

Transportation Summary Report



NIRCC Fiscal **Year 2021**



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 2021. 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, the amended Fiscal Year 2020-2024 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

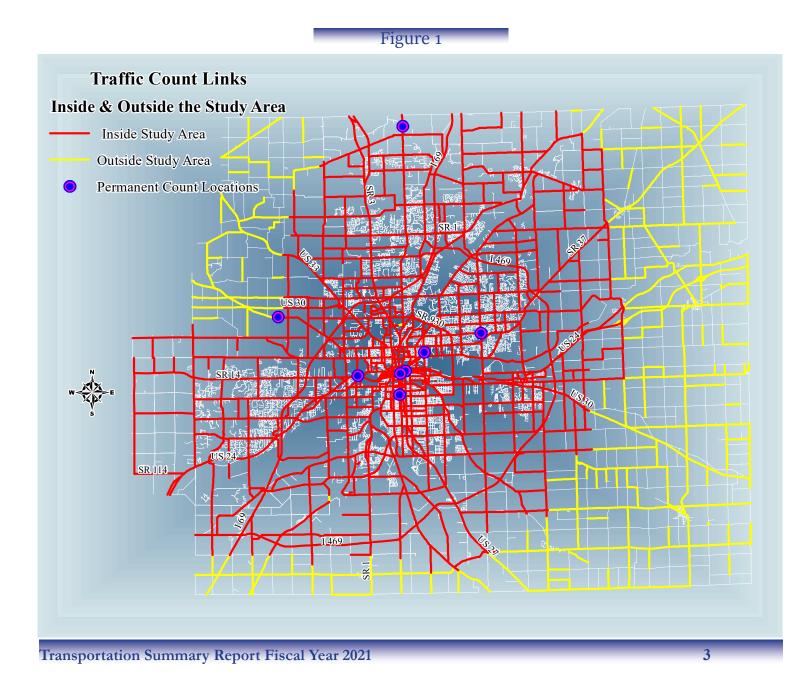
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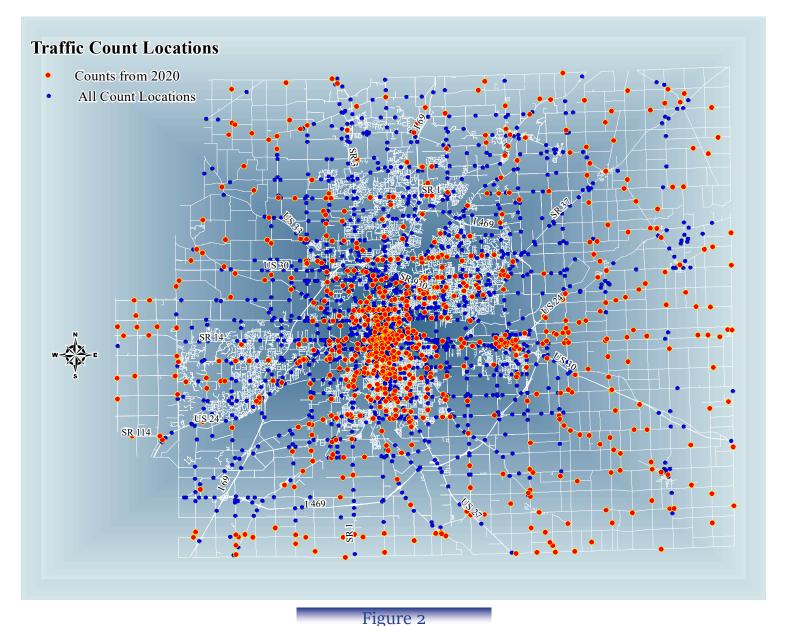
TRAFFIC SURVEILLANCE

