

Transportation Summary Report

NIRCC
Fiscal Year 2018



Produced by the
Northeastern Indiana Regional Coordinating Council



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INTRODUCTION

The Northeastern Indiana Regional Coordinating Council (NIRCC) is designated as the metropolitan planning organization (MPO) responsible for conducting transportation planning in the Fort Wayne-New Haven-Allen County Metropolitan Planning Area. Working with other public and private agencies, NIRCC strives to implement a transportation system that assures healthy growth and orderly development in the region. One of the main goals of NIRCC is working to develop a well-coordinated, multimodal, and functional transportation system to satisfy existing and future travel demands.

NIRCC and its staff work to provide a complete transportation system, one which will enhance the efficient movement of goods and people, while promoting greater safety and maintaining a conscious regard for the quality of life. For this goal to become a reality, constant monitoring of the existing system must occur. Staff is continually collecting data on the existing system to support the short-range planning process and to identify the challenges and opportunities of the future.

This Transportation Summary Report highlights and visually illustrates some of the transportation planning activities conducted and the products produced by NIRCC during Fiscal Year 2018. The primary purpose of this report is to familiarize the reader with the techniques used by NIRCC and the resulting products to promote a better understanding of the transportation planning process in our community. Included in this report is a summary of the traffic surveillance activities, vehicle miles of travel, intersection and arterial analyses, corridor studies, travel time and delay studies, Fiscal Year 2018-2021 Transportation Improvement Program (TIP) Projects for the Fort Wayne-New Haven-Allen County Metropolitan Planning Area, quarterly review, TITLE VI & ADA, Safety Management System (SMS) activities, congestion management, bicycle/pedestrian planning activities, Red Flag Investigation (RFI) studies, and transit planning.

Traffic Surveillance

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*Studies completed by the Northeastern Indiana
Regional Coordinating Council*

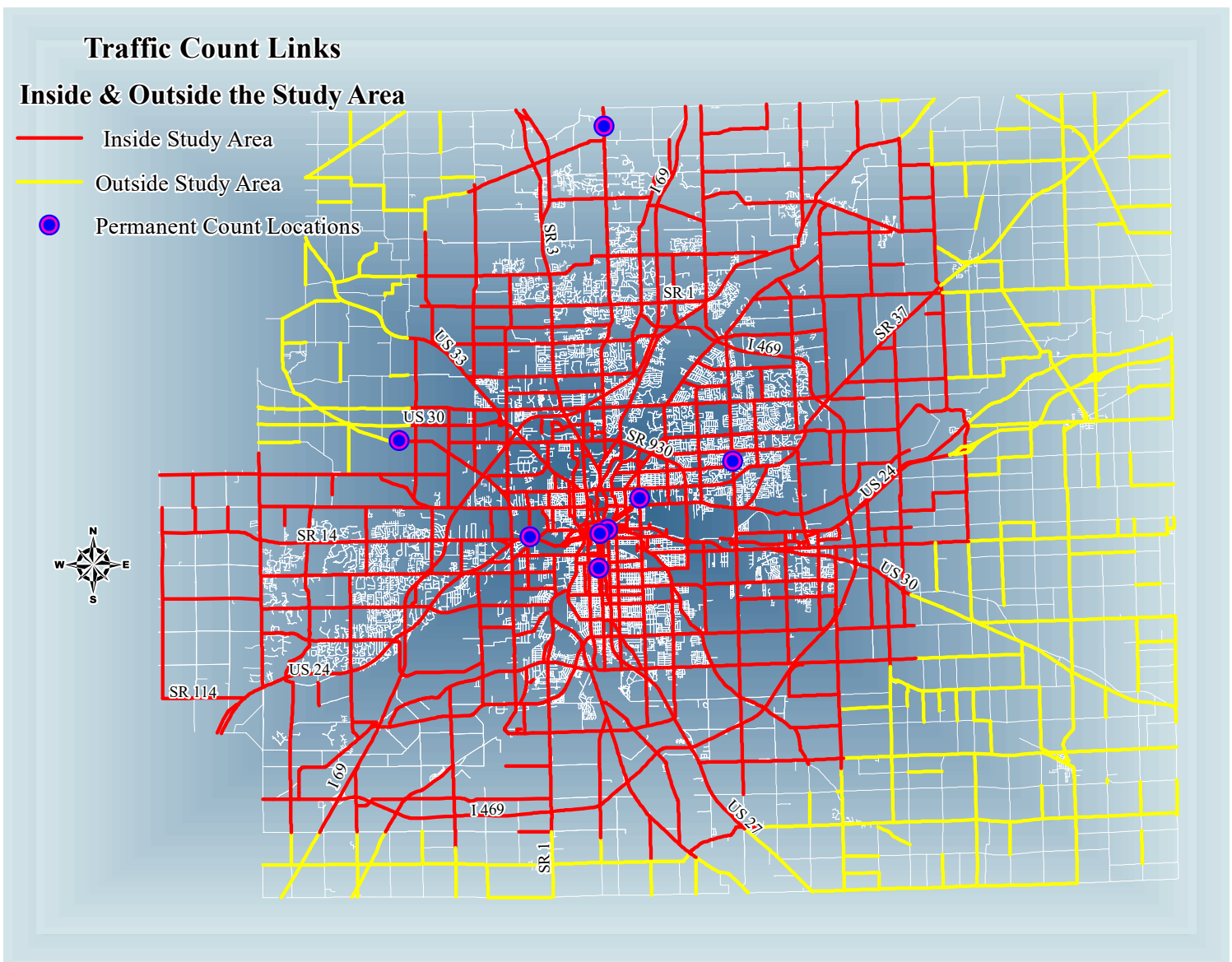
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TRAFFIC SURVEILLANCE

Traffic counting provides an important base for short- and long-range transportation planning in an area. NIRCC is responsible for collecting and recording traffic count data for more than 2,000 traffic count links just within Allen County, as illustrated in figure 1. The majority of these links are located within the Metropolitan Planning Area and are shown in red. The yellow links are collected as part of our rural traffic count program. The data is collected on a rotational basis, which varies from link to link. NIRCC employs three types of counts, weekly, temporary ground counts, and classification counts.

The first type of counts are weekly counts. These are done at eight permanent local counting stations, also illustrated in figure 1. The permanent weekly counts are in locations that represent arterials and collectors in four different planning

Figure 1



areas of Fort Wayne and Allen County. The Indiana Department of Transportation (INDOT) maintains permanent counting stations on Interstate 69 and State Road 930. The data from these stations, collected each month, is used to develop monthly count factors. Monthly count factors are important because traffic volumes vary from one season to

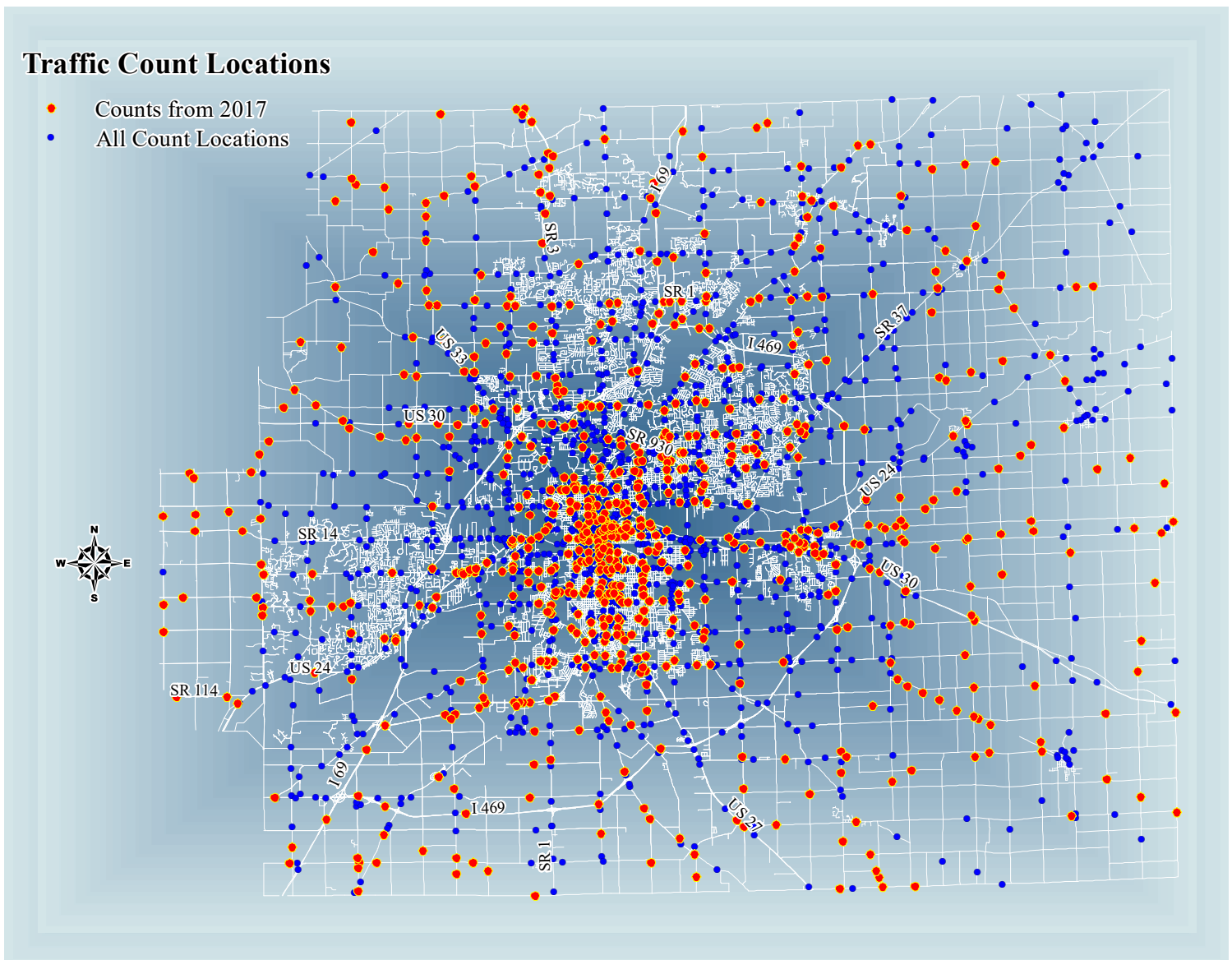


Figure 2

another for various reasons. Weather conditions, construction, economic activities and school/work schedules are just a few of the variables that cause seasonal variations in traffic flow. Traffic count data collected in November may be very different than traffic count data collected in July. Because of these differences, traffic counts throughout the year must be adjusted with these factors depending on the month and season if they are to be accurately compared. These factors are what adjust the raw traffic count data into the Average Annual Daily Traffic (AADT) volumes.

The second type of counts are temporary ground counts. In Count Year 2017 (February - December), data was collected at 673 locations within the Metropolitan Planning Area (MPA), as illustrated in figure 2. NIRCC also completed an

additional 513 counts in Adams, Allen, Wells, and DeKalb Counties. Out of these 513 counts, 107 locations were collected for the state program. All of these counts are forty-eight hour, weekday counts that are conducted region-wide and adjusted for vehicle axle variability and seasonal variability. These counts fulfill three main objectives:

- 1) sample locations to estimate vehicle miles of travel, 2) sample highway performance monitoring system locations, and 3) collect coverage and special counts for planning and analysis purposes.

The last type of traffic counts are traffic classifications. Classification counts are conducted at selected locations to determine the frequency of various vehicle types. This data is collected, summarized, and then recorded as a component of the transportation characteristic file. The amount of truck traffic at a sampled location is the critical information collected by classification counts. The information is used for general system monitoring and for augmenting the data needs of Highway Performance Monitoring System (HPMS) sections and several management systems.

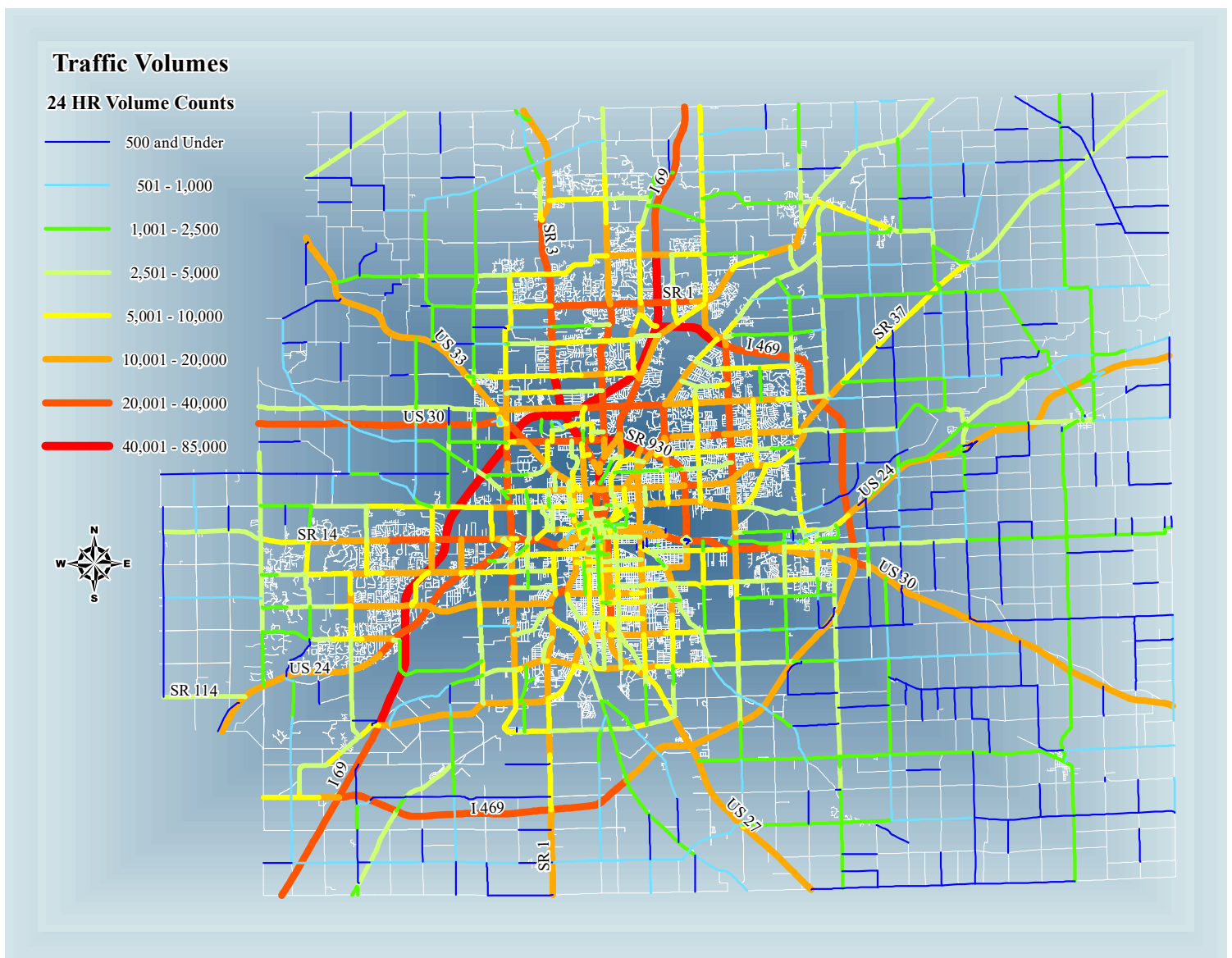


Figure 3

Figure 3 provides the range of traffic volumes present throughout Allen County. Some of the traffic count links shown in figure 1 and figure 3 exhibit links that may look unconnected or isolated. These links appear this way because they are usually part of the local road type samples or the railroad inventory count locations. Since most of the links are not functionally classified, they do not illustrate the continuity that the other links reveal.

Vehicle Miles of Travel

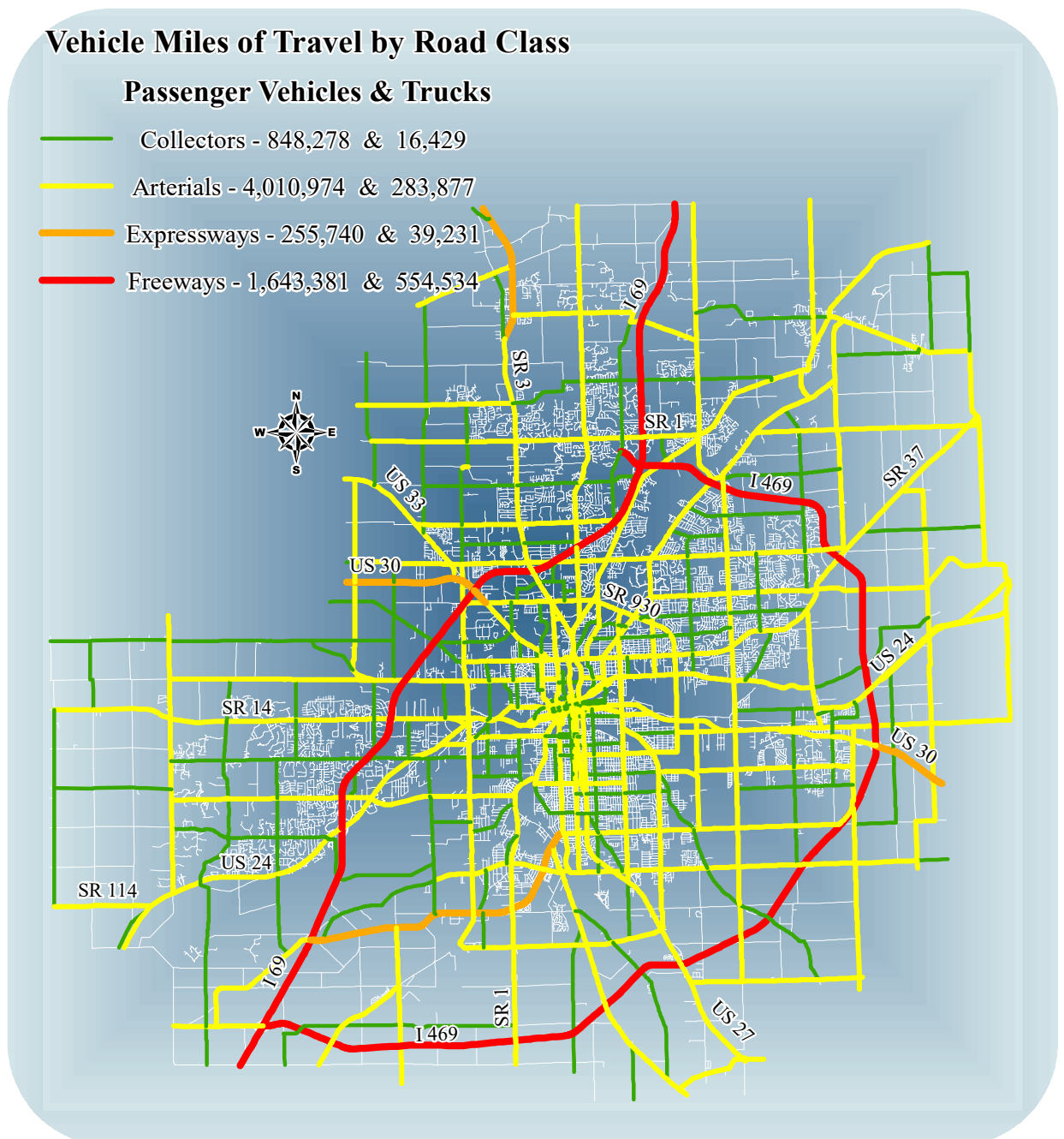
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VEHICLE MILES OF TRAVEL

The purpose of the vehicle miles of travel (VMT) estimate is to provide a measurement of regional traffic growth. The VMT estimate incorporates several factors that influence quality of travel within a region including traffic volume, length and type of roadway facility, seasonal traffic variations, and vehicle types. The VMT estimate has been published annually for the region beginning in Fiscal Year 1986. With each annual estimate, NIRCC staff has attempted to improve its sampling and analytical skills to produce the most reliable estimate possible. Region wide, vehicle miles of travel increased from 7,511,644 in 2016 to 7,652,446 in 2017. This represents an increase of 1.87 percent. The VMT increased on arterial streets (1.45%), decreased on collector streets (-0.53%), increased on expressways (0.22%), and increased on freeways (3.95%) over the previous year. The VMT is illustrated for 2017 in figure 4.

Figure 4



The changes in VMT from year to year can be attributed to a number of possibilities. The most evident reason for VMT changes can be accredited to the increase or decrease in the amount of travel. Other factors that can affect the increase or decrease in VMT can include the price of gasoline, unemployment rates, automobile operating costs, and weather.

The bar chart shown in figure 5 displays the annual VMT estimates for the past 32 years spanning from 1986 to 2017 for the Fort Wayne-New Haven-Allen County Metropolitan Planning Area. It also provides a benchmark for VMT displaying the first estimate done in 1986. These VMT estimates do not include the number of vehicle miles traveled on the local streets. The amount of local samples NIRCC collects is not sufficient to calculate a reliable VMT estimate. For the most part, the general trend shown on the chart shows only slight changes in total VMT throughout the 32 year period but a significant increase since the inception of VMT in 1986. The VMT is anticipated to level out or continue to slightly increase. Even though gas prices and economic hardships may slightly change the growth patterns of VMT, there still seems to be factors that will continue to keep the VMT increasing a little even though some years experienced a slight decrease. These factors include an increase in automobile ownership per family, the spread of development, suburb to suburb travel, a rise in the percentage of two-income families, and other lifestyle changes.

Figure 5

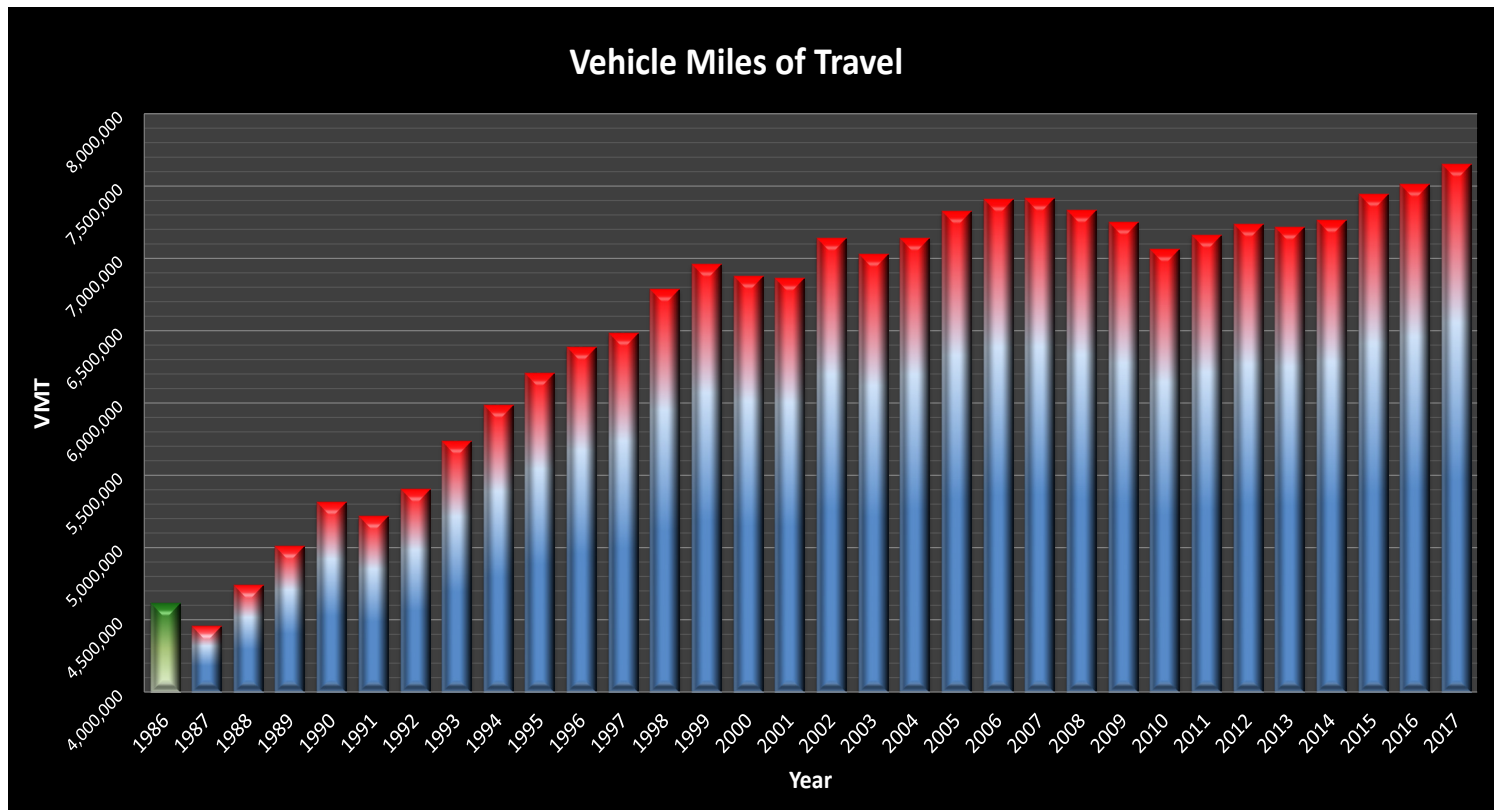
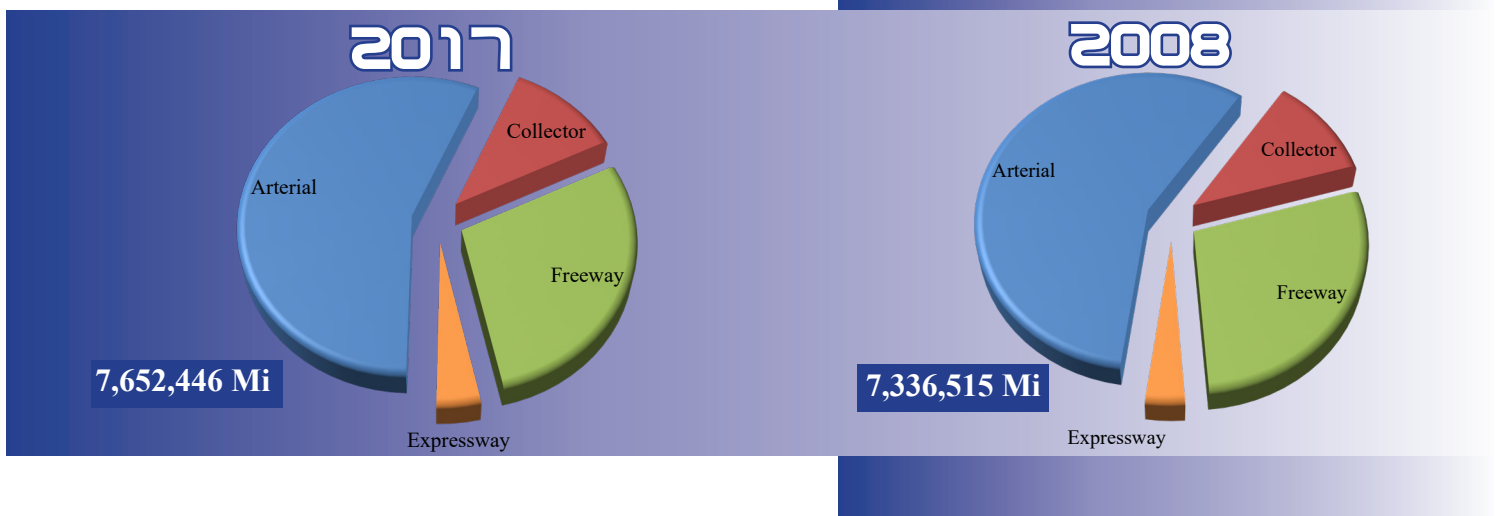


Figure 6 presents three pie charts that represent the proportions of VMT by street classification for the years 1986, 2008, and 2017. As you can see, the proportions of traffic in 1986 are different compared to the proportions of traffic in 2008 and 2017. Freeway traffic increased significantly while Arterial usage decreased. The main reason for these changes can be attributed to the opening of Interstate 469. The first year that Interstate 469 was included in the VMT estimates was in 1996. The addition of Interstate 469 caused a large shift of traffic from the arterial streets to the new freeway system.

Figure 6
Annual Average Weekday VMT

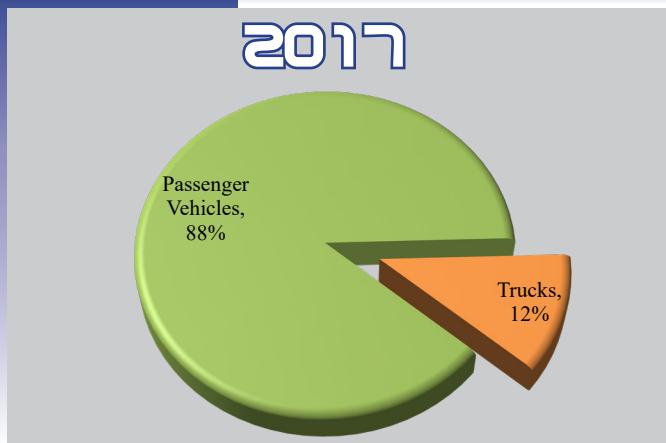
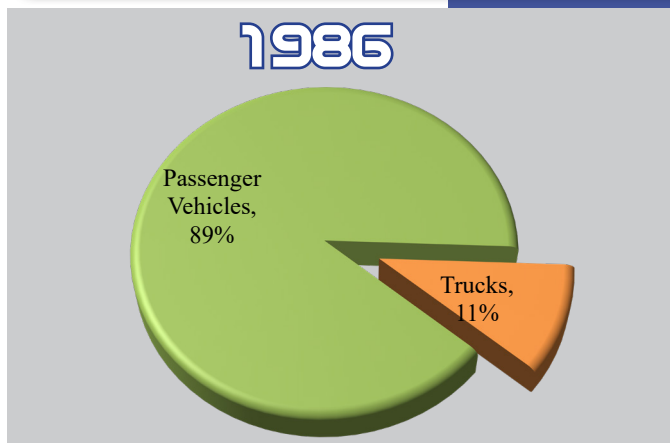


The VMT is also broken down to show the annual average VMT for passenger vehicles and trucks. The pie charts contained in figure 7 illustrate the VMT for 1986 and 2017. The proportion of truck traffic compared to passenger vehicle traffic is almost identical in 1986 and 2017. A further breakdown of the proportionate usage of passenger vehicles versus trucks on the different road classifications shows some interesting differences between 1986 and 2017. Even though the proportion of truck traffic compared to passenger vehicle traffic is nearly the same for these two years, the distribution of traffic on arterials and freeways are much different. As previously mentioned, the traffic distributions between arterials and freeways changed significantly when Interstate 469 was included into the VMT estimates. The most significant change in traffic distribution between 1986 and 2017 came from the Annual Average weekday VMT totals for trucks. The pie charts show how much of an impact Interstate 469 has made between 1986 and 2017. The utilization of the freeway system has alleviated a significant amount of truck traffic from the arterials.

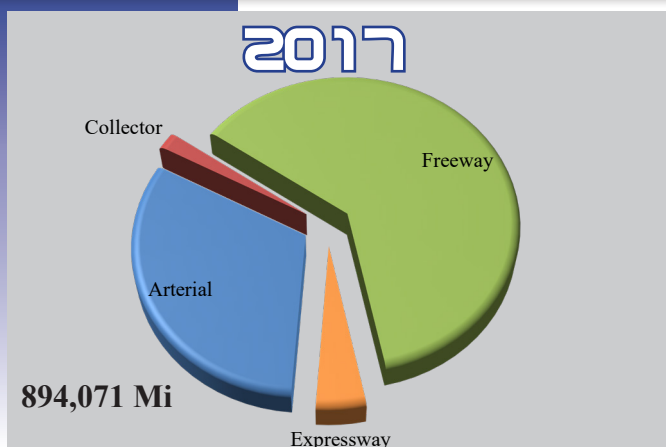
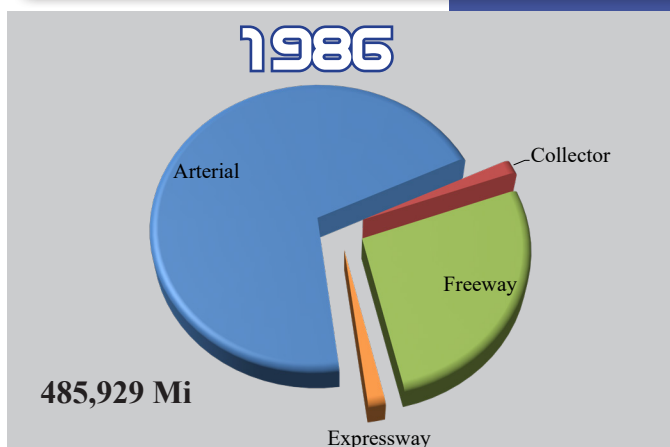
The pie charts contained in figure 8 illustrate the proportion of passenger vehicle traffic versus truck traffic for each type of road classification. Even though the amounts of truck traffic and passenger vehicle traffic significantly changed

Figure 7

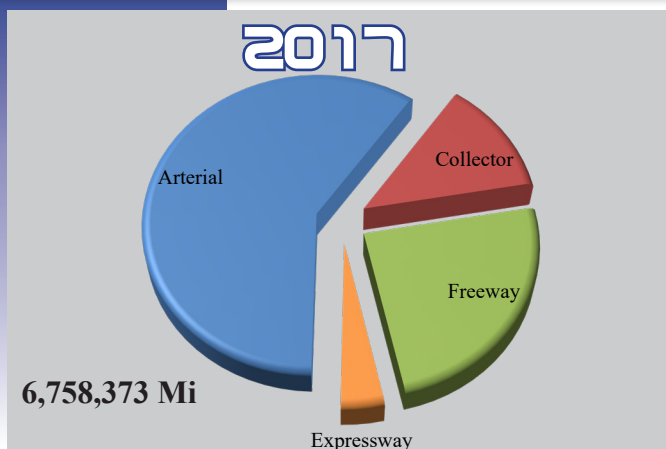
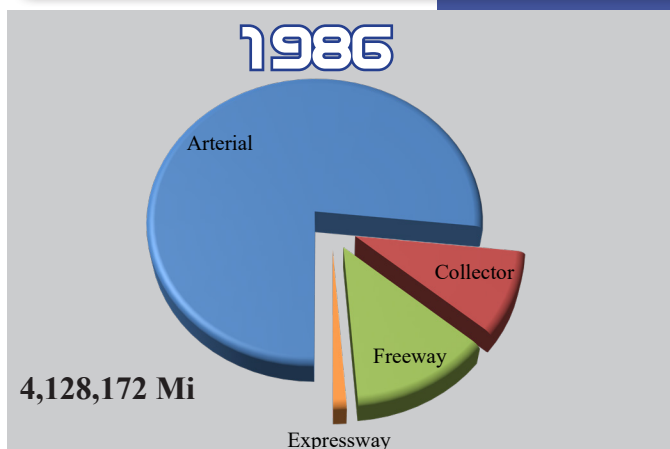
Annual Average Weekday VMT for Passenger Vehicles compared to Trucks



Annual Average Weekday VMT for Trucks



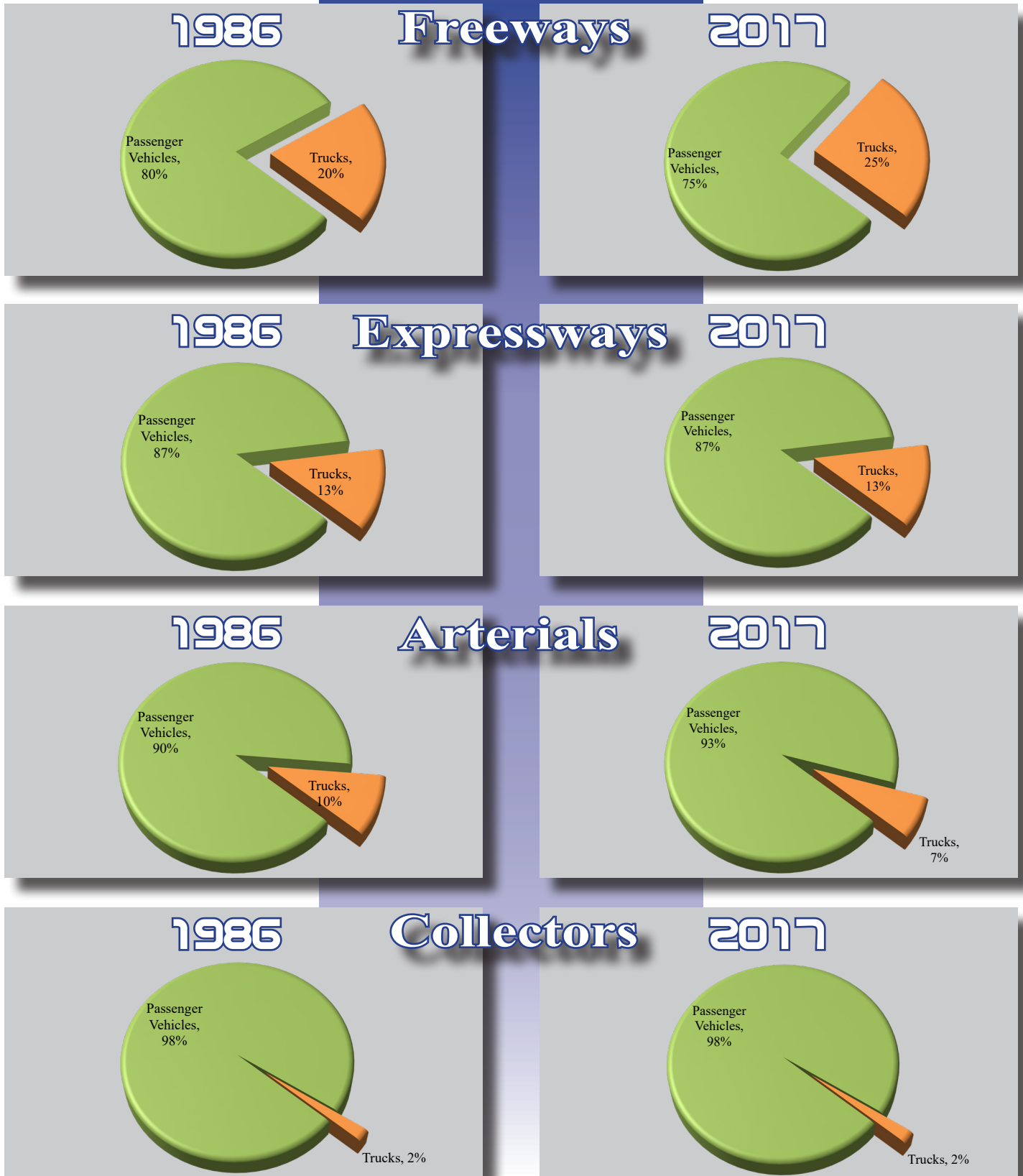
Annual Average Weekday VMT for Passenger Vehicles



for some of the road classifications, the proportions of passenger vehicles and trucks for each road classification remained very similar between 1986 and 2017.

Figure 8

Percentage of Annual Average Weekday VMT for Passenger Vehicles Compared to Trucks



Intersection and Arterial Analysis

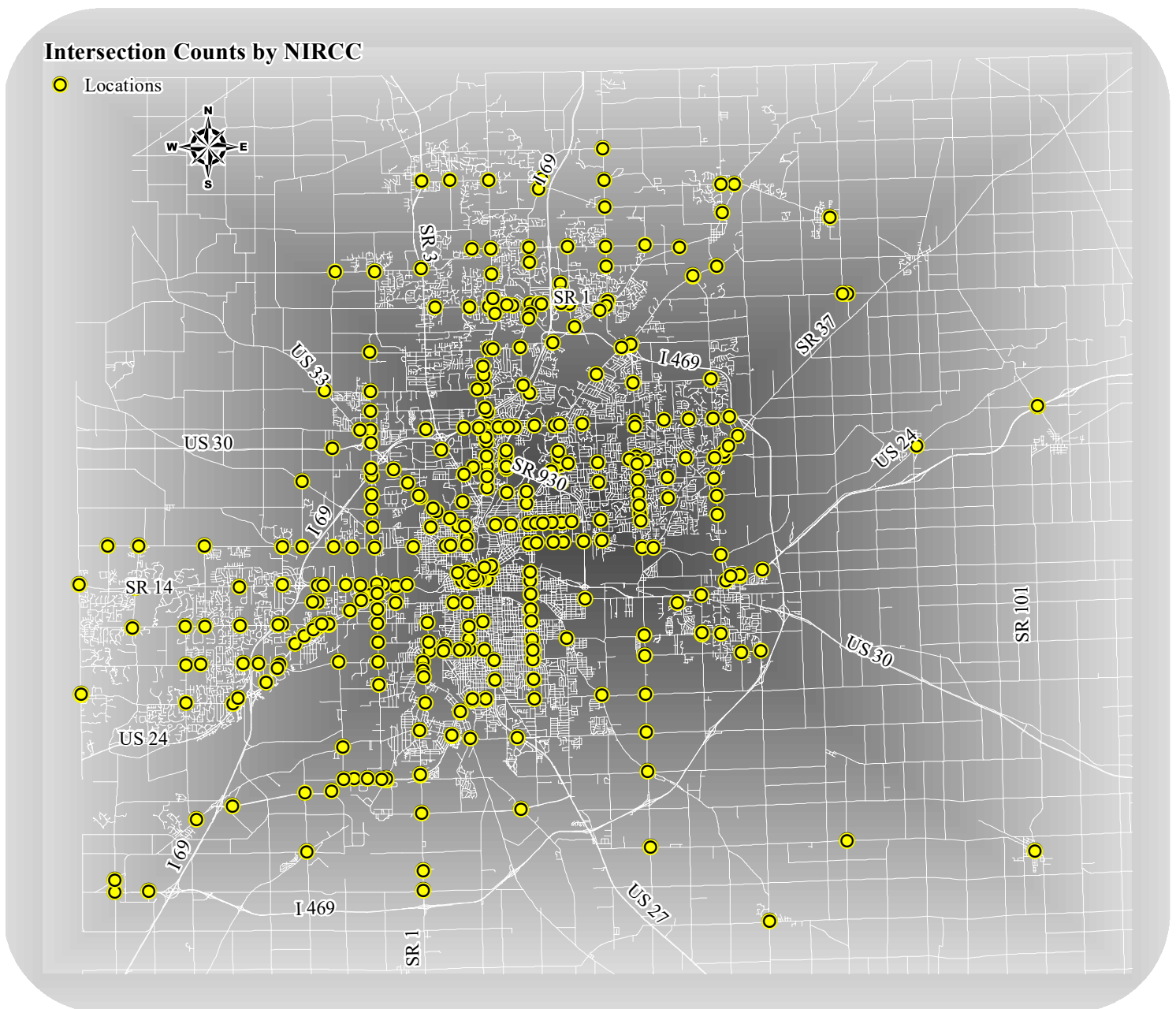
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INTERSECTION AND ARTERIAL ANALYSIS

NIRCC also conducts intersection and arterial analyses. Staff studies intersections within Allen County and examines their performance characteristics. These studies are conducted based on requests from the City of Fort Wayne, the City of New Haven, the Allen County Highway Department, and the Indiana Department of Transportation to evaluate problems and concerns with specific intersections. Figure 9 illustrates all the intersections that have been studied by NIRCC in the past. In Fiscal Year 2018, NIRCC evaluated 16 intersections which are listed in the table contained in figure 10. Out of these 16 intersections, 9 were signalized and 7 were unsignalized.

Figure 9



The targeted measures of effectiveness for intersections are delay and capacity. The level of service (LOS) of an intersection is defined alphabetically A through F, A being the best LOS and F being the worst. The LOS is based on the average delay (measured in seconds) experienced at an intersection. Level of service cannot be calculated when the volume to capacity ratio (V/C) exceeds 1.2 for an individual group. The level of service for each of the intersections counted in Fiscal Year 2018 are illustrated in figures 11 through 14 for each approach. These levels of service are only based on the peak hour for each intersection.

In order to qualify for a traffic signal, intersections must meet one or more of the primary volume signal warrants or both all-way stop warrants as described in the Manual on Uniform Traffic Control Devices 2009 Edition. The intersections reviewed for signal warrants along with other types of intersection analyses in Fiscal Year 2018 are illustrated in figure 15.

Figure 10

Signalized Intersections
<ul style="list-style-type: none"> • Anthony Blvd / Wayne Trace • Bluffton Rd / Pleasant Center Rd • Coliseum Blvd / Parnell Ave • Coliseum Blvd / Speedway Dr <ul style="list-style-type: none"> • Ewing St / Main St • Fairfield Ave / Main St • Jefferson Blvd / Olde Canal Pl • Lafayette St / McKinnie Ave <ul style="list-style-type: none"> • Lafayette St / Pettit Ave
Unsignalized Intersections
<ul style="list-style-type: none"> • Aboite Rd / Lower Huntington Rd • Airport Expressway / Aviation Dr <ul style="list-style-type: none"> • Barr St / Main St • Candlewood Way / Coldwater Rd <ul style="list-style-type: none"> • Clinton St / Diebold Rd • Clinton St / Wallen Rd • Industrial Rd / Washington Center Rd

Figure 11

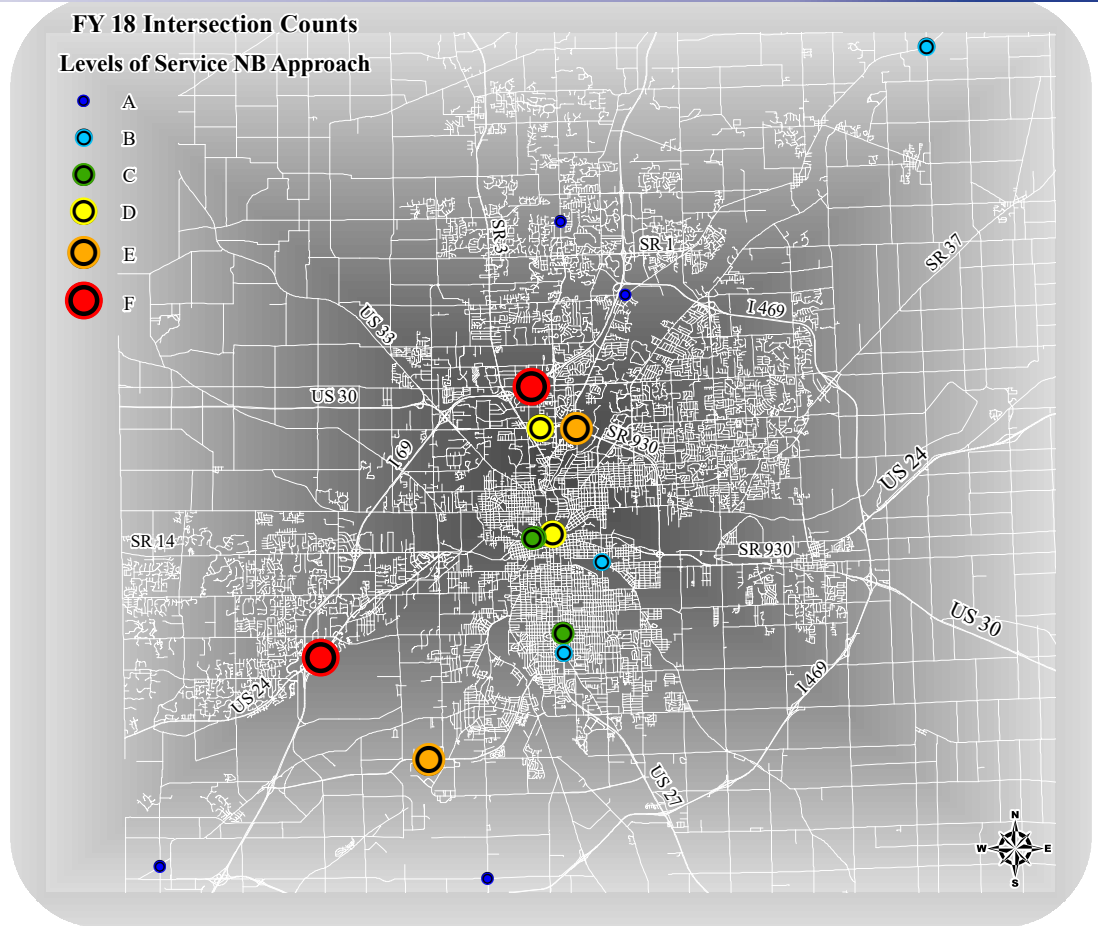
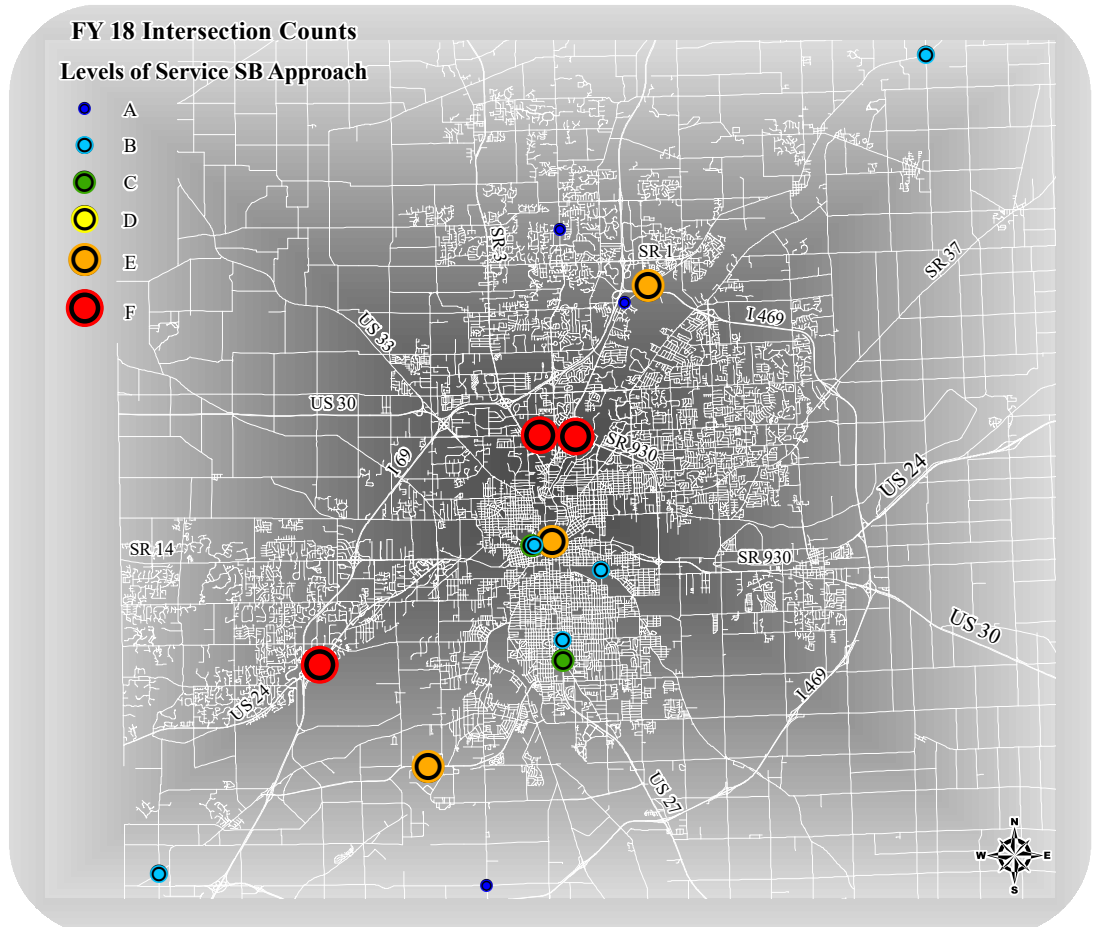


Figure 12



* These levels of service are only based on the peak hour for each intersection.

Figure 13

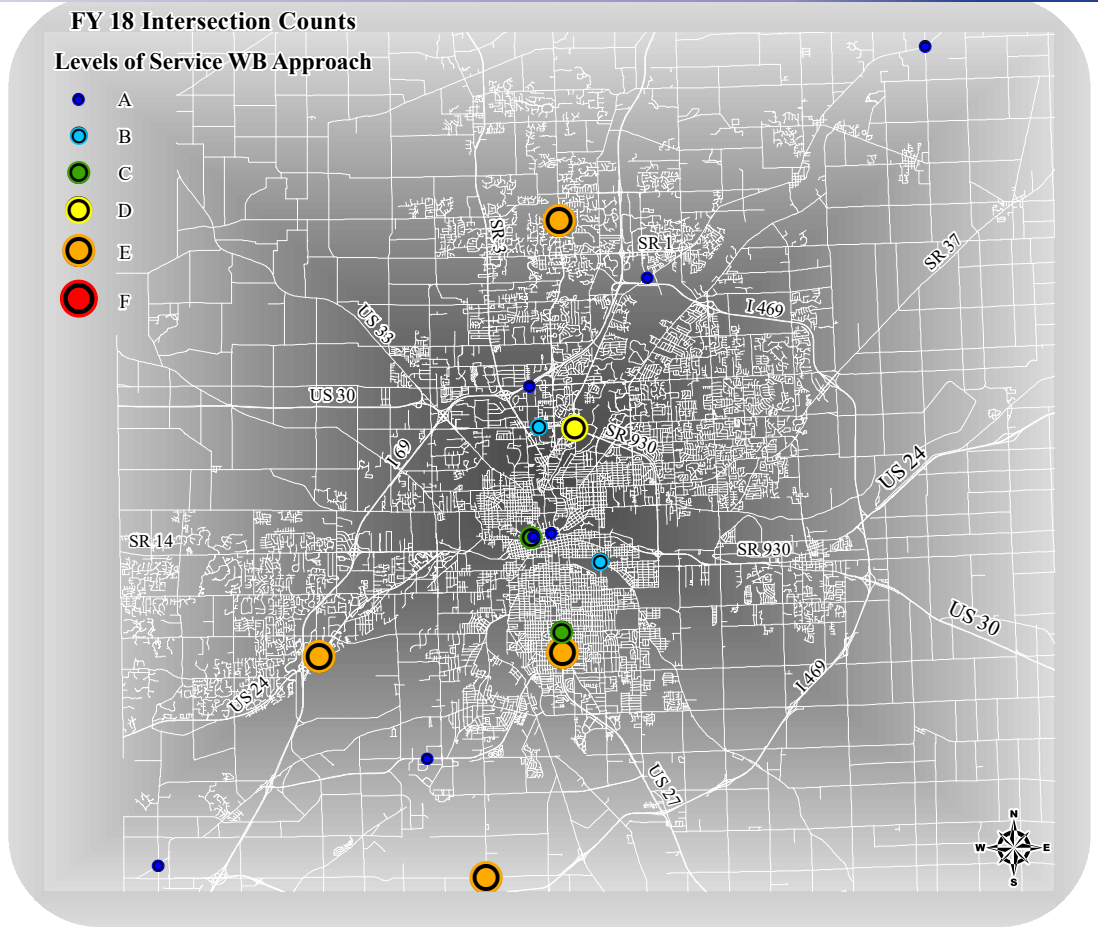
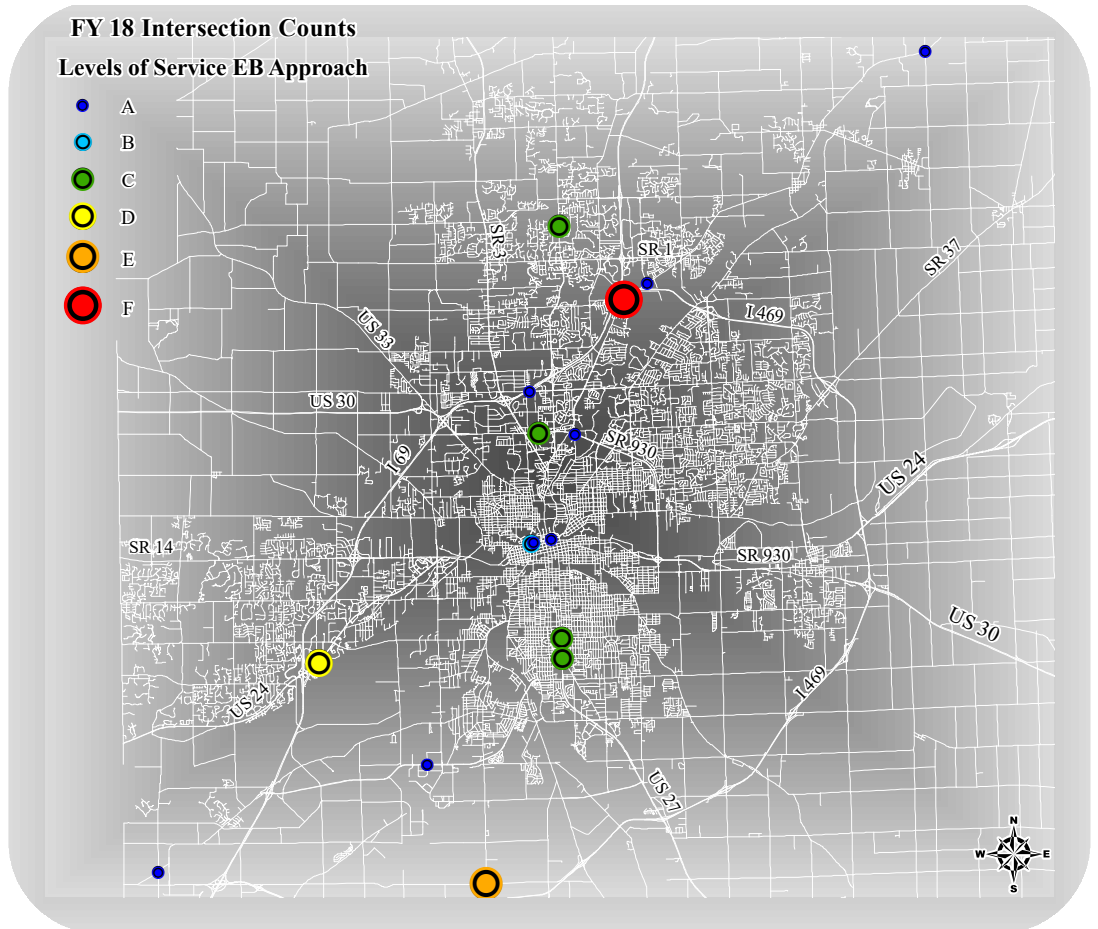
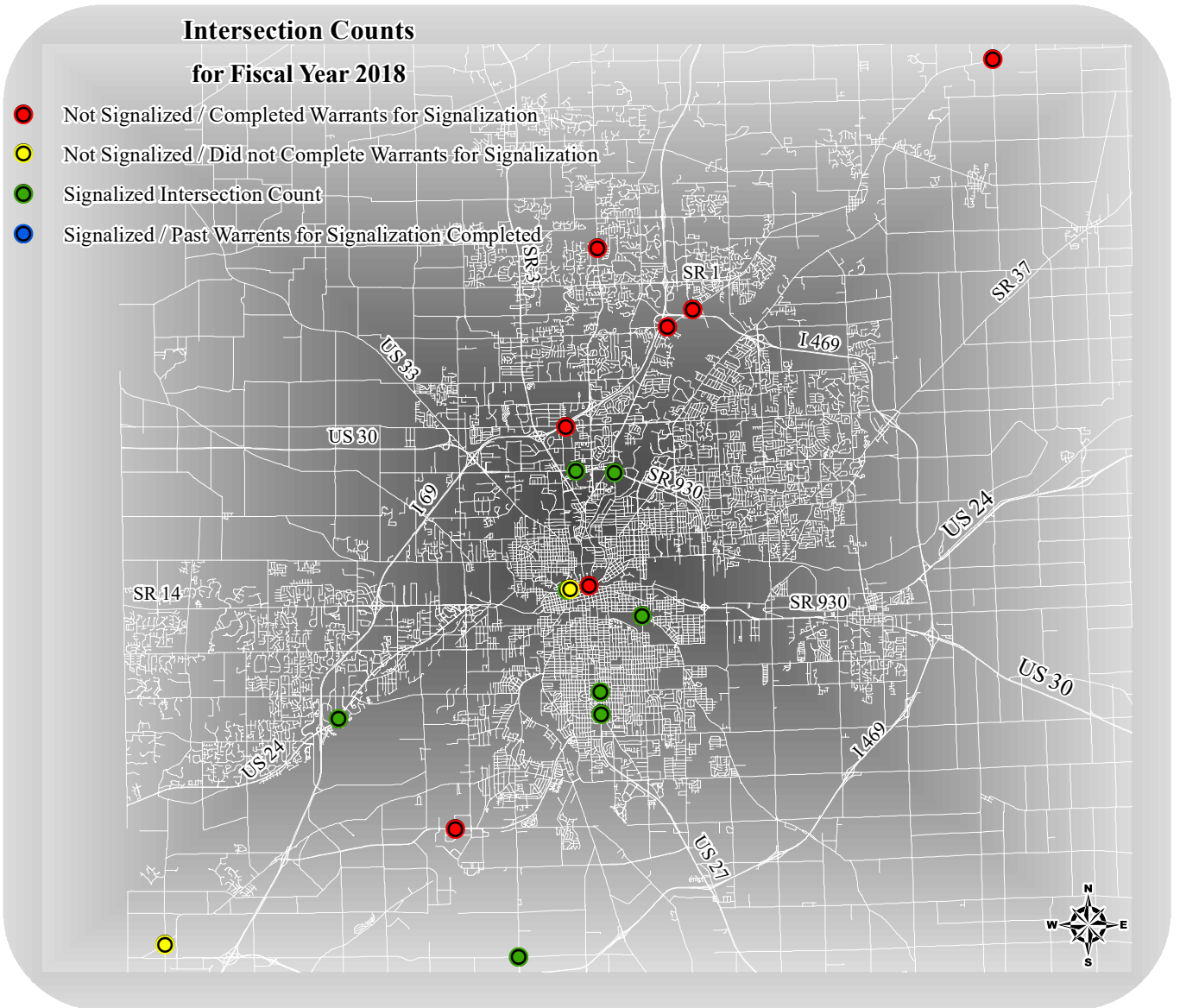


Figure 14



* These levels of service are only based on the peak hour for each intersection.

Figure 15



Corridor Studies

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accommodate future traffic and relieve anticipated congestion problems along the corridor. Information provided by a corridor and impact analysis helps in developing a corridor protection plan that can be an efficient tool for mitigating potential congestion.

Corridor protection studies and plans evaluate and identify optimal access points along corridors for future developments and improvements. The adoptions of these plans facilitate efforts to resolve existing congestion and mitigate future problems. The recommendations from the plans aid local officials, planners, and developers during future development by protecting the integrity of the corridor from detrimental access.

Besides the traditional corridor studies which often only analyze one corridor or set of continuous corridors, NIRCC also performs a study called a sub-area analysis. A sub-area analysis analyzes a number of corridors within a given area or development. Information and materials produced by this type of analysis provide local policy-makers with an additional tool for assessing the impacts of new and expanding development to an area. The analysis focuses on assessing the current and future operating characteristics of the corridors and develops alternative strategies to improve safety and mitigate congestion. Staff looks at highway, transit, pedestrian and bicycle access as the major components of the analysis. Staff also evaluates how facilities, both within and outside of the analysis area, interact with each other and impact the current and future traffic patterns.

In Fiscal Year 2018, NIRCC completed work on one corridor protection plan and one corridor study. NIRCC worked on the Airport Expressway corridor study which will be completed in the next fiscal year. The study of Airport Expressway was initiated by NIRCC in FY17 due to the developments, planned interchange reconstruction, and increase traffic along the corridor. The Study starts at Interstate 69 and ends at Lower Huntington Road. This Corridor Study can be seen in figure 17. NIRCC also worked on the Hathaway Road corridor protection plan in FY 18 that stretched from Union Chapel Road to Hand Road. The Hathaway Road corridor has become a recent priority of local government and can be seen in figure 18. The Hathaway Road corridor protection plan will be completed in FY 19.

Figure 17

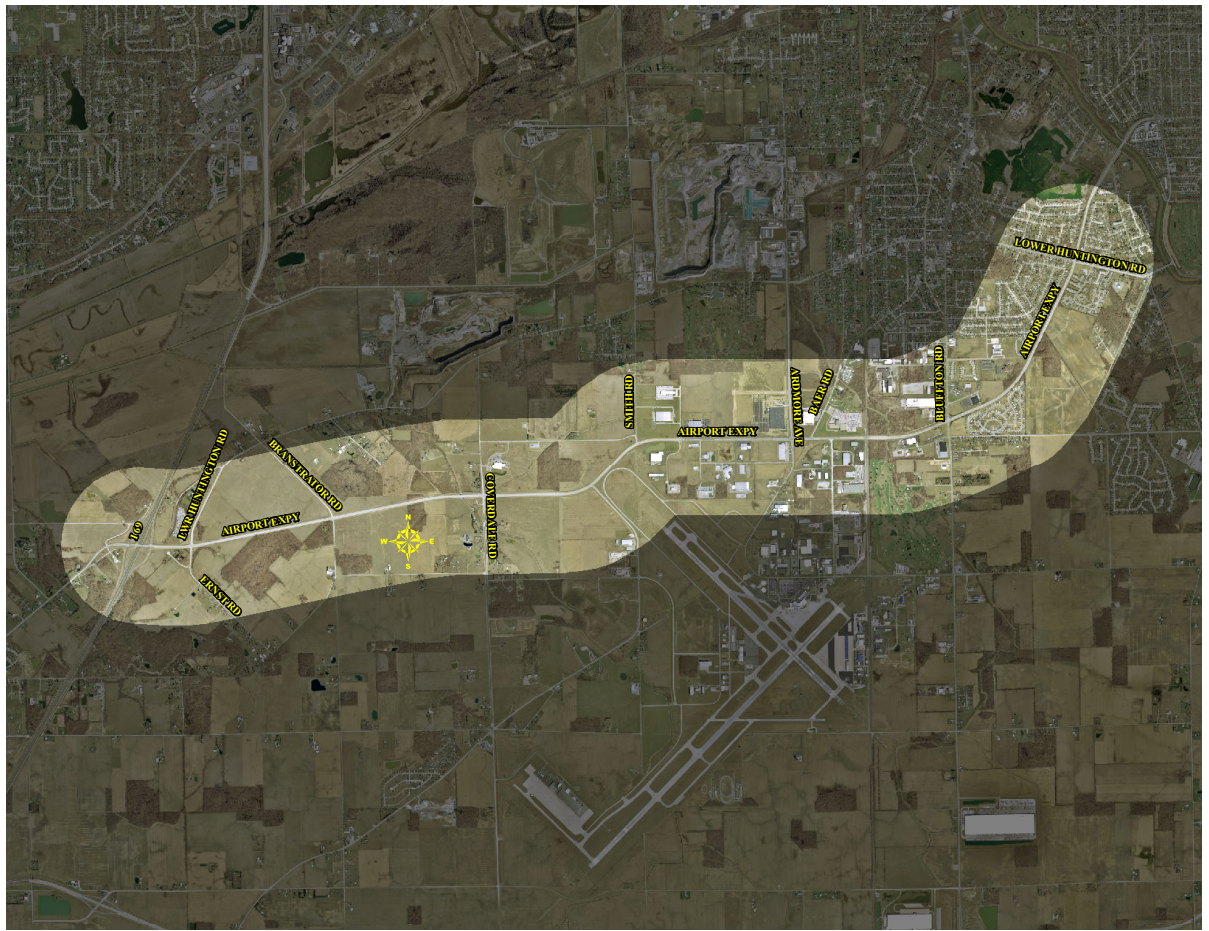


Figure 18



Travel Time and Delay Studies

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TRAVEL TIME & DELAY STUDIES

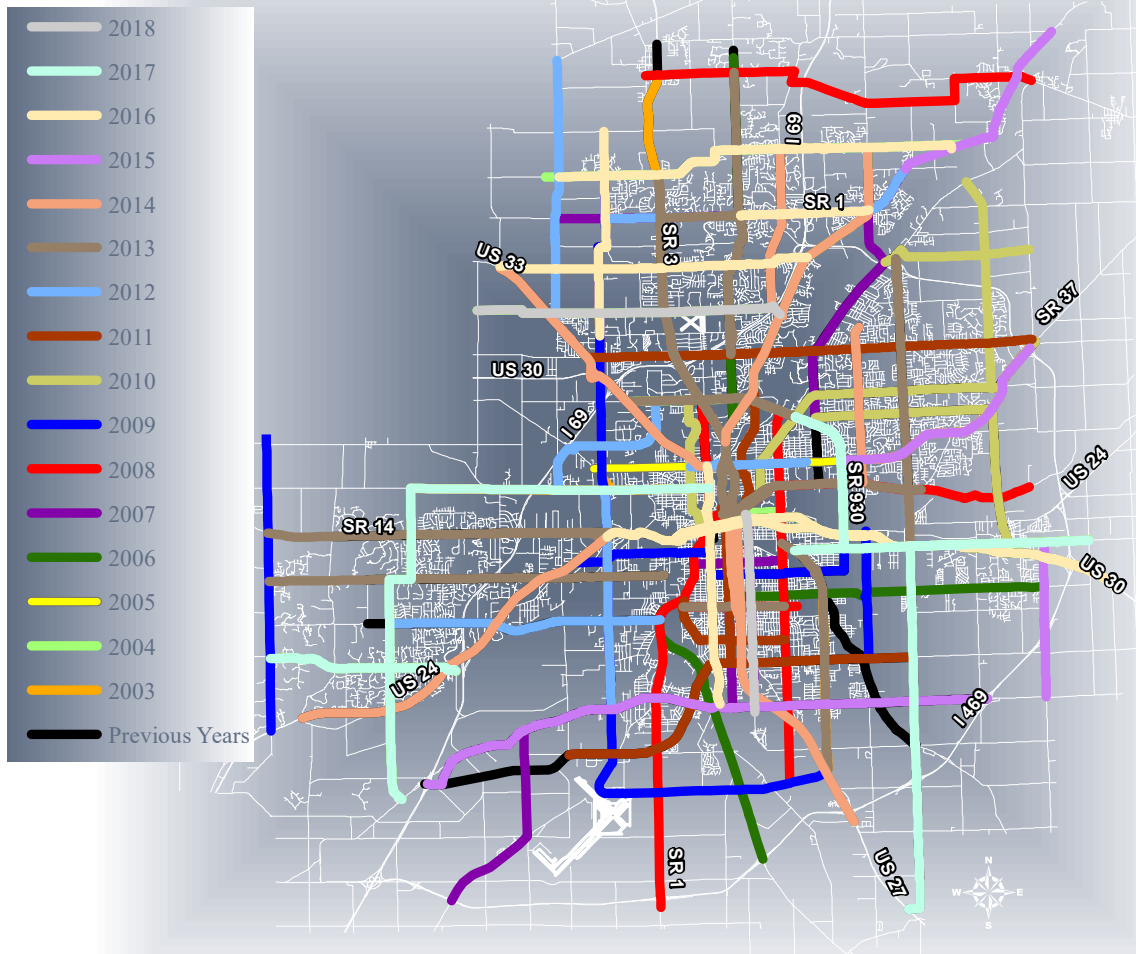
Another activity conducted by NIRCC is the travel time and delay studies. Figure 19 illustrates the travel time and delay studies that have been completed since Fiscal Year 1999. Travel time is one method to measure the congestion in the transportation system. It is essential for proper evaluation of the system because time is one of the most compelling and accurate yardsticks of the efficiency of street and highway service. Travel time is defined as the total time for a vehicle to complete a designated trip over a section of the road or from a specific origin to a specific destination. The studies conducted by NIRCC use the “average speed” method to obtain the travel time and delay data.

The following lists some of the uses that travel time data provide.

- *Identification of problem locations on facilities by virtue of high travel times and delay.*
- *Measurement of arterial level of service.*
- *Input into transportation planning models.*
- *Evaluations of route improvements.*
- *Input to economic analysis of transportation alternatives.*

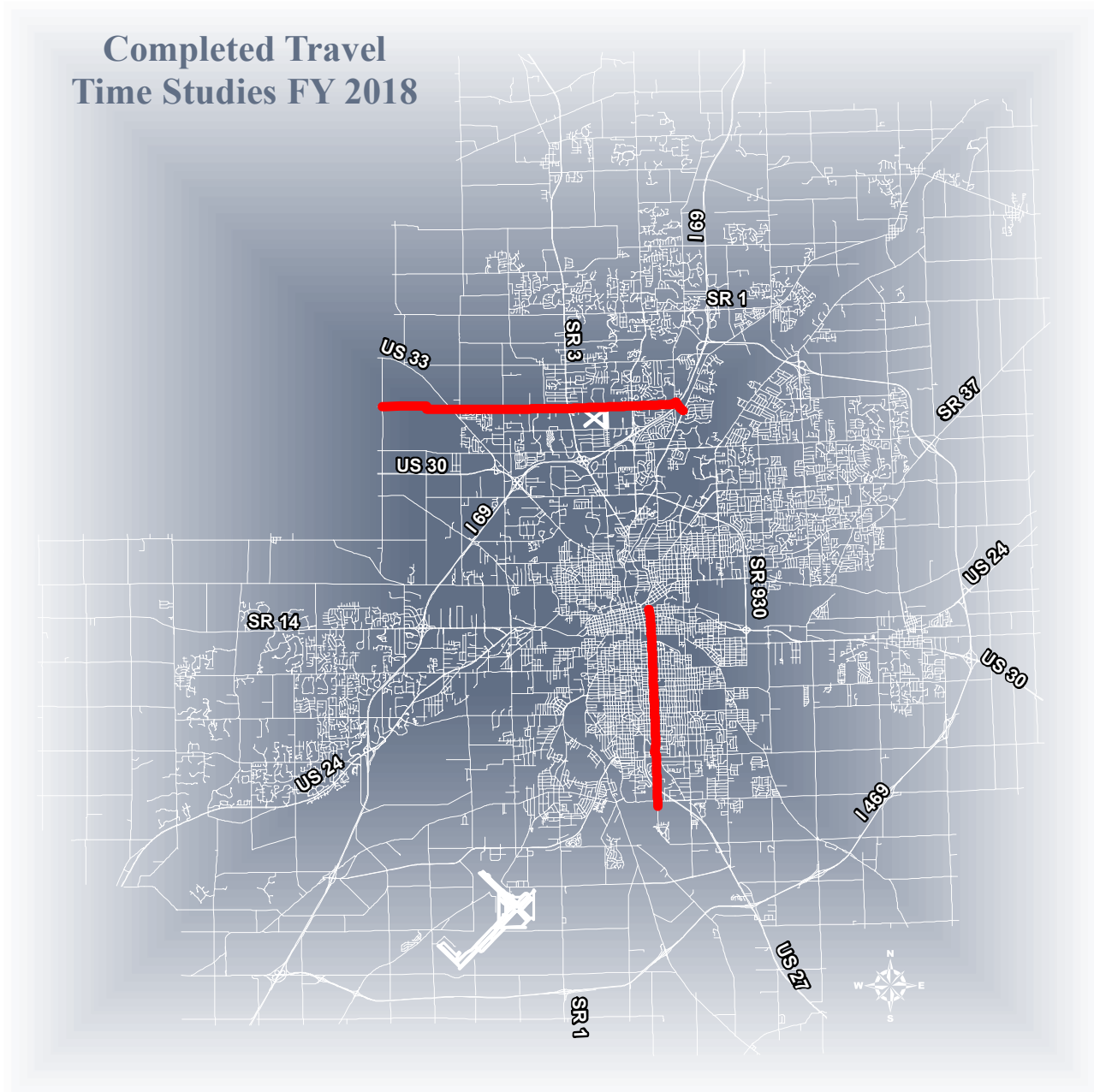
Figure 19

Travel Times Completed by Fiscal Year



NIRCC studied seven (2) corridors during Fiscal Year 2018 including: **1) Hanna Street** from Berry Street to Hanna Way and **2) Cook Road** from North Clinton Street to O’Day Road. The travel time studies completed during Fiscal Year 2018 are illustrated in Figure 20.

Figure 20



In order to calculate average travel times for a corridor, six runs are completed in each direction for three different time periods; morning peak travel (AM peak), evening peak travel (PM peak), and daytime travel (OFF peak). Traffic count information for each link in a corridor is examined to determine the peak hours.

In fiscal year 2007, NIRCC began using GPS (Global Positioning System) technology to conduct travel time and delay studies. The GPS software computes travel times by recording latitude and longitude coordinates every second during the travel time. The software takes this data and computes speed and time. This information can then be exported to create maps of every point taken by the software. We take the point data from the AM and PM peak time periods and create density maps. As the travel time vehicle slows down or stops, a mass of points are taken in a smaller area compared to the vehicle traveling at faster speeds resulting in more spacing between the points taken. The density maps shown in Figures 21 - 24 give the results of this data. You will see on the maps that as the travel time vehicle slows down or stops multiple times at any given point the areas are shown in red. The blue areas indicate the vehicle is traveling at faster speeds.

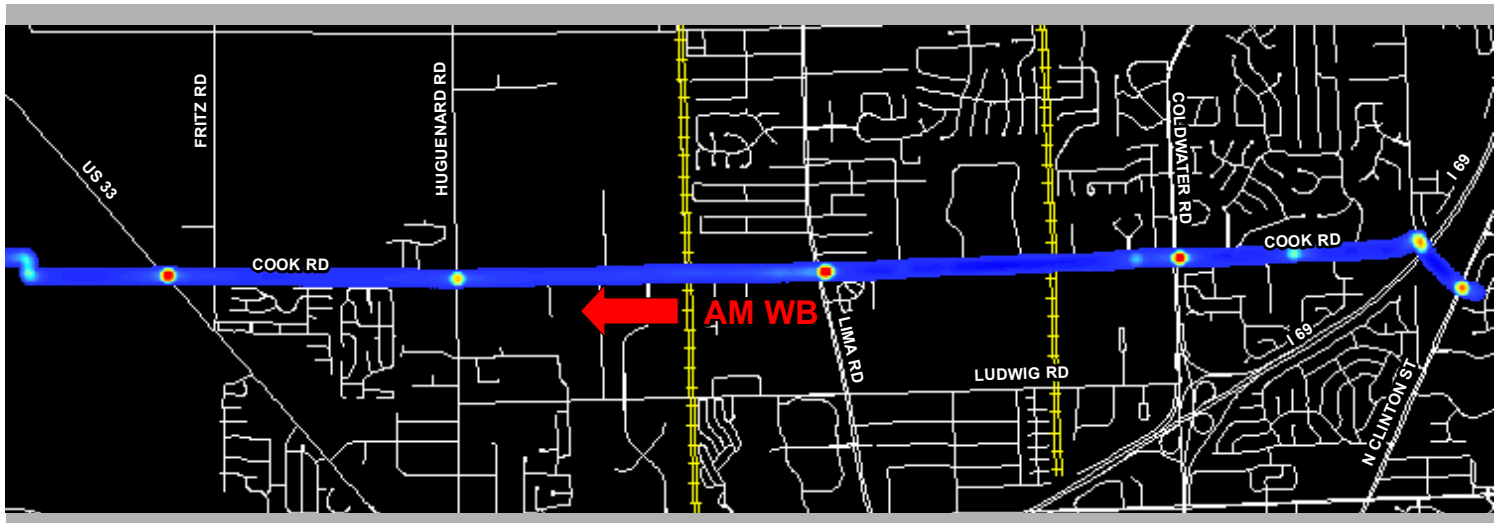
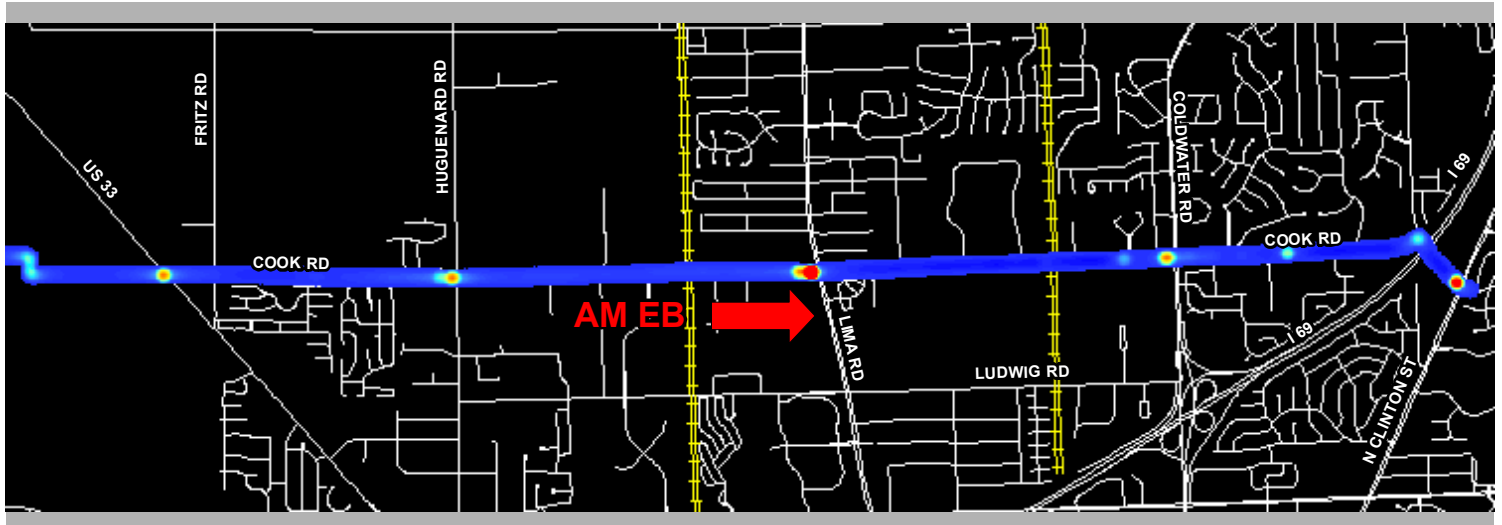
The following pages present a summary along with density maps of the two corridors studied in Fiscal Year 2018. Some of the density maps show only sections of the entire travel time while others show the entire corridor. The density maps provided in this report only show the AM and PM peak time periods in each direction. Red boxes around any of the density maps reveal that they are the travel time with the greatest amount of delay for that corridor. Green boxes around any of the density maps reveal that they are the time period with the least amount of delay for that corridor. If an Off peak time period experienced either the greatest or least amount of delay it will not be provided as a density map.

Bar graphs are also included on each page. Two of the bar charts display the average time that NIRCC staff actually encountered from the beginning to the end of the travel time corridor during the time period with the greatest amount of delay, shown in red, and the time period with the least amount of delay, shown in green. These two bar charts also display, in blue, what the travel time would be if there were no delays along the corridor. This time is reflective to what a person would experience if he or she were able to travel along this corridor at the posted speed limit without having to stop or slow down for traffic control devices and traffic congestion.

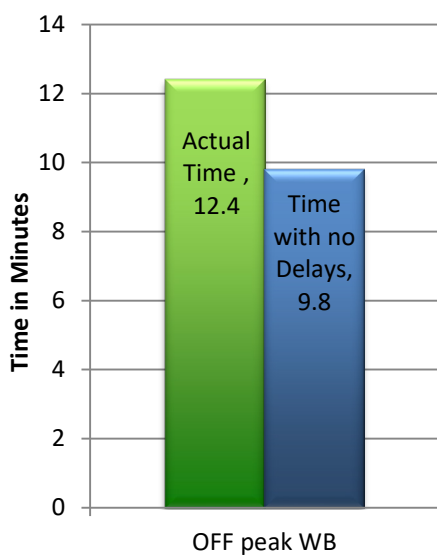
The other two bar charts display the average speed that NIRCC staff actually encountered from the beginning to the end of the travel time corridor during the time period with the greatest amount of delay, shown in red, and the time period with the least amount of delay, shown in green. These two bar charts also display, in blue, what the average speed would be if there were no delays along the corridor. This speed is reflective to what a person would experience if he or she was able to travel along this corridor at the posted speed limit without having to stop or slow down for traffic control devices and traffic congestion.

Travel Time and Delay Summary Section
for Fiscal Year 2018

Figure 21
Cook Road
AM Peak



Travel Time with the Least Amount of delay



*Off Peak Travel Times are not shown graphically.

Travel Speed with the Least Amount of delay

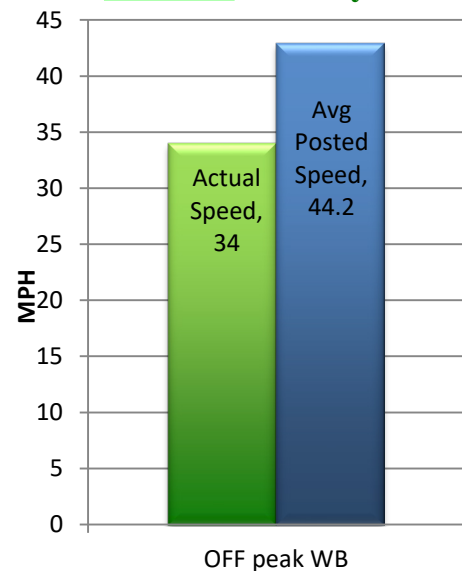
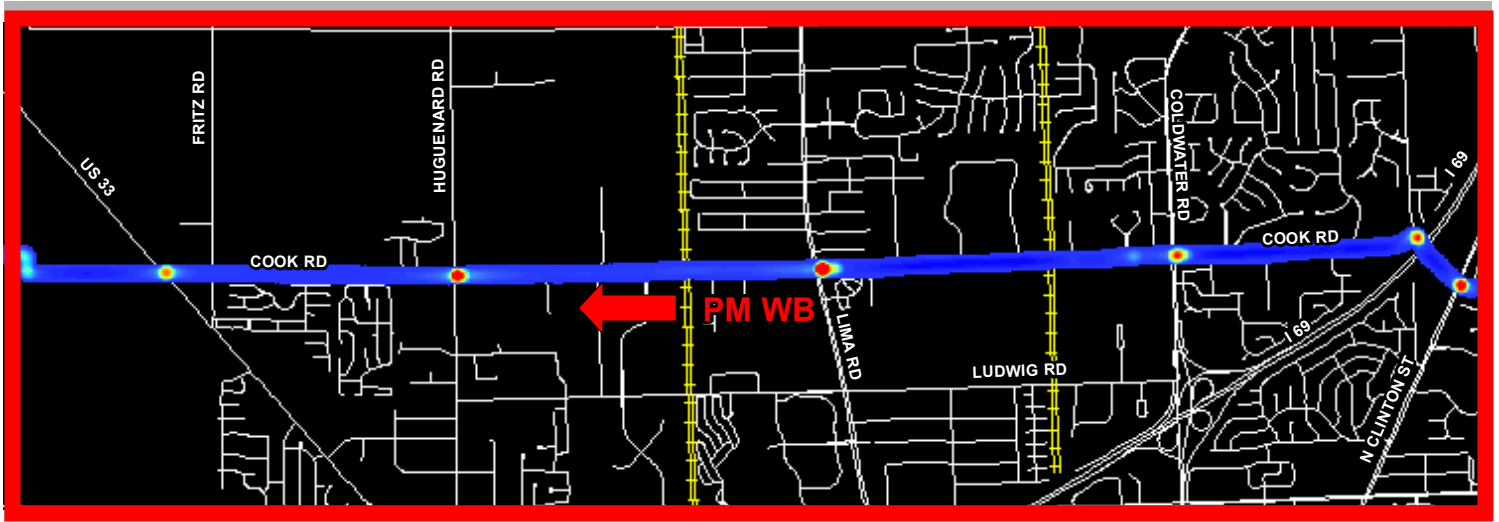
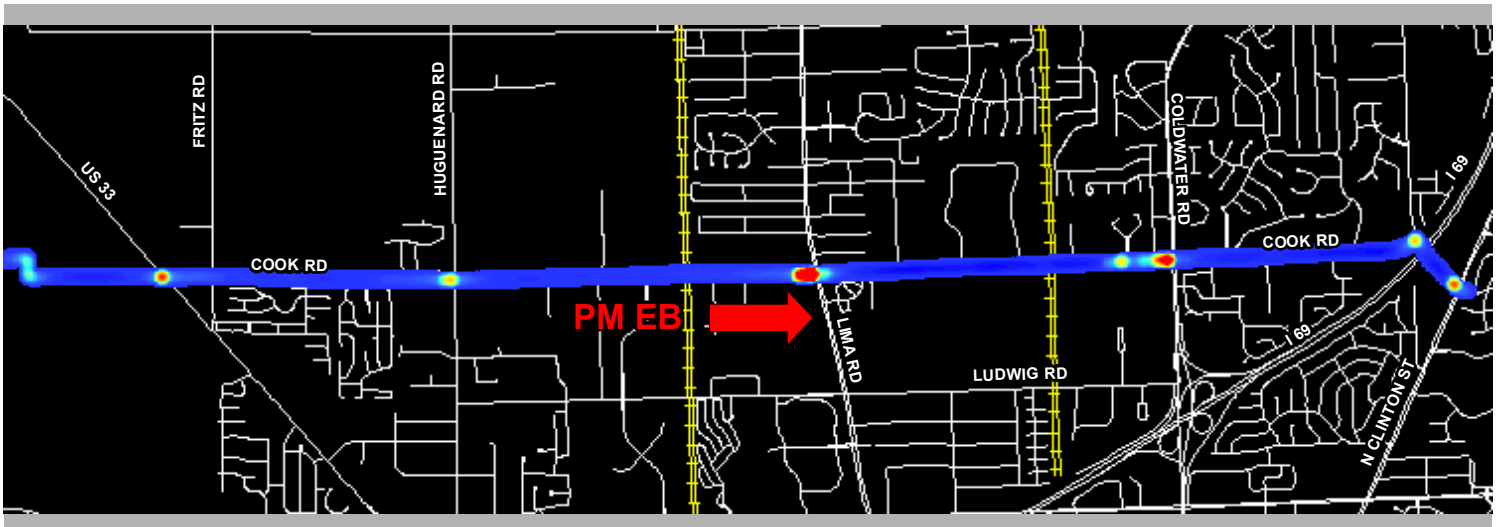
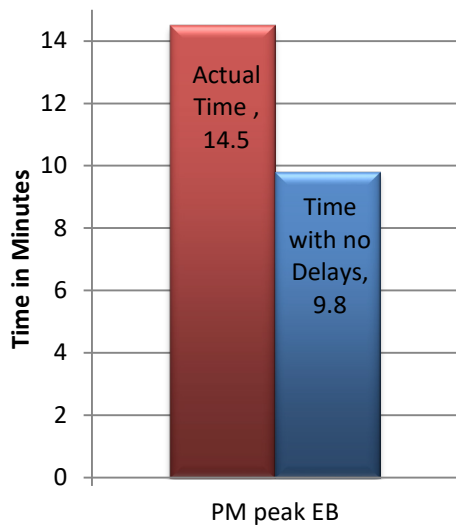


Figure 22
Cook Road
PM Peak



Travel Time with the Greatest Amount of delay



Travel Speed with the Greatest Amount of delay

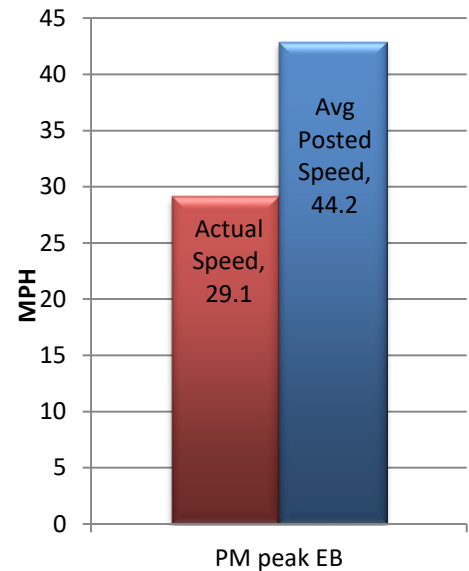
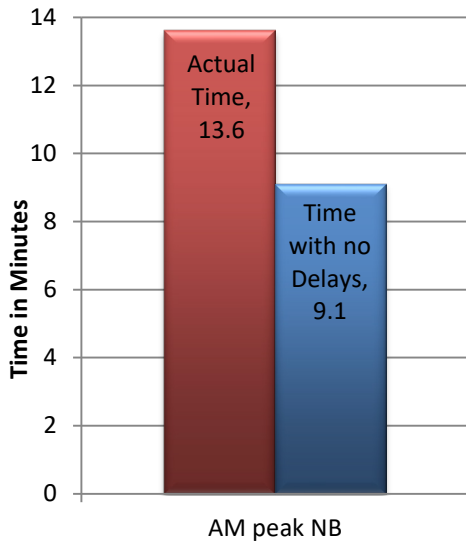


Figure 23

**Hanna St
AM Peak**

**Travel Time with the
Greatest Amount of delay**



**Travel Speed with the
Greatest Amount of delay**

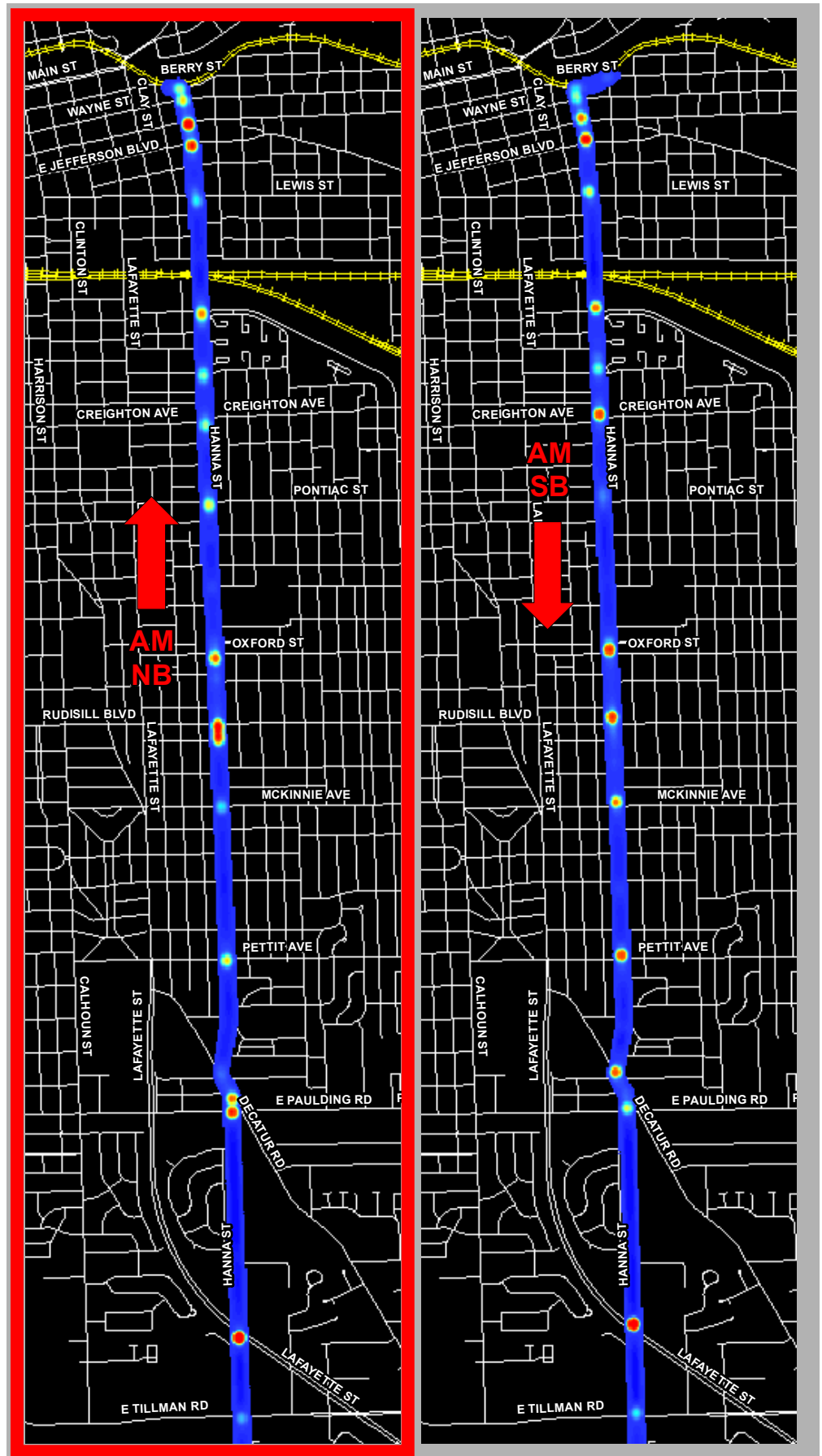
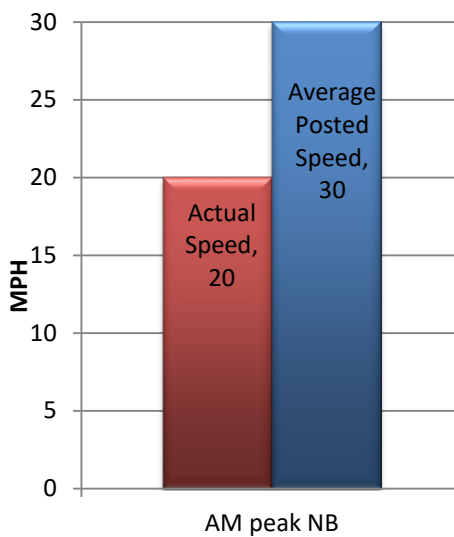
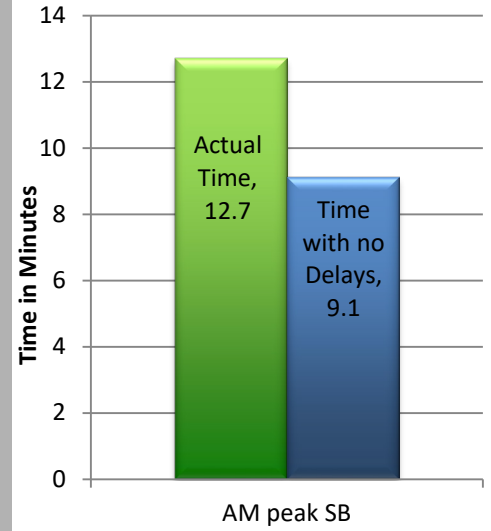


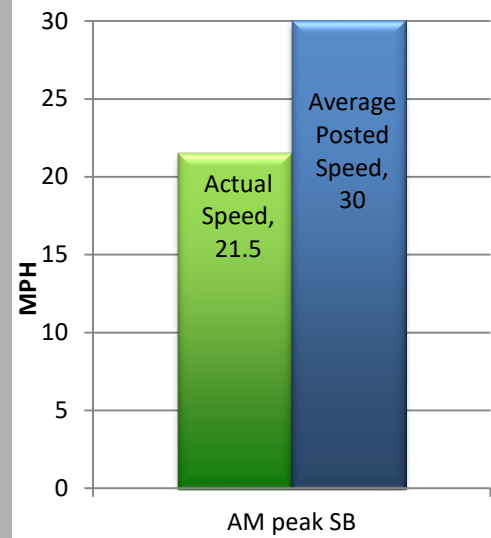
Figure 24

Hanna St
PM Peak

Travel Time with the Least Amount of delay



Travel Speed with the Least Amount of delay



Transportation Improvement Program

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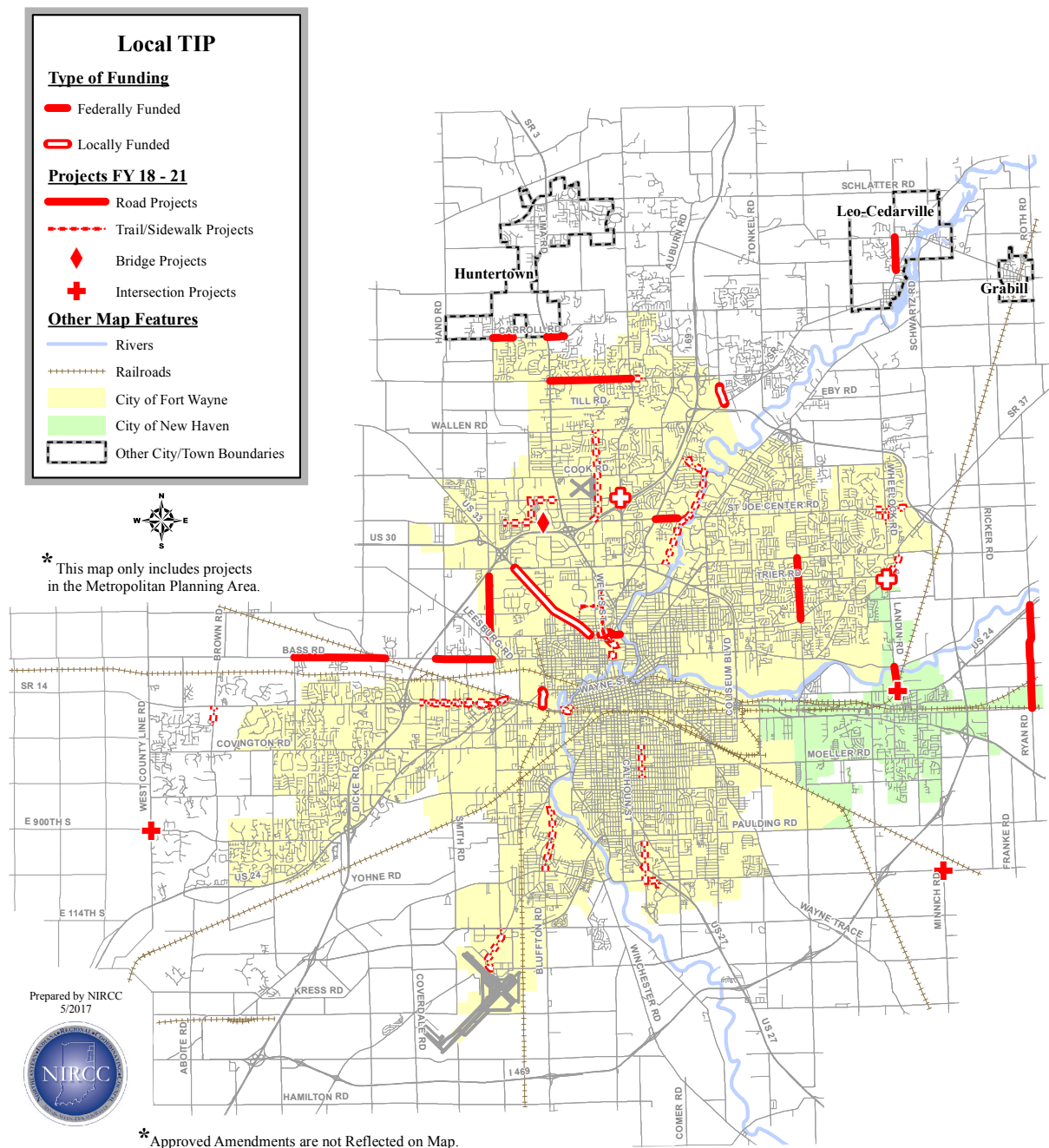
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Transportation Summary Report Fiscal Year 2018

TRANSPORTATION IMPROVEMENT PROGRAM (TIP) PROJECTS

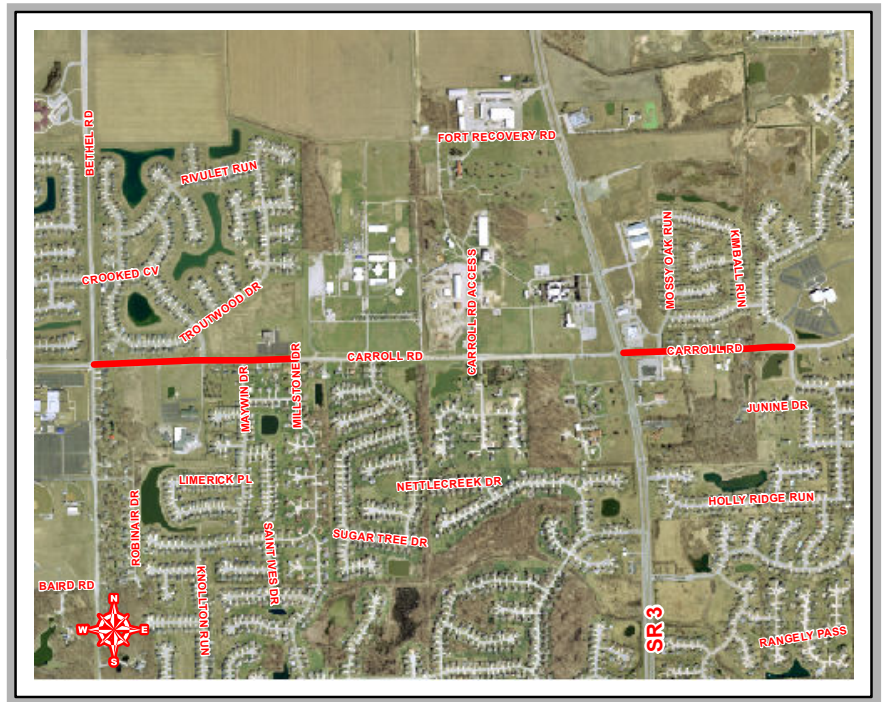
During Fiscal Year 2018, NIRCC updated the Transportation Improvement Program for Fiscal Years 2018-2021. NIRCC began publishing the Transportation Improvement Program (TIP) in 1977 as an annual document, however now it is being produced every other year to align with the INDOT State Transportation Improvement Program (STIP). The next TIP 2020-2024 will be prepared in Fiscal Year 2019. The TIP is a multi-year capital improvements program documenting highway and transit projects, which will serve the needs of the Fort Wayne-New Haven-Allen County Metropolitan Planning Area. The TIP is used to guide the expenditure of federal funds in our area. Short range and long range (2040) transportation plans including the Indiana Department of Transportation’s Capital Improvements Program are

Figure 25



used to formulate the TIP. The TIP includes commitments of the City of Fort Wayne, Fort Wayne Public Transportation Corporation, City of New Haven, Town of Huntertown, Town of Leo-Cedarville and Allen County to utilize and match federal funds. The Indiana Department of Transportation projects listed in the TIP represents commitments that the State of Indiana makes to improve the transportation system in the Metropolitan Planning Area.

Figure 26



Each project typically goes through three different phases before construction completion. These phases include preliminary engineering (PE), right-of-way engineering and acquisition (RW), and construction (CN). The preliminary engineering includes development of construction plans. Right-of-way engineering and acquisition includes the determination and actual purchase of the right-of-way needed for the project. The construction stage is the actual construction of the project. Each of the projects listed will go through one or more of the phases during the four-year period.

Figure 27

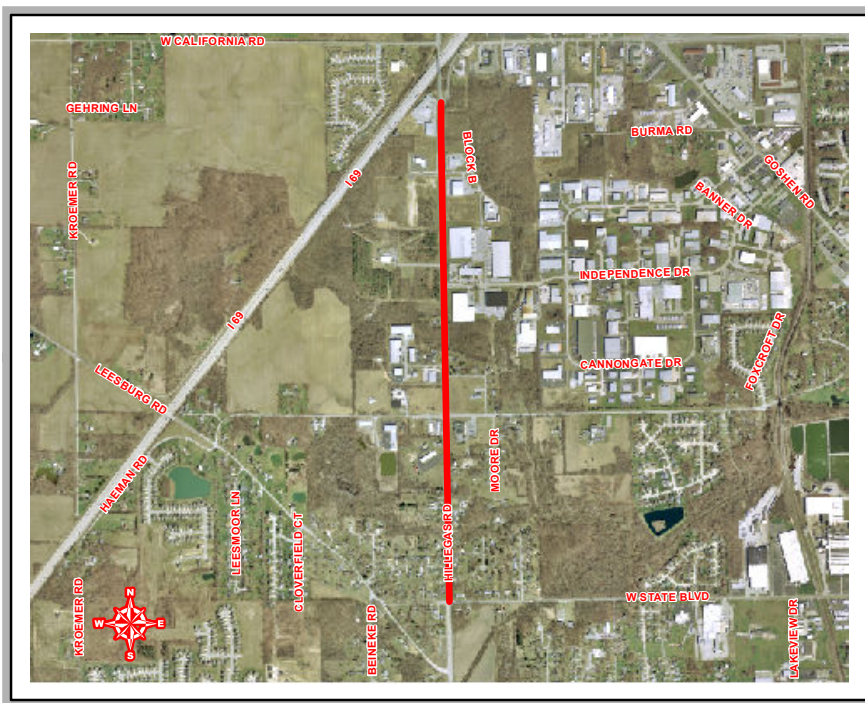


Figure 25 shows the locations of local TIP projects throughout the Metropolitan Planning Area. The local TIP map identifies projects that utilize federal aid funds with matching local funds from the City of Fort Wayne, City of New Haven, Town of Huntertown, Town of Leo-Cedarville and Allen County. Figures 26 and 27 provide aerial views to show detailed examples of projects shown in Figure 25. The following pages provide a listing of projects for each fiscal year and the phase for each project. Please note that projects listed on page 47 are locally funded projects only. Also note that not all projects

listed on the following pages are shown in figure 25 as some of the projects were amended after the map was made.

TRANSPORTATION IMPROVEMENT PROGRAM (TIP) PROJECTS LISTED
PHASE CLASSIFICATIONS

PE - Preliminary Engineering

RW - Right of Way

CN - Construction

FY 2018 TIP Federally and Locally Funded Projects

Project	Phase	Improvement Type
Bass Road Mitigation	RW/CN	Mitigation Site
Dupont Road: Lima Rd/SR 3 to Coldwater Rd	CN	Added Travel Lanes/Ped Underpass
Liberty Mills Rd/CR 900 at County Line Rd Int	CN	Roundabout
Minnich Road and Tillman Road Intersection	CN	Roundabout
State Boulevard: Spy Run Ave to Clinton St	CN	Added Travel Lanes
UPWP HSIP Funds	PE	Work Program Activities
Washington Ctr Road Bridge #95 over Spy Run Creek	CN	Bridge Reconstruction

FY 2019 TIP Federally and Locally Funded Projects

Project	Phase	Improvement Type
Amstutz Road: Hosler Rd to Leo Rd/SR 1	PE	Road Reconstruction
Broadway/St/Landin Rd: North River Rd to Powers St	RW	Intersection Imp/Road Reconstruct
Carroll Road: e/o Bethel Rd to Millstone Dr; Lima Rd/SR3 to Coral Springs Dr/Shearwater Run	PE	Road Reconstruction
St Joe Ctr/Wash Ctr Road: Clinton St to Campus Ct	CN	Intersection Imp/Added Turn Lanes
State Blvd: Clinton St to Cass St	CN	Added Lanes/Bridge/Ped Bridge
UPWP HSIP Funds	PE	Work Program Activities

FY 2020 TIP Federally and Locally Funded Projects

Project	Phase	Improvement Type
Amstutz Road: Hosler Rd to Leo Rd/SR 1	PE	Road Reconstruction
Bass Road: Clifty Parkway to Thomas Rd	CN	Road Reconstruction
Bass Road: Thomas Rd to Hillegas Rd	CN	Road Reconstruction
Maplecrest Road: State Blvd to Stellhorn Rd - Phase 1	CN	Road Reconstruction

FY 2021 TIP Federally and Locally Funded Projects

Project	Phase	Improvement Type
Amstutz Road: Hosler Rd to Leo Rd/SR 1	RW	Road Reconstruction
Bass Road: Hadley Rd to Scott Rd	RW	Road Reconstruction
Broadway/St/Landin Rd: North River Rd to Powers St	CN	Intersection Imp/Road Reconstruct
Carroll Road: e/o Bethel Rd to Millstone Dr; Lima Rd/SR3 to Coral Springs Dr/Shearwater Run	RW	Road Reconstruction
Hillegas Road: State Blvd to Coliseum Blvd	PE	Added Travel Lanes
Maplecrest Road: State Blvd to Stellhorn Rd - Phase 2	CN	Road Reconstruction

FY 2018 Fort Wayne Public Transportation Corporation

Four (4) Replacement Minibus (Body on Chassis)
ACCESS
Capitalization of Maintenance Costs

Complimentary Paratransit Costs
5307 Special Rule Operations

FY 2019 Fort Wayne Public Transportation Corporation

Two (2) Heavy Duty Replacement Hybrid Buses
Three (3) Replacement Minibus (Body on Chassis)
ACCESS

Capitalization of Maintenance Costs
Complimentary Paratransit Costs
5307 Special Rule Operations

FY 2020 Fort Wayne Public Transportation Corporation

One (1) Heavy Duty Replacement Hybrid Buses
Three (3) Replacement Minibus (Body on Chassis)
ACCESS

Capitalization of Maintenance Costs
Complimentary Paratransit Costs
5307 Special Rule Operations

FY 2021 Fort Wayne Public Transportation Corporation

Two (2) Heavy Duty Replacement Hybrid Buses
Capitalization of Maintenance Costs

Complimentary Paratransit Costs
5307 Special Rule Operations

FY 2018 Human Services Agencies

Community Transportation Network

Operating Funds
One (1) Small Transit Vehicle w/Lift
Two (2) Medium Transit Vehicle w/Lift

Easter Seals

One (1) Small Transit Vehicle w/Lift

***The following are Locally Funded Projects only.**

FY 2018 - 2021 TIP Locally Funded Projects

Project	Phase	Improvement Type
Ardmore Ave: Airport Exp to Second St	CN	Trail
Bluffton Rd: Lower Huntington Rd to W Foster Park (3 phases)	CN	Trail
Clay St at SR 1 (Leo-Cedarville)	CN	Intersection Improvement
Coldwater Rd: Union Chapel Rd to Pion Rd	CN	Add southbound Right Turn Lane
Covington Rd: Hadley Rd to Getz Rd	CN	Trail
Diebold Rd: N Clinton St to Berger Automotive (Phase II)	CN	Reconstruction, Sidewalk & Trail
Dupont Rd: Coldwater Rd to Pine Mills	CN	Trail
Goshen Rd: State Blvd to Cambridge Blvd (Phase I)	CN	Reconstruct, Roundabout, Sidewalks
Goshen Rd: Cambridge Blvd to Butler/Harris Rds (Phase II)	CN	Reconstruction, Sidewalks
Goshen Rd: Butler/Harris Rds to Coliseum Blvd (Phase III)	CN	Reconstruction, Sidewalks
Greenmoor Dr: Scarborough Dr to Green Dr (New Haven)	CN	Reconstruction
Hanna St: Berry St to Tillman Park/Southtown Cntr (5 Phases)	CN	Trail
Hathaway Rd: at Corbin Rd and at Union Chapel Rd	CN	Intersection Improvement
Illinois Rd: Rockhill Park to Magnovox Way (2 Phases)	CN	Trail
Kirklynn Dr: Moeller Rd to Greenmoor Dr (New Haven)	CN	Reconstruction
Lake Ave: Randalia Ave to Coliseum Blvd	CN	Trail
Landin/Maysville/Trier Intersection	CN	Roundabout, Sidewalk & Trail
Leesburg Rd: Main St to W Jefferson Blvd	CN	New Road, Sidewalk & Trail
Ludwig Rd: Brotherhood Way to Coldwater Rd	CN	Road Relocation
Main St Bridge #601 (New Haven)	CN	Bridge Rehabilitation
Maysville Rd: Landin Rd to Meijer Dr (2 Phases)	CN	Trail
Norland Ln: Moeller Rd to Greenmoor Dr (New Haven)	CN	Reconstruction
Old Lima Rd Bridge #52 (Huntertown)	CN	New Bridge
Old Lima Rd: Willow Creek Ditch to SR3 (Huntertown)	CN	Resurfacing
Pawnee Way: west cul-de-sac to ~165' e/o Shawnee Tr (NH)	CN	Resurfacing
St Joe Center Rd: Meijer Dr to Chiswell Run	CN	Trail
Shawnee Tr: Pawnee Way to Arrow Pass (New Haven)	CN	Resurfacing
E State Blvd: between Maysville Rd to Lahmeyer Rd	CN	New Bridge #319 & New Sidewalk
Washington/Jefferson Blvds: St Mary's River Br to Garden St	CN	Streetscape
West Hamilton Rd Bridge #221	CN	New Bridge and Trail extension
Wheelock Rd: St Joe Ctr Rd to Mill Ridge Run	CN	Trail
Winters Rd: I-69 to Lower Huntington Rd	CN	Road Extension to GM

Quarterly Review Meetings

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QUARTERLY REVIEW MEETINGS

Each quarter the Northeastern Indiana Regional Coordinating Council (NIRCC) schedules a quarterly review meeting for all federally funded Local Public Agency (LPA) projects in the Transportation Improvement Program (TIP). The reports are due on the 20th of the month following the end of the quarter. NIRCC's quarterly review meeting is scheduled typically two weeks after this date.

NIRCC has created a report, along with the Indiana Department of Transportation (INDOT) that is filled out by the LPAs. Once the LPA completes the report it is then sent to NIRCC for approval. After approval from NIRCC, the report is then sent to INDOT.

At the quarterly review meeting each project is allotted 15 minutes for review. The LPA and consultant are requested to attend the meeting. If the consultant is located outside of Fort Wayne they are able to call into the meeting rather than attend. Others attending the quarterly meeting include INDOT representatives with Planning and Programming, INDOT Right of Way, and Federal Highway Administration staff. We have an excellent turnout and feel this really increases communication and understanding of the project.

Important information to review at the meetings include cost totals, federal funding and LPA match funds, permits needed, right of way parcels needed, schedule updates, utility relocations, items completed, and any potential problems. Many issues are resolved at the quarterly review meeting, thus saving time and money.

The information received at the quarterly review meetings allows staff to determine if projects are progressing on schedule and on budget. This information is then used to help program the projects in the Transportation Improvement Program.

Figure 28

St Joe Ctr Rd: Clinton St to Campus Ct #0710322

TIP	Phase	Total Cost	Year	Federal	Local	% Split
2018-2021	PE	493,310	2016	394,648	98,662	80/20
	RW	250,000	2017	200,000	50,000	80/20
	CN	2,812,500	2019	2,250,000	562,500	80/20
	CE	412,500	2019	330,000	82,500	80/20
	Total	3,555,810		2,844,648	711,162	

Project Cost	Initial Report	Previous Report	Current Report	Federal Funds	Local Match
	Jan-14	Jul-18	Oct-18	Oct-18	Oct-18
	Preliminary Engineering (PE)	\$300,000	\$493,310	\$493,310	\$394,648
Right of Way Acq (RW)	\$250,000	\$50,000	\$50,000	\$40,000	\$10,000
Utilities & Railroad	n/a	\$0	\$0	n/a	n/a
Construction (CN)	\$1,700,000	\$4,154,995	\$4,817,682	\$3,854,146	\$963,536
Construction Engineering (CE)	\$300,000	\$519,376	\$519,376	\$415,501	\$103,875
Total cost	\$2,550,000	\$5,217,681	\$5,880,368	\$4,704,294	\$1,176,074

POs & Invoices	PE	RW	Last Invoices	#	date
	Funding Programmed	\$394,648	\$200,000	PE	33
PO Amt Programmed	\$394,648	\$200,000	RW	6	9/20/18
Additional Funding Avail	\$0	\$0			
Total Invoiced	\$340,050	\$97,576			
Current Avail Funding	\$54,598	\$102,424			

Land acquisition	Jul-18	Oct-18
completion date: 2/16/18	# secured	# secured
total parcels: 21	15	15

Utilities	Name of Utility w/Contact Info	confirm w/in project limits	location verified on plans	request work plan	work plan approved	final plans to utility
	American Electric Power	Yes	Yes	Yes	No	No
	Comcast Cablevision	Yes	Yes	Yes	No	No
	City of Fort Wayne Water	Yes	Yes	Yes	No	No
	City of Fort Wayne Sewer	Yes	Yes	Yes	No	No
	Frontier	Yes	Yes	Yes	No	No
	Indiana Fiber Network	Yes	Yes	Yes	No	No
	NIPSCO Gas	Yes	Yes	Yes	No	No
	Zayo Broadwidth	Yes	Yes	Yes	No	No

Permits	Rule 5	IDEM 401	ACOE 404			
required	yes	yes	yes			
applied	1/19/16	1/7/17	1/29/18			
approved	3/15/16	2/7/18	3/7/18			
expires	2/17/21	2/7/20	12/15/19			

Milestones	Actual		Proposed Change	% Complete	Comments
	Start Date	Completion Date			
Request for Proposals NTP to consultant		n/a			
Start Plan Develop	7/17/13	n/a		100%	
Stage 1 Design	6/3/14	12/10/14		100%	
Utility Locations Verified					
Prelim Field Check	6/3/14	n/a		100%	
Environmental Doc.	6/3/14	3/28/16		100%	CE Level 2
Hearing Certification					
Stage 2 Design					
Pavement Design					
FMIS for RW phase		n/a			
Utility Work Plans App					
Gantt Chart for					
6 mo prior to RW Clear		2/25/18			
RW Clear	2/11/15	8/24/18			
NTP to Utilities					
CE contracts					
Stage 3 Design	12/2/14	8/24/18			
Final Tracings		10/8/18			
Ready for Contracts	4/22/16	11/7/18			
Letting		1/16/19			

Comments
12-4-18 Supplemental Agreement \$22,654 (Federal Amt \$18,123)

TITLE VI & ADA (Americans with Disabilities Act)

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TITLE VI & ADA (AMERICANS WITH DISABILITIES ACT)

The Federal Highway Administration (FHWA) Division Offices are responsible for ensuring that all Recipients (State Transportation Agencies) have an approved Title VI/Nondiscrimination Plan and submit Annual Update Reports. Additionally, the Division Offices are responsible for ensuring that the State Transportation Agencies are implementing an effective Monitoring Program of their Subrecipients' (Local Public Agencies) efforts to effectively implement Title VI and the additional Nondiscrimination requirements.

The Indiana Department of Transportation (INDOT) has made LPAs aware that they must have a Title VI Implementation Plan and an ADA Transition Plan in place (or working towards this) to remain eligible for Federal funding.

During FY 2013 the Northeastern Indiana Regional Coordinating Council (NIRCC) reached out to help LPAs (Local Public Agencies) become familiar with ADA requirements and assisted them with creating ADA Transition Plans. To remain eligible for federal transportation funding, LPAs were reminded that they need to be in compliance and have updated their transition plans. The goal was to ensure that LPAs had a specific plan of action and had reviewed and completed their updated ADA Transition Plans. NIRCC continues to assist LPAs with their ADA Transition Plans to remain compliant.

In FY 2015 NIRCC began assisting LPAs with their Title VI Implementation Plan. Most LPAs were practicing nondiscrimination, however, they did not have all the information and documents compiled into an Implementation Plan. Similar to the process taken in FY 2013 with the ADA requirements, NIRCC reached out to the LPAs to offer assistance.

A Title VI Implementation Plan consists of the following items:

- Policy Statement
- Organization and Staffing
- Title VI Coordinator Contact Information and Responsibilities
- Department Head (Liaisons) Responsibilities
- Department Head Reporting
- Title VI Training
- Complaint Process
- Complaint Investigation Procedures
- Public Participation and Outreach

- Limited English Proficiency (LEP) Plan
- Title VI Goals
- Title VI Reporting and Accomplishments
- Standard US DOT Title VI Assurances
- Title VI Compliance Review Form
- Training Log
- Complaint Log
- Voluntary Public Involvement Survey
- LEP Report
- Language Identification Flashcards

During FY 2018 NIRCC assisted with the development of the Altona Title VI Implementation Plan and the Altona ADA Transition Plan. NIRCC also assisted Leo-Cedarville on creating a Title VI Implementation Plan.

Safety Management System

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SAFETY MANAGEMENT SYSTEM

NIRCC maintains a Safety Management System (SMS) for the entire Allen County Area. A SMS is a systematic process that has the goal of reducing the number and severity of traffic accidents by ensuring that all opportunities to improve safety (i.e. highway planning, design, construction, maintenance, and operation) are identified, considered, implemented where appropriate, and evaluated.

Safety in transportation planning and project development is a high priority. The increase in available funds for safety improvements supports the importance of safety projects. Improved crash information sources and new analytical tools have created better evaluation tools to identify problematic areas. NIRCC is responding to these changes with additional resources applied to crash data analysis and GIS applications. The goal for transportation planners is to find where the problems exist, make recommendations for improvements and seek funding to implement projects. The first step is often the most difficult, which is to identify what locations are most hazardous within the community.

In Fiscal Year 2018 NIRCC obtained all crash records that occurred in Allen County during 2017. The data was extracted from the Indiana State Police database ARIES (Automated Reporting Information Exchange System). Staff worked to “code” each crash location with like descriptions to ensure that all crashes occurring at a specific site were grouped together. Crash descriptions were reviewed for spelling and alphabetical order resulting in a listing of crashes that could be summarized to identify a total number of crashes at various geographical points. All crash information is included in the database to aid in various types of analysis. The final summary for each year is provided to local technical representatives to aid in review of locations and to respond to citizen requests for improvements at a location for safety reasons. Officials can review the data provided to determine the crash experience and other variables that may be present.

Once staff completed the “coding” process for the 2017 crash data and included it in the crash database, NIRCC combined the 2017 crash data with the 2015 and 2016 crash data to create a three year comparison. These crashes were also input into mapping software to be used with GIS (Geographical Information Systems). Figures 29, 30, and 31 display the densities of crash frequencies for the Fort Wayne, New Haven, and the Allen County area.

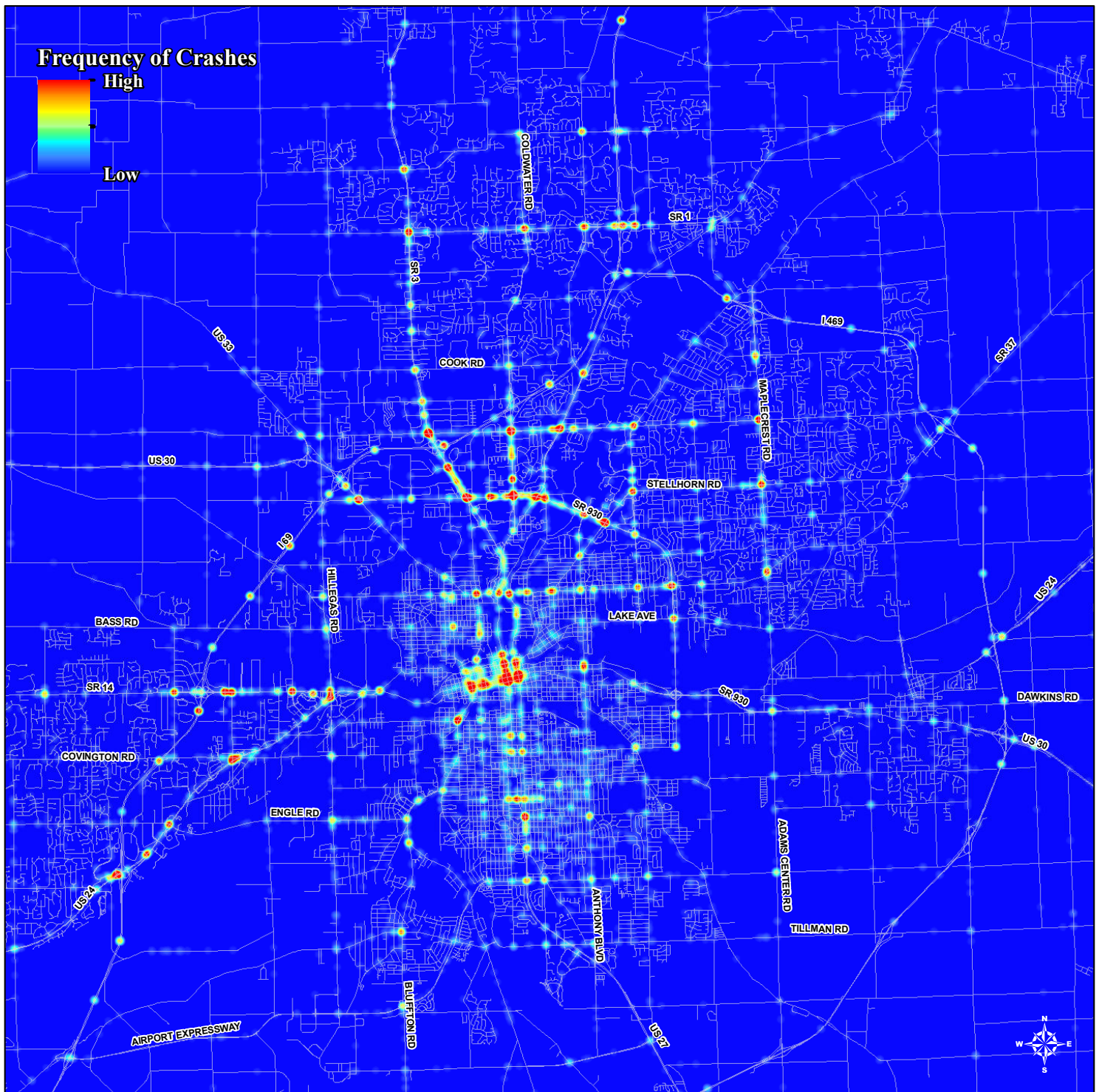
Annual Summary and Listing of Crash Locations

The annual crash record database is first used to provide an annual crash summary report for local jurisdictions (Allen County - all cities and towns, Fort Wayne, and Allen County - outside incorporated areas). The summaries include statistical data that focuses on detailed crash information from the crash reports. The information provides engineers,

planners and law enforcement with a summary of information from the crash reports. The information includes specific data about the circumstances involved with crashes including environmental circumstances, driver information, vehicle information and other important data for all the annual crashes.

The second product from annual crash data is a summary or listing of the hazardous crash locations from the previous year. Every year staff utilizes two procedures to identify crash locations with a higher frequency of crashes and another

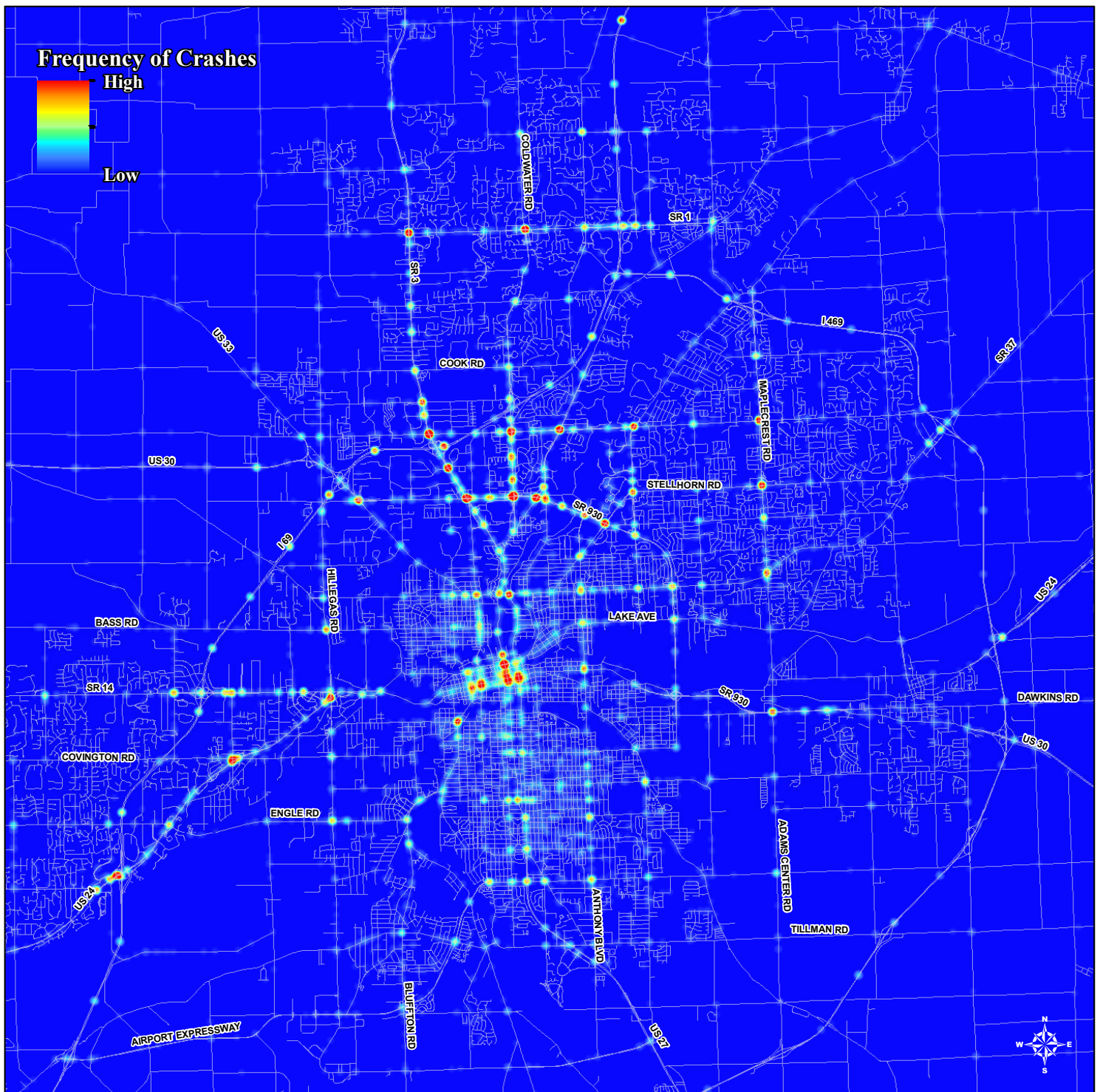
Figure 29 - 2017 Crash Data



for locations with a lower crash frequency. Identification of crash frequency is provided through use of GIS software that creates buffers around intersection crash locations. The buffers are created using a 250 foot radius around each crash location and grouping all crashes within itself. This process resulted in crash locations that reflect crashes that occurred at approaches to intersections in addition to crashes within an intersection.

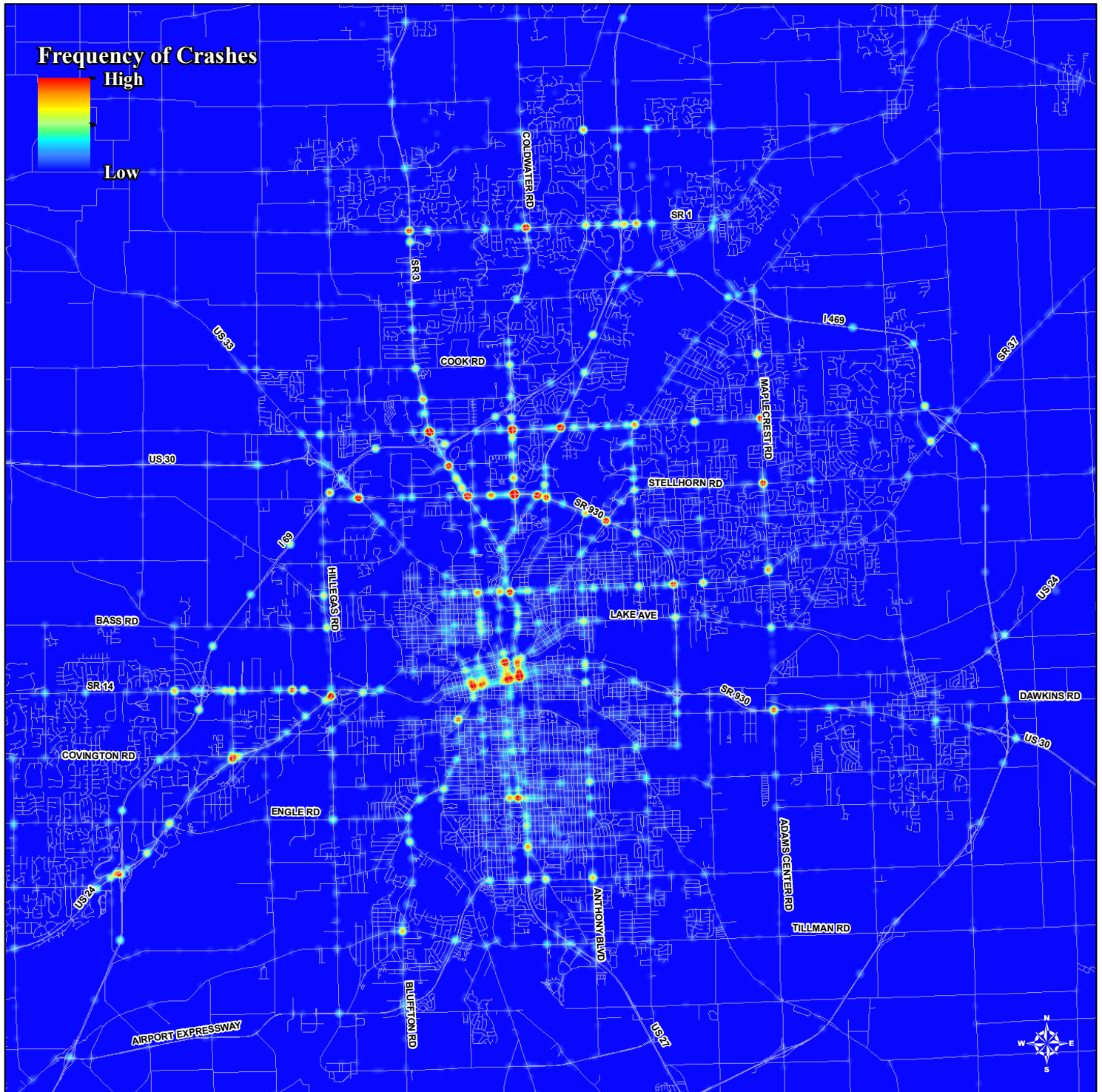
High frequency crash locations were defined as those with an annual crash frequency greater than or equal to seven (7).

Figure 30 - 2016 Crash Data



Locations identified with this frequency are listed and traffic volumes are applied to each of the locations to determine the RMV (rate per million entering vehicles). The RMV value is then used to sort locations. Locations that have a RMV greater than or equal to 2.00 for one year remain in the listing for further review. Additional locations are also added to the listing of crashes with a frequency greater than or equal to seven (7) if they are locations with a high crash severity or result in a high percentage of injuries or fatalities.

Figure 31 - 2015 Crash Data



Staff reviewed crash locations and recorded the total number of crashes that resulted in injury or fatality. This information was used to determine the percentage of total crashes at each location that were property damage only and the percentage that resulted in injury or fatality. Staff and the Transportation Technical Committee agreed to include any location that experienced an injury or fatality percentage greater than 66% in the annual list for further review.

A process to review crash locations with a lower crash frequency was also established to ensure that locations with a low volume of traffic are not experiencing a consistently high percentage of crashes based on the number of vehicles using a location. The lower crash frequency crashes were also included where the percentage of injury or fatal crashes was higher. Crash locations with an annual crash frequency of 6, 5, 4, or 3 were included in the annual listing of locations for further review if the rate per million entering vehicles was greater than or equal to 1.00 and the percentage of injuries and fatalities exceeded the following thresholds;

<u>Frequency</u>	<u>Percentage of I/F</u>
6	100% to 33 %
5	100% to 40%
4	100% to 50%
3	100 % to 66%

Hazardous Location Identification

In Fiscal Year 2018 staff reviewed all the crash location listings created for 2015, 2016, and 2017 based on the approved process described above. In the past, staff worked with TTC to determine the most accurate manner to identify hazardous locations from data collected for a three year period. TTC members and staff agreed that crash locations identified annually were not necessarily hazardous unless the location experienced similar patterns over the previous two years. Staff created a listing of locations that met the hazardous criteria for 2015, 2016, and 2017. These locations were then reviewed using crash rates and HAT (Hazard Analysis Tool) software developed by the Indiana Department of Transportation and Purdue University.

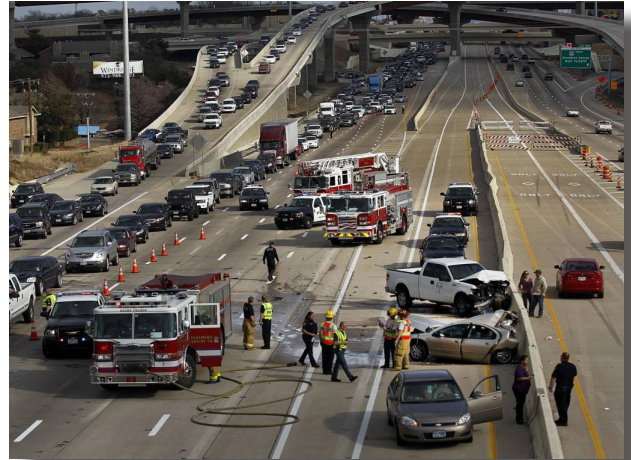
HAT software considers the total number of crashes, traffic volume, total number of injury/fatal crashes, facility type and location type (US Route, State Route, Rural or Urban). The software was developed to compare the number of crashes and severity of the crashes at a location being reviewed to other locations that are similar throughout the state. A crash frequency index and crash cost index is determined with the software to determine if a location is operating above or below what is anticipated. Locations with an index greater than or equal to 1.00 are considered to be operating below an acceptable level.

The final step in identifying the hazardous locations was to determine how to select locations from the listing for further review. Representatives from TTC provided input to staff on methods to screen the final listing of the three years.

Staff will review the locations selected to determine the cause of all the crashes and provide collision diagrams to TTC to determine what course of action to take to mitigate crashes at each location. The listing of locations will continue to be updated annually to review trends and previously identified hazardous locations. Additional locations that meet the approved criteria will also be added.

Traffic Incident Management (TIM)

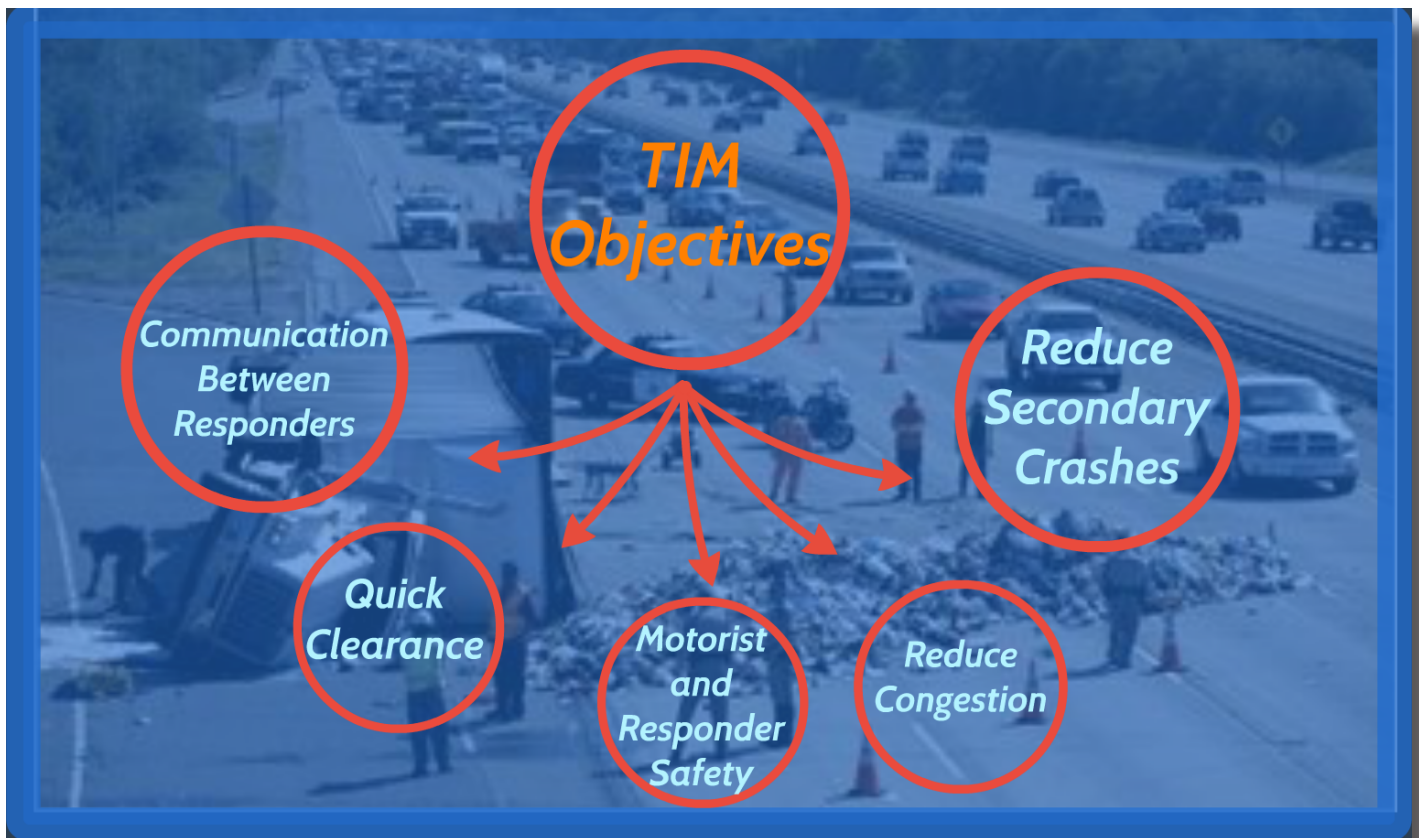
In 2007 the Indiana Quick Clearance Working Group was created to research and develop Quick Clearance practices in the State of Indiana. In 2008 the In-TIME initiative was implemented and in 2009 the Indiana Quick Clearance Working Group was changed to IN-TIME (Indiana Traffic Incident Management Effort). The purpose of the INdiana-Traffic Incident Management Effort (IN-TIME) is to have first responders, from all disciplines follow agreed upon multi-lateral policies and procedures focusing on an “Open Roads Philosophy”. The Open Roads Philosophy is “Having all



First Responders, after ensuring their own personal safety and the safety and security of any incident victims, to have as their top priority reducing congestion and the increased risks of secondary incidents for public/motorist safety”. The IN-TIME group also works to provide a common framework for development of traffic incident management (TIM) policies and training programs for the various responder disciplines. TIM is a planned and coordinated program process to detect, respond to, and remove traffic incidents and restore traffic capacity as safety and quickly as possible.

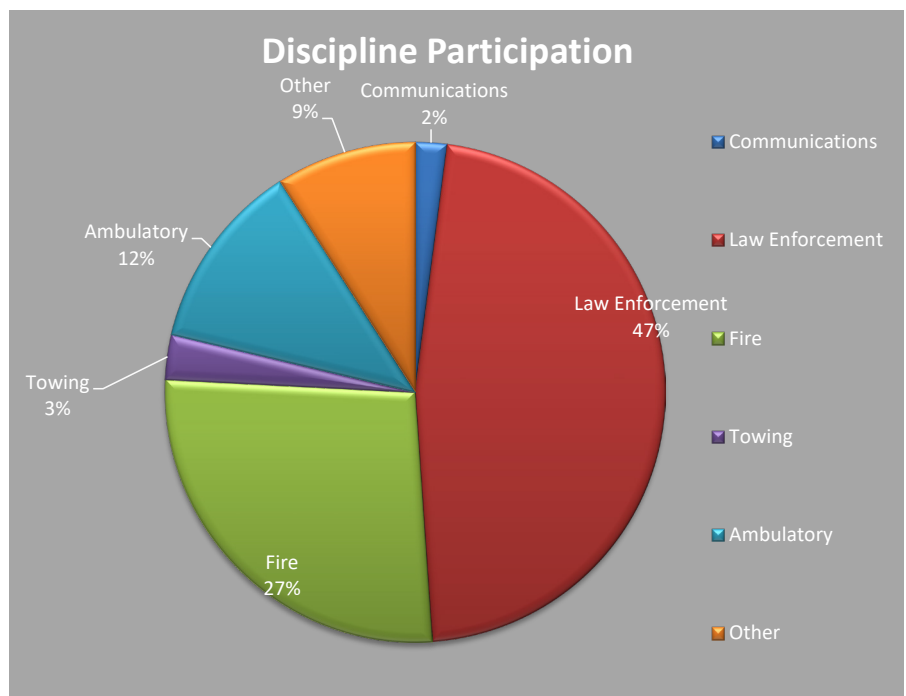
In 2013 the Northeastern Indiana Regional Coordinating Council (NIRCC) assisted in forming a committee of local representatives to implement Traffic Incident Management (TIM) strategies in Northeast Indiana called the Northeast Indiana Traffic Incident Management Committee (NE IN TIM). NIRCC identified local public and private sector stakeholders that were interested in the concepts and fundamental mission of the initiative. The purpose of the committee is to develop and recommend policy and operational protocols for the safe and efficient mitigation of traffic incidents through training and education of all first responders.





The committee is currently comprised of 41 representatives from multiple disciplines that include both public and private agencies. Disciplines represented on the committee include: Figure 32

- 911 Communications/Dispatch
- Law Enforcement
- Safety & Environmental Affairs
- Fire Departments
- Coroner’s Office
- Environmental Clean Up
- Health Department
- Tow Operator
- Homeland Security
- Paramedic / Medical Transport
- Prosecutors Office
- Department of Transportation
- Transportation Planning



The NE IN TIM Committee has 34 local representatives certified to conduct training to first responders. NIRCC has assisted in organizing 33 four hour TIM training sessions since December 2013. The graph above provides a summary of the 1413 responders by disciplines that have attended TIM training sessions.

Congestion Management Process

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CONGESTION MANAGEMENT PROCESS

In December 1993, final interim guidelines were developed which established general requirements for the Congestion Management Process - CMP (previously known as the Congestion Management System - CMS) and identified deadlines for work plan submission and for the CMP to become operational. In August 1994, Purdue University, INDOT and FHWA published the draft final report for development of a prototype congestion management system for the State of Indiana as a Joint Highway Research Project. The study delineated a comprehensive set of guidelines and a nine-element work plan to be undertaken in developing the CMP in a consistent manner statewide.

NIRCC developed the initial CMP by following the guidelines provided by the Congestion Management Process Work Plan developed for the State of Indiana. That plan specified that each CMP include the following elements:

- Define CMP Network
- Establish Performance Measures
- Establish System Performance Standards
- Establish Data Collection and Monitoring Program
- Identify Roadway and Transit System Deficiencies
- Analyze and Evaluate Congestion Mitigation Strategies
- Implement Strategies
- Evaluate the Effectiveness of Implemented Strategies
- Establish CMP Update Process

NIRCC's original Congestion Management Process Work Plan was completed in May 1995 and adopted by the Urban Transportation Advisory Board at its June 6, 1995 meeting. The work plan was submitted to the Indiana Department of Transportation, and an updated work plan was submitted at the conclusion of Fiscal Year 1996 and adopted in Fiscal Year 1997. The Fiscal Year 2018 CMP continues to utilize the work plan elements listed above to ensure all federal requirements are met.

The Fort Wayne / New Haven / Allen County Metropolitan Planning Area or Transportation Management Area boundaries were established as the geographic study area for the Congestion Management Process. Urban areas with populations over 200,000 have been directed to use the Metropolitan Planning Area boundaries for the Congestion Management Network. The current congestion management network is displayed in Figure 33.

Transportation Plan. These projects and policies will continue to be included in future Transportation Plan updates.

The transportation planning process has routinely reviewed existing congestion and projected travel demands to assess the potential for future congestion on the transportation system. Strategies, including both transit and highway projects and policies, have been developed, implemented, and evaluated. These strategies have been identified and documented in Transportation Plans and Transportation System Management Programs.

Additional projects and policies implemented to help mitigate congestion and improve overall mobility on the transportation system include Access Management, Transit Improvements, ITS/Signalization Improvements, Incident Management, Safety Management, and Pedestrian/Bicycle Access Improvements. Many of these items are described throughout the Transportation Summary Report as many of the elements summarized are used in conjunction with the CMP and utilize these elements.

NIRCC also has an extensive traffic monitoring program which collects: traffic volume and vehicle classification information; intersection turning movements and geometrics; signal phasing and timing information; travel time and delay data; crash data; and other types of traffic characteristic data. NIRCC also maintains a roadway characteristic database, which includes traffic volumes, length, number of lanes, indicates transit routes, facility classifications, and much more for specified road segments within the TMA. Data is collected annually for these programs in accordance with the Overall Work Program (OWP).

When analyzing the highway system for roads classified as collector or higher, the traffic monitoring program provides the majority of the data needed for a macro analysis. Existing traffic count data for all links within the study area is analyzed according to lane capacities. Roadway volume to capacity (V/C) ratios were calculated using morning and evening peak hour volumes. Actual directional peak hour volumes were used if available. When directional data was not available, average daily traffic (ADT) volumes, and default “D” and “K” factors were used to determine volume to capacity ratios for peak periods. Based upon the recommended benchmark V/C ratios, staff identified which road segments exhibited V/C ratios above the acceptable limits.

The volume to capacity ratio is a key indicator of the degree to which the highway system is being utilized, and is somewhat sensitive to demand responsive strategies. The vehicle miles of travel (VMT) estimate is used primarily as a weighting factor across hours and geographic areas. Total VMT is primarily a base to which changes in the percent VMT can be referenced. If the total VMT increases significantly, but the percent VMT at a given V/C ratio remains constant, the system is accommodating increases in travel demand without increased congestion.

All road segments in the TMA with V/C ratios greater than 0.80 (the most restrictive ratio) were identified, mapped, and color-coded according to levels of congestion (0.80 - 0.89; 0.90 - 0.99; 1.0 +). The macro-level analysis identified some road segments not included on the congestion management network. As a result of the analysis, all roadways in the TMA exhibiting V/C ratios exceeding 0.80 were considered as additional components of the congestion management network. The roadways with AM and PM V/C ratios exceeding 0.80 of their respective lane capacities based upon the macro analysis are displayed in Figures 34 and 35. Segments that have V/C ratios greater than 0.80; 0.90; and 1.0 have been separated by color.

In evaluating changes in congestion over time, it is important that each hour be evaluated, not just the peak hour. In locations where the V/C threshold has been exceeded, congestion generally worsens through the spreading of the peak. If hourly information is not provided, the ability to evaluate changes in congestion over time is lost. An

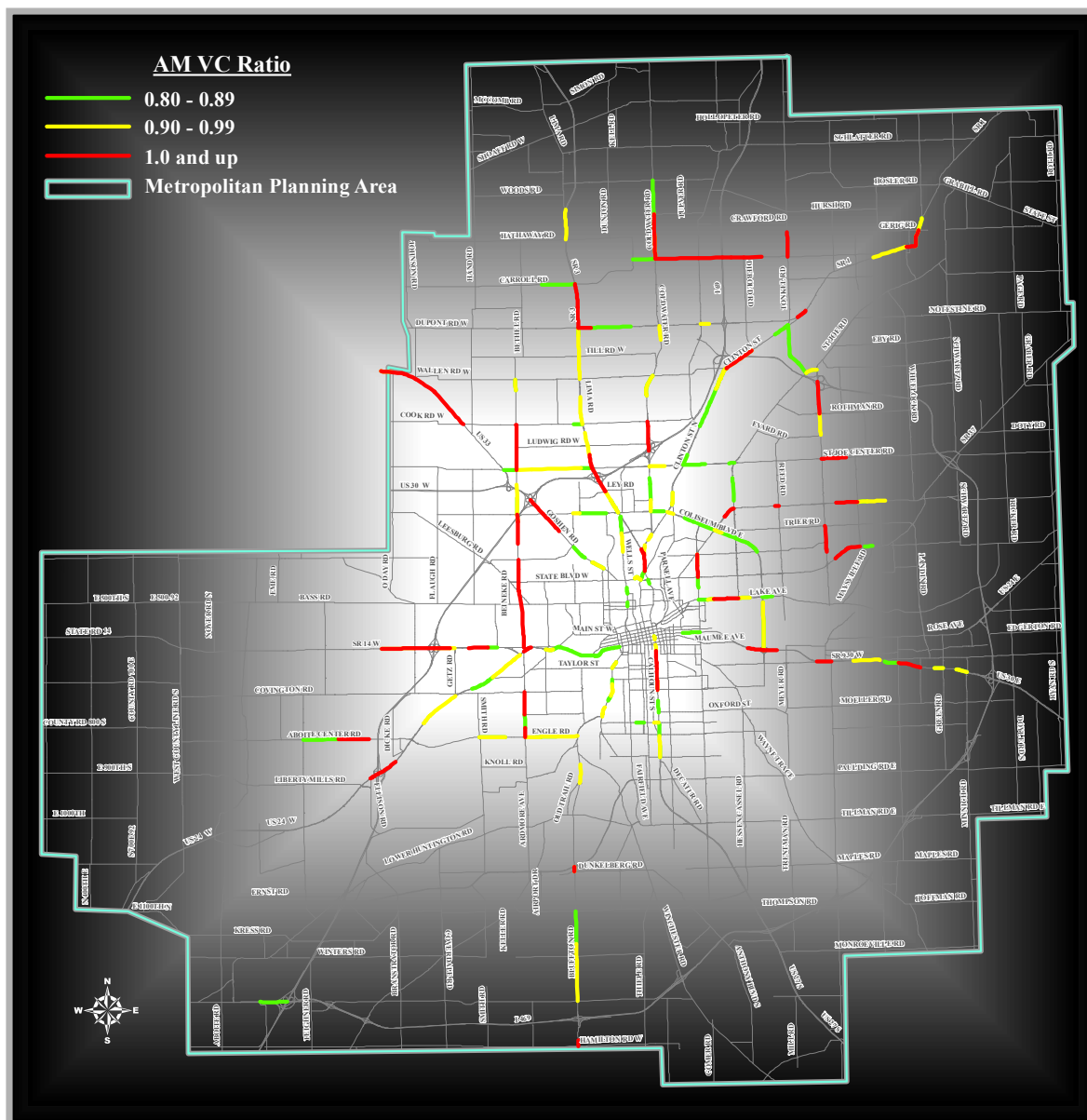


Figure 34

analysis was completed to identify the duration of the congestion beyond the peak hours. Several corridors within the congestion management network were identified for experiencing high levels of congestion (V/C ratios greater than 0.90) an extended number of hours (Figures 36 and 37). Corridors where V/C ratios were found for multiple hours were reviewed to determine the number of continuous hours. These corridors have been designated as “high risk” for congestion issues and will be monitored closely. Micro-level analysis will be performed on these corridors when warranted.

Intelligent Transportation Systems

Another part of the Congestion Management Process is updating Allen County’s Regional ITS (Intelligent Transportation Systems) architecture. ITS is the use of communications, electronics and information processing to help improve the efficiency and safety of surface transportation systems. Due to the nature of information technology being most

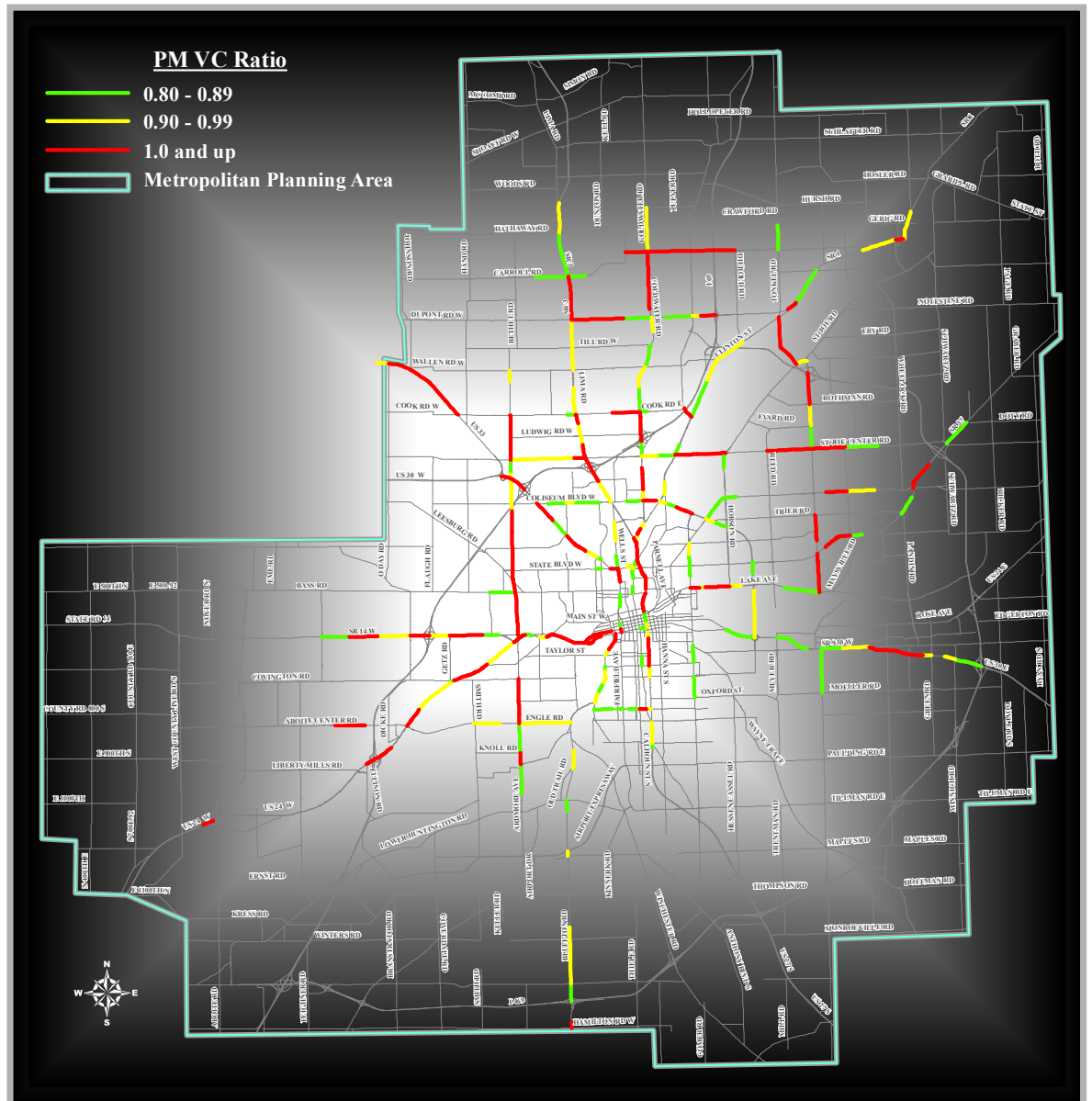
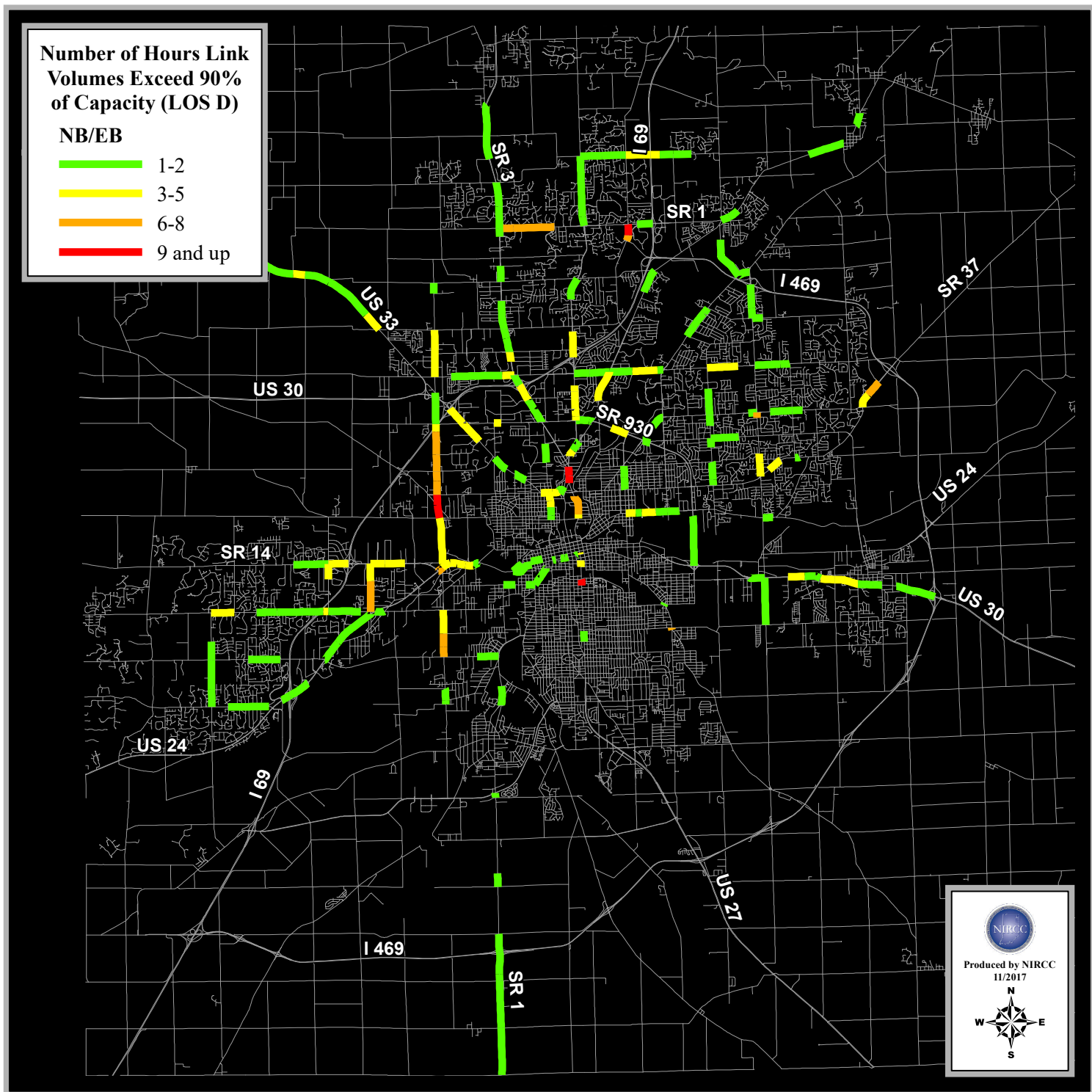


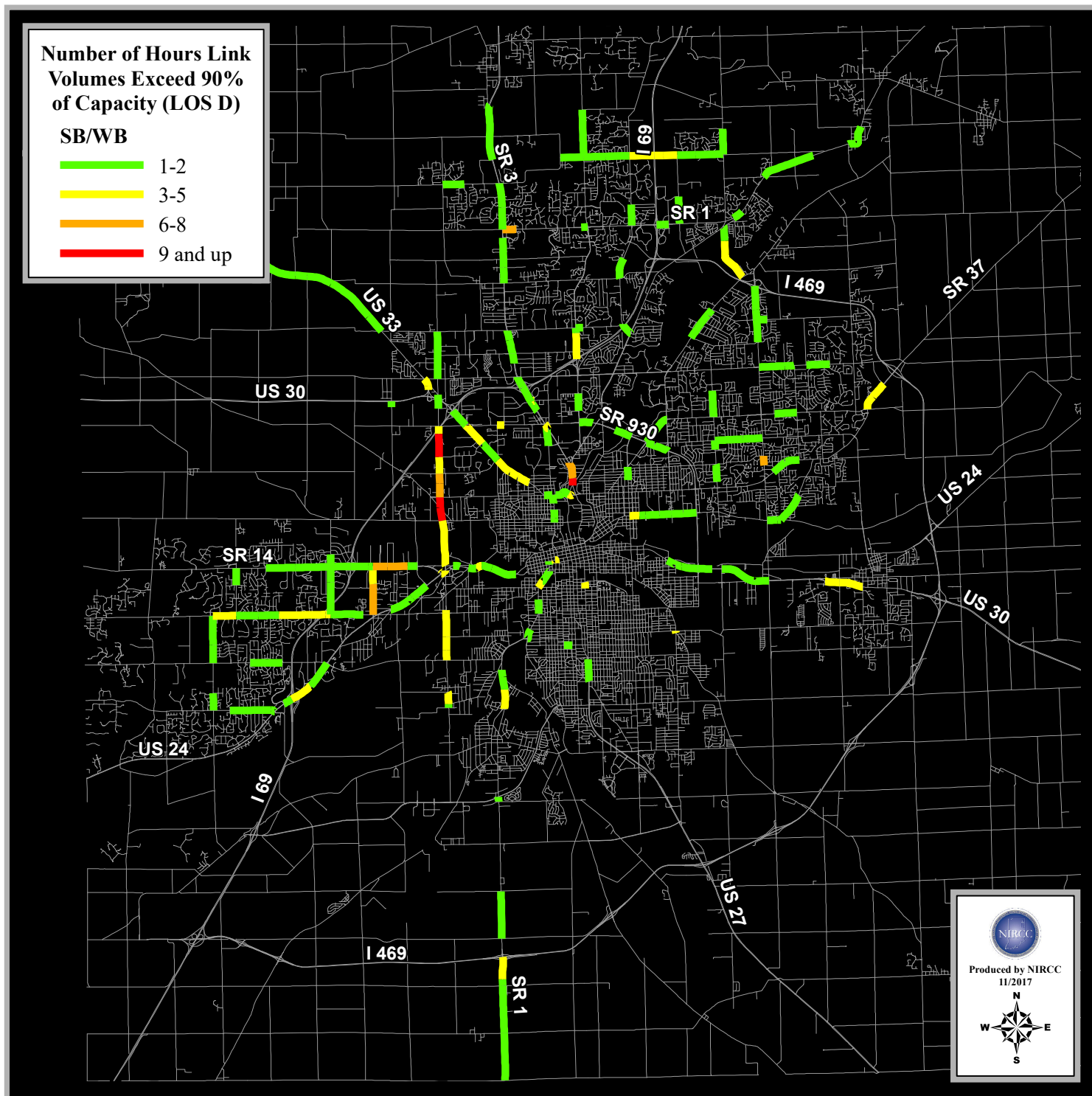
Figure 35

Figure 36



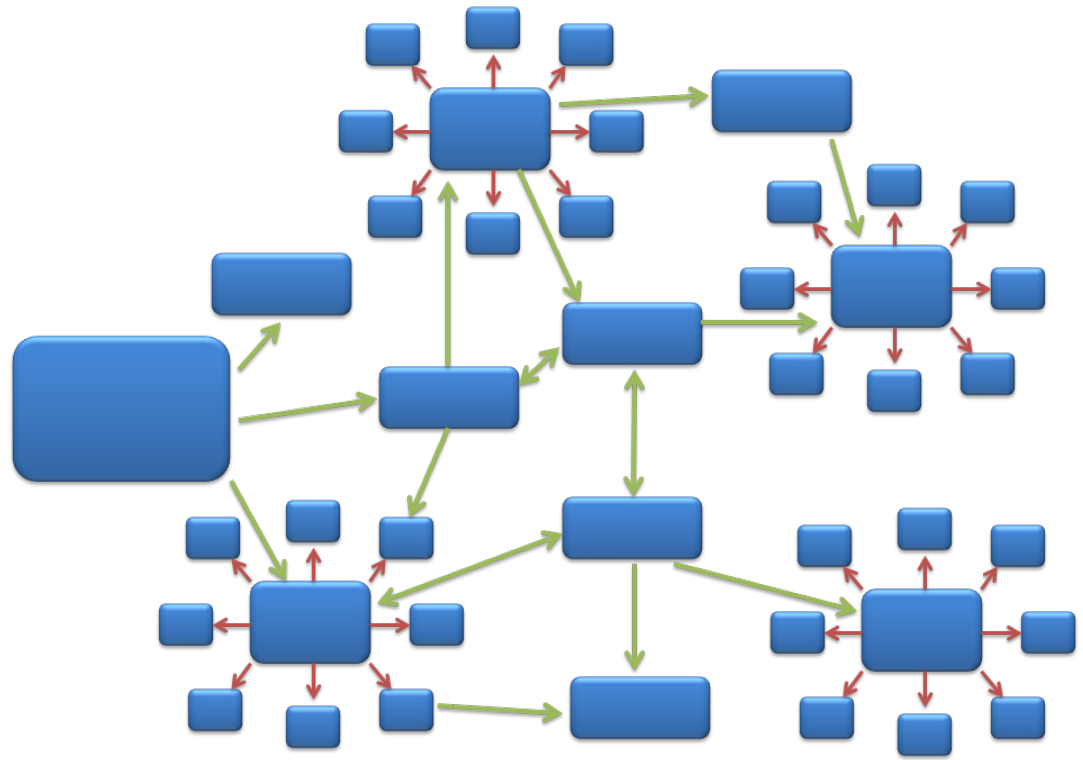
effective when systems are integrated and interoperable the USDOT developed the National ITS Architecture. When referring to architecture, it is best described as a tool that assists in organizing complex entities and relationships. It helps identify system functions and informational flows, and guides development of functional requirements for new systems and improvements.

Figure 37



The National ITS Architecture is designed to provide a common structure for which ITS projects could be based on. The National Architecture specifies what type of interface could exist between the many different components of ITS and also to show the different types of information exchanged. Processes and data flows are grouped to form particular transportation management functions and are represented graphically by data flow diagrams, or bubble charts, which decompose into several levels of detail. In these diagrams, processes are represented as bubbles and data flows as arrows.

The Allen County Regional ITS Architecture details the communications and interactions between 10 primary systems (centers) over a 10-year period (2017-2027). These systems are associated with traffic management, emergency management, maintenance and construction management, transit management, or data management. Each system is associated with a specific stakeholder (anyone with a vested interest or “stake” in the regional ITS architecture) or group of stakeholders.



The original Allen County Regional ITS architecture was completed in March 2005 to meet the requirements of TEA-21. There was an update to the architecture 2008 so that it would meet the requirements outlined in SAFETEA-LU, as well as changes in technologies that had occurred in those three years.

In the spring of 2012, the regional architecture went through another update so that it could be approved and submitted to the Federal Highway Administration. This update was included in the 2035 Long Range Transportation Plan. In 2017 the regional architecture was updated to be included with the 2040 Long Range Transportation Plan.

The ITS architecture is continually monitored for updates by NIRCC Staff. In FY 2018 the ITS Architecture was converted to the latest version using FHWA’s new RAD-IT software.

Bicycle and Pedestian Planning

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BICYCLE AND PEDESTRIAN PLANNING

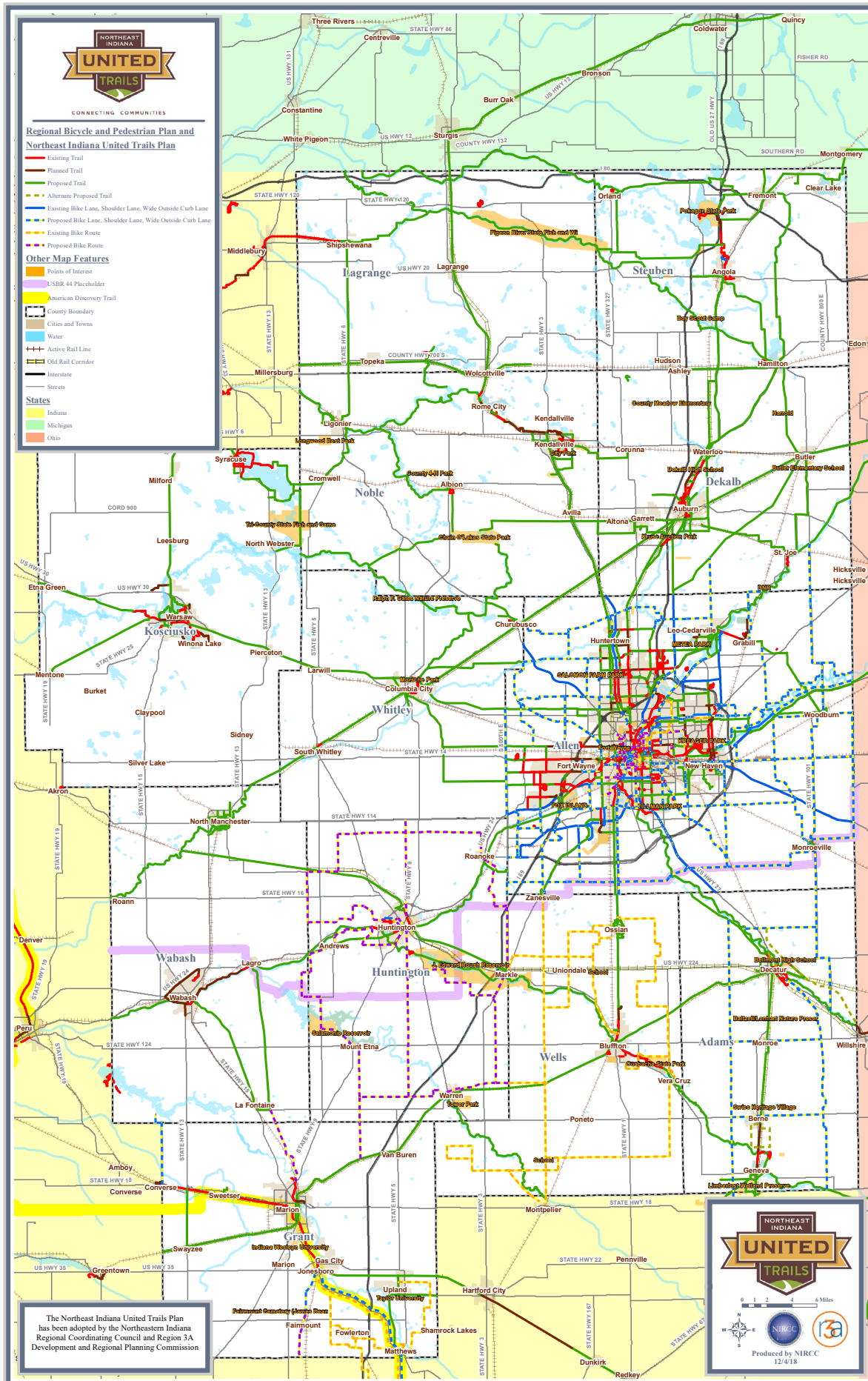
NIRCC has a significant involvement in area bicycle and pedestrian planning activities. The need and desire for bicycle and pedestrian facilities has dramatically increased over recent years. The four county region represented by NIRCC has many individuals and organizations advocating improvements to the existing bicycle and pedestrian transportation system as well as expanding the system in the future. The Fort Wayne, New Haven, and Allen County area has been at the forefront for local advocacy groups to begin their planning efforts. Local government has begun taking a more active role in their planning efforts to include bicycle and pedestrian amenities.

To better coordinate local efforts, NIRCC began sponsoring the Northeastern Indiana Regional Bicycle and Pedestrian Forum which met from 2002 to 2007. This forum represented a task force comprised of governmental parks, planning and highway agencies, advocacy groups, and special project organizations. The forum increased the communication and coordination between these groups. In addition, the forum played an integral part in developing and completing the Allen County Comprehensive Bicycle-Pedestrian Transportation Plan in 2006. Since 2007 NIRCC has relied on the Greenway Coalition for guidance as well as governmental and public input towards bicycle and pedestrian planning. The coalition is also made up of governmental parks, planning and highway agencies, advocacy groups, and special project organizations. The coalition has been meeting since April of 2005.

Since the adoption of the Comprehensive Bicycle and Pedestrian Plan in 2006, NIRCC has continued to update and improve the plan as needed. In 2007 NIRCC incorporated the “Regional Bicycle and Pedestrian Plan for Northeast Indiana” (Figure 38). Through the years following 2007, recommendations were incorporated into the plan which included the needs expressed by public input and local advocacy groups such as Aboite New Trails, the Greenway Consortium, Little River Wetlands, Northwest Allen Trails, and Fort Wayne Trails Inc. Other plans and recommendations from Allen County, Fort Wayne, New Haven, Leo-Cedarville, Grabill, Monroeville, and Woodburn have provided input or have been included in the plan as well.

Throughout the year NIRCC periodically updates the Comprehensive Bicycle and Pedestrian Transportation Plan for Allen County as well as the Northeast Indiana Regional Bicycle and Pedestrian Plan. Local government and local trail groups are continually planning and completing their trail projects. Also, new opportunities develop and some corridors may need to slightly shift their priorities to create the most practical options for developing a realistic and cost effective bicycle and pedestrian system.

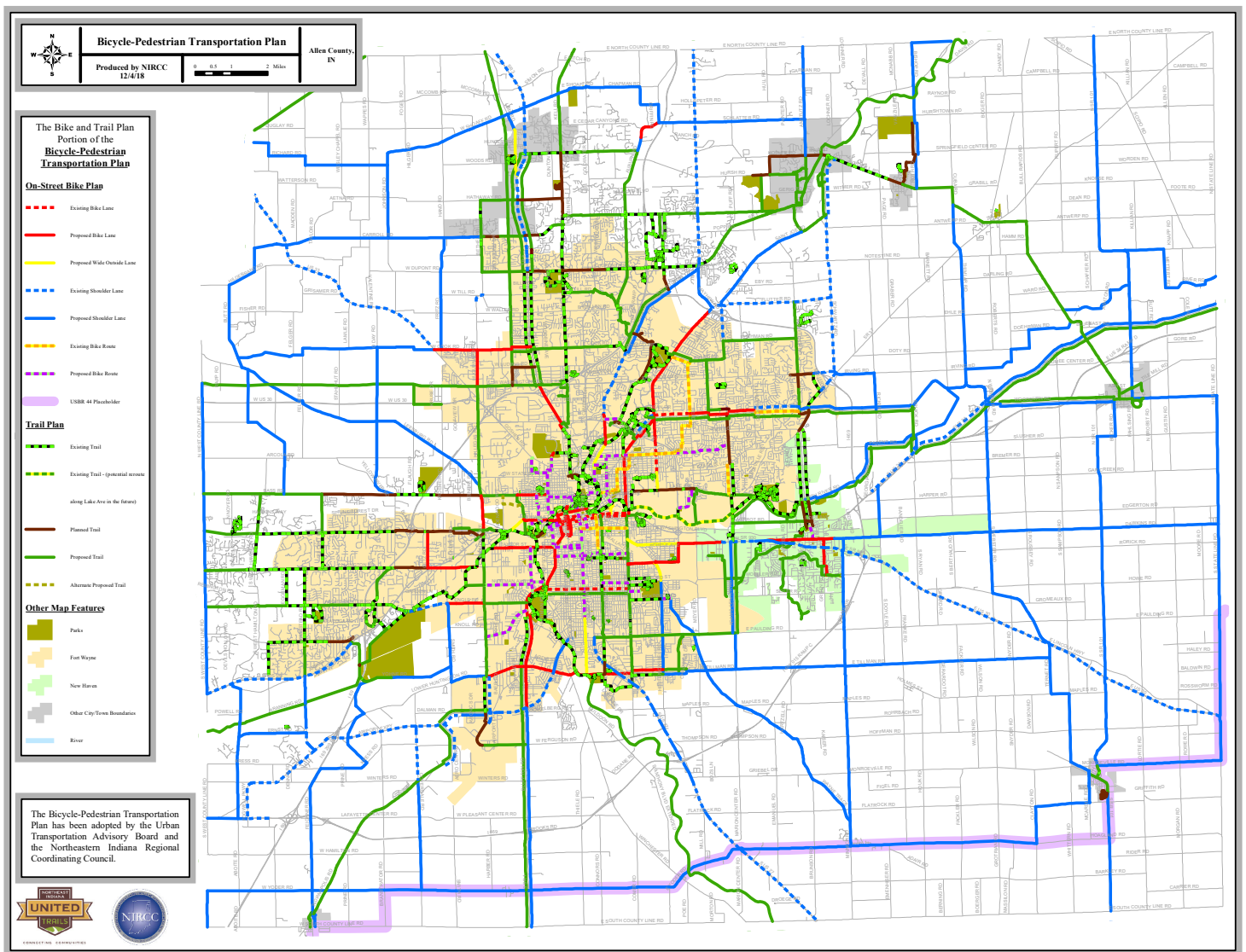
Figure 38
Regional Bicycle and Pedestrian Plan



2035 Long Range Transportation Plan update. To create a more usable and detailed plan that update took what used to be one map, which included all bicycle and pedestrian infrastructure, and separated it into three individual plan maps. These three maps consist of a bike plan (Figure 39) which includes trails and on-street bike infrastructure, a trail plan (Figure 40), and a sidewalk plan (Figure 41). The combination of these three maps, which has continued to be updated in the same way, must be used to find out what is planned, proposed, or already exists for each corridor or alignment identified. For example, some corridors may only include proposed sidewalks while others may propose bike lanes in the street, a sidewalk on one side, and a trail on the other. Some corridors in the plan also identify which side of the street sidewalks and/or trails are proposed for.

Figure 39

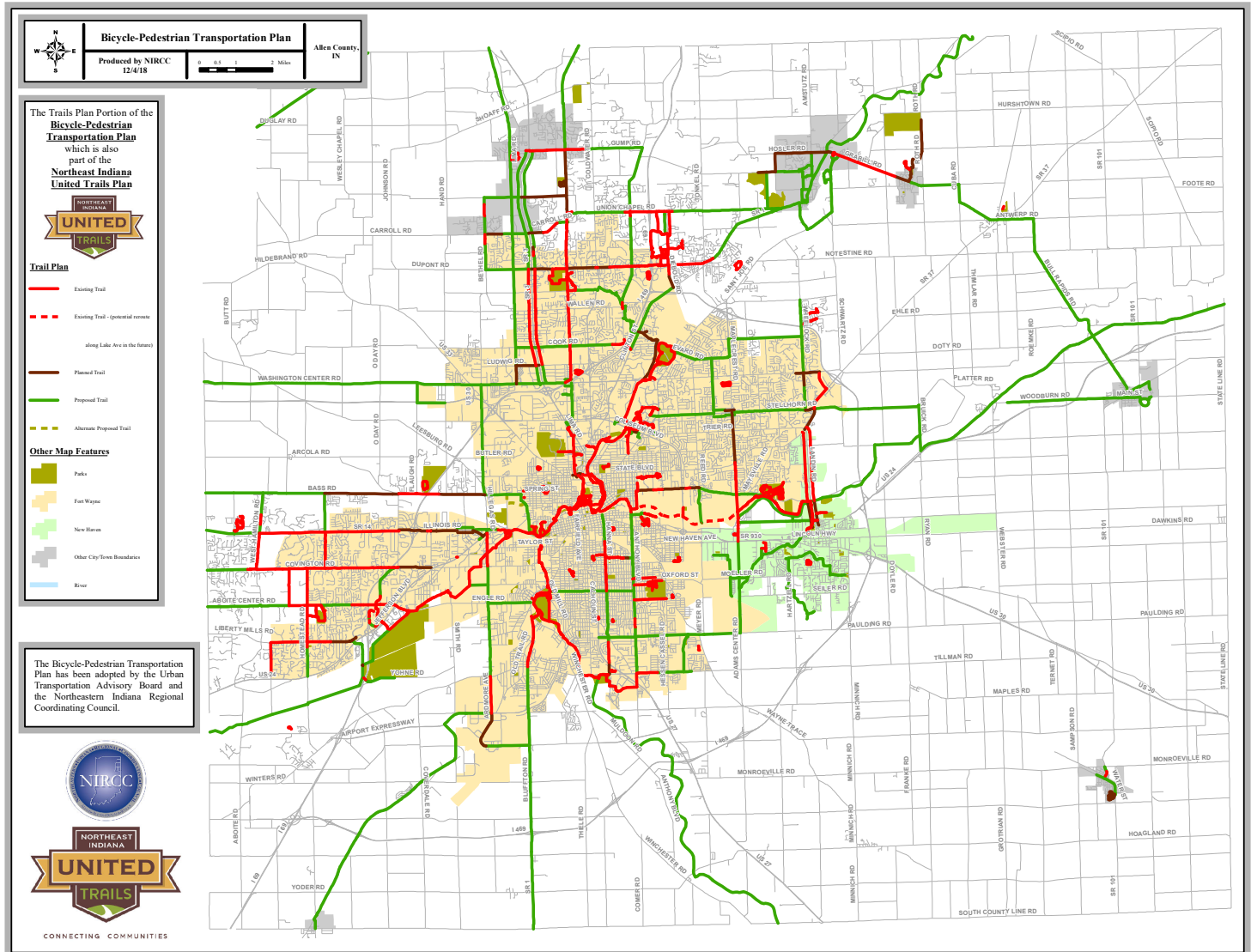
Bicycle-Pedestrian Transportation Plan: Bike and Trail Plan



The Bike and Trail Plan (Figure 39) is really intended to show an overall bike network along with the trails plan. Since bicyclists use a combination of on-street infrastructure and trails this map includes both to show how the entire network works together. This map displays a wide range of proposed and existing infrastructure for bicycling. The

proposed and existing facilities displayed include bike lanes, widened outside curb lanes, shoulder lanes, sharrows, bike routes, and trails.

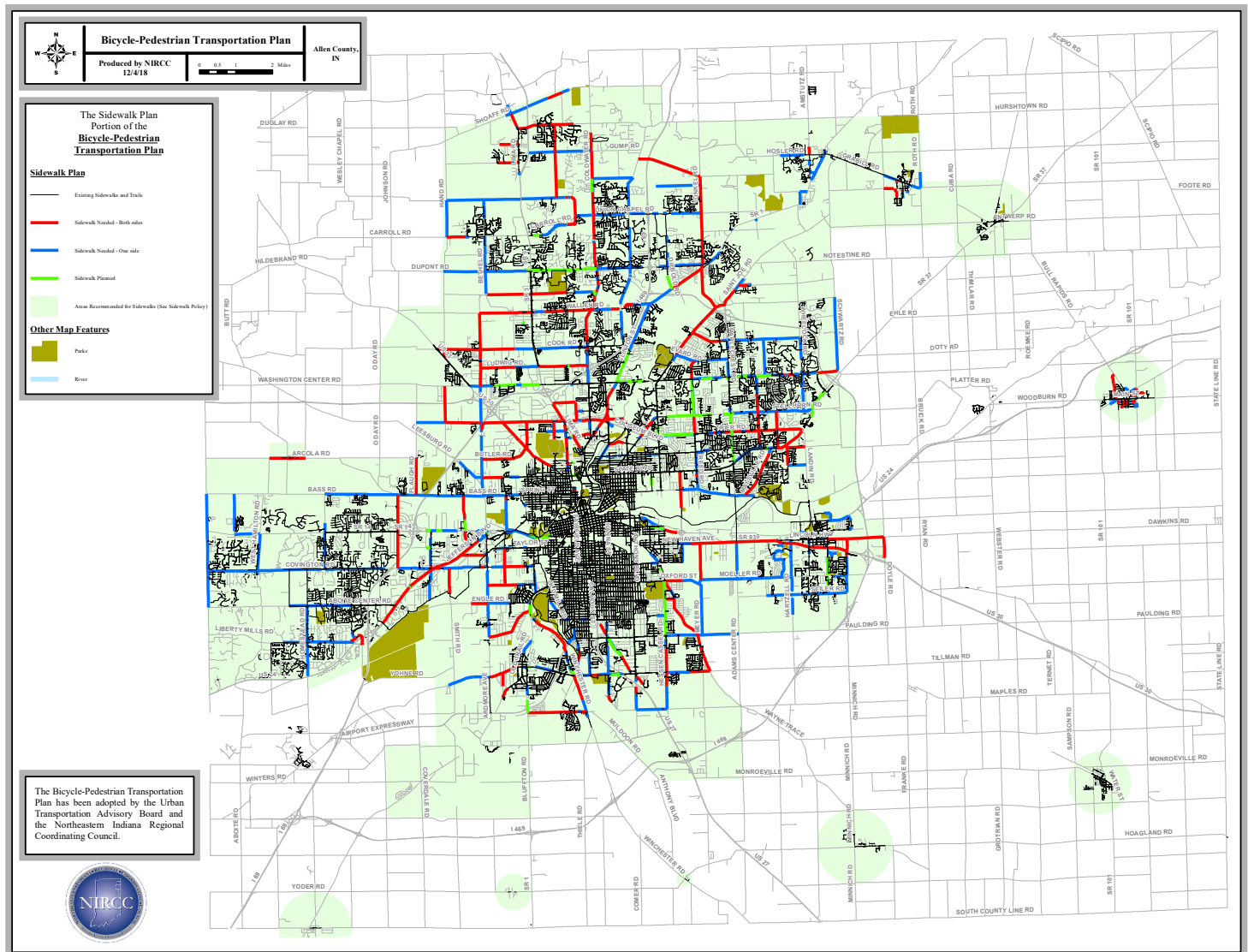
Figure 40
Bicycle-Pedestrian Transportation Plan: Trail Plan



The Trails Plan (Figure 40) shows the entire existing trail system for Allen County as well as how it will tie in with what is planned to occur over the next several years and into the future. The Trail Plan for Allen County is also part of the “Northeast Indiana United Trails” which covers the 12 county trail network in Northeast Indiana. The trails identified as “Planned” are facilities that are being built along with road projects or are standalone projects that have all or most of their funding and we are confident they will be constructed in the near future. The trails identified as “Proposed” vary in their stage of development. These trails may be very conceptual or may currently be in some stage of development but lack the funds to really push them forward to construction.

Figure 41

Bicycle-Pedestrian Transportation Plan: Sidewalk Plan



The Sidewalk Plan (Figure 41) identifies sidewalk needs along all major roadways in the urban area and some outside the urban area. This map displays all existing sidewalks and trails within Allen County and specifically identifies corridors or sections of roadways that need sidewalks on one side or both sides depending on existing features and proposed trails that parallel. The sidewalk needs identified on the map will be used to prioritize sidewalk improvements and identify the need for sidewalks as development spreads throughout the urban area. The map also includes a green shaded area that refers to the sidewalk and bicycle parking recommendations policy included in the 2040 Transportation Plan. Other than what is specifically identified on the map, these areas should always consider sidewalks and bicycle parking amenities as needed depending on development patterns and opportunities that arise.

This past fiscal year NIRCC participated in a variety of bicycle and pedestrian planning activities. Some of the common tasks NIRCC participated in or completed for bicycle and pedestrian planning include but are not limited to the following:

- Making updates to the Allen County Bicycle and Pedestrian transportation Plan.
- Making updates to the Allen County Sidewalk and Trail Inventory.
- Updating NIRCC's website with bicycle and pedestrian planning documents.
- Meeting or talking with citizens about bicycle and pedestrian planning issues.
- Working with local advocacy groups.
- Creating maps and supporting documents or reports for bicycle and pedestrian planning.
- Working with other governmental departments and providing ideas, facts, recommendations or any other information related to bicycle and pedestrian planning upon request.
- Researching bicycle and pedestrian facility design, funding types and availability, educational information, safety information, laws and ordinances concerning bicycle and pedestrian subjects.
- Tracking progress on bicycle and pedestrian projects throughout the area.
- Reviewing development plans and transportation projects that are underway or in some stage of design to ensure bicycle and pedestrian connectivity and coordination with the Bicycle-Pedestrian Transportation Plan.
- Checking potential trail and sidewalk projects for environmental conflicts.
- Extracting and analyzing bicycle and pedestrian crash data from NIRCC's crash database.
- Making updates to various bicycle and pedestrian related plans.
- Attending meetings for bicycle and pedestrian issues.
- Creating planning documents, reports, or maps for meetings and governmental agencies.
- Assisted various local groups, governmental departments, agencies, and public with bicycle and pedestrian planning.
- Updating performance measures.

In Fiscal Year 2018 NIRCC updated the 2040 Transportation Plan. Staff met with city and town officials, governmental departments, and advocacy groups to update the Bicycle-Pedestrian Transportation Plan before being included in the 2040 Transportation Plan. Based on priorities and resources be shifted or new opportunities that developed, various changes to the plan were made and adopted as part of the 2040 Transportation Plan. To see the most recent Transportation Plan go to <http://www.nircc.com/transportation-plans.htm>.

In FY 2017 there was a significant amount of time spent on the Northeast Indiana Trail Branding and Wayfinding

Initiative. Work continued in FY 2018 as well to finish the process. The Regional Trail System for Northeast Indiana needed a name and a brand. We needed something to call our system that would speak to the residents and visitors of



Northeast Indiana. Part of this not only required names and logos, but also required a common signage and wayfinding system to capture visually the message of our trails. It had to be unique, and allude to Northeast Indiana's cohesiveness and future connectivity of trails and communities throughout the region. Just like new trails, there are many existing trails throughout our region with different "owners" and different "names" that while needing to maintain their identities, there was also a need for consistent signage and information regarding

regional identification, visual branding, directions and destinations, and other trail related information. A named and branded system provides a simple way to market our trail system to users and potential funding partners, thereby playing a crucial role in the development of our trail system and solicitation of private investment.



To accomplish this NIRCC contracted the consultant firm Merje to provide services that assisted in preparing a comprehensive branding initiative for the Northeast Indiana Regional Trail System which is now called the "Northeast Indiana United Trails" (Figure 38). Merje traveled to Fort Wayne several times throughout the fiscal year and conducted public meetings throughout the region. The services they provided resulted in this new regional trail system name, a new name and logo for our state priority trail from Pokagon State Park to Ouabache State Park (Poka-Bache Connector), and a brand and wayfinding signage guidelines manual to follow for design and implementation (<http://www.nircc.com/user/image/unitedtrailsguidelines.pdf>). This manual provides details for designs, materials, dimensions, and location guidelines to allow communities to choose the signs needed for their unique situations.

Many existing or planned trails already have names or identities. The United Trails brand and Poka-Bache Connector brand does not intend to change unique identities already established but rather mark these trails as part of the regional system or state priority trail that can be recognized no matter what part of the Northeast Indiana Region an individual may be in. The consistent use and design of wayfinding signs will allow residents and visitors to our region to easily recognize and become familiar with our vast regional trail system. The draft brand and wayfinding signage guidelines that Merje has produced for our region will provide a manual that gives a number of options that trail owners can choose from if they decide to identify their trails as part of the United Trails regional system. These options range from simple placards that can be installed on a sign post to a complete trailhead kiosk.

As a part of the branding and wayfinding initiative NIRCC began planning for a pilot project that would showcase the new signs along an existing trail corridor. A section of the Pufferbelly Trail from Wallen Rd to Life Bridge Church was selected. The Pufferbelly Trail is also a section of the Poka-Bache Connector. This corridor would help showcase a wide range of sign types. Locations for different sign types were mapped out and renderings of what the signs would look like at each location have been made. The next step is to either have signs contracted out or completed in house with the City of Fort Wayne and installed along the trail.

The brand and wayfinding signage guidelines manual is provided to the public on NIRCC's website. Files of sign designs and templates are available upon request from NIRCC.

Red Flag Environmental Investigations

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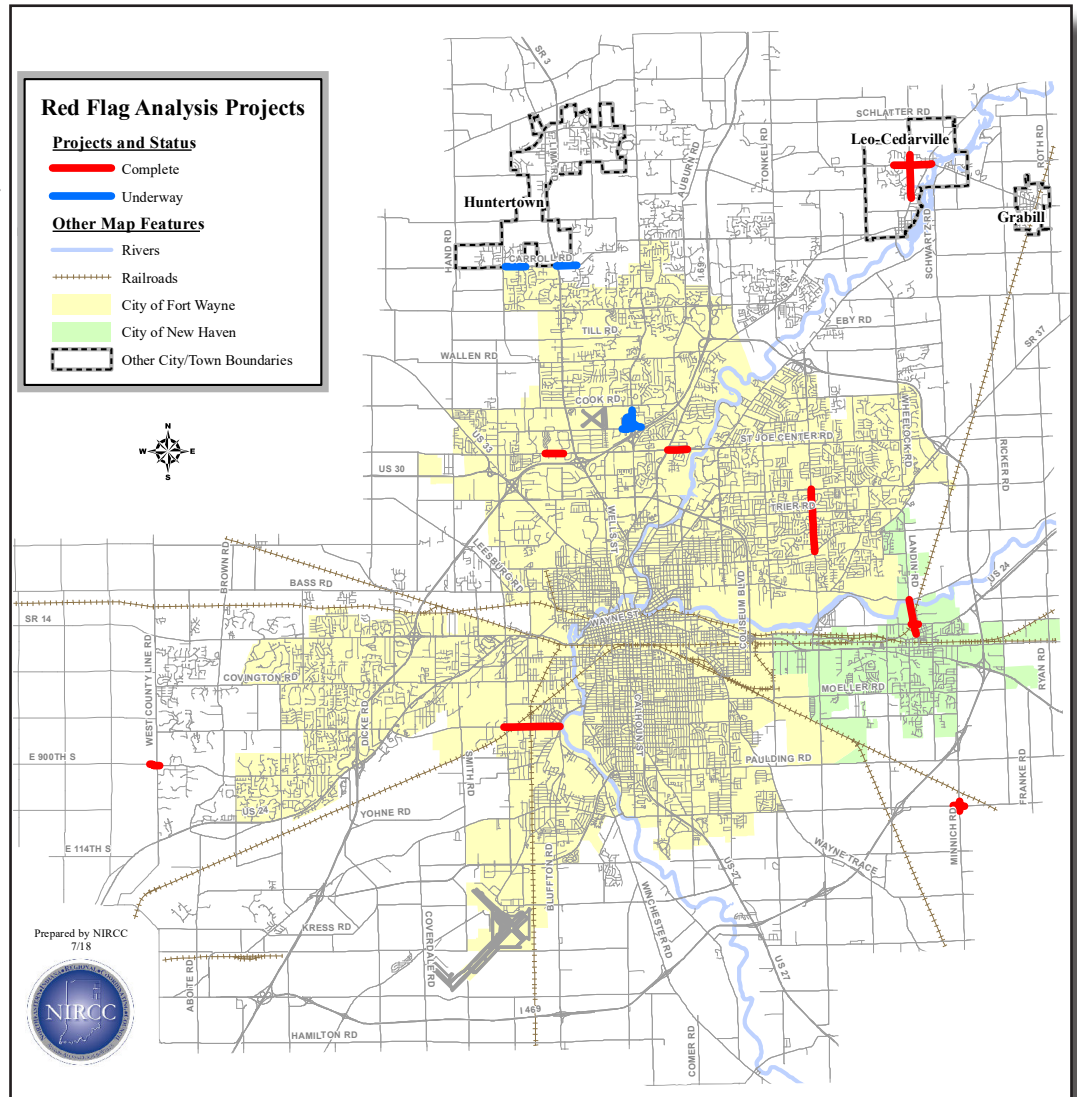
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RED FLAG ENVIRONMENTAL INVESTIGATIONS

When federal funds are used for projects, agencies are responsible for complying with certain guidelines and requirements throughout the project process. One of the requirements when there is a federal undertaking is that, by all practicable means, the action taking place will identify and either mitigate or avoid any adverse harm to the natural or cultural environment. The National Environmental Policy Act (NEPA) is what establishes these national environmental policies and goals for the protection, maintenance, and enhancement of the environment and provides a process for implementing these goals.

Figure 42

As part of this process agencies conduct investigations during or before the project development phase to see what kinds of environmental effects may be caused as a result. In order to identify locations and issues of concern, or “red flags”, an initial report is completed and referred to as a Red Flag Investigation (RFI). The report identifies these red flags that may require additional study coordination in future steps of the project development process. They may also prompt creative management or design approaches which may increase right of way and construction costs. The report also identifies any “fatal flaws” in the study area which are locations that must be avoided all together.

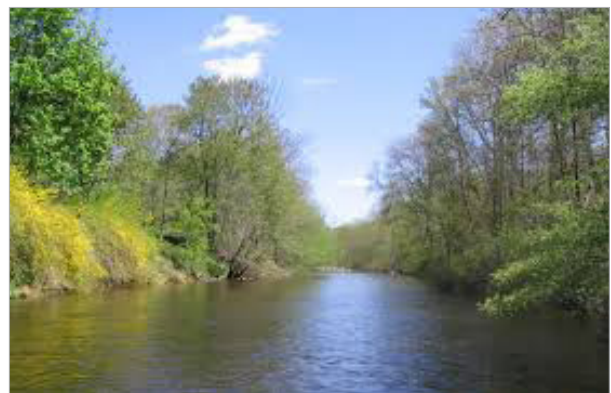
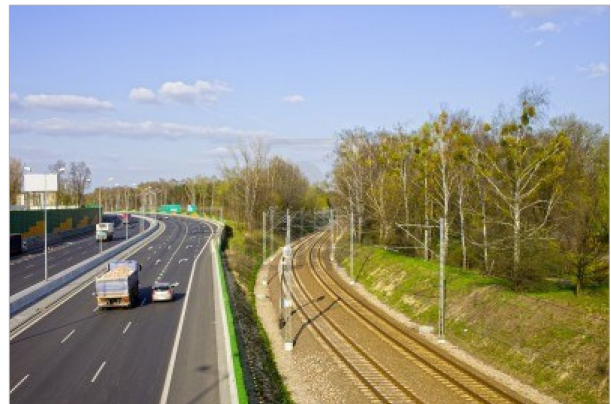


In FY 18 NIRCC completed work on four Red Flag Investigations (RFIs) which included, the Amstutz Road/Hosler Road RFI in the town of Leo-Cedarville, the Carroll Road RFI in Huntertown, the Engle Road RFI in Fort Wayne, and the Coldwater Road/Ludwig Road RFI summary in Fort Wayne. Both the Amstutz Road/Hosler Road RFI and

the Engle Road RFI were completed in FY 18. The Carroll Road RFI and the Coldwater Road summary RFI will be completed in FY 19. The RFIs NIRCC has completed to date are shown in Figure 42. Throughout the Fiscal Year NIRCC also commented on a number of projects for Early Coordination which requires referencing the same data used to complete Red Flag Investigations. Also, NIRCC continued to update analysis data for future Red Flag Investigations and Early Coordination efforts.

Red Flag Investigations analyze projects to find out what types of environmental red flags may be present. To do this NIRCC utilized GIS (Geographical Information Systems) to search areas within half a mile of the project limits to identify any items that may fall within any of the six main sections of the report. Here is a list of the six sections in the report with examples of what is being identified within each:

1. Infrastructure – Examples include airports, cemeteries, schools, hospitals, parks, utilities, religious facilities, etc.
2. Water Resources – Examples include rivers, streams, special interest waterways, wetlands, floodplain, etc.
3. Mining/Mineral Exploration – Examples include mines, petroleum wells, and petroleum fields.
4. Hazmat Concerns – Examples include underground storage tanks, different types of waste sites, cleanup sites, remediation sites, dumps, etc.



5. Ecological Information – Identifies endangered, threatened, or rare species.

6. Cultural Resources – Examples include historic sites and districts, potential historical sites and districts, select and non-select bridges, and properties identified in interim reports.

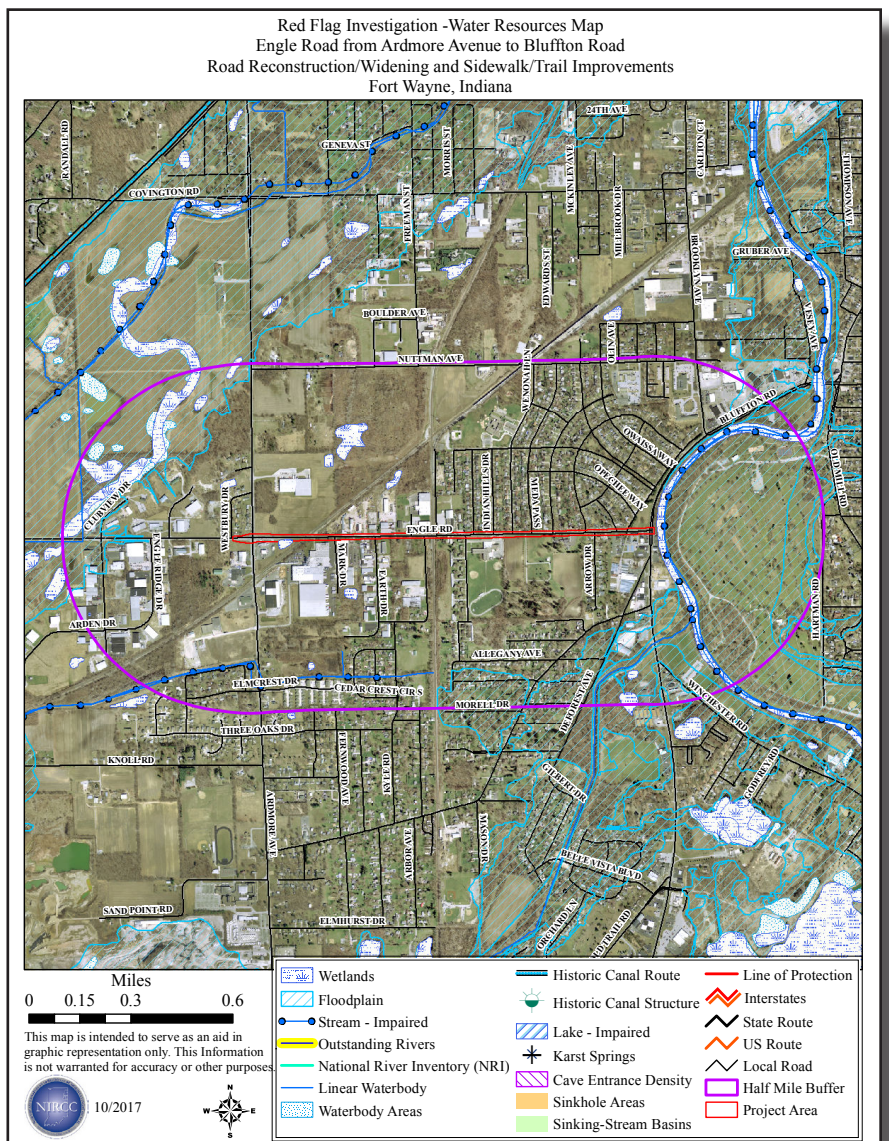


Besides the sections listed above, NIRCC also completes a section identifying bicycle and pedestrian facilities, existing and proposed, throughout the project area and specific locations that may need special consideration for ADA compliance. For each RFI there are also maps providing visuals of each project’s location and individual maps for each section listed above identifying all red flags within the half mile radius.

Figures 43 and 44 give you examples of two maps included in the report NIRCC worked on this past fiscal year for Engle Road. Figure 43 is the map which identifies “Water Resources” near the project area and Figure 44 displays “Infrastructure” items identified in the red flag analysis.

Along with the maps NIRCC also creates a table for each of the six sections. These tables show everything that is considered when conducting the red flag analysis and how many items of each are found within a half mile radius of the

Figure 43



project. You will see an example of the “Water Resources” table and “Infrastructure” table from the Engle Road project in Figures 45 and 46. Once the tables are complete NIRCC includes a summary of findings for each item with a description in the report that also states whether or not each item will be affected by the project. To find out further information about Red Flag Analysis or detailed information about a specific Red Flag Analysis already completed please contact NIRCC for assistance.

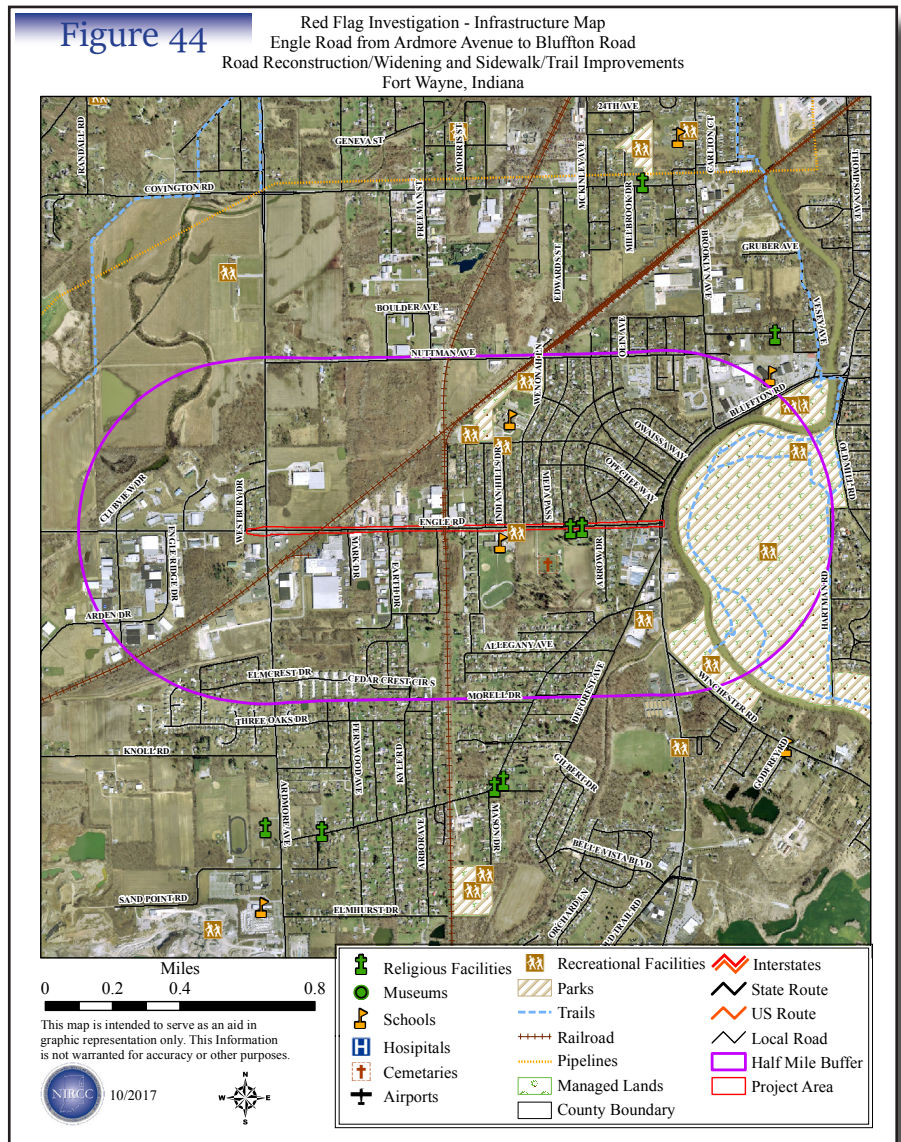


Figure 45

Water Resources			
Indicate the number of items of concern found within 1/2 mile, including an explanation why each item within the 1/2 mile radius will/will not impact the project. If there are no items, please indicate N/A:			
NWI - Wetlands	20	IDEM 303d Listed Lakes (impaired)	N/A
Karst Springs	N/A	Lakes	6
Canal Structures – Historic	N/A	Floodplain - DFIRM	Yes
IDEM 303d Listed Rivers and Streams (Impaired)	3	Cave Entrance Density	N/A
Rivers and Streams	5	Sinkhole Areas	N/A
Canal Routes - Historic	N/A	Sinking-Stream Basins	N/A
Outstanding Rivers (Special Interest Waterways)	N/A	Line of Protection	N/A
*High Capacity Wells (Wellhead Protection Areas)	N/A	National River Inventory (NRI)	N/A

Figure 46

Infrastructure			
Indicate the number of items of concern found within 1/2 mile, including an explanation why each item within the 1/2 mile radius will/will not impact the project. If there are no items, please indicate N/A:			
Religious Facilities	1	Recreational Facilities	6
Airports	N/A	Pipelines	N/A
Cemeteries	1	Railroads	2
Hospitals	N/A	Trails	4
Schools	2	Managed Lands/Parks	4
Museums	N/A		

Transit Planning Activities

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TRANSIT PLANNING ACTIVITIES

NIRCC has an integral role in the transit planning activities that occur within Allen County. NIRCC has a working relationship with most of the areas transit providers. These providers, along with representatives from local government, social service agencies, and consumers, serve on committees overseen by NIRCC that focus on transit related activities within Allen County.

There are two committees that deal with transit related activities in Allen County, the Transit Planning Committee (TPC) and the Transportation Advisory Committee (TAC). The TPC meets monthly and the TAC meets quarterly. The TPC was established in 1993 as a working committee of the Urban Transportation Advisory Board (UTAB). The main focus of the TPC is to assist in coordinating and facilitating local public transit and para-transit services. The TAC serves as a sub-committee of the TPC focusing mainly on the local transportation issues faced by persons with disabilities and low income individuals. The TPC has been integral in projects such as the Coordinating Development and Transportation Services Guide, the Citilink Transit Development Plan and updates, and the Coordinated Public Transit-Human Services Transportation Plan for Allen County. TPC also takes the lead role in the facilitation and evaluation of the local Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities Operational Funding Program. The TAC takes the lead role in the facilitation and evaluation of the local Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities Capital Funding Program and is responsible for maintaining the local Transportation Resource Guide.

In Fiscal Year 2018, Transit Planning Activities completed by NIRCC staff included the facilitation of the Section 5310 Local Capital and Operational Funding programs and providing assistance to Citilink to complete new Comprehensive Operations Analysis (COA) and Transit Development Plan (TDP). A summary of each of these activities is provided below.

Federal Transit Administration's Section 5310 Program

The Federal Transit Administration's (FTA) Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities Program provides capital and operating funding to support the provision of transportation services to meet the specific needs of seniors and individuals with disabilities. Transportation providers within the Fort Wayne Allen County Urbanized Area serving the senior and disabled populations utilize Section 5310 funding to purchase vehicles and operate services. The current Federal legislation which authorizes funding for transportation is Fixing

America's Surface Transportation Act, known as the FAST Act. The FAST Act requires the establishment of a locally developed, coordinated public transit-human services transportation plan for the Section 5310 program. NIRCC has developed a Coordinated Public Transit-Human Services Transportation Plan for Allen County (available at www.nircc.com). All projects selected for funding from this FTA program must be derived from this coordinated plan and be competitively selected.

NIRCC, in coordination with Citilink (designated recipient of the Section 5310 funds for the Fort Wayne Allen County Urbanized Area), has established an application process to select projects to receive capital and operational funding from the Section 5310 Program. Capital and Operational funding rounds are held separately. A Section 5310 Capital funding round is held on an annual basis. While the Section 5310 Operational funding round is held on a semi-annual basis. Any project(s) selected for funding requires the responsible agency / party to enter into a contractual agreement with Citilink (designated recipient).

The annual Section 5310 Capital program awards vehicles to area non-profit agencies providing transportation to seniors and individuals with disabilities. A call for projects was issued in February 2018 with awards announced in June 2018. The capital program provides 80% of the total vehicle cost, requiring a 20% local match from the applicant. In Fiscal Year 2018, approximately \$176,000 in Section 5310 Capital funding to the Community Transportation Network to purchase a total of 4 vehicles. All of the awarded vehicles were lift equipped and had wheelchair tie-downs.

The semi-annual Section 5310 Operational program provides operating support for eligible two (2) year (24 month) operating projects targeted toward meeting the transportation needs of seniors and individuals with disabilities. A call for projects is issued every other July with awards announced every other October. The operational program provides 50% of the total project cost, requiring a 50% local match from the applicant. In Fiscal Year 2018, NIRCC staff prepared the application package and call for projects that was issued in July 2018 to provide up to \$192,000 (dependent upon 2019 FTA allocation) in Section 5310 Operational funding to area agencies with projects that provide transportation for seniors and individuals with disabilities initiating in 2019 and running through 2020.

Citilink Comprehensive Operations Analysis and Transit Development Plan

Every five to ten years, Citilink completes a process of updating the Transit Development Plan (TDP). The purpose of the plan is to assess the state of the current system, review where future development is expected to occur, and identify service changes to enhance the choices people have in getting to/from work, school, shopping, medical appointments or simply visiting family and friends. This time around, Citilink will also be completing a Comprehensive Operational

Analysis (COA) as the data collection and analysis component of the TDP. The COA will provide Citilink with a more in depth analysis of current service and future needs compared to the analysis typically included within a TDP.

Between now and 2040, there is the expectation population will increase by 67,800 people and 41,000 new jobs will be added to Allen County. For transit to be a viable option to support growth, coordinated efforts between where new development is located, and current service areas is critical. One of the primary purposes of the COA/TDP is to provide a forum for these coordination discussions.

The process of conducting the COA/TDP is divided into four primary steps:

- Evaluate Current Service – Which includes both the fixed route services and paratransit (Access). The product of this step will be a description of how well the system performs relative to other similar systems and industry guidelines.
- Assessment of Current Services to Meet Local Needs – Through surveys and review of where routes run relative to customers needs, a picture of how well needs are being supported will be developed.
- Service Plan Alternatives – Where change is needed, the plan development process will investigate alternatives, including new/expanded service and revision of current.
- Develop a Plan – The final product of the process will be a detailed plan of where changes are needed and what changes make sense and are supported by the community.

NIRCC staff has been involved in the COA/TDP process from day 1. Beginning in early fall 2017, NIRCC staff assisted Citilink in procuring a qualified transit consultant to complete the COA/TDP. In early 2018, Citilink selected and entered into a contract with SRF Consulting. The COA/TDP has an anticipated 18-month time frame. Below is a summary of the progress through the end of Fiscal Year 2018 and the anticipated next steps.

Progress:

- Consultant Procurement: August 2017 – January 2018
- Initiated in February 2018
- Data Collection: February 2018 - June 2018
 - Existing Conditions
 - Service, routes, ridership, fleet, funding, peer review, etc.
 - Ride Counts: March 2018
 - Surveys

- Fixed Route: March 2018
- Access: June 2018
- Community Survey: June 2018 – July 2018
- SWOT Analysis: June Transit Planning Committee
- Interviews – Community Leaders / Stakeholders: March 2018 – June 2018
- Meetings
 - Advisory Committee
 - In person and phone/web conference - monthly
 - Transit Planning Committee and Transportation Advisory Committee
 - April Intro and June SWOT Analysis

Next Steps: July 2018 through July 2019– not necessarily in order

- Data Collection: July 2018 ongoing
 - Existing Conditions
 - Service, routes, ridership, fleet, funding, peer review, etc.
 - Interviews – Community Leaders / Stakeholders: Ongoing
- Develop and discuss draft service recommendations, draft goals/objectives and performance measures, and draft funding level assumptions
- Meetings
 - Advisory Committee
 - In person and phone/web conference - monthly
 - Transit Planning Committee and Transportation Advisory Committee
 - Updates at scheduled meetings
 - Public
 - July 2018 – 1st round
 - November 2018 – 2nd round
 - May 2019 – 3rd round
- Finalize existing conditions, service recommendations, goals/objectives, performance measures, and funding level assumptions
- Prepare draft COA/TDP
- Finalize COA/TDP

Creating Livable Communities and Ladders of Opportunity

*Studies completed by the Northeastern Indiana
Regional Coordinating Council*

Transportation Summary Report Fiscal Year 2016

CREATING LIVABLE COMMUNITIES AND LADDERS OF OPPORTUNITY

The purpose of this program is to encourage community-based transportation and land use projects that support infill development in the urban area and revitalization efforts of downtown areas, neighborhoods, commercial cores and transit corridors. The primary intent is to advance community sustainability and overall access to essential services such as employment, healthcare, education and recreation.

The program will concentrate on energy conservation, climate change and lowering infrastructure operating costs with a goal of more efficiently using existing infrastructure to reduce emissions, energy use and personal transportation costs. The process will focus on transit and non-motorized transportation in Northeast Indiana. Advancing the objectives of the Transit and Bicycle-Pedestrian components of the Transportation Plan will be a primary objective.

NIRCC will develop and implement analytical methods to identify connectivity gaps of the transportation system between residential neighborhoods and essential services. Strategies will be developed to improve connectivity within the region to these services utilizing transit, bicycle, pedestrian and other non-traditional infrastructure and programs. Activities will also include reviewing development plans to recommend access control, transit friendly designs and opportunities for pedestrian and bicycle facilities. A blueway system will be defined in collaboration with the regional trail system to promote improved water quality through the use of local waterways for transportation and recreational purposes.

Northeast Indiana Water Trails Initiative

The Northeast Indiana Water Trails Initiative (NEIWTs), housed under the NIRCC, is a regional partnership working to increase recreation opportunities on our waterways by promoting boat access, water safety and stewardship, and the development of regional water trails that will empower our citizens to become more active and unified. It began in early 2015, and has had several accomplishments working toward its mission since its inception.

In 2017, the NEIWTs contracted with Reusser Design, LLC to develop a comprehensive website for the Water Trails. The website, www.neiwatertrails.com, was successfully launched in June and contains information about paddling, fishing, and recreating on the 566 miles of floatable waters in the ten county NE Indiana Region. It also contains an interactive water trail map, events calendar, and links to partner websites.

Additionally, NEIWTs facilitated the transfer of land from the Allen County Commissioners to the DNR for the

installation of a new concrete boat ramp at the Mayhew Rd Bridge. This location has historically been used by paddlers who had to traverse down a steep slope and avoid deep gullies while carrying their boats to reach the St. Joseph River. The new access site provides a safe solid surface for paddlers to use and even allows for launching motorized boats. Additionally, there is now sufficient parking for cars, trucks, and trailers. This new site breaks up the approximately 11 miles of flowing water between the nearest upstream and downstream access sites making the water trails more accessible to paddlers of all abilities. The site was dedicated on August 3, and on August 8th the NEIWTs hosted a paddle social from the new site. Thirty people participated in the social.

The Young Paddler's Club was developed in 2018 as a way to encourage kids to get out into nature and engage with our local rivers. The Club was developed for children aged 5 – 15. Participants could earn a Young Paddler's Club badge by participating in and making observations about five water related activities, and submitting their completed form to the NEIWTs. NEIWTs hosted an end of summer party for participants where they could try out a kayak, take an educational ride on a pontoon, and do water crafts and experiments. There were 32 attendees at the end of summer party.

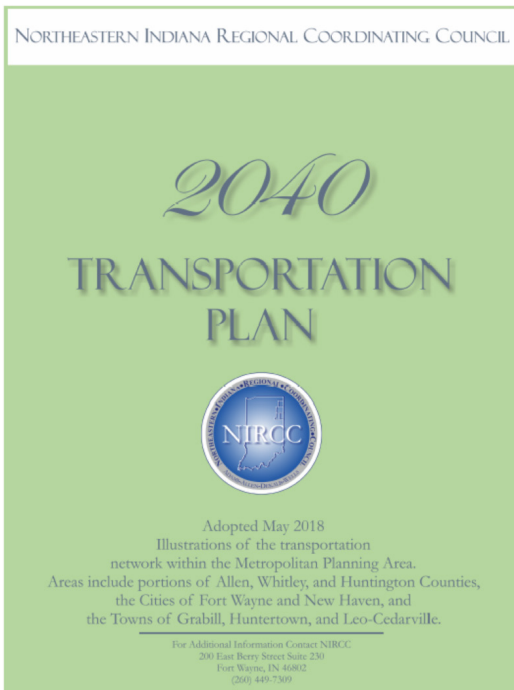
2018 hosted the third annual Pedal, Paddle, and Play which is the NEIWTs annual community event and fundraiser. The event was a success with 117 people out on the water trails and adjacent greenway, many of whom have never been on the Fort Wayne Rivers before. Funds raised from the event will be used to install trailhead signs at boat access sites along the Water Trails in NE Indiana in 2019.

2040 Transportation Plan

*Studies completed by the Northeastern Indiana
Regional Coordinating Council*

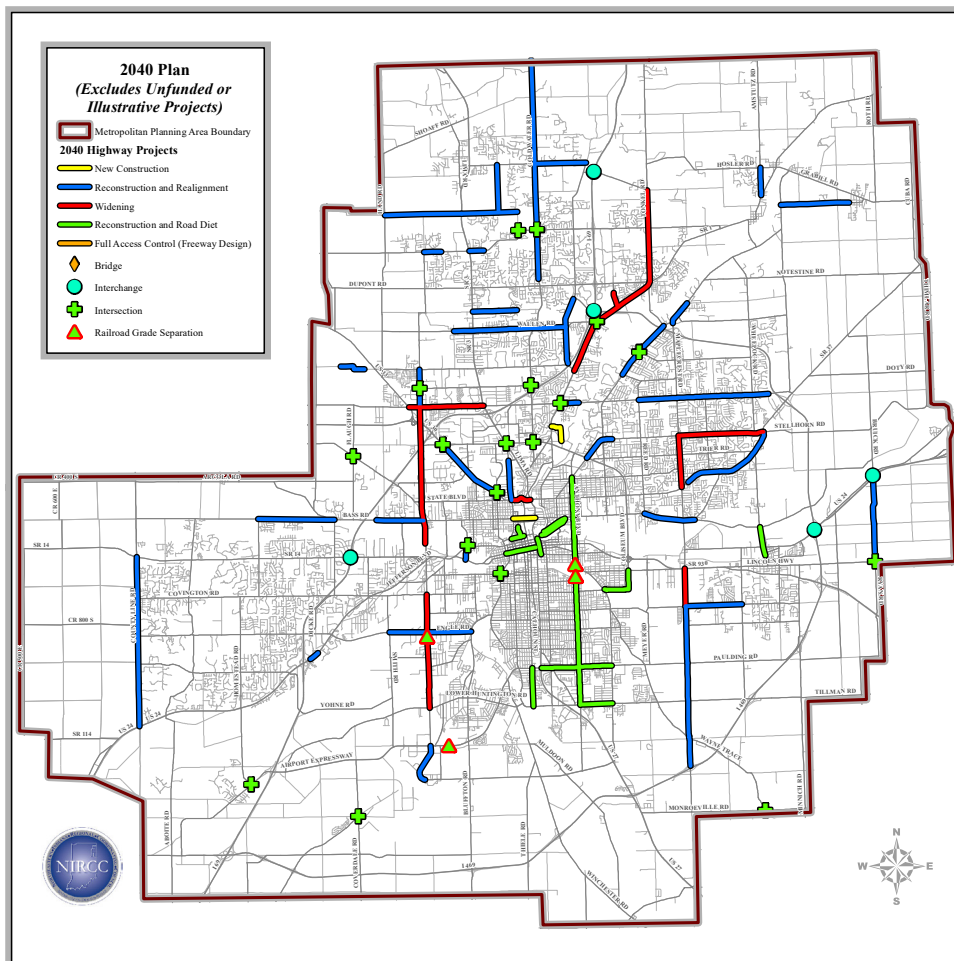
Transportation Summary Report Fiscal Year 2018

2040 TRANSPORTATION PLAN



Every four years the Northeastern Indiana Regional Coordinating Council (NIRCC) updates the long-range transportation plan. The long-range plan is a comprehensive transportation plan that addresses the future needs of the transportation system for at least the next 20 years. As changes occur in the Fort Wayne-New Haven-Allen County Metropolitan Planning Area, the transportation system must be improved to respond to new and increasing travel demands. As part of the plan we make recommendations on all modes of transportation. Recommendations included improvements to the Highway network, Transit system, and Bicycle/Pedestrian facilities. The policies and projects were selected on their potential for mitigating congestion and improving mobility throughout the metropolitan area. A safe and efficient transportation system is the primary goal of the recommended plan.

Figure 47



In fiscal year 2018 NIRCC created the 2040 Transportation Plan. The entire plan can be downloaded or viewed on NIRCC’s website at www.nircc.com. Also, NIRCC printed a new brochure featuring the 2040 Transportation Plan. Copies of the new brochure are available upon request. A downloadable version is available on NIRCC’s website as well.

The following three sections give a brief summary of the main components included in the 2040 Transportation Plan. These sections include the Highway Network, Transit System, and the Bicycle-Pedestrian Transportation Plan. A project list is also included in the section labeled “Highway Network”.

Highway Network

The highway network component of the plan is a comprehensive list of transportation projects and policies carefully developed to meet future travel demands. The projects (Figure 47) fit into four categories; New Construction, Widening, Congestion Management, and Other Highway Improvements. New construction projects enhance the mobility of drivers in areas that become increasingly important as the community grows. Widening projects improve the accessibility of the area, add to street continuity and provide relief in congested areas. Congestion Management Strategies include improvements aimed at maximizing existing highway capacity. Other highway improvements includes the construction and reconstruction of railroad grade separations, and interchange construction and modifications.

A more efficient system allows the traveler to take a quicker route reducing vehicle miles of travel, air pollution, energy consumption and travel delay. Relieving congestion also equates to a reduction in accident potential and improved air quality. The improvement projects will increase mobility and accessibility for transit, freight movement, and passenger vehicles. The projects will also establish a consistent roadway design reducing motorist confusion and improving traffic flow. The following pages provide a list of projects included in the 2040 Transportation Plan.

2040 Transportation Plan Projects

New Construction – two lanes

Paul Shaffer Drive - California Road to Clinton Street
Connector Street - Wells Street to Spy Run Avenue

Widening Projects – four lanes

Adams Center Road - State Road 930 to Moeller Road
Ardmore Avenue - Covington Road to Engle Road
Ardmore Avenue - Engle Road to Lower Huntington Road
Clinton Street - Auburn Road to Wallen Road
Clinton Street - Wallen Road to Dupont Road/State Road 1
Diebold Road - Clinton Street to s/o State Road 1/ Dupont Road
Hillegas Road - s/o Bass Road to Washington Center Road
Maplecrest Road - State Boulevard to Stellhorn Road
State Boulevard - US 27/Clinton Street to Cass Street
Stellhorn Road - Maplecrest Road to Maysville Road
Tonkel Road - Dupont Road/State Road 1 to Hursh Road
Washington Center Road - Lima Road/State Road 3 to US 33

Center Turn Lane Improvement

Auburn Road - Cook Road to Interstate 469 Exit Ramp (3-lane)
Coldwater Road - Mill Lake Road to Gump Road (3-lane)
Engle Road - Bluffton Road to Smith Road (3-lane)
Gump Road - Coldwater Road to Auburn Road (3-lane)

2040 Transportation Plan Projects Continued...

Saint Joe Center Road - Clinton Street to River Run Trail (5-lane)

Saint Joe Center Road - Reed Road to Maplecrest Road (3-lane)

Saint Joe Center Road - Maplecrest Road to Meijer Drive (3-lane)

Road Reconstruction-Road Diet

Anthony Boulevard – Tillman Road to Rudisill Boulevard

Anthony Boulevard – Rudisill Boulevard to Pontiac Street

Anthony Boulevard – Pontiac Street to Wayne Trace

Anthony Boulevard – Wayne Trace to Crescent Avenue

Broadway Street - Bell Avenue to North River Road

Calhoun Street – Paulding Road to Tillman Road

Clay Street – Main Street to Lewis Street

Coliseum Boulevard/Pontiac Street – New Haven Avenue to Wayne Trace

Columbia Street – Saint Joe Boulevard to Lake Avenue

Harrison Street – Superior Street to Second Street

Lake Avenue – Saint Joe Boulevard to Delta Boulevard

Paulding Road – US 27/Lafayette Street to Anthony Boulevard

Paulding Road – Anthony Boulevard to Hessen Cassel Road

Superior Street – Calhoun Street to Wells Street

Tillman Road – Anthony Boulevard to Hessen Cassel Road

Washington Boulevard– Lafayette Street to Van Buren Street

Road Reconstruction – Road Diet

2 Anthony Boulevard – Tillman Road to Rudisill Boulevard

3 Anthony Boulevard – Rudisill Boulevard to Pontiac Street

3 Anthony Boulevard – Pontiac Street to Wayne Trace

3 Anthony Boulevard – Wayne Trace to Crescent Avenue

2 Coliseum Boulevard/Pontiac Street – New Haven Avenue to Wayne Trace

3 McKinnie Avenue – Anthony Boulevard to Hessen Cassel Road

3 Oxford Street – Anthony Boulevard to Hessen Cassel Road

2 Paulding Road – US 27/Lafayette Street to Anthony Boulevard

2 Paulding Road – Anthony Boulevard to Hessen Cassel Road

Turn Lane Extension

Jefferson Boulevard - Interstate 69 Ramp to Lutheran Hospital Entrance

Intersection Reconstruction

Broadway and Taylor Street

Clinton Street and Wallen Road

Clinton Street and Washington Center/Saint Joe Center Road

Coldwater Road and Union Chapel Road

Coldwater Road and Ludwig Road, Coldwater Road and Interstate 69 Interchange Modification

Corbin Road and Union Chapel Road

Coverdale Road, Winters Road and Indianapolis Road

Flaugh Road and Leesburg Road

Goshen Road, Lillian Avenue and Sherman Boulevard

2040 Transportation Plan Projects Continued...

Homestead Road and Lower Huntington Road
 Leesburg Road and Main Street
 Ludwig Road and Huguenard Road
 Rothman Road and Saint Joe Road
 Ryan Road and Dawkins Road
 SR 930 and Coldwater Road
 SR 930 and Goshen Road
 SR 930 and US 27/Lima Road
 Wayne Trace and Monroeville Road

Reconstruction and Realignment

Adams Center Road - Moeller Road to Paulding Road
 Adams Center Road - Paulding Road to Interstate 469
 Allen County/Whitley County Line Road - US 24 to SR 14
 Amstutz Road - Hosler Road to State Road 1/Leo Road
 Ardmore Avenue – Airport Expressway to Ferguson Road
 Bass Road - Clifty Parkway to Thomas Road
 Bass Road - Thomas Road to Hillegas Road
 Bass Road - Hadley Road to Scott Road
 Carroll Road – State Road 3 to Springs Drive
 Carroll Road – e/o Bethel Road to Millstone Drive
 Coldwater Road - Gump Road to Allen County Line
 Cook Road - US 33 to O’Day Road
 Crescent Avenue – Sirlin Drive to State Road 930/Coliseum Boulevard
 Dunton Road - Hathaway Road to Gump Road
 Goshen Avenue - Sherman Boulevard to Coliseum Boulevard/State Road 930
 Hathaway Road - Corbin Road to State Road 3
 Hathaway Road - State Road 3 to Hand Road
 Huguenard Road - Washington Center Road to Cook Road
 Lake Avenue - Reed Road to Maysville Road
 Leesburg Road from Main Street to Jefferson Boulevard
 Maplecrest Road - State Boulevard to Stellhorn Road
 Moeller Road - Hartzell Road to Adams Center
 Ryan Road - Dawkins Road to US 24
 State Boulevard - Maysville Road to Georgetown North Boulevard
 Saint Joe Road - Evard Road to Mayhew Road
 Saint Joe Road - Maplecrest Road to Eby Road
 Till Road - State Road 3 to Dawson Creek Boulevard
 Wallen Road - Hanauer Road to Auburn Road
 Wells Street - State Boulevard to Fernhill Avenue
 Witmer Road - Schwartz Road to County Shoals Lane

New Railroad Grade Separation

Anthony Boulevard and Norfolk Southern Railroad
 Airport Expressway and Norfolk Southern Railroad
 Ardmore Avenue and Norfolk Southern Railroad

2040 Transportation Plan Projects Continued...

Reconstruct Railroad Grade Separation
Anthony Boulevard and CSX Railroad

Interchange – New Construction
Interstate 69 at Hursh Road

Interchange/Ramp – Modification
Interstate 69 and State Road 14/Illinois Road Interchange
Interstate 469 and Interstate 69 Interchange (mm 315)
Interstate 469 and US 24 Interchange
US 24 and Ryan Road/Bruick Road Interchange
3 US 30/US 33/Goshen Road Interchange

Transit System

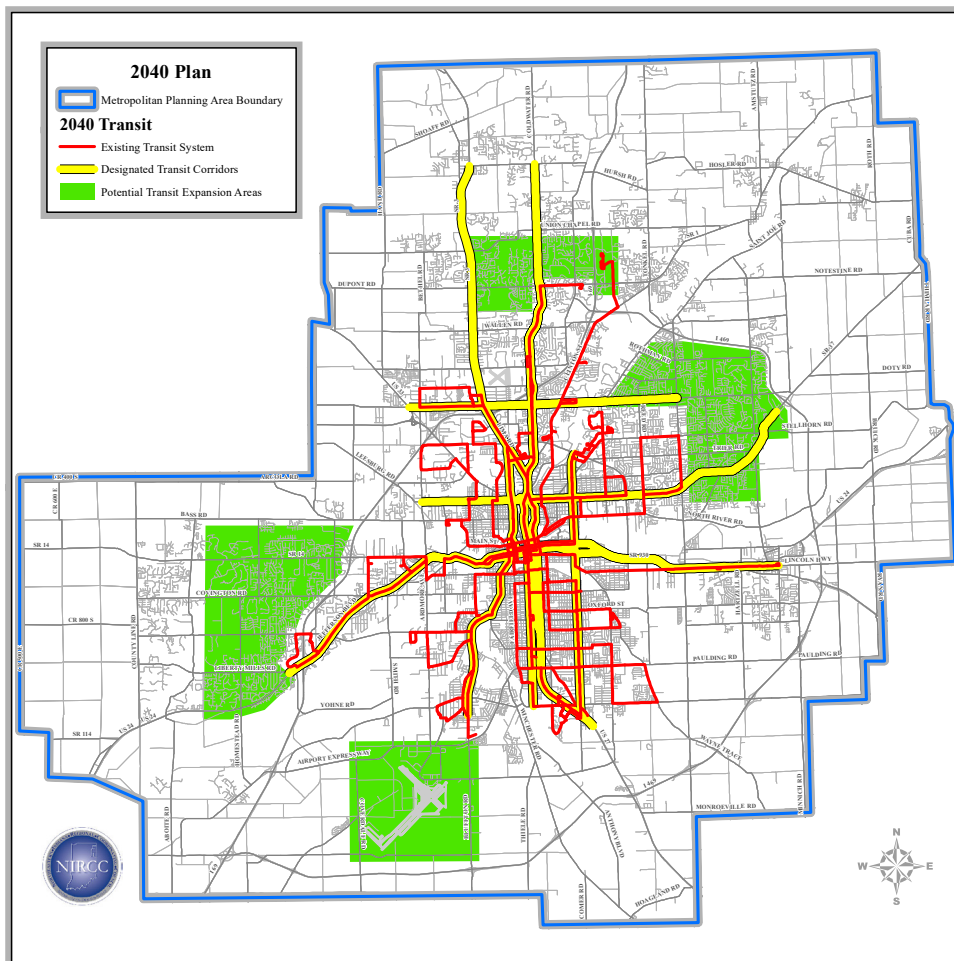


Figure 48

The transit system component of the plan consists of public transit policies and transit improvements (Figure 48). All transit improvements have been derived from the public transit policies that guide future transit growth, methods of service delivery, and transit efficiency. The transit improvements include route modifications, capital projects, and service modifications designed to increase transit efficiency and improve transit service. The policies and improvements were developed with the input of the Transit Planning Committee and the area transit providers. Reducing headways, providing Sunday service, potential transit expansion areas, and developing a downtown intermodal transportation center are examples of

the improvement projects. Specific improvements from the Citilink Transit Development Plan 2010 Update and the identified strategies from the Coordinated Public Transit – Human Services Transportation Plan for Allen County 2017 Update have also been included. However, Citilink initiated a new Comprehensive Operations Analysis (COA) / Transit Development Plan (TDP) in early 2018 with completion anticipated in mid-2019. Recommendations from the COA/TDP that are endorsed and approved by Citilink will be amended into this plan. The policies and improvements primarily affect the two public transit providers within the MPA: Citilink and the new rural transit provider, Countilink. However, the policies and improvements were designed to benefit all transit providers within the MPA: public, non-profit, and private; in order to create a coordinated and efficient transit system and to compliment the overall transportation system.

Bicycle-Pedestrian Transportation Plan

The region represented by NIRCC has many individuals and organizations advocating improvements to the existing bicycle-pedestrian transportation system. To coordinate these efforts and develop a bicycle and pedestrian plan NIRCC sponsored the Northeastern Indiana Regional Bicycle and Pedestrian Forum in 2002. The Forum represented a task force comprised of governmental park departments, planning and highway agencies, advocacy groups, and special project organizations. The overall goal of the Forum was to develop a bicycle-pedestrian transportation plan for the region. The concept was to develop a planning tool for planners and highway officials by identifying a set of routes based on an analysis of significant destinations within the region. Once this was accomplished, the routes were recommended for enhancement and protection.

These routes were assigned design classifications based on the proposed “Allen County Road Specifications and Standards 2004 manual” and the “1999 AASHTO guide for the development of bicycle facilities” to give planners and highway officials standards to follow as they coordinated them with road projects and developments. NIRCC uses the most current AASHTO guide for design classifications used on the current Bicycle-Pedestrian Transportation Plan. These design classifications include bike lanes, widened outside curb lanes, shoulder lanes, sharrows, and bike routes for the on-street network. The off-street network includes trails and sidewalks.

The initial version of the Bicycle-Pedestrian Transportation Plan was adopted in Fiscal Year 2005. Since then NIRCC has continued to update and improve the plan as needed. In 2007 NIRCC incorporated the “Regional Bicycle and Pedestrian Plan for Northeast Indiana”, which now includes the “Northeast Indiana United Trails” plan. Through the years recommendations incorporated into the plan included the needs expressed through public input and local advocacy groups such as Aboite New Trails, Greenway Consortium, Little River Wetlands, Northwest Allen Trails, and Fort Wayne Trails Inc. Other plans and recommendations from Allen County, Fort Wayne, New Haven, Leo-Cedarville, and Woodburn have provided input or have been included in the plan as well.

The newest version of the Bicycle-Pedestrian Transportation Plan has separated out the bicycle and pedestrian plan elements into three separate maps: The Bike and Trail Plan, The Trails Plan, and The Sidewalk Plan. Each of these maps can be seen in Figures 49 - 51. The combination of these three maps must be used to determine what is planned, proposed, or already exists for each corridor or alignment identified. For example, some corridors may only include proposed sidewalks while others may propose bike lanes within the street, a sidewalk on one side, and a trail on the other. Some corridors in the plan also identify which side of the street sidewalks and/or trails are proposed.

Figure 49

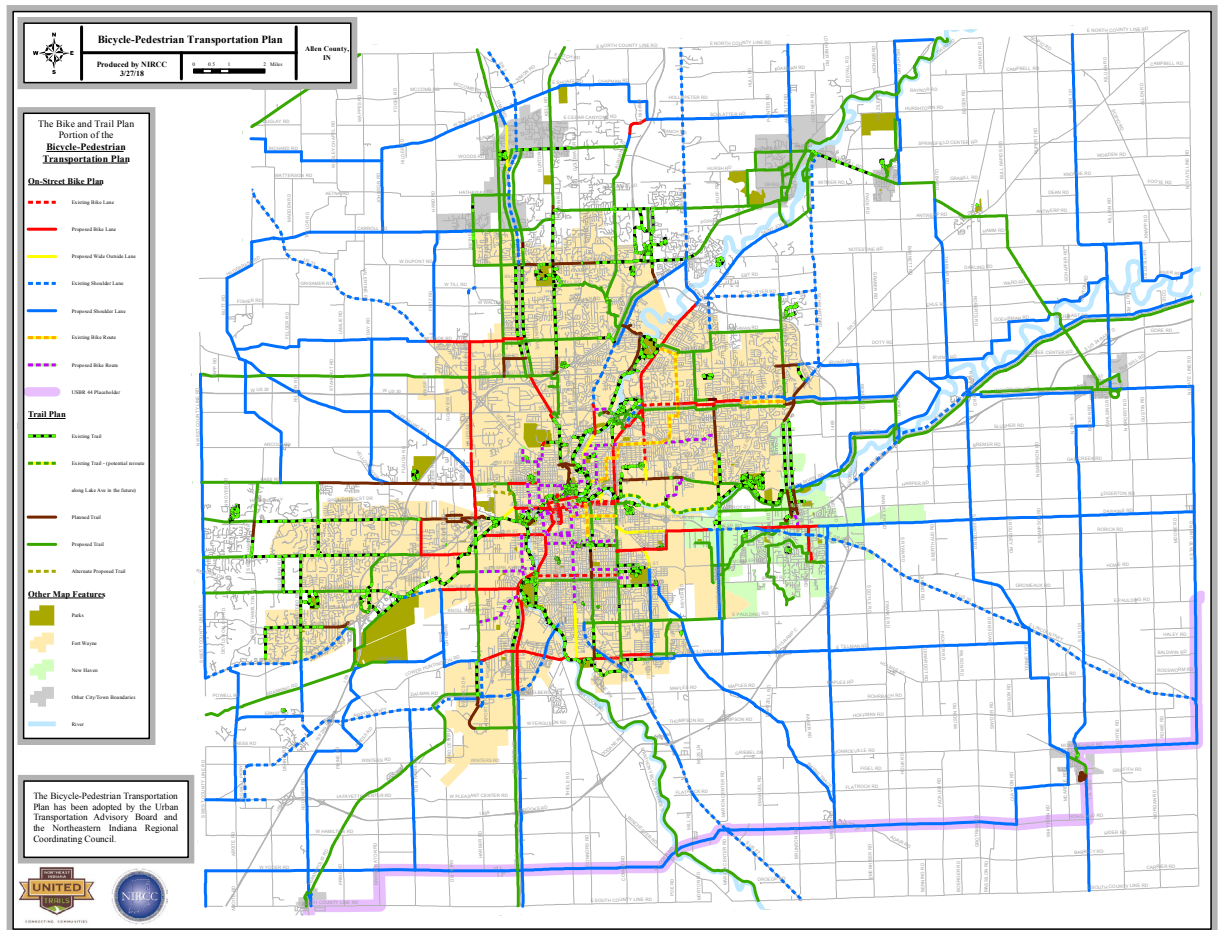


Figure 50

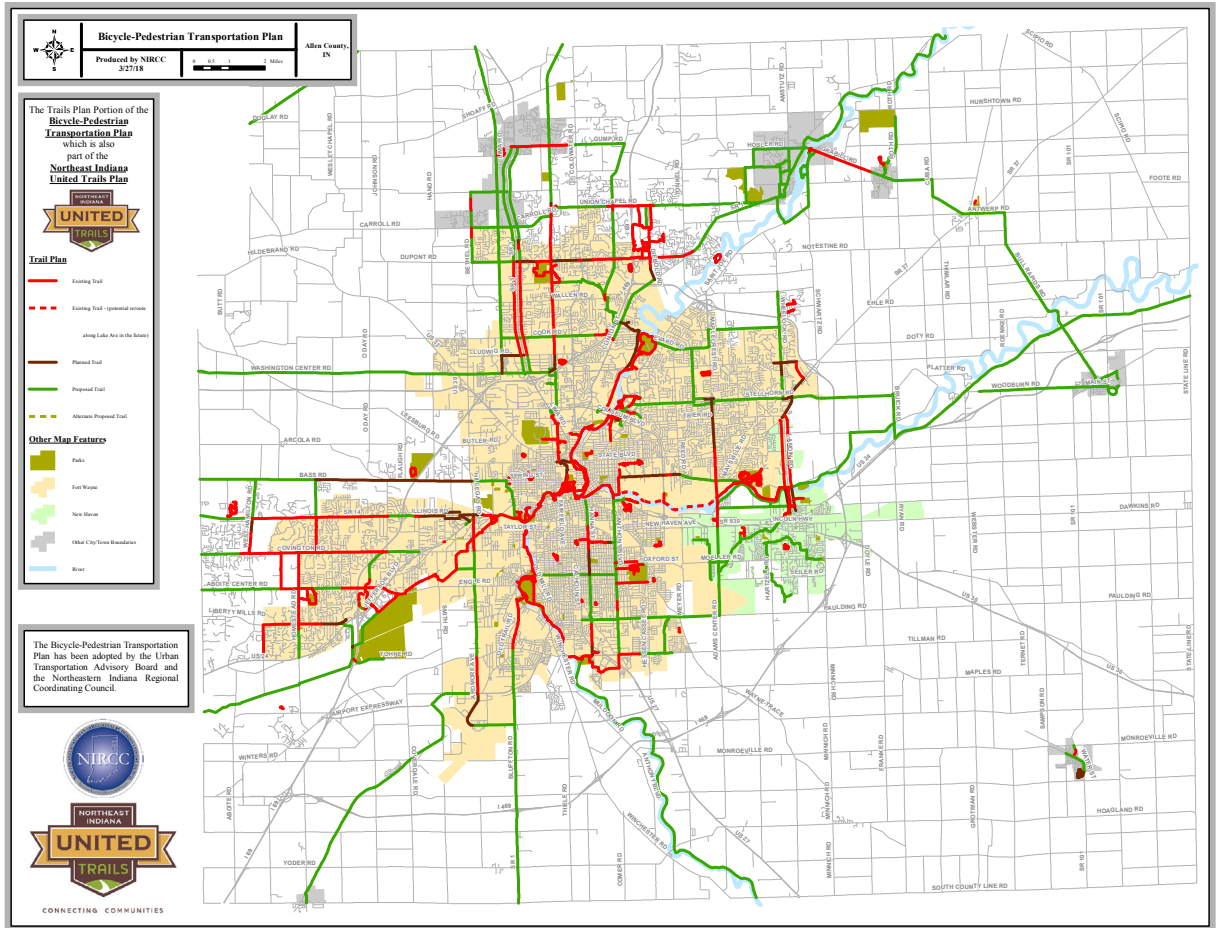
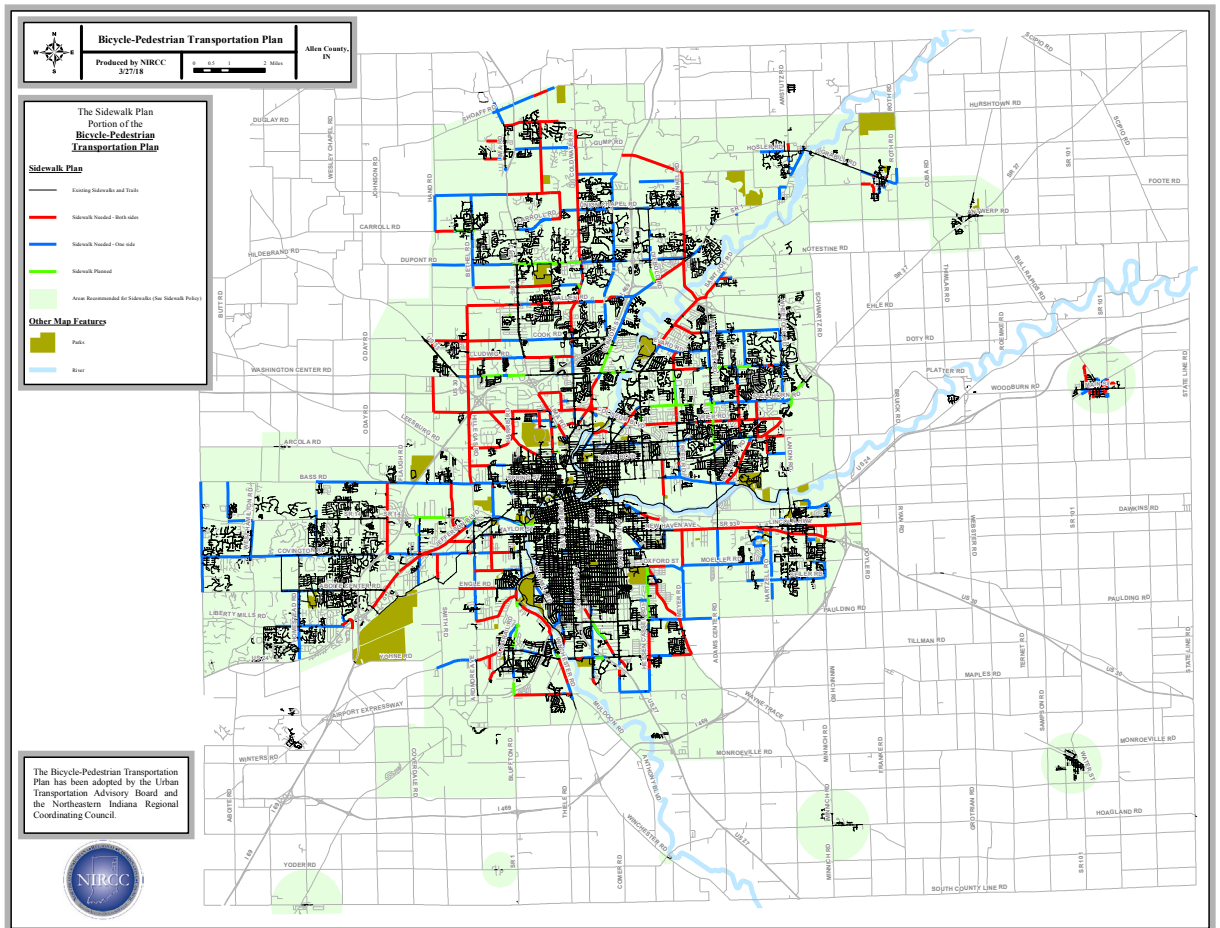


Figure 51



Air Quality Conformity Determination Allen County

*Studies completed by the Northeastern Indiana
Regional Coordinating Council*

Transportation Summary Report Fiscal Year 2018

AIR QUALITY CONFORMITY DETERMINATION ALLEN COUNTY 2040 LONG RANGE TRANSPORTATION PLAN

The Air Quality Conformity Determination for the 2040 Transportation Plan was performed to ensure the Plan remains compliant with federal regulations regarding the National Ambient Air Quality Standards (NAAQS), Fixing America's Surface Transportation Act (FAST Act), and judicial interpretations of applicable rules, regulations and legislation. Allen County was designated nonattainment for the 1997 ozone NAAQS and was re-designated to attainment for the pollutant ozone in February 2007, and guidance indicated that conformity determinations were no longer required. Recently, the U.S. Court of Appeals for the D.C. Circuit issued a decision in *South Coast Air Quality Management District v. EPA*, No. 15-1115, which struck down portions of the 2008 Ozone NAAQS SIP Requirements Rule concerning the ozone National Ambient Air Quality Standards (NAAQS). The Court ruling has placed a shadow of uncertainty on the region's ability to advance transportation projects without demonstrating conformity. The Northeastern Indiana Regional Coordinating Council (NIRCC), with guidance from its stakeholders, has decided to perform an Air Quality Conformity Determination for 2040 Transportation Plan to address any potential backsliding of the 2008 ozone requirements and ensure project implementation can proceed on schedule. NIRCC will demonstrate that its transportation plan conforms to the 2020 air quality emission budgets established for the ozone precursor pollutants of volatile organic compounds (VOC) and nitrogen oxides (NO_x). In addition, the analysis will demonstrate that Allen County, the designated attainment area, in its entirety will conform to the established 2020 State Implementation Plan (SIP) budget.

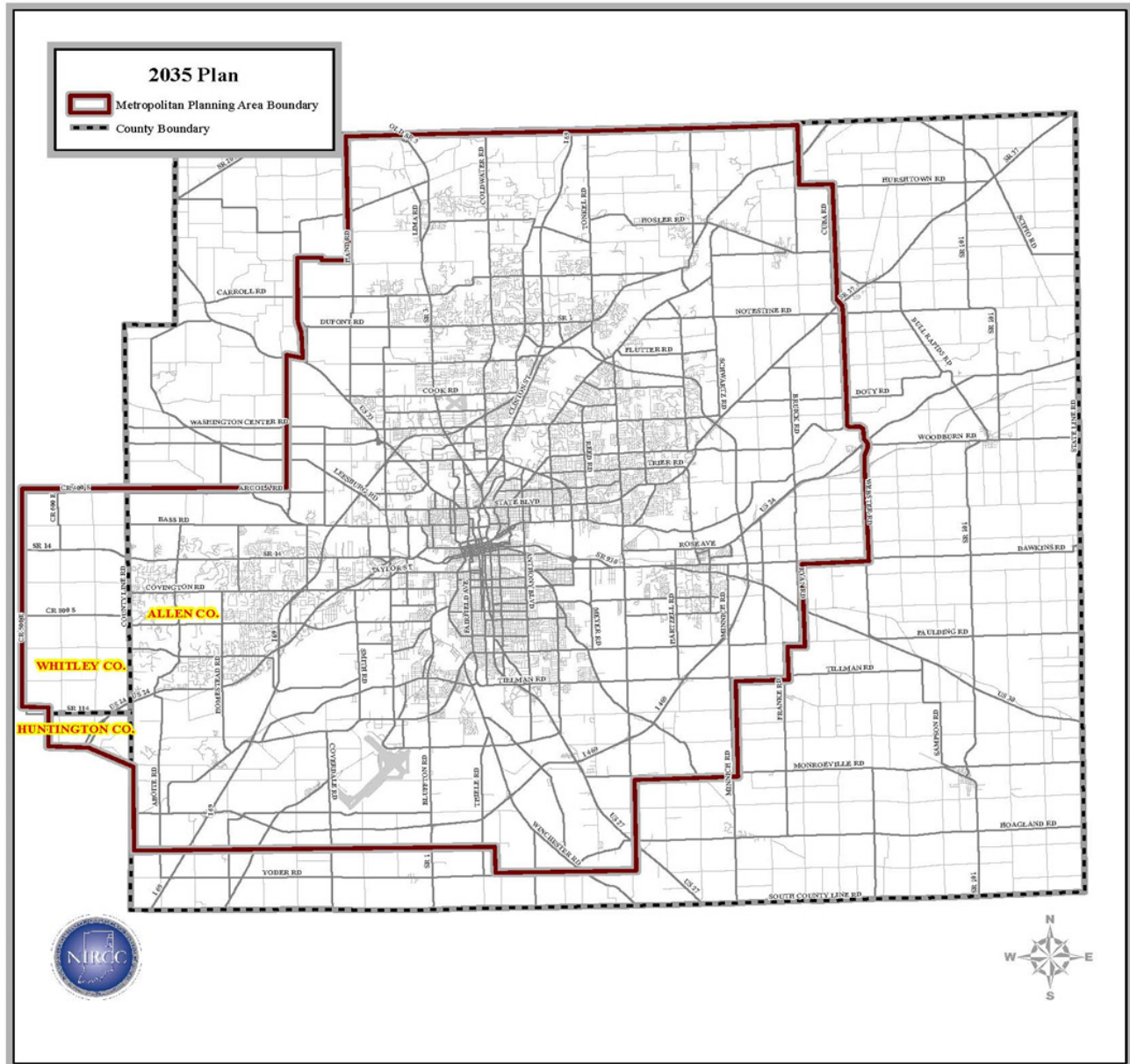
Air quality conformity for the 2040 Transportation Plan was determined based on the analysis included in this report. As required, an emissions analysis was performed for the base year 2015, and each of the study years of the plan. The analysis demonstrates the emissions of VOC and NO_x will not exceed the 2020 SIP budget if the projects in the 2040 Transportation Plan are implemented as proposed. The emissions analysis addresses all of Allen County. Figure 52 displays the Metropolitan Planning Area and Allen County boundaries. The conformity analysis demonstrates that vehicle emissions based on the 2040 Transportation Plan will remain below the 2020 budget for analysis years 2020, 2030, and 2040. Thus, the NIRCC 2040

Transportation Plan conforms to the Clean Air Act as amended. The analysis also demonstrates that Allen County meets the conformity requirements of the Clean Air Act as amended.

Table: 2015, 2020, 2030 and 2040 Analysis Year Comparison to 2020 SIP Budget

Analysis Year	Total VOC Emissions tons/day	2020 VOC SIP Budget tons/day	Total NO _x Emissions tons/day	2020 NO _x SIP Budget tons/day
2015	5.43	NA	12.73	NA
2020	3.81	4.52	8.18	9.72
2030	3.19	4.52	6.28	9.72
2040	3.40	4.52	6.93	9.72

Figure 52



The conformity determination was coordinated with stakeholder and regulatory agencies through an Interagency Consultation process to formally deliberate any issues. A consultation group conference call was conducted on May 29, 2018 at which time representatives from Indiana Department of Environmental Management (IDEM), Federal Highway Administration (FHWA), US Environmental Protection Agency (USEPA), Indiana Department of Transportation (INDOT), Convergence Planning and Northeastern Indiana Regional Coordinating Council (NIRCC). Representatives from the Federal Transit Administration (FTA) and Citilink were invited to the meeting but were unable to attend. The Interagency Consultation Group (ICG) agreed that as information from the analysis was available, it could be distributed to the ICG via email and members would decide if subsequent meetings would be necessary.

SUMMARY

The Transportation Summary Report provides an overview of some of the transportation planning activities performed by the Northeastern Indiana Regional Coordinating Council (NIRCC) during Fiscal Year 2018. The Summary Report highlights a majority of the transportation planning activities conducted and the products produced by NIRCC during Fiscal Year 2018. The document provides a basic overview of the transportation planning activities, data and products produced as part of the transportation planning process. Various types of traffic data integral to the planning process are collected and processed. Traffic volume and classification data are two examples of this basic information. The vehicle miles of travel provides a mechanism for assessing travel demand growth within the region.

Traffic studies help monitor the transportation system, identify problem areas and assist in the development of viable solutions. Crash analyses, intersection analyses, and different types of corridor studies serve to improve safety and efficiency. Through a cooperative and coordinated process the cities of Fort Wayne and New Haven, Allen County, Citilink, and the State of Indiana review the information and recommend improvements. The multimodal nature of the planning process includes public transit, para-transit, bicycle and pedestrian travel. The projects listed in the Fiscal Year 2018-2021 Transportation Improvement Program (TIP) represent the improvements selected for implementation. The Fiscal Year 2018-2021 TIP can be found on NIRCC's website.

The staff of the Northeastern Indiana Regional Coordinating Council will continue to monitor the transportation system striving to provide a complete transportation system. A system that enhances efficiency, promotes safety, and maintains a conscious regard for the quality of life. For this goal to become a reality, constant monitoring of the existing system must occur. Staff is continually collecting data on the existing system to support the short-range planning process and to identify the challenges and opportunities of the future.

The primary purpose of this report is to familiarize the readers with the techniques used by NIRCC and the resulting products to promote a more functional transportation process in our community. However, this report only provides a summary of the wide variety of activities conducted by NIRCC and its staff. NIRCC is constantly striving to provide relevant information to the public and communities it serves to support a decision-making process that improves the transportation system.

If you would like additional information concerning the studies and reports referenced in this document or have questions regarding the transportation planning process, please contact NIRCC staff at (260) 449-7309. NIRCC also maintains a website that contains many of the transportation planning documents and products at www.nircc.com. The site also contains an amended Transportation Improvement Program (TIP), 2040 Transportation Plan, and many other documents and staff contact information.

Transportation Summary Report Fiscal Year 2018

*Studies completed by the Northeastern Indiana
Regional Coordinating Council*

Transportation Summary Report Fiscal Year 2018

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