

Items for public review:

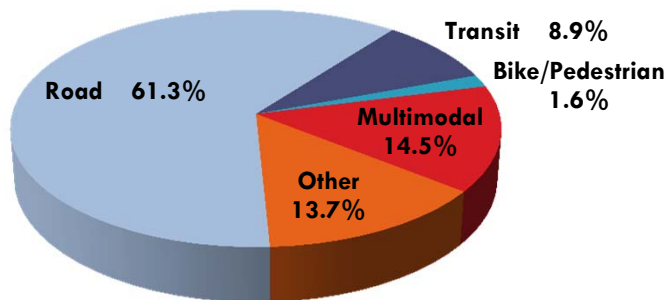
DRAFT amendments to FY 2015-2018 Transportation Improvement Program

- Under consideration for Council adoption in September 2014
- Contains more than \$1.7 billion in road, transit, rail, multimodal & bicycle/pedestrian projects
- Contains 6 percent less funding than the TIP approved in March 2014
 - ▣ 2 added bridge preservation projects
 - ▣ Funds eliminated from 11 projects:
 - Bridge 112 on Yorklyn Rd over Red Clay Creek
 - Bridge 229 on SR 2 over White Clay Creek
 - City of New Castle intersections
 - Fairplay Station parking
 - Possum Park / Old Possum Park Roads intersection
 - SR 9: 3rd St – Heald St, New Castle-Wilmington
 - Tyler McConnell Bridge
 - US 13: Duck Creek – SR 1, Smyrna
 - 4th St: Walnut St – I-95, Wilmington
 - Walnut St: MLK Blvd – 16th St, Wilmington
 - Wilmington Transit Hub

Transportation Improvement Program Summary

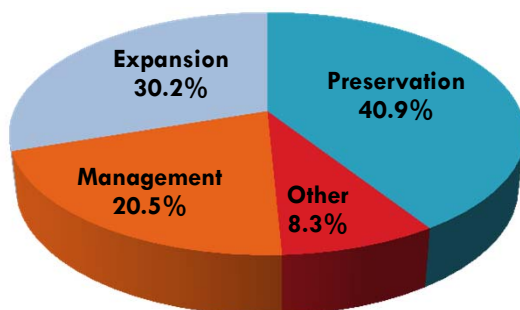
The TIP is the regionally agreed upon 4-year list of priority transportation projects, as required by federal law (MAP-21). The TIP must list all projects that intend to use federal funds, along with all non-federally funded projects that are regionally significant. We also include other State funded capital projects. The projects include bicycle, pedestrian, ITS, and freight related projects, as well as the more traditional highway and public transit projects.

| FUNDING BY MODE | Approved 3/2014 FY 2015-18 | Draft 7/2014 FY 2015-18 | Draft % Mode | Percent Change |
|---------------------------|-------------------------------|----------------------------|-----------------|-------------------|
| Bike/Pedestrian | 30,173 | 28,663 | 1.6% | -5% |
| Multimodal | 303,184 | 251,893 | 14.5% | -17% |
| Other | 256,389 | 238,001 | 13.7% | -7% |
| Road | 1,103,115 | 1,068,937 | 61.3% | -3% |
| Transit | 163,360 | 155,298 | 8.9% | -5% |
| Total (\$s x 1000) | 1,856,220 | 1,742,792 | | -6% |



- **Bike/pedestrian** – Project exclusively for walking/bicycling
- **Multimodal**– A complete street project, serves cars, transit, freight, pedestrians and bicycles in a balanced way
- **Other**– Includes aeronautics, port, contingency funds, environmental, equipment, planning, etc.
- **Road**-Project exclusively for road
- **Transit**-Project exclusively for bus transit, passenger rail, or paratransit

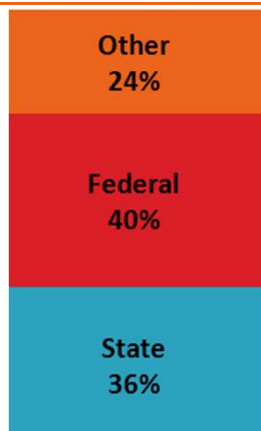
| FUNDING BY CATEGORY | Approved 3/2014 FY 2015-18 | Draft 7/2014 FY 2015-18 | Draft % Category | Percent Change |
|---------------------------|-------------------------------|----------------------------|---------------------|-------------------|
| Preservation | 707,410 | 713,309 | 40.9% | 1% |
| Other | 147,528 | 144,953 | 8.3% | -2% |
| Management | 422,827 | 358,131 | 20.5% | -15% |
| Expansion | 578,455 | 526,398 | 30.2% | -9% |
| Total (\$s x 1000) | 1,856,220 | 1,742,792 | | -6% |



- **Preservation** – Maintain an existing facility or service
- **Management** – Enhance existing facility or service to sustain an acceptable level of service
- **Expansion** – New or expanded services and infrastructure
- **Other**--Engineering & contingency, education & training, environmental program and planning

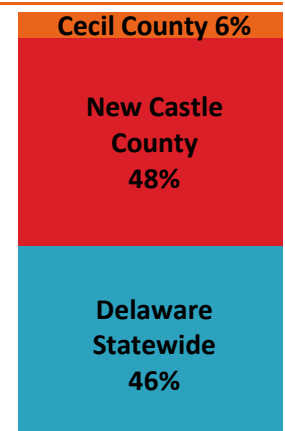
Funding by Source

- Other funding comes from local funds, developer contributions, toll bonds, and grants.
- Federal funds are provided from the US Highway Trust Fund which is funded through the federal gas tax.
- Delaware/Maryland funds from fuel taxes, tolls, motor vehicle and other fees, & bonds.







Funding by Location

The TIP document is grouped by Cecil County, New Castle County, and Delaware Statewide. Delaware Statewide projects are those that do not contain specific funding for New Castle County.



TIP Development Process

Timeline for the FY 2015-2018 TIP

| | |
|------------------|--|
| <u>2013</u> | |
| April | <ul style="list-style-type: none"> ➤ Technical Advisory Committee (TAC) prioritizes project submissions ➤ Air Quality Subcommittee (AQ) reviews submissions |
| May | <ul style="list-style-type: none"> ➤ Council approves prioritized project list for submission to DOTs |
| December | <ul style="list-style-type: none"> ➤ AQ/TAC review of draft TIP and Air Quality Conformity Determination |
| <u>2014</u> | |
| January |  TIP and Air Quality Conformity released for public comment January 13-March 4. |
| February | <ul style="list-style-type: none"> ➤ AQ (Feb. 13)/TAC (Feb. 20)/Public Advisory Committee (PAC) (Feb. 24) recommendation for adoption  TIP Public Workshop – February 24, 4 -7 p.m. |
| March | <ul style="list-style-type: none"> ➤ Revise TIP based on public comments ➤ Council adoption of FY 2015-18 TIP (March 13) |
| June | <ul style="list-style-type: none"> ➤ Delaware FY 2015 Bond Bill approved, provides state funding match for projects |
| July |  TIP amendments released for public comment |
| August | <ul style="list-style-type: none"> ➤ AQ, TAC, PAC recommendation for adoption |
| September | <ul style="list-style-type: none">  TIP Public Workshop ➤ Revise TIP based on public comments ➤ Council adoption of amendments |

 = Best opportunities for public input

The Planning Process

Who is WILMAPCO?

WILMAPCO (Wilmington Area Planning Council) is the metropolitan planning organization (MPO) for Cecil County, Maryland and New Castle County, Delaware. As the MPO, we are required by the federal government to bring local government, state transportation agencies and the public into the transportation decision making process. A range of stakeholders come together through WILMAPCO to develop a long range Regional Transportation Plan (RTP), the Congestion Management System (CMS), Corridor and Area Studies and the Transportation Improvement Program (TIP).

What is the WILMAPCO Planning Process?

Our planning process is designed to foster involvement by all interested parties, such as the business community, community groups, environmental organizations, and the general public, through a proactive participation process conducted in coordination with DelDOT and MDOT.

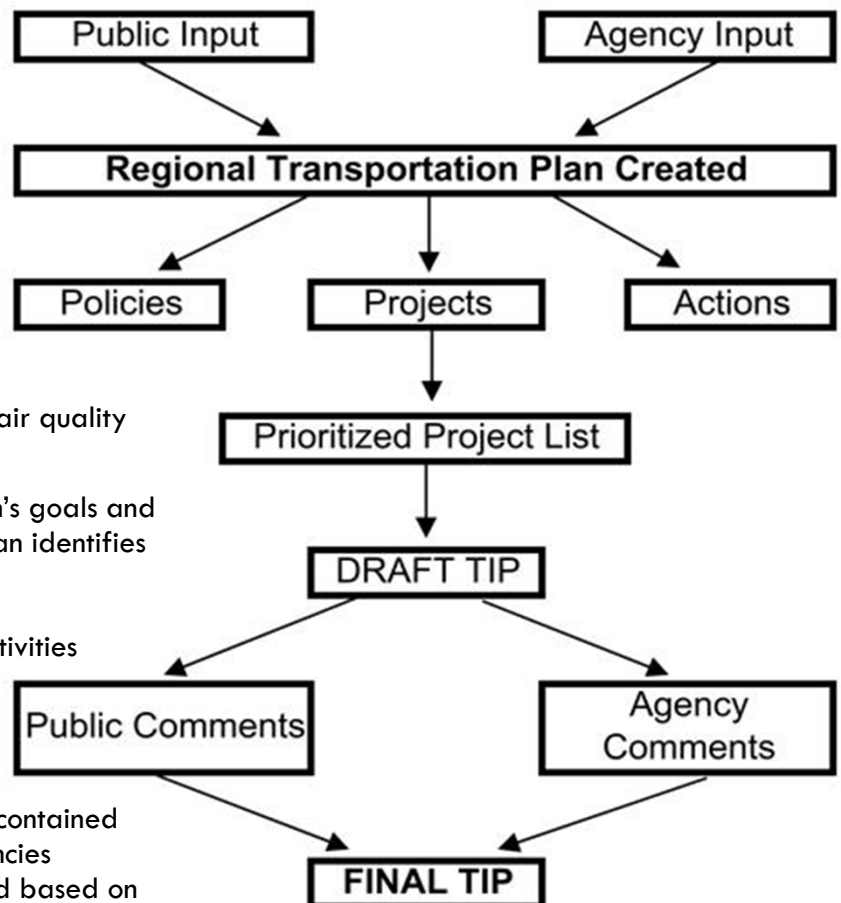
Key steps include:

- Monitoring existing conditions
- Forecasting future growth
- Assessing land uses
- Identifying needs and solutions, through detailed planning studies
- Developing capital and operating strategies for people and goods
- Estimating the impact of transportation on air quality

The RTP is an action plan for making our region's goals and visions a reality over the next 20 years. The plan identifies policies, strategies, and projects for the future.

It is from the RTP that we generate planning activities that go into the Unified Planning Work Program (UPWP) and specific projects that go into the TIP.

Additional projects are proposed from studies contained in the UPWP and feedback from member agencies and the public. Potential projects are prioritized based on criteria related to the RPT.



What is the TIP?

The TIP is the agreed upon list of specific priority projects.

The TIP lists all projects for which federal funds are anticipated, along with non-federally funded projects that are regionally significant. The TIP represents the transportation priorities of the region and is required by federal law. The list is multimodal; in addition to the roadway and transit projects, it includes bicycle, pedestrian, and freight projects.

The TIP shows estimated costs and schedule by project phase.

The TIP lists specific projects, and also documents the anticipated schedule and cost for each project phase (project development/planning, preliminary engineering, right-of-way acquisition, and construction). Inclusion of a project phase in the TIP means that it is seriously expected to be implemented during the TIP time period.

The TIP implements the Regional Transportation Plan.

Regionally significant projects must be drawn from the region's long range plan and all projects in the TIP must help implement the goals of the plan. The long range plan, required by federal law, is the document which helps direct transportation and land use decisions over the next 20-years. The TIP represents the translation of recommendations from WILMAPCO's long-range transportation plan, the 2040 RTP, into a short-term program of improvements.

The TIP covers 4 years and is updated annually.

The TIP may be changed after it is adopted. Under the provisions of federal law and regulation, the approved TIP can be amended to add or delete projects, advance or delay projects, and accommodate cost and phase of work changes or major scope changes to a project. A public comment period will occur before any major amendments are approved.

The TIP is financially constrained.

The list of projects in the TIP must be financially constrained to the amount of funds that are expected to be available. To add projects to the TIP, others must be deferred to maintain this financial constraint. As a result, the TIP is not a "wish list"; competition between projects for a spot on the TIP clearly exists.

The TIP is air quality conforming.

The Clean Air Act Amendments of 1990 require that all transportation plans, programs and projects conform to state plans to attain air quality standards. A TIP is said to conform if it is drawn from a plan which meets the standards as determined by an emissions analysis. That is, if the regionally significant projects contained in a TIP are a subset of the regionally significant projects in the conforming transportation plan, the TIP conforms without the need for a separate emissions analysis.

The TIP is NOT a final schedule of project implementation.

The time frame shown in the TIP is the "best estimate" at the time of TIP development, which is six to nine months prior to the beginning of the first fiscal year of the TIP period. Projects quite often cannot maintain that schedule and get reprogrammed to later years.

The TIP is NOT a guarantee of project implementation.

Unforeseen problems may arise, such as engineering obstacles, environmental permit conflicts, changes in priorities, and additional financial constraints. These problems can slow a project, cause it to be postponed, or even dropped from further consideration.

Prioritization Process

- *Created to provides a quantitative method to compare projects proposed for our Transportation Improvement Program (TIP) and RTP using measurable criteria*
- *Criteria based on the goals of our long-range Regional Transportation Plan (RTP)*
- *Process was adopted by WILMAPCO Council on May 11, 2006*
- *Ranked projects get submitted to DelDOT/MDOT for use in their statewide process*

STEP 1:

Apply screening criteria

- Is project consistent with the Regional Transportation Plan and local, county and state transportation plans and land use plans?
- If not, project should not be ranked or plan amendments should be made prior to ranking.

STEP 2:

Staff calculates technical score

- Staff calculates a score for each project based on the goals and objectives of the RTP
- Criteria are designed to be objective measures using data available to WILMAPCO.

STEP 3: TAC

review

- Technical Advisory Committee (TAC) reviews technical scoring for accuracy and prepares comments for Council consideration

STEP 4:

WILMAPCO Council ranks submissions

- Council considers:
 - Technical score
 - TAC comments
 - Cost effectiveness
 - Urgency of project
 - Other considerations

Goals and Scoring Criteria

Improve Quality of Life

Air Quality: Project expected to improve air quality by

- Reducing emissions
- Reducing vehicle miles traveled
- Not adding capacity
- Increasing access to non-auto modes

Environmental Justice: Project enhances environment in location with high percentage low-income or minority residents

Safety: Project addresses high accident location based on the absolute number of crashes and the rate at which crashes occur

Efficiently Transport People

Congestion: Project addresses congested area

- Points are awarded for projects addressing areas with Level of Service E or F/areas identified in the Congestion Management System
- For projects within these congested areas, additional points may be awarded based on:
 - Average Annual Daily Traffic
 - Transit Use

Transportation Justice: Project improves mobility and eases access to transit and other transportation choices for zero-car households, elderly and persons with disabilities

Support Activity & Goods Movement

Freight: Project supports major freight routes, based on identified truck route bottlenecks

Economic Development: Project supports economic development including adding or improving access to brownfields, major employment centers, and existing communities based on defined Delaware State Strategies and Maryland Priority Funding Areas

Funding Contribution: Local and/or private commitment demonstrated through funding contribution

Congestion Management System (CMS)

Federal guidelines prohibit projects that increase capacity for single occupant vehicles unless the project comes the WILMAPCO analysis of congestion in the region—the CMS. Our CMS serves to:

- Measure multi-modal transportation system performance
- Identify the causes of congestion
- Assess alternative actions
- Implement cost-effective actions
- Evaluate the effectiveness of implemented actions

Using a “Summary-Style” approach, the CMS is a streamlined, data-oriented summary that serves as a resource for use in planning and selection of projects for the TIP. The report contains five sections:

SECTION 1: Congestion Performance

Measures—A review annual performance measure data and the determination of the most congested locations based on a regional analysis

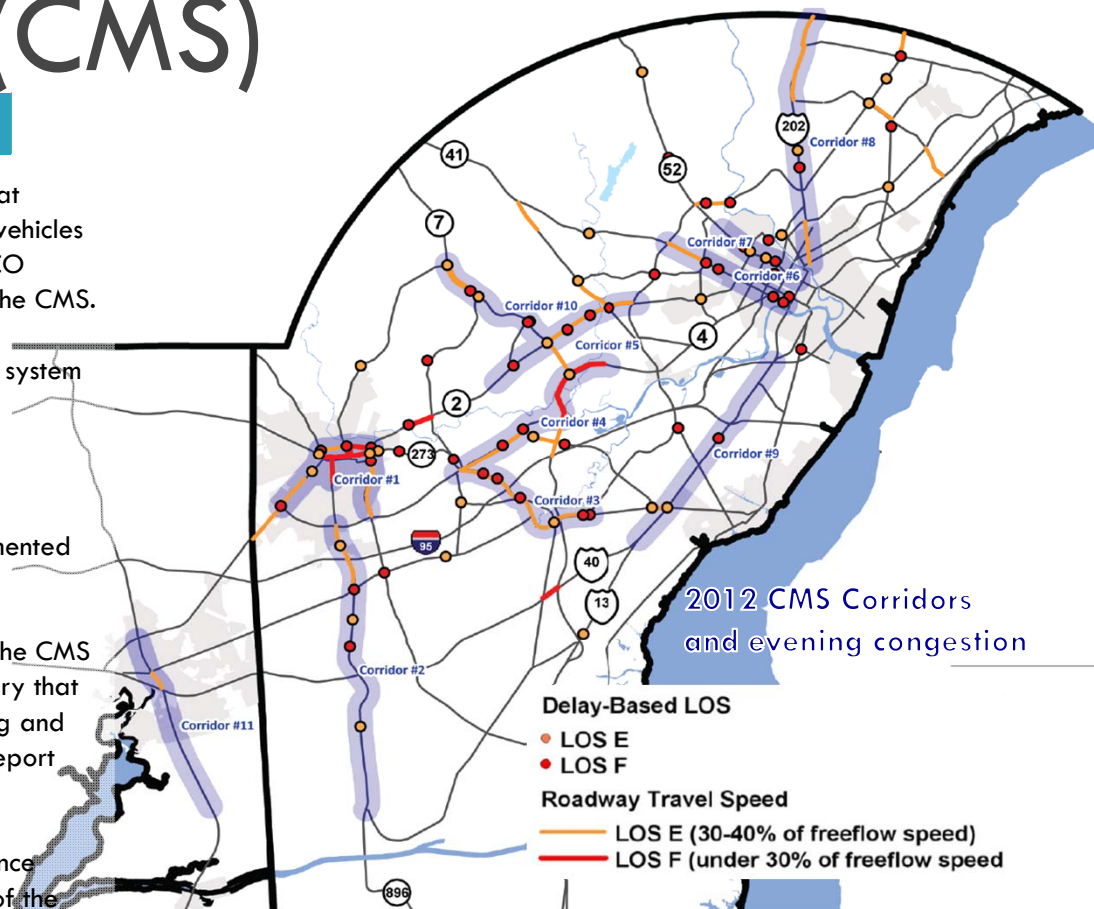
SECTION 2: Intersection Operational Analysis

Detailed analysis to determine if a deficient intersection is suffering from a signal timing issue or has it truly reached a level of volume in which it requires more physical, on-road improvements

SECTION 3: Strategy Evaluation—Identification (by consensus) congested corridors, perform a detailed analysis of each corridor and determine which mitigation strategies are feasible

SECTION 4: System Monitoring—Track congestion trends and changes to transportation characteristics over time

SECTION 5: Data Collection & Inventory—A display of ongoing data collection activities that relate to congestion.



| CMS Corridor | Project Name |
|--------------|---|
| #1 | Elkton Road: Casho Mill Rd to Delaware Ave, Reconstruction, Improve Intersection |
| #1 | Elkton Road: MD Line to Casho Mill Rd, Reconstruction, Intersection Improvements |
| #1 | Pomeroy Trail, Construction of Bicycle & Pedestrian Pathway |
| #1, 4, 6 | Third Rail Track Expansion, Newark to Wilmington |
| #2 | US 40 and 896 interchange - Grade Separated Intersection |
| #3 | Road A/SR7, Widening & reconfiguration of intersections |
| #3 | SR 7: Newtown Road to SR 273, Widen from 2 to 4 lanes |
| #6 | S Union Street, SR 2: Railroad Bridge to Sycamore St, Sidewalk & Curb Replacement |
| #6 | Wilmington Riverfront |
| #6, 7, 8 | Wilmington Signal Improvements, Phase III |
| #8 | I-95 and US 202 Interchange, Widening of Ramp |

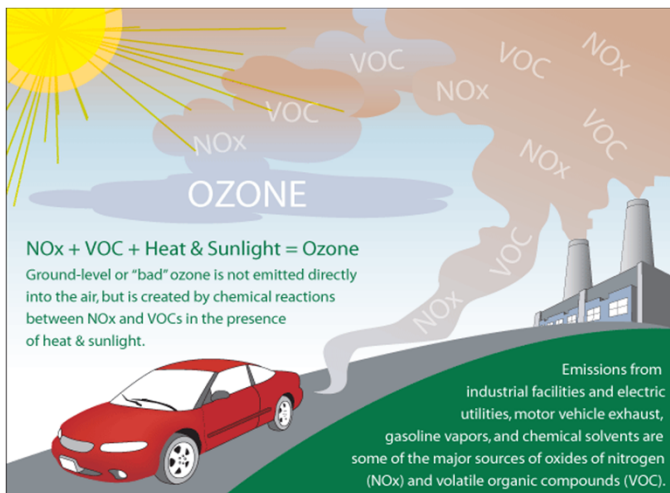
Air Quality Conformity

In order to receive federal funding for transportation projects, we must show that our planned projects do not worsen air emissions. A recent analysis was completed in step with the FY 2015 -18 TIP and amended 2040 RTP for New Castle County. While Cecil County is in nonattainment for ozone, we are able to rely on last year's analysis for this TIP.

In the conformity analysis, we test planned transportation projects, forecasted demographics, and known technological upgrades in the vehicle fleet against Delaware's established on road transportation-related emission budgets. Budgets are in place for ozone—nitrogen oxides (NO_x) and volatile organic compounds (VOC)—in both our counties. The good news is that we passed all required tests. Indeed, ozone and particulate emissions have been falling steadily for the last several decades, and are projected to continue to do so through 2035.

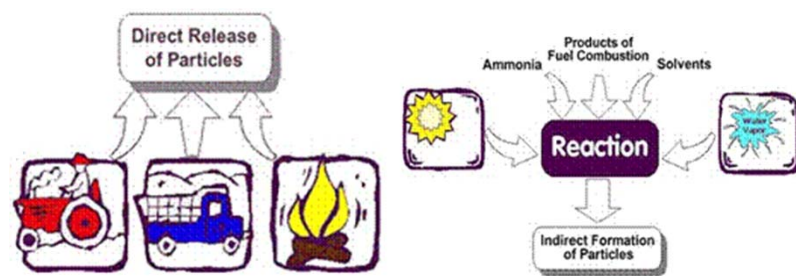
Like many other metropolitan regions in the USA, however, we predict an increase in these emissions as we near 2040. This is attributable to the implementation of known emission reduction technologies and our ever-increasing Vehicle Miles Traveled (VMT). Checking VMT growth through better land-use decisions and promoting alternative transportation would lower emissions now and in the long-term. This would also stifle our rising greenhouse gas emissions which contribute to global warming, and reduce our dependence on oil.

Ozone formation & impacts

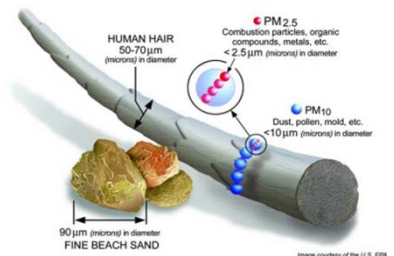


Breathing ozone can trigger a variety of health problems including chest pain, coughing, throat irritation, and congestion. It can worsen bronchitis, emphysema, and asthma. Ground level ozone also can reduce lung function and inflame the linings of the lungs. Repeated exposure may permanently scar lung tissue. Plants and wildlife are also at risk because high ozone levels can stunt plant growth and damage leaves.

Fine particulate formation & impacts



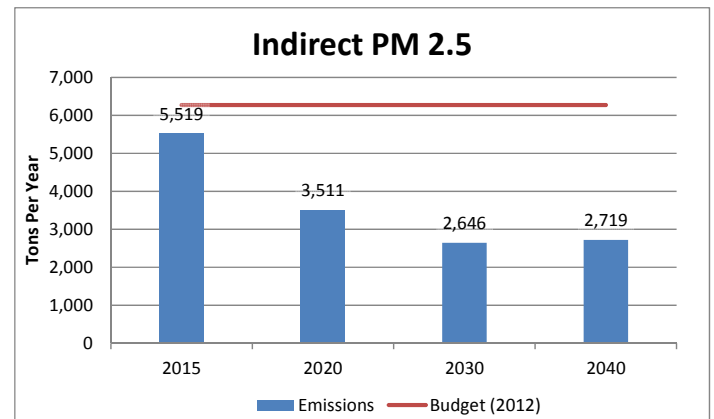
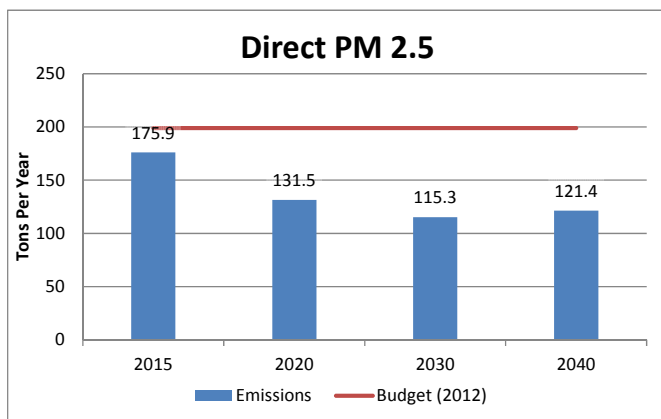
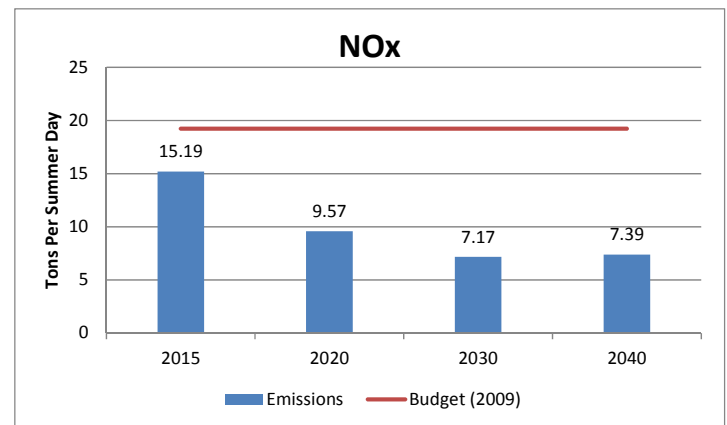
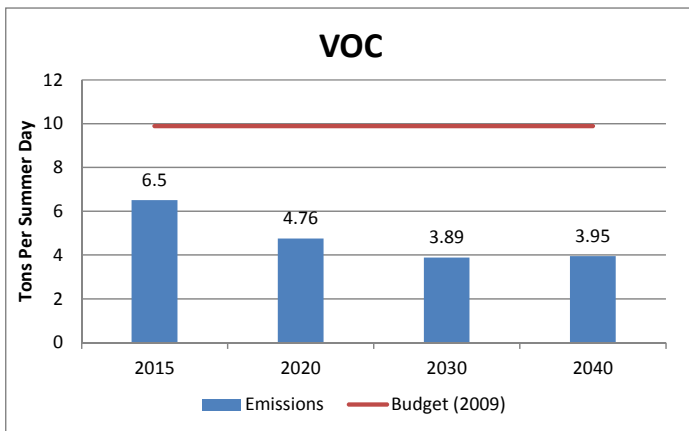
Irritating the membranes of the respiratory system, particulate matter can result in increased respiratory problems and disease, decreased lung function, alterations of the body's defense systems, and early death. Particulates can also cause reduced driver visibility (haze), cause harm to the natural environment by settling into water, and stain monuments and buildings.



Conformity Analyses

New Castle County

New Castle County is in nonattainment for both of ozone and fine particulate matter (PM_{2.5}). The graphs below show that the planned transportation system for the county meets all applicable budgets.



Environmental Justice

Environmental Justice (EJ) entails the fair treatment of people from all races, cultures, and incomes regarding the development of environmental laws, regulations, and policies. An outgrowth of Title VI of the Civil Rights Act of 1964, EJ can primarily be thought of as measures ensuring the non-discriminatory distribution of federal funds.

□ 2007 Transportation Justice (TJ) Report

- ▣ Delineated concentrations of elderly, disabled, and zero-car households
- ▣ System analysis (transit access, walkability, senior survey, etc.)
- ▣ Provided funding sources, public outreach measures
- ▣ 2014 TJ Report update underway!

□ 2013 EJ Report

- ▣ Refines EJ area identification process
- ▣ New systems analysis: food deserts, bus access, project spending
- ▣ EJ public opinion survey



Current EJ Initiatives

- South Wilmington Planning Network
- Edison Safe Routes to School Program
- Wilmington Asthma Action Plan
- Urban Bike Project Support



Photos: U.S. Census