

TECHNICAL ADVISORY COMMITTEE MEETING
March 21, 2019

A meeting of the Technical Advisory Committee (TAC) was held on Thursday, March 21, 2019, at WILMAPCO, The Tower at STAR Campus, 100 Discovery Boulevard, Suite 800, Newark, DE 19713.

1. CALL TO ORDER: Mr. David Dahlstrom, Maryland Department of Planning, brought the TAC meeting to order at 10:00 a.m.

2. TAC Members present:

Benjamin Allen, Maryland State Highway Administration
Tricia Arndt, Delaware Office of State Planning
Ian Beam, Maryland Department of Transportation
Cooper Bowers, Delaware Department of Transportation
Alex Brun, Maryland Department of the Environment (via conference call)
David Dahlstrom, Maryland Department of Planning
Tony Di Giacomo, Cecil County Land Use and Development Services
Mike Fortner, City of Newark Planning and Development Department
Gwinneth Kaminsky, City of Wilmington Planning and Development
Jeanne Minner, Town of Elkton
Brian Mitchell, City of Wilmington Department of Public Works
Owen Robatino, New Castle County Department of Land Use
Catherine Smith, Delaware Transit Corporation

TAC Ex-Officio Members present:

Lindsay Donnellon, U.S. Federal Highway Administration (via conference call)

TAC Members absent:

Delaware Department of Natural Resources and Environmental Control
Delaware Division of Small Business, Development, and Tourism
Delaware River and Bay Authority
Maryland Transit Administration

TAC Ex-Officio Members absent:

Amtrak
Diamond State Port Corporation
U.S. Environmental Protection Agency
U.S. Federal Transit Administration

Guests and Invitees:

Stephen O'Connor, Cecil County Dept. of Land Use & Development Services
Kevin Racine, Citizen
Joshua Thomas, DelDOT

Staff:

Dan Blevins, Principal Planner
Janet Butler, Administrative Assistant
Heather Dunigan, Principal Planner
Sharen Elcock, Executive Assistant
Dave Gula, Principal Planner

Randi Novakoff, Outreach Manager
Bill Swiatek, Principal Planner
Jacob Thompson, Transportation Planner
Tigist Zegeye, Executive Director

Minutes prepared by: Janet Butler

3. MINUTES

The February 21, 2019 TAC minutes were approved.

ACTION: On motion by Mr. DiGiacomo and seconded by Ms. Smith, the TAC approved the February 21, 2019 minutes.

Motion passed.

(3-21-19 - 01)

4. SUBCOMMITTEE UPDATES

None.

5. PUBLIC COMMENT PERIOD

None.

ACTION ITEMS:

None.

PRESENTATION/DISCUSSION ITEMS:

6. FY 2020 Unified Planning Work Program

Ms. Zegeye distributed the FY 2020 UPWP state/local cash commitment resolution and financial information (**Attachment A**). She said on page III-1, the local match is different for the FY 2020 UPWP, which includes funds from FHWA, FTA, and the States. DelDOT has agreed to give WILMAPCO cash in the total amount of \$403,632 to cover the needed local match. However, in Maryland \$8,207 of in-kind services will be used as part of the local match. Staff is working with the Cecil County member agencies to get some additional cash; however, if we cannot get it, we will have an agreement with them to use in-kind services.

Ms. Zegeye said the consultant costs in the FY 2020 UPWP (page III-3) are:

- Bookkeeping (\$10,000)
- Urban Bike Project: Earn a Bike & Trip for Kids Program (\$3,000)
- Newark Bike Project (\$2,500)
- Intersections Counts – Regional (\$25,000)
- Regional Modeling Support (\$20,000)
- Congestion Management System (CMS) Consultant Support (\$353,000)
- University of Delaware Park and Ride (\$10,000)
- Regional Transportation Performance Measurement Development (\$30,000)
- Churchmans Crossing Plan Update (\$400,000)
- Governor Printz Boulevard Corridor Study (\$50,000)
- Newport Transportation Plan (\$60,065)
- New Castle County-Route 40 Program Development Support (\$20,218)

The total amount for consultant costs is \$675,183. The three new projects include Churchmans Crossing Plan update, Governor Printz Boulevard Corridor Study, and the Newport Transportation Plan.

The FY 2020 UPWP will be available for public comment from April 3 to May 3, 2019. Staff will seek TAC's recommendation for approval in April, and Council's approval in May. Then staff will submit the FY 2020 UPWP to FHWA and FTA, and implementation would be on July 1, 2019.

Mr. Mitchell asked if the Governor Printz Boulevard project includes North East Boulevard. Ms. Zegeye said we have not looked into that yet. Mr. Di Giacomo asked if there is a road diet planned for Governor Printz. Ms. Zegeye said that idea has been discussed. She added the reason we are doing this plan is to put all of the ideas together to show what needs to be done for the corridor. Mr. Dahlstrom asked about the frequency of the traffic counts. Ms. Zegeye responded they are annual counts in addition to supplemental counts for specific UPWP projects.

7. Project Prioritization for the FY 2021-2024 Transportation Improvement Program

Ms. Dunigan distributed the draft FY 2021-2024 TIP Project Prioritization Technical Scores (**Attachment B**). DelDOT has made WILMAPCO aware that there is Delaware legislation proposed to change the requirement for DelDOT updates to the Capital Transportation Program from annually to biennially. If approved, this would lead WILMAPCO to adjust our TIP development schedule. However, staff is planning to forge ahead unless we hear something different from DelDOT. Ms. Dunigan notes that the draft Technical Scores were recently updated and approved as part of the 2050 Regional Transportation Plan (RTP), and the TIP project list came from the RTP. TAC action is expected to be at the April meeting with Council prioritizing projects at their May meeting.

Mr. Di Giacomo questioned why I-95/Belvidere Road Interchange, received a minus three score. Ms. Dunigan replied that any project adding capacity such as an interchange gets a minus three score. Ms. Zegeye said that the Air Quality Subcommittee (AQS) approved the project in the RTP, and that Mr. Di Giacomo does not need to be concerned because it is the only project in Cecil County and it would be considered number one.

Ms. Kaminsky asked why Wilmington Traffic Calming on the 12th Street Connector got a minus one score, because it is in an EJ neighborhood. Ms. Dunigan agreed that minus one may not be the correct score, and that the score would be revisited.

Ms. Minner commented that the Elkton Train Station and Maryland Commuter Rail projects benefit TJ areas, yet received a zero. Mr. Swiatek responded that this could be because the Elkton Train Station itself is not in a TJ area, but staff will revisit those scores. Mr. Dahlstrom asked if the EJ boundaries are defined by Census data. Mr. Swiatek replied yes.

8. Transportation Justice (TJ) Equity Analysis

Mr. Swiatek said this TJ Equity Analysis is an update of the work WILMAPCO has done with Title VI and Environmental Justice (EJ). The ongoing TJ Study includes low-income and racial/ethnic minorities, seniors, the disabled, zero car households, limited English proficiency, and low-literacy populations.

A spatial analysis is being completed for Title VI/EJ areas, which is the subject of today's presentation. EJ areas are used in the WILMAPCO project prioritization process. Projects in EJ areas are scored. The EJ area definitions have historically come from an analysis of census

data. This time around, WILMAPCO is using the block group level census data as a foundation but is also supplementing it with affordable housing development data and school district data on the student demographics.

According to the WILMAPCO Public Opinion Survey, low-income and black residents were more likely to report transportation difficulties. One action from the RTP is to generate more beneficial projects within EJ communities.

An analysis of TIP project spending within areas of ethnic/racial and poverty concentration found that black neighborhoods received 38% less spending than expected (based on the population of those concentrations) on community projects since the FY 2002 TIP.

An analysis of the average demographic makeup of WILMAPCO sub-regional studies indicated that since 1999, the demographics of the average study area was about the same as the region. Further, there were 15 plans within black concentrations and nine plans (60%) in 2013 or later.

Total crashes were analyzed using 2016 data. Expressway crashes were also excluded. Total crashes were about what we would expect, compared to the population of our ethnic/racial and poverty concentrations. However, black neighborhoods had particularly high pedestrian and bicycle crash rates.

The Electric Vehicle (EV) charging stations were also measured. As of 2019, there were 21 in the region. Staff tagged Census Block Groups with EV stations and calculated racial/ethnic and the poverty makeup of those places versus the regional average. Whites were overrepresented in neighborhoods with EV stations.

Travel Times for commutes less than 30 minutes were also counted. The 30-minute travel times were found in areas of racial/ethnic and poverty concentrations and were compared to the regional average. Our Title VI/EJ neighborhoods generally had lower travel times on the various modes than average.

Another equitable category was transportation and housing costs affordability, which used the Center for Neighborhood Technology data, transportation/housing costs for lower-income household (80% of median income). Generally, neighborhoods within racial/ethnic and poverty concentrations are more affordable than average for a lower-income household. However, the analysis found that only 6% of high poverty neighborhoods have affordable transportation costs; 58% of high poverty neighborhoods have affordable housing costs; and one fourth of high poverty neighborhoods have equal or higher transportation costs than housing costs. Transportation costs are generally high in the WILMAPCO region, given its suburban, car dependent character.

Next steps for the TJ Equity Analysis are to continue to complete the outreach recommendations for Title VI/EJ; complete the Connectivity Analysis (CADSR data) and Mobility-Challenged Chapter (technical analysis/outreach recommendations); and work toward WILMAPCO Council endorsement by November 2019.

Mr. DiGiacomo said he worked on the Community Highway Safety Plan, and that some of the bike/pedestrian crashes data from a complete streets perspective seems to be counter-intuitive. Would not most crashes occur in suburban areas with poor infrastructure? Mr. Swiatek said urban streets are more complete, but there are many more people who are walking there and

they are doing so on streets that still prioritize cars. So, there are more crashes in Wilmington. However, there are fewer fatalities as the speeds are lower.

Mr. Dahlstrom asked about what people spend on transportation and housing. He wondered if the data includes people who are working or retired, because someone who is retired would probably have different spending amounts than someone who is working. Mr. Swiatek responded that this is an across-the-board (regional) measure. We used 80% of that measure to simulate a lower-income household and compared that to average housing/transportation costs.

Mr. Dahlstrom asked about the amount of funding in the black neighborhoods, and what would the percentage be if all unfunded projects were funded. He also asked would it make a difference. Mr. Swiatek responded that the team had not looked that deep into that yet.

Mr. Mitchell asked if there is an overlay to show race and low-income numbers – if low-income status was a driver of the inequities. Mr. Swiatek responded that there is an overlap between one and the other in several concentrations, but black areas still did worse on several measures than high poverty areas when considered separately.

9. Air Quality Partnership (AQP) of Delaware

Ms. Novakoff distributed Air Quality Awareness Week flyers and the Tropo Activity Book (**Attachment C**). She said the AQP has been working with the Partnership of the Delaware Estuary and RideShare Delaware to coordinate Wilmington's Earth Day event at Rodney Square from 11:00 a.m. to 2:00 p.m., on April 17, 2019.

This event will be fun and interactive that will include a selfie station. The station includes a large wooden tree where kids can paint and put thumbprints on it, as well as take pictures with Tropo, the AQP mascot.

In addition, a press event will be held to announce an Air Quality Champion and present an award. Chesapeake Utilities, last year's winner, will present the award. Senator Carper will also present awards during the event.

The AQP is coordinating 2019 Air Quality Awareness Week from April 8 to 12, 2019 to promote the use of different modes of transportation each day. The week also includes a selfie contest (Flyers are available). RideShare Delaware has developed a Social Media Tool Kit, which is being shared among partners.

Also featured are 30-second videos about the AQP that highlights various partners. These videos are shared on the website and social media. In addition, pre-recorded Tropo videos would be shown each day. Ms. Novakoff referred to the Tropo Activity Book that she had distributed to TAC, which is now available for download and use. She said Tropo would be present at Air Quality Partnership events and at Bike-to-School and Walk-to-School events. The AQP is continuing to look for more funding and event opportunities.

Ms. Kaminsky asked who plays the role of Tropo. Ms. Novakoff responded that Tropo is a professional actor employed by Bruce Productions, who has high-energy and signature moves.

INFORMATION ITEMS:**12. Staff Report**

Ms. Dunigan reported on the following plans and events:

- At the WILMAPCO Council meeting on March 7, 2019, the Council adopted the 2050 RTP including the FY 2050 RTP and FY 2020-2024 TIP Air Quality Conformity Determination for Cecil and New Castle Counties. The Council also amended the FY 2019-2022 TIP and adopted the FY 2020-2023 TIP.
- The Wilmington Initiatives (WI) Workshop for the 12th Street Connector and the U.S. EPA Brownfields Area-Wide Plan will be held on April 3, 2019, from 5:30 p.m. to 8:00 p.m., at the Achievement Center-Wilmington HOPE Commission, 38 Vandever Avenue (Flyers are available).
- The Seventh Street Peninsula Roadway public workshop will be held in April.
- Wilmington Initiatives (WI) representatives discussed the Twelfth Street project draft report yesterday.
- The North Claymont Area Master Plan Community Update was held on February 28, 2019.
- The Groundbreaking Ceremony for the Claymont Transportation Center was held on February 21, 2019.
- The Concord Pike Master Plan Public Workshop was held on March 20, 2019, which had 86 attendees.
- A Southern New Castle County (SNCC) Visioning Workshop was held on March 13, 2019, at the Middletown Fire Hall, which had 70 attendees.
- The Transportation Justice (TJ) Transportation Working Group met on March 1, 2019, at WILMAPCO.
- The Wilmington Resilience Plan Steering Committee meeting was held on March 13, 2019.
- Staff participated in the Newark Sustainability Plan Steering Committee meeting on March 18, 2019.
- The Route 9 Master Plan Monitoring Committee met on March 19, 2019.
- A Delaware Transit Corporation (DTC) Service Change Hearing was held at WILMAPCO on March 6, 2019.
- On March 13, 2019, the New Castle County Bicycle Plan meeting was held at WILMAPCO.
- A Safe Routes to School (SRTS) workshop was held with McCullough and Eisenburg Schools on March 5, 2019.
- The initial meeting with Bayard School regarding starting SRTS programs was held.
- The Earth Day Celebrations will be held on April 17, 2019, and during Air Quality Awareness Week, from April 8 through 12, 2019.
- Staff attended The Future Trails of Northern Delaware Coalition meeting on March 12, 2019.
- Staff will participate in Community Conversations about Land Use in New Castle County on March 28, 2019.
- The Mid-Atlantic Greenways and Trail Summit will be held April 4-6, 2019, in Philadelphia. Registration is still open until March 22, 2019.

OTHER BUSINESS:

None.

ADJOURNMENT:

The meeting adjourned at 11:15 a.m.

Attachments (3)

The Tower at STAR Campus
100 Discovery Blvd, Suite 800
Newark DE 19713
302-737-6205; Fax 302-286-7131
From Cecil County: 888-808-7088
e-mail: wilmapco@wilmapco.org
website: www.wilmapco.org

DRAFT RESOLUTION

WILMAPCO Council:

John Sisson, Chair
*Delaware Transit Corporation
Chief Executive Officer*

Robert J. Alt
Mayor of Elkton

Jennifer Cohan
*Delaware Dept. of Transportation
Secretary*

Connie C. Holland
*Delaware Office of State Planning
Coordination, Director*

Alan McCarthy
Cecil County Executive

Matthew Meyer
New Castle County Executive

Heather Murphy
*Maryland Dept. of Transportation
Director, Office of Planning and
Capital Programming*

Michael S. Purzycki
Mayor of Wilmington

Michael Spencer
Mayor of Newport

WILMAPCO Executive Director
Tigist Zegeye

BY THE WILMINGTON AREA PLANNING COUNCIL ADOPTING THE STATE/LOCAL CASH COMMITMENT WHEN MATCHING WILMAPCO'S FEDERAL FUNDS FOR FY 2020 UNIFIED PLANNING WORK PROGRAM

WHEREAS, WILMAPCO receives federal funding from the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) to support transportation planning activities; and,

WHEREAS, all federal funds must be matched by twenty percent (20%) State/Local funds; and,

WHEREAS, federal regulations permit State/Local matching to be made either in cash or by way of "in-kind services", or soft match; and,

WHEREAS, WILMAPCO requires certain of the matched funds to be made in cash in order to ensure that WILMAPCO's cash obligations may be met; and

WHEREAS, the agreed upon cash commitment have been \$12,607 from the State of Maryland in cash with minimum cash matches of \$4,400 from Cecil County, \$403,632 from the State of Delaware, \$31,500 from New Castle County and \$11,796 from the City of Wilmington, with any remaining matching obligation made either in cash or by in-kind services;

NOW, THEREFORE, BE IT RESOLVED that the WILMAPCO Council does hereby adopt the State/Local Cash Commitment when matching WILMAPCO's federal funding for fiscal year 2020 UPWP, as outlined above.

Date: _____

John Sisson, Chairperson
Wilmington Area Planning Council

FY 2020
Unified Planning Work Program

III FY 2020 UPWP FINANCIAL INFORMATION

FY 2020 UPWP FUNDING ANALYSIS
TOTAL FUNDS AVAILABLE
and
TOTAL CASH COMMITMENT

DRAFT

SOURCE	COST SHARE	CASH SHARE	
DELAWARE			
FHWA	\$1,444,232	\$1,444,232	
FTA	\$343,479	\$343,479	
STATE	\$223,464	\$403,632	
NEW CASTLE COUNTY	\$191,017	\$31,500	
CITY OF WILMINGTON	\$32,447	\$11,796	
DELAWARE TOTAL	\$2,234,639	\$2,234,639	
MARYLAND			IN-KIND
FHWA	\$74,880	\$74,880	
FTA	\$25,975	\$25,975	
STATE	\$12,607	\$12,607	
CECIL COUNTY	\$12,607	\$4,400	\$8,207
MARYLAND TOTAL	\$126,069	\$117,862	\$8,207
GRAND TOTAL	\$2,360,708	\$2,352,501	\$8,207

**FY 2020
Unified Planning Work Program**

DRAFT

FY 2020 UPWP FUNDING OUTLINE

Task #	Task Description	Cash Activity	In-kind Activity	Total
MPO 20.01	Administration	\$290,023	\$1,549	\$291,572
MPO 20.02	Unified Planning Work Program (UPWP)	\$86,703	\$480	\$87,183
MPO 20.03	Public Outreach & Public Education	\$197,988	\$1,065	\$199,053
MPO 20.04	Data Collection, Management & Distribution	\$102,147	\$316	\$102,464
MPO 20.05	Regional Planning & Technical Analysis	\$175,711	\$557	\$176,268
MPO 20.06	Air Quality Coordination & Analysis	\$50,205	\$278	\$50,483
MPO 20.07	New Federal Regulation Compliance	\$72,503	\$401	\$72,904
MPO 20.08	Goods Movement Plan Implementation	\$43,927	\$243	\$44,170
MPO 20.09	Regional Coordination	\$135,258	\$748	\$136,006
MPO 20.10	RTP Implementation	\$98,432	\$545	\$98,977
MPO 20.11	Sub-Regional Studies and Coordination	\$705,279	\$1,030	\$706,310
MPO 20.12	Transportation Improvement Program (TIP)	\$77,304	\$428	\$77,732
MPO 20.13	Monitoring of Sub-Regional Studies Implementation	\$122,966	\$566	\$123,533
TOTAL		<u>\$2,158,446</u>	<u>\$8,207</u>	<u>\$2,166,653</u>
Vacation and Holiday		\$194,055		\$194,055
Grand Total		\$2,352,501	\$8,207	\$2,360,708

**FY 2020
Unified Planning Work Program**

DRAFT

WILMAPCO Consultant Costs (included in cash activity above) 2020

MPO 20.01	BOOKKEEPING	\$10,000
MPO 20.03	URBAN BIKE PROJECT: EARN A BIKE & TRIP FOR KIDS PROGRAM	\$3,000
MPO 20.03	NEWARK BIKE PROJECT	\$2,500
MPO 20.04	INTERSECTIONS COUNTS - REGIONAL	\$25,000
MPO 20.04	REGIONAL MODELING SUPPORT	\$20,000
MPO 20.05	CONGESTION MANAGEMENT SYSTEM CONSULTANT SUPPORT	\$35,000
MPO 20.05	UNIVERSITY OF DELAWARE PARK & RIDE	\$10,000
MPO 20.05	REGIONAL TRANSPORTATION PERFORMANCE MEASUREMENT DEVELOPMENT	\$30,000
MPO 20.11	CHURCHMANS CROSSING PLAN UPDATE	\$400,000
MPO 20.11	GOVERNOR PRINTZ BOULEVARD CORRIDOR STUDY	\$50,000
MPO 20.11	NEWPORT TRANSPORTATION PLAN	\$60,065
MPO 20.13	NCC-ROUTE 40 PROGRAM DEVELOPMENT SUPPORT	\$20,618
		\$675,183

4

	C	County	Project Name	D	F	G	I	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
					FY 2020 TIP Status	2050 RTP	AQ Model Year	Air Quality	EJ	Safety	CMS Corridor	CMS ADT	CMS Transit	TJ	Pedestrian	Freight	Economic	Funding Match	Technical Score
1			Projects in FY 2020 - 2023 TIP																
2			Bicycle / Pedestrian																
3			US 13: US 40 - Memorial Drive																
4	NCC				Yes	2025		3	1	4	2	3	3	0	3	4	3	0	26
5			Multimodal																
6	NCC				Yes	2022		0	0	4	2	2	3	0	3	2	3	0	19
7	NCC				Yes	2020		1	3	2	2	0	2	0	3	2	3	0	18
8	NCC				Yes	2024		0	3	1	2	2	2	0	3	2	3	0	18
9	NCC				Yes	2023		1	3	2	2	0	2	0	3	2	3	0	18
10	NCC				Yes	2025		0	0	4	2	2	2	0	3	2	3	0	18
11	NCC				Yes	2021		0	0	4	2	2	2	0	1	2	3	0	16
12	NCC				Yes	2030		0	0	3	2	2	3	0	1	2	3	0	16
13	NCC				Yes	2030		0	0	3	2	3	2	0	1	2	3	0	16
14	NCC				Yes	2030		1	1	2	0	0	0	3	3	2	3	0	15
15	NCC				Yes	2050	2050	-3	0	4	2	2	1	0	3	3	3	0	15
16	NCC				Yes	2021		3	0	0	0	0	0	3	3	2	3	0	14
17	NCC				Yes	2021	2030	-3	0	4	2	2	1	0	1	3	3	0	13
18	NCC				Yes	2021		-1	0	4	2	2	1	0	1	1	3	0	13
19	NCC				Yes	2024	2030	-3	1	4	2	2	1	0	0	2	3	0	12
20	NCC				Yes	2022	2030	-3	0	3	1	0	2	0	3	2	3	0	11
21	NCC				Yes	2025	2030	-3	0	4	2	2	0	0	1	2	3	0	11
22	NCC				Yes	2022		-1	0	3	0	0	0	0	0	4	3	0	9
23	NCC				Yes	2021		1	1	0	0	0	0	0	3	0	3	0	8
24	NCC				Yes	2021	2030	-3	0	2	2	2	2	0	0	0	3	0	8
25	NCC				Yes	2040	2040	-3	0	3	1	2	0	0	0	2	3	0	8
26	NCC				Yes	2030	2030	1	1	0	0	0	0	1	1	0	3	0	7
27	NCC				Yes	2030	2030	1	1	0	0	0	0	1	1	0	3	0	7
28	NCC				Yes	2024	2030	-1	0	3	0	0	0	0	0	0	1	3	6
29	NCC				Yes	2020		1	0	2	0	0	0	0	1	0	1	0	5
30	NCC				Yes	2030	2030	1	0	0	0	0	0	0	1	0	3	0	5
31	NCC				Yes	2020		0	0	0	0	0	0	0	1	0	3	0	4
32	NCC				Yes	2024		0	0	0	0	0	0	0	0	0	1	3	4
33	NCC				Yes	2020	2030	-3	0	0	0	0	0	0	3	0	3	0	3
34	NCC				Yes	2021	2030	-3	0	2	0	0	0	0	0	2	1	1	3
35	NCC				Yes	2030		1	0	0	0	0	0	1	0	0	1	0	3
36	NCC				Yes	2024		-1	0	0	0	0	0	0	0	0	1	2	2
37	NCC				Yes	2030		0	0	0	0	0	0	0	1	0	1	0	2
38	NCC				Yes	2022		0	0	0	0	0	0	0	0	0	1	0	1
39	NCC				Yes	2021	2030	-3	0	0	0	0	0	0	0	0	3	0	0
40			Roadway																
41	NCC				Yes	2030	2030	-3	0	4	2	4	2	0	1	3	3	0	16
42	NCC				Yes	2025	2030	-3	0	4	2	2	1	0	1	3	3	0	13
43	NCC				Yes	2020		-3	0	3	2	4	0	0	0	4	3	0	13

C	County	Project Name	D	F	G	I	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
				FY 2020 TIP Status	2050 RTP	AQ Model Year	Air Quality	EJ	Safety	Corridor	CWIS ADT	CWIS Transit	TJ	Pedestrian	Freight	Economic	Funding	Technical Score
1	NCC	SR 1: Tybouts Corner - SR 273		Yes	2030	2030	-3	0	3	2	4	2	0	0	2	3	0	13
44	NCC	I-295, Northbound		Yes	2040	2040	-3	0	3	2	4	0	0	0	4	3	0	13
45	NCC	US 40/SR 7 Intersection		Yes	2040	2040	-3	0	4	2	2	1	0	1	2	3	0	12
46	NCC	US 301: MD State Line - SR 1		Yes	2020	2020	-3	0	3	1	0	0	0	0	3	3	0	7
47	NCC	SR 9, River Rd. Area, Dobbinville (viaduct)		Yes	2040	2040	0	0	0	0	0	0	3	1	0	3	0	7
48	NCC	SR 1: Tybouts Corner - Roth Bridge		Yes	2050	2050	-3	0	3	0	0	0	0	0	2	3	0	5
49	CC	I-95 / Belvidere Road Interchange		Yes	2025	2030	-3	0	0	0	0	0	0	0	3	3	1	4
50	CC	Ottis Chapel Rd/Welsh Track Rd Intersection		Yes	2030	2030	0	0	3	0	0	0	0	0	0	0	0	3
51	NCC	Valley Rd/Little Baltimore Rd/North Star Rd Intersection		Yes	2021	2021	0	0	0	0	0	0	0	0	0	1	0	1
52	NCC	SR 896 / Bethel Church Rd Interchange		Yes	2025	2030	-3	0	1	0	0	0	0	0	0	0	0	-2
53	NCC	Transit		Yes	2020	2020	3	3	2	2	2	2	0	3	2	3	2	24
54	NCC	Wilmington Transit Hub		Yes	2021	2021	3	0	0	2	4	3	0	3	4	3	0	22
55	NCC	Newark Regional Transportation Center, Phase II		Yes	2030	2030	3	0	3	2	2	3	0	0	0	3	0	16
56	NCC	Fairplay Train Station - Parking		Yes	2021	2021	3	0	0	0	0	0	0	0	0	3	0	6
57	NCC	New Castle County Transit Center		Yes	2021	2021	3	0	0	0	0	0	0	0	0	3	0	6
58	NCC	Projects not in FY 2020 - 2023 TIP																
59	NCC	Bicycle / Pedestrian																
60	NCC	East Coast Greenway: New Castle - Churchmans Crossing gaps		No	2024	2024	3	3	4	2	2	2	3	3	2	3	0	27
61	NCC	East Coast Greenway: Churchmans Crossing - Newark gaps (approx. 2)		No	2024	2024	3	1	4	2	2	2	1	1	3	3	0	22
62	NCC	Library Ave Pedestrian Improvements		No	2024	2024	1	0	3	2	2	1	0	3	3	3	0	18
63	NCC	Newark Bicycle Signal Detection		No	2024	2024	1	0	3	2	2	1	0	3	3	3	0	18
64	NCC	Newark Bicycle Lanes		No	2024	2024	1	0	3	2	2	1	0	3	3	3	0	18
65	NCC	Newark Mid-Block Pedestrian Crossing Improvements		No	2030	2030	1	0	3	2	2	1	0	3	3	3	0	18
66	NCC	Newark Pedestrian Improvements		No	2030	2030	1	0	3	2	2	1	0	3	3	3	0	18
67	NCC	US 40: SR 1 - US 13, Sidepaths		No	2026	2026	1	1	4	2	2	2	0	1	2	3	0	18
68	NCC	Commons Blvd Pathway		No	2024	2024	3	0	3	1	2	1	0	1	2	3	0	16
69	NCC	IBR 234, Kirkwood Highway over Mill Creek		No	2030	2030	1	0	1	2	2	3	0	1	3	3	0	16
70	NCC	RT 9 Neighborhood pathway network		No	2026	2026	1	1	2	0	0	0	3	3	2	3	0	15
71	CC	East Coast Greenway - Cecil County Phase 1		No	2024	2024	3	1	0	0	0	0	3	3	0	3	0	13
72	CC	East Coast Greenway - Cecil County Phase 2		No	2035	2035	3	1	0	2	0	0	3	1	0	3	0	13
73	CC	Augustine Cutoff Pathway		No	2022	2022	1	0	0	2	0	2	1	3	0	3	0	12
74	NCC	Old Baltimore Pike: SR 72 - SR 273, Sidepath		No	2030	2030	1	0	4	1	2	1	0	0	0	3	0	12
75	NCC	US 40: MD State Line to SR 896, Sidepaths		No	2030	2030	1	0	4	0	0	0	0	1	2	3	0	11
76	NCC	North Claymont Naamans Pathway		No	2030	2030	1	0	3	0	0	0	0	1	2	3	0	10
77	NCC	East Coast Greenway: Claymont Station - Northern Delaware		No	2028	2028	3	0	0	0	0	0	1	1	2	3	0	10
78	NCC	US 13: US 40 - Tybouts Corner, Sidepaths		No	2030	2030	1	1	3	0	0	0	0	0	2	3	0	10
79	NCC	DE 896: US 40 to Porter Road, Sidepaths		No	2030	2030	1	0	3	2	2	0	0	1	0	1	0	10
80	NCC	Glasgow Pathway: Porter Rd - Canal		No	2035	2035	1	0	3	2	2	0	0	1	0	1	0	10
81	NCC	East Coast Greenway: PA line to Claymont Regional Transportation		No	2022	2022	3	0	0	0	0	0	0	1	2	3	0	9
82	NCC	US 40: Newtown Trail & Pedestrian Improvements		No	2040	2040	1	0	0	0	0	0	0	1	3	3	0	8
83	NCC	North Claymont Sidewalk Upgrades		No	2024	2024	1	0	0	0	0	0	0	1	2	3	0	7
84	NCC	I-495 / US 13 Pedestrian Improvements		No	2024	2024	1	0	0	0	0	0	0	1	2	3	0	7
85	NCC			No	2024	2024	1	0	0	0	0	0	0	1	2	3	0	7

	C	D	F	G	I	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
	County	Project Name	FY 2020 TIP Status	2050 RTP	AQ Model Year	Air Quality	EJ	Safety	CMS Corridor	CMS ADI	CMS Transit	TJ	Pedestrian	Freight	Economic	Funding Match	Technical Score
1	NCC	Marshalltown Circulation Study - Gilbert Ave Sidewalk	No	2024		1	1	0	0	0	0	1	1	0	3	0	7
86	NCC	Marshalltown Circulation Study - New St Sidewalk	No	2024		1	1	0	0	0	0	1	1	0	3	0	7
87	NCC	Marshalltown Circulation Study - Newport Rd Sidewalk	No	2024		1	1	0	0	0	0	1	1	0	3	0	7
88	NCC	Marshalltown Circulation Study - Newport Rd Sidewalk	No	2024		1	1	0	0	0	0	1	1	0	3	0	7
89	NCC	Red Clay Creek Greenway through Marshalltown	No	2030		1	1	0	0	0	0	1	1	0	3	0	7
90	NCC	North Claymont I-495 Pedestrian Bridge	No	2050		1	0	0	0	0	0	0	1	2	3	0	7
91	NCC	Harvey Road and Sconset Road Pedestrian Improvements	No	2022		1	0	0	0	0	0	1	1	0	3	0	6
92	NCC	Multimodal															
93	NCC	S. College Ave Gateway	No	2028		1	0	4	2	3	1	0	3	3	3	0	20
94	NCC	Delaware Avenue Extension to Marrows Rd	No	2022		-1	0	3	2	2	1	0	3	2	3	4	19
95	NCC	Signal Coordination - S. College Ave	No	2028		0	0	3	2	3	1	0	3	3	3	0	18
96	NCC	Churchmans Crossing Sidewalks & Bus Stop Improvements	No	2030		1	0	4	2	2	2	0	1	3	3	0	18
97	NCC	SR 4 / Harmony Road Intersection	No	2030		0	0	4	2	2	3	0	1	3	3	0	18
98	NCC	Delaware Avenue Separated Bicycle Facility	No	2022		1	0	3	2	2	1	0	3	2	3	0	17
99	NCC	US 40 Overpass of Norfolk Southern RR near SR 72	No	2045		0	0	4	2	2	1	0	1	4	3	0	17
100	CC	MD 213 / US 40 Intersection Improvements	No	2030		0	0	3	2	3	0	3	3	0	3	0	17
101	NCC	SR 4 / Churchmans Road Intersection	No	2040		0	0	4	2	1	3	0	1	3	3	0	17
102	NCC	Support for shared ride services	No	2024		3	0	0	2	0	0	3	0	0	3	2	13
103	NCC	Support for shared ride services	No	2040		3	0	0	2	0	0	3	0	0	3	2	13
104	NCC	Winnington Traffic Calming; 12th St. Connector	No	2025		1	-1	3	0	0	0	0	3	3	0	3	12
105	NCC	I-95 / Naamans Road Diverging Diamond	No	2040		0	3	3	0	1	2	1	0	2	3	0	12
106	NCC	Old Baltimore Pike / Salem Church Rd Intersection	No	2020		0	0	4	1	2	1	0	0	0	3	0	11
107	NCC	Maryland Ave. / Monroe Street	No	2025		0	0	0	2	0	3	0	3	0	3	0	11
108	CC	MD 213, Bridge St. US 40 - MD 279	No	2036		0	0	0	2	0	0	3	3	0	3	0	11
109	NCC	Eagle Run Road: SR 273 - SR 7	No	2020	2030	-3	0	3	1	2	1	0	1	0	3	2	10
110	NCC	Governor Printz Boulevard Road Diet	No	2030		3	0	0	0	0	0	1	1	2	3	0	10
111	NCC	Eagle Run Rd to Continental Drive Connector	No	2040	2040	-3	0	3	1	2	1	0	1	0	3	2	10
112	NCC	Support for new technologies	No	2024		3	0	3	0	0	0	0	0	0	3	0	9
113	NCC	North Claymont Spine Road	No	2030		-1	0	0	0	0	0	0	1	2	3	4	9
114	NCC	SR 9, New Castle Ave: 3rd St - Landers Ln	No	2030		1	0	0	0	0	0	0	3	2	3	0	9
115	NCC	Support for new technologies	No	2035		3	0	3	0	0	0	0	0	0	3	0	9
116	NCC	Support for shared ride services	No	2025		3	0	0	0	0	0	3	0	0	3	0	9
117	NCC	West Park Place Traffic Calming	No	2030		1	0	2	0	0	0	0	3	0	3	0	9
118	NCC	Support for new technologies	No	2040		3	0	3	0	0	0	0	0	0	3	0	9
119	NCC	I-495 / US 13 Improvements	No	2035		1	0	0	0	0	0	0	1	2	3	0	7
120	NCC	US 13: I-495 - PA Line	No	2040		1	0	0	0	0	0	0	1	2	3	0	7
121	NCC	North Claymont Ridge Road	No	2024		0	0	0	0	0	0	0	1	2	3	0	6
122	NCC	North Claymont Society Drive	No	2024		0	0	0	0	0	0	0	1	2	3	0	6
123	NCC	Hickman Road Improvements	No	2024		0	0	0	0	0	0	0	1	2	3	0	6
124	NCC	Naamans / Philadelphia Pike Access Management	No	2024		0	0	0	0	0	0	0	1	2	3	0	6
125	NCC	US 13 / Naamans Road Intersection	No	2035		0	0	0	0	0	0	0	1	2	3	0	6
126	NCC	North Claymont Access Road	No	2035		0	0	0	0	0	0	0	1	2	3	0	6
127	NCC	I-95 / Naamans Road Improvements	No	2050		0	0	0	0	0	0	0	1	2	3	0	6

	C	D	F	G	I	Q	R	S	T	U	V	W	X	Y	Z	AA	AB
1	County	Project Name	FY 2020 TIP Status	2050 RTP	AQ Model Year	Air Quality	EJ	Safety	CMS Corridor	CMS ADP	CMS Transit	TJ	Pedestrian	Freight	Economic	Funding Match	Technical Score
128	NCC	Harvey Road Traffic Calming	No	2036		1	0	0	0	0	0	1	1	0	3	0	6
129	NCC	New Sweden Road Extension (South Wilmington)	No	2040		-1	1	0	0	0	0	0	3	0	3	0	6
130	NCC	Wyoming Rd and Marrows Road Access Management	No	2036		0	0	0	0	0	0	0	3	0	3	0	6
131	NCC	Wiggins Mill Road	No	2030		-1	0	0	0	0	0	0	0	0	1	4	4
132	CC	MD 272: US 40 - Lums Rd.	No	2040	2050	-3	0	0	0	0	0	0	3	0	3	0	3
133		Roadway															
134	NCC	SR 141 & I-95 Interchange	No	2040	2030	-3	0	3	1	4	0	0	0	4	3	0	12
135	NCC	US 301: Spur	No	2030	2030	-3	0	3	1	2	0	0	0	3	0	0	6
136	CC	I-95: Susquehanna River - DE Line	No	2040	2040	-3	0	3	0	0	0	0	0	0	3	0	3
137	CC	I-95 / MD 222 Interchange	No	2040	2040	-3	0	0	0	0	0	0	1	0	3	0	1
138		Transit															
139	CC	Elkton Bus Service Circulator	No	2030		3	1	0	0	0	0	3	3	3	3	2	18
140	NCC	Newark Transit Amenities and Service Modification	No	2024		1	1	0	2	2	1	1	3	3	3	0	17
141	NCC	Transit service expansion and frequency enhancements	No	2024		3	3	0	0	0	0	3	0	0	3	0	12
142	NCC	Transit service expansion and frequency enhancements	No	2030		3	3	0	0	0	0	3	0	0	3	0	12
143	NCC	Transit service expansion and frequency enhancements	No	2040		3	3	0	0	0	0	3	0	0	3	0	12
144	NCC	Newport Rail Station	No	2030		3	0	1	0	0	0	1	3	0	3	0	11
145	NCC	North Claymont Bus Enhancements	No	2024		3	0	0	0	0	0	0	1	2	3	0	9
146	CC	Maryland Commuter Rail: Perryville to Elkton	No	2029		3	0	0	0	0	0	0	0	3	3	0	9
147	CC	Elkton Train Station	No	2036		3	0	0	0	0	0	0	3	0	3	0	9
148	NCC	North Claymont / SEPTA Bus Transit	No	2024		0	0	0	0	0	0	0	1	2	3	0	6
149	NCC	Rail - Newark to Elkton	No	2030		3	0	0	0	0	0	0	0	0	3	0	6

who is tropo?

Tropo is the character for the Air Quality Partnership of Delaware. He is out to teach kids young and old the importance of **taking care of the air**. Tropo also encourages all of his fans to become a **Tropo Trooper** by going to his website and taking the pledge to agree to **clean-air practices**.

book tropo

Tropo is available to entertain and educate the people of Earth about the importance of good air quality and how to achieve it!

Call: 302.737.6205

Visit www.TropoNose.org and



Like us on [Facebook.com/TropoNose](https://www.facebook.com/TropoNose)

**Official
Tropo
Trooper**

Take the
official pledge
inside!

Help Tropo Clean the Air

the air quality index

good

moderate

health watch day

unhealthy for sensitive groups

air quality action days

unhealthy for everyone

Activity Book

tropo's story

Far, far away from Earth in another galaxy is a planet called Sora which has six moons. On these moons lived various creatures who used to go about their business using the home planet of Sora for all of her resources without any thought to what they were doing to the planet. Eventually, Sora began to change. The air became thicker, the water less clear, and it was obvious something had to be done. Leaders and scientists from the six moons saw an opportunity for everyone to pitch in and save Sora.

After much time and work, there was a noticeable difference! The air looked clearer, smelled sweeter and felt more refreshing.

One day, the leaders selected a representative from each of Sora's six moon colonies to go out into the universe in search of planets that could benefit from what they had learned. Tropo comes from the third moon and is an expert on air quality. Tropo has come to Earth on a mission to guide the people of this planet to make positive changes. If we all work together, we can help clean the air and make Earth a better place to live.

BECOME A TROPO TROOPER AND TAKE THE AIR QUALITY PLEDGE

I hereby say, dirty air must go away.
To keep it fresh is what we shall do
And make the Earth better for me and you.

Tropo's AQI serves as our guide
If levels are RED just stay inside.
It is safe to play, when levels are GREEN
That's how we know the air is clean.

So, carpool, walk and ride a bike
to help keep the air pure,
the way we like.

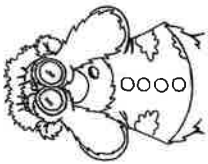


Making clean air is
just super dooper
This is my pledge as a
loyal Tropo-Trooper!

CUT OUT HERE

* I have taken the official
Air Quality Pledge and
have earned the rank of
TROPO TROOPER!

TROOPER SIGNATURE



word find

Look carefully! Words go UP, DOWN, DIAGONALLY and BACKWARDS!

T A A C U C I P T A W Y V R S F N G E S T N V G U
S A S T H A A T T A C K N I X W T V T G Z K P D
A D Z E R A G R E E N I S G O O D V H X W S O O Z
G R A K X C M T D M O G N I K I B B K B E L Y V R N
T R I P C H A I N I N G D L T W T O R O G G H K A G
J L O O P R A C D I O D D D U S U J R P G B S E
F B E U R Q H U K M I B H D B R M J L Z L T O P J
Y H B Q N P E L S I B C U B E D L L J L W W T D Q
E Y F P F D A A L T A O J C Y Y S J B U O Z J Z L
A J P V M W L T T S B D Y Y P Z U V R W Z P T P J
G H M O J Z T E L R E C M L N I V C T N B D R V A
V C J L U S H S V D E R T T J J Q F T D V N N V Z R
Z U D H T P Y P F L D Y G S Z N I K Q T I Y F E
Q D J V I Y O N U F L D Y G S Z N I K Q T I Y F E
N U B K P L J X H I W O F H S S Q E X A P Y Y F H
I R R C M R N H W P O B Z L U O N X C V K M Y X Q
S R P G T A I T N F M J O O G S J W V T B P U X S
K Y V G L I I U Q N X A Q S N Y F E C A U K N M G
Q K F X H X Y L Z E C E G E I E B Z A J G I P C W
J Z T S P F O E Q A L Q E A L C A E Q L Q Q T G G
A G A J O C E Y I P H Z Y P D A X D K S R R V T Q I
N U M C Q U X C J R H Y S A I F H R K N M X N D W
G G Y Y Z I U A Z V C B G H I S P S Y P V H O C X
U F W K W G F M W Y D P S W G C E B G L F X G F U
U A Z T K N N E D U P O O B K S N Y T T U C E K F D

Dirty Air Words

SMOG
GROUND LEVEL OZONE
PARTICULATES
EXHAUST
IDLING
ASTHMA ATTACK
POLLUTION

Clean Air Words

CAR POOL
RECYCLE
WALKING
BIKING
HEALTHY
GREEN IS GOOD
TRIP CHAINING

10



COLOR THESE TWO VERSIONS OF EARTH

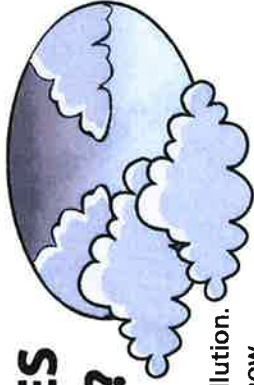


CLEAN AND FRESH DIRTY AND POLLUTED

CIRCLE THE ONE WHERE
YOU WOULD RATHER LIVE

3

WHAT CAUSES POLLUTION?



There are a lot of manmade and natural causes of air pollution. Let's explore some of them now.

DEFINITIONS:

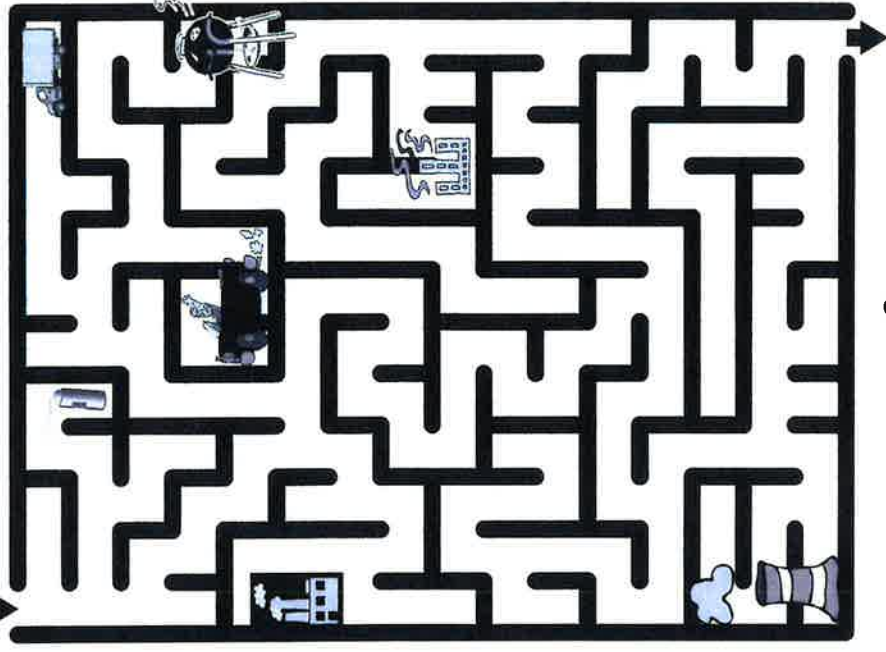
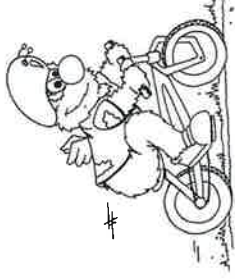
Draw a line and match the terms with the correct definitions.

- | | |
|-----------------------|--|
| a) CARBON DIOXIDE | 1 The result of the combination of emissions from things like cars or other engines, sunlight and heat. |
| b) PARTICULATES | 2 A type of Air Pollutant that reduces visibility and is often referred to as a "Brown Haze" resulting from the burning of fossil fuels. |
| c) IDLING | 3 Tiny pieces of solid or liquid matter that are suspended in the air. |
| d) GROUND LEVEL OZONE | 4 Running a vehicle's engine while not moving or parked. |
| e) SMOG | 5 A colorless odorless gas. |



Answers:
(2-a '1-'p-'4-c '5-e)

Help Tropo ride to clean air!
Watch out for pollution pitfalls along the way.



Tropo's Clean Air Tips

Know your route before you go out:

Save time and the air by combining errands into one car trip. A warm engine is more efficient than a cold one.

Don't idle when you're idle:

Shut your vehicle's engine off when you plan to be in one spot for more than a few minutes.

Avoid topping the gas tank:

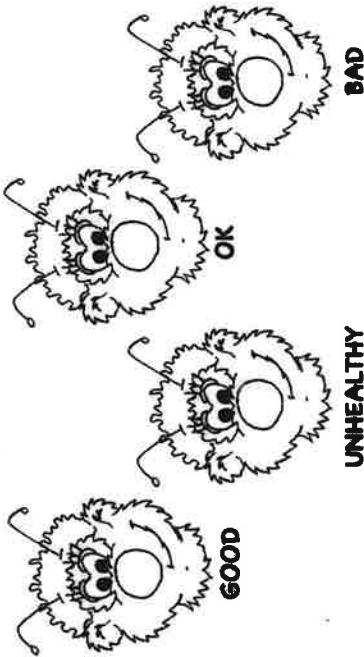
Gasoline pumps automatically shut off when they sense that the tank is full. Adding extra gasoline to your vehicle's tank after the pump has stopped fouls the mechanism that works to keep vapors from escaping while you're fueling up.

Walk, bicycle, carpool or take public transit instead of driving:

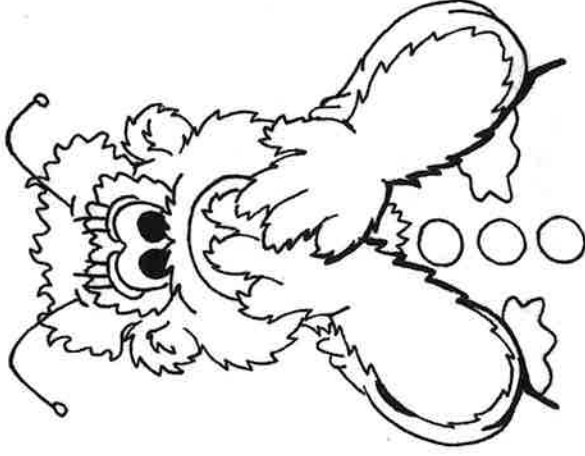
The fewer individual vehicles there are on the road, the fewer traffic jams and gasoline exhaust.

Color in Tropo's Nose to Match the Level on the Air Quality Index.

Use the chart on the cover of this book to choose the correct color.



List 3 THINGS People Do To Cause AIR POLLUTION



1. _____

2. _____

3. _____

Why is Ground Level Ozone A PROBLEM?

(CHOOSE THE CORRECT ANSWER!)

- Air pollution like smog can affect everyone, especially kids, older adults and people with asthma.
- Animals have to breathe too, so bad air affects our pets, the birds in the trees and all of our other friends in nature.
- Pollution in the air can mix with rain that falls not only where we live, but also where fish, plants and other life in oceans, lakes, rivers and streams call home.
- Farmers who grow our food can have a tough time when air quality is bad. Crops can also suffer on really hot bad air quality days.
- All of the above.

(ANSWER: E)

SCRAMBLY WORDS

lupnootil

mgos

zoeon

rudngo veell oonez

tmhasa

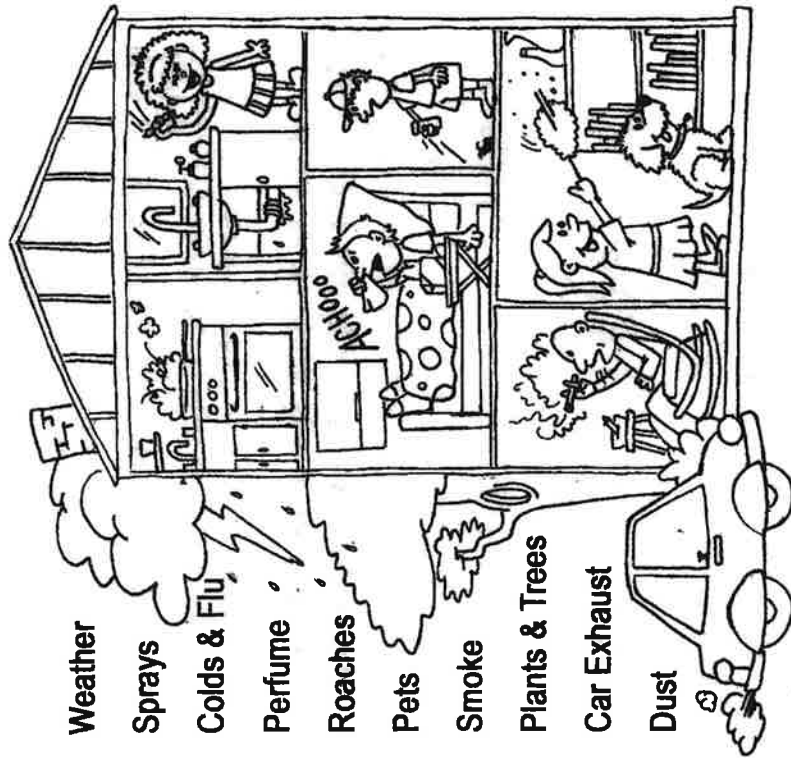
(Answers: POLLUTION, SMOG, OZONE, GROUND LEVEL OZONE, ASTHMA)

6

WHAT IS ASTHMA?

Asthma is a lung disease that makes it hard to breathe. It's also chronic, which means you live with it every day. Asthma can be serious - even life-threatening. While there is no cure, there are things you can do to keep your asthma under control, so it doesn't control you.

HELP TROPO CIRCLE THE ASTHMA TRIGGERS LISTED HERE IN THE PICTURE BELOW



7