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



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



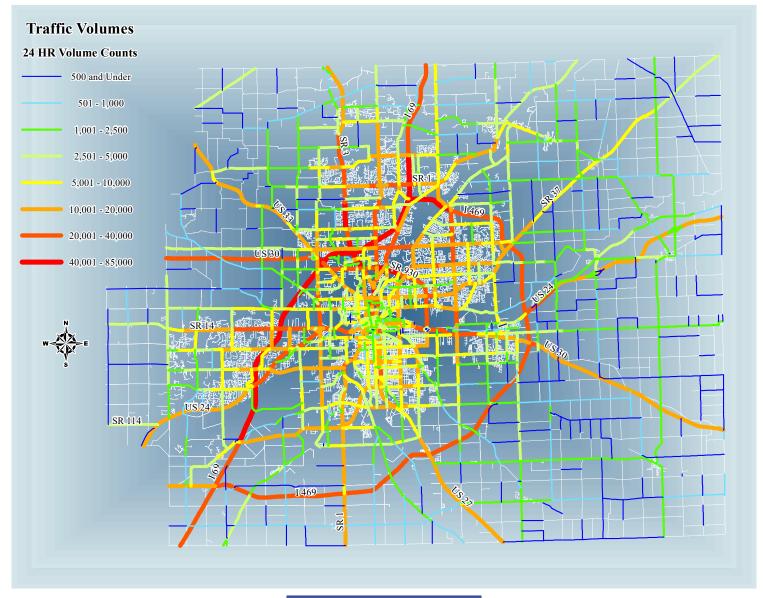
another for various reasons. Weather conditions, construction, economic activities and school/work schedules are just a few of the variables that cause seasonal variations in traffic flow. Traffic count data collected in November may be very different than traffic count data collected in July. Because 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 2020 (January to December), data was collected at 726 locations within the Metropolitan Planning Area (MPA), as illustrated in figure 2. As part of the rural count

program for Allen County, NIRCC also completed an additional 196 counts outside of the MPA. As part of the rural traffic count program in DeKalb County, NIRCC completed 276 counts and an additional 171 counts as part of the state count 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 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

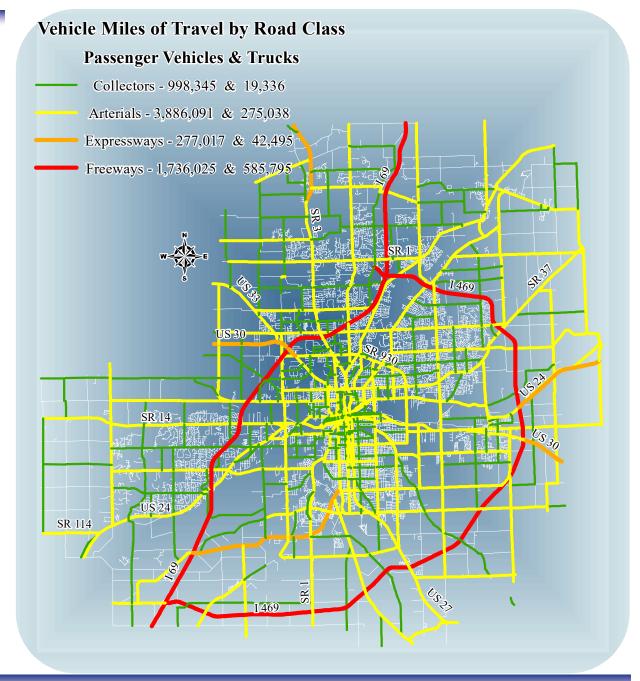
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VEHICLE MILES OF TRAVEL

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 decreased from 7,980,264 in 2019 to 7,820,141 in 2020. This represents a decrease of -2.01 percent. The VMT decreased on expressways (-8.67%), on arterial streets (-2.78%) and on collector streets (-1.05%) over the previous year. The VMT is illustrated for 2020 in figure 4.

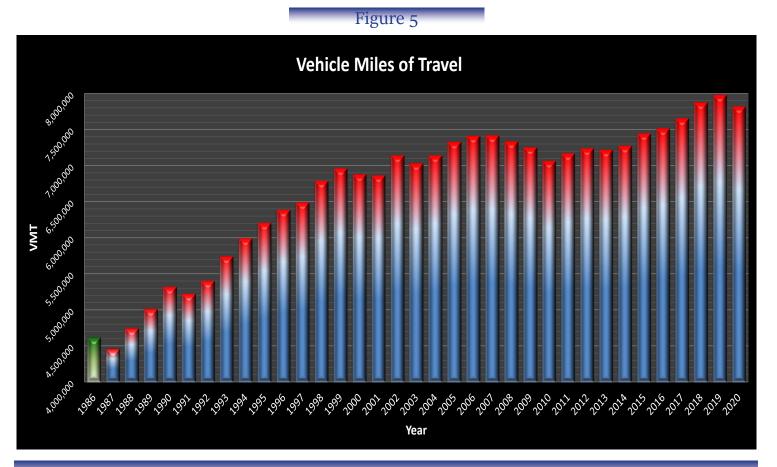
Figure 4



Vehicle Miles of Travel Summary FY 21

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, weather, and most recently; the COVID Pandemic. Another factor could be due to reclassifying roadways based on usage type. This was the case for the large increase in Expressway miles for 2019 which was the first year US 24 E was classified as an Expressway.

The bar chart shown in figure 5 displays the annual VMT estimates for the past 34 years spanning from 1986 to 2020 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 35 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, pandemics, 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.



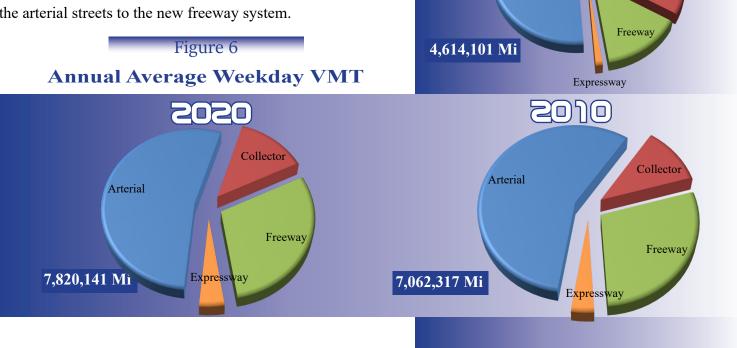
Vehicle Miles of Travel Summary FY 21

Figure 6 presents three pie charts that represent the proportions of VMT by street classification for the years 1986, 2010, and 2020. As you can see, the proportions of traffic in 1986 are different compared to the proportions of traffic

Arterial

Collector

in 2010 and 2020. 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.

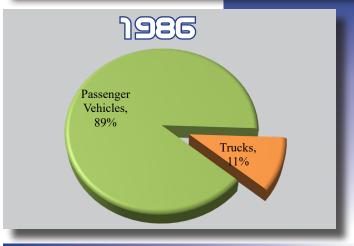


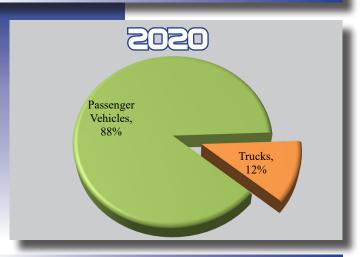
The VMT is also broken down to show the annual average VMT for passenger vehicles and trucks. The pie charts contained in figure 7 illustrate the VMT for 1986 and 2020. The proportion of truck traffic compared to passenger vehicle traffic is almost identical in 1986 and 2020. A further breakdown of the proportionate usage of passenger vehicles versus trucks on the different road classifications shows some interesting differences between 1986 and 2020. 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 2020 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 2020. 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

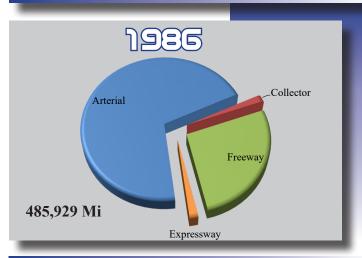
Figure 7

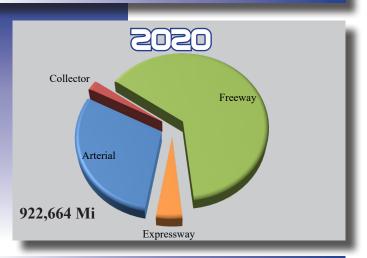
Annual Average Weekday VMT for Passenger Vehicles compared to Trucks



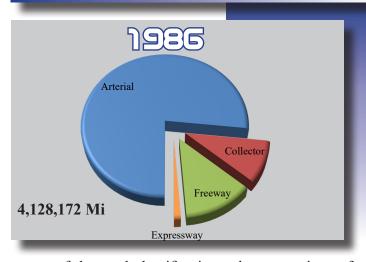


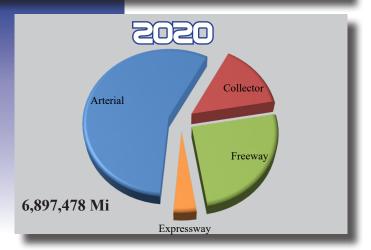
Annual Average Weekday VMT for Trucks





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 2020.

Figure 8

Percentage of Annual Average Weekday VMT for Passenger Wehleles Compared to Traucks









Intersection and Arterial Analysis

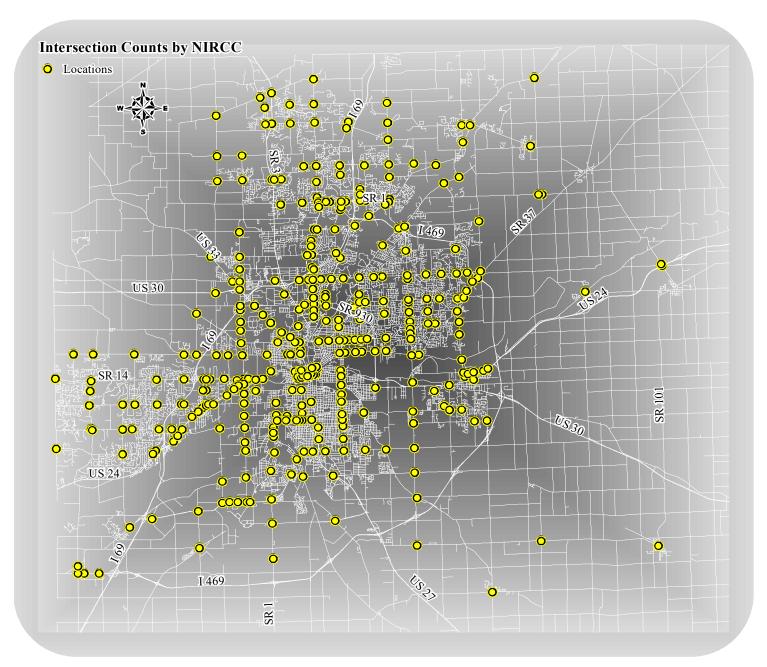
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INTERSECTION AND ARTERIAL ANALYSIS

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 2021, NIRCC evaluated 20 intersections which are listed in the table contained in figure 10. Out of these 20 intersections, 14 were signalized and 6 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 2021 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 2021 are illustrated in figure 15.

Figure 10

Signalized Intersections

- Anthony Blvd / Paulding Rd
- Bluffton Rd / Ferguson Rd
- Bluffton Rd / Old Trail Rd
- Broadway / Jefferson Blvd
 - Broadway / Taylor St
- Broadway / Washington Blvd
 - Clinton St / Mayhew Rd
- Clinton St (US 27) / Washington Blvd
 - Decatur Rd / Paulding Rd
 - Hanna Rd / Paulding Rd
- Lafayette St (US 27) / Jefferson Blvd
- New Vision Dr / Parkview Plaza Dr
 - State Blvd / Wells St
 - Tonkel Rd / Union Chapel Rd

Unsignalized Intersections

- Carroll Rd / Mossy Oak Run
- Carroll Rd / Coral Springs Dr
- Chestnut Passway / W Hamilton Rd
 - Flutter Rd / Wheelock Rd
 - Leesburg Rd / Main St
 - Melbourne Dr / Woodmere Dr

Figure 11

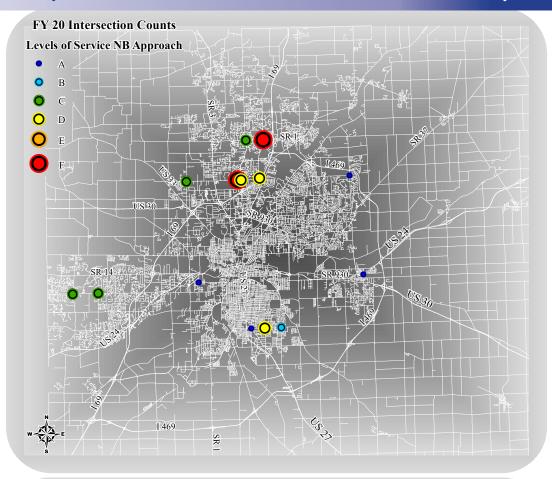
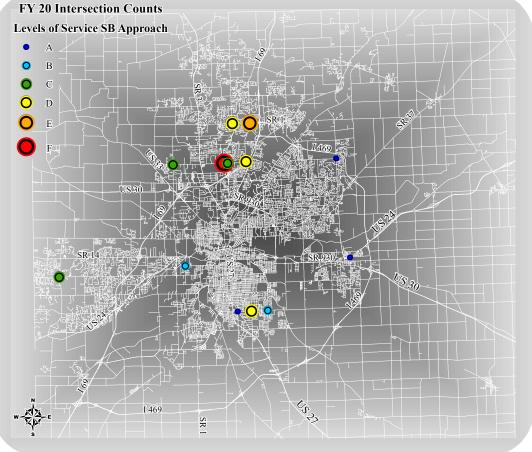


Figure 12



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

Figure 13

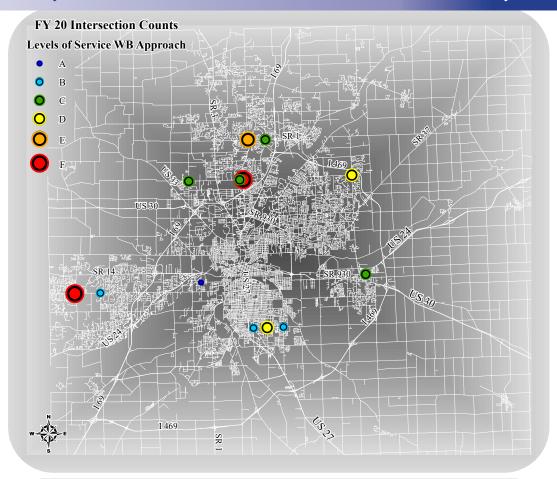
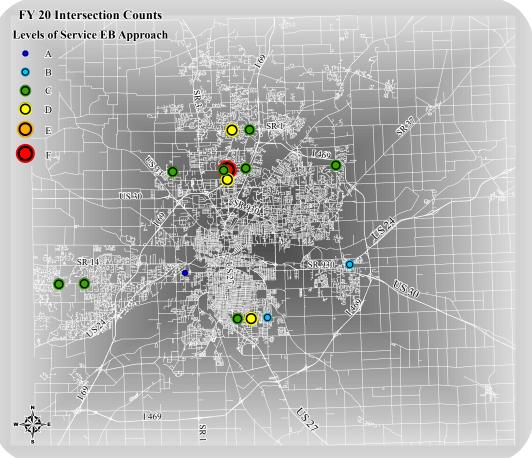
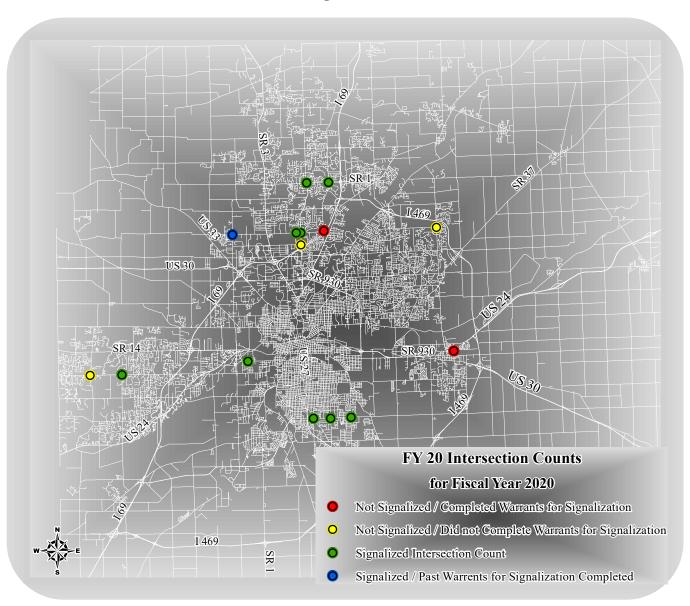


Figure 14



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

Figure 15



Corridor Studies

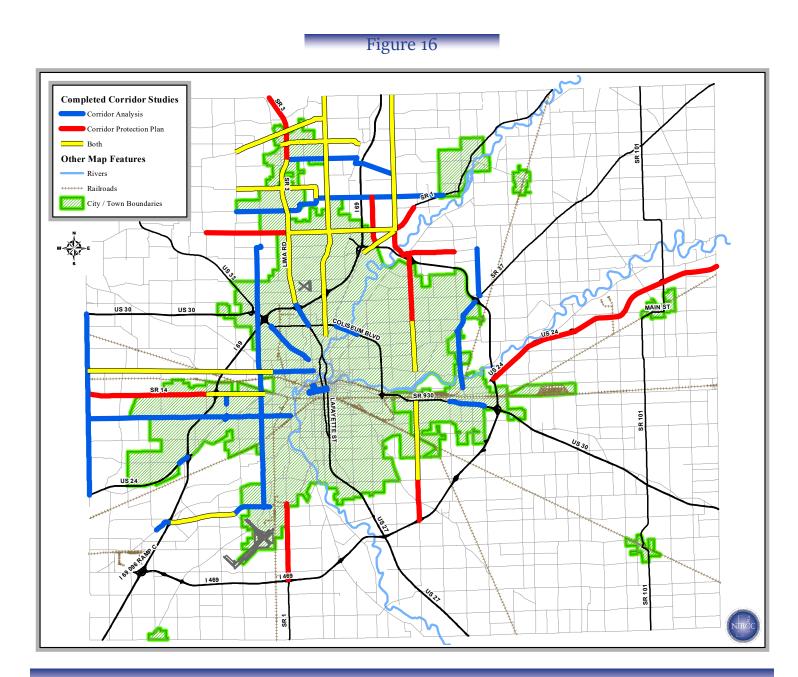
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CORRIDOR STUDIES

Another activity conducted by NIRCC is the study of corridors throughout Allen County. There are two types of studies that are used to evaluate different aspects of the corridors: corridor and impