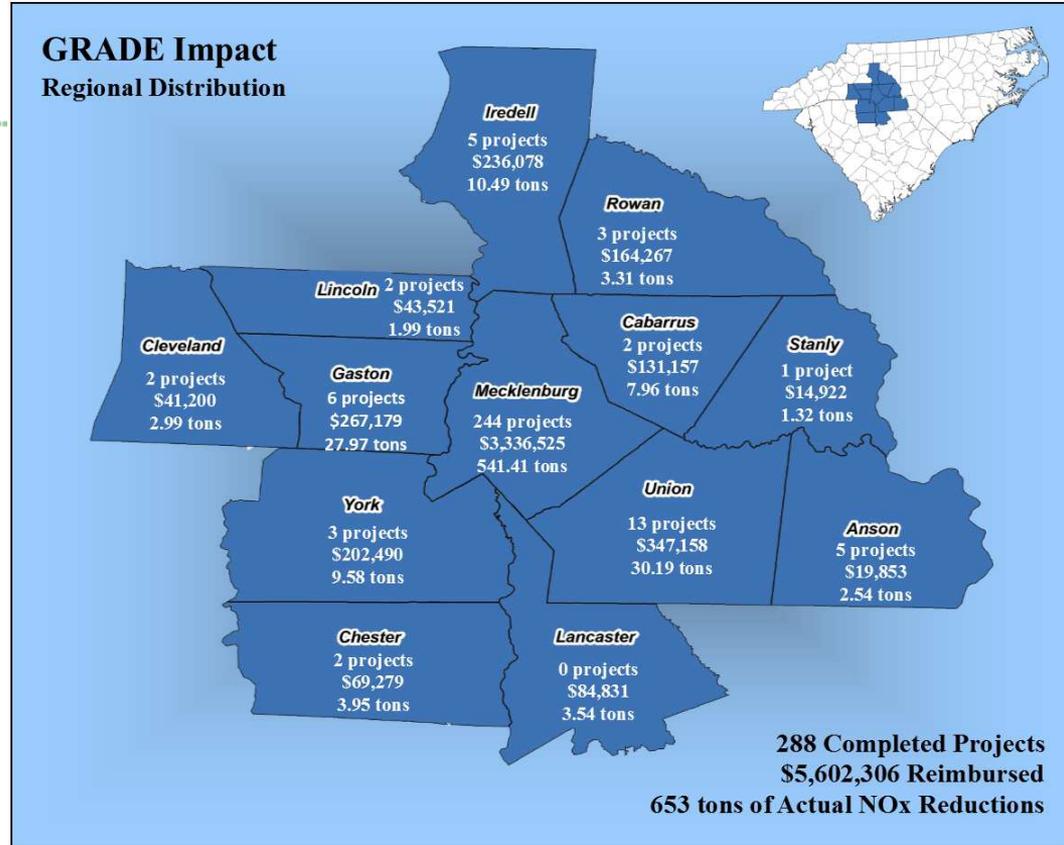
VEHICLE EMISSION STANDARDS



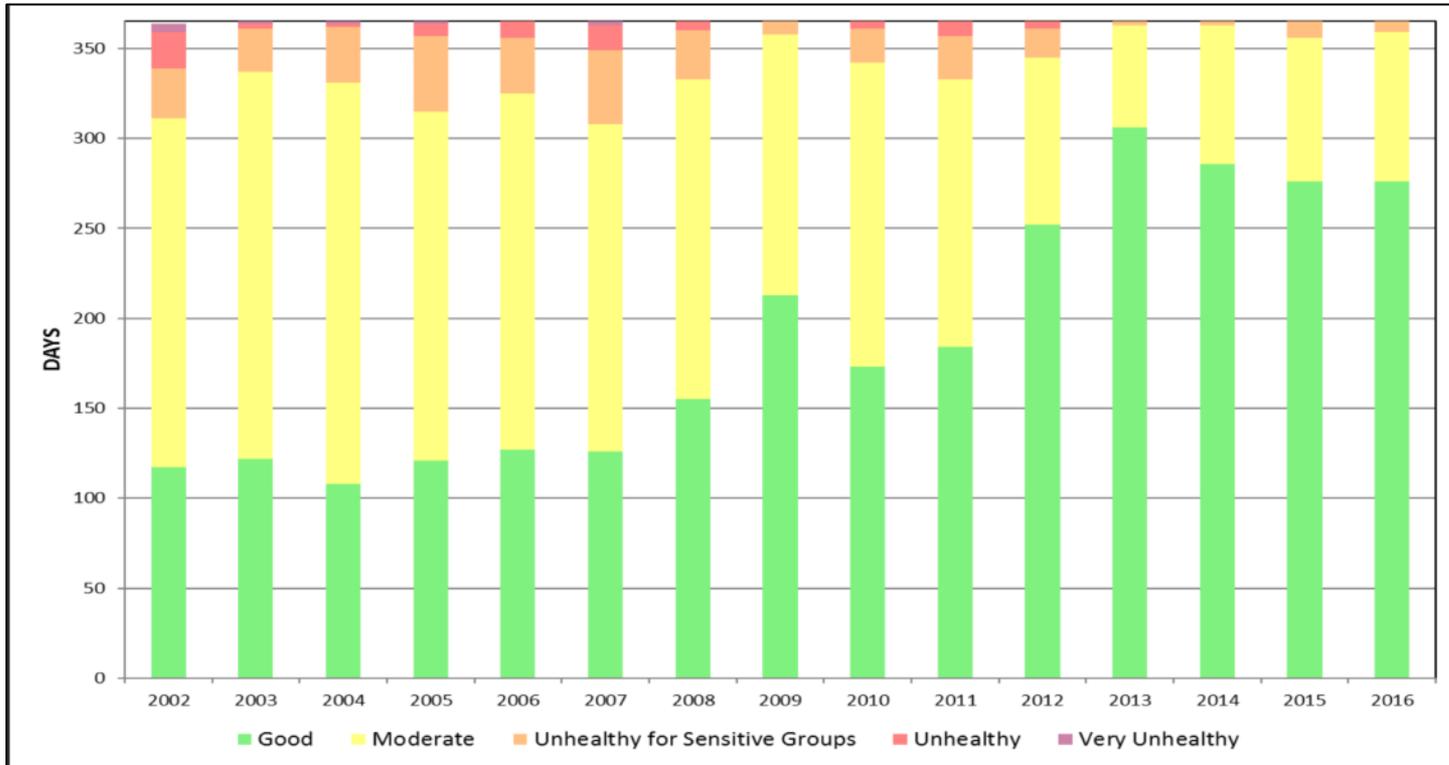
Graph Source: John Deere

REGIONAL IMPACT OF GRADE

Since 2007, GRADE has funded **288 projects** and awarded over **\$5.5 million** in rebates. These projects have reduced **653 tons** of ozone-forming NOx in the Charlotte region.



GOOD DAYS HAVE DOUBLED SINCE 2004

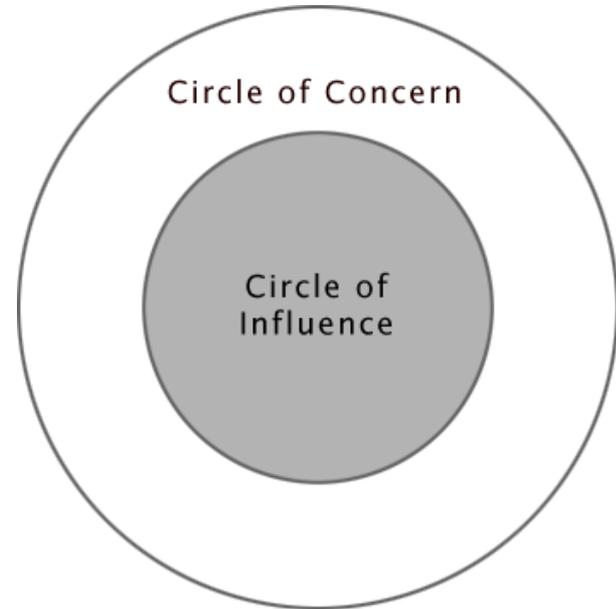


PARTNERS IN ACTION



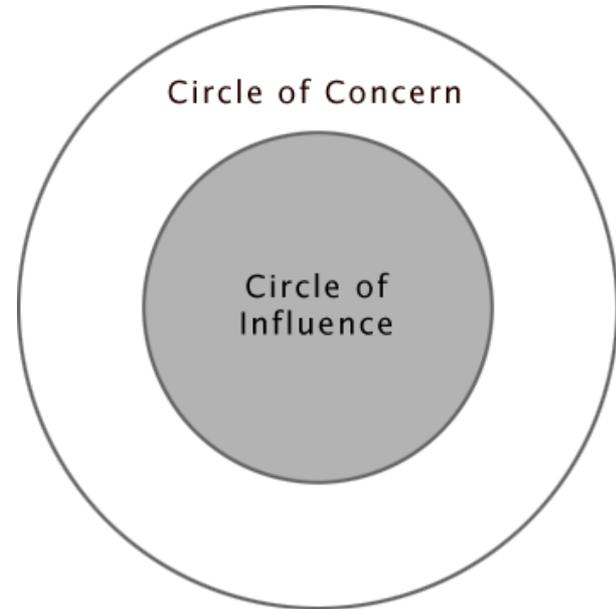
PERSONAL INFLUENCE

- Your **Circle of Influence** includes those things you can **affect directly**.
- Consider the list below. Determine which phrases belong in Circle of Concern and which belong in Circle of Influence.
 - Organizational budget cuts.
 - Delayed flight.
 - My personal bills (i.e. mortgage, car payment, etc.).
 - Traffic.
 - My health.



PERSONAL INFLUENCE

- Consider the issue of air quality.
- Populate **your** template:
 1. Identify areas of concern.
 2. Identify areas you can influence.
 3. What actions will you take this week in your Circle of Influence?



PARTNERS IN ACTION



PARTNERS IN ACTION

As a Livable Meck **partner organization**...

- What is one thing you will commit to doing this **coming week**?
- What is one thing you will commit to doing this **year**?
- To accomplish your commitments, will you collaborate with other Livable Meck partners?
- Are their supports (engage, facilitate, measure, or communicate) Livable Meck could offer you as you take action?

CLOSING REMARKS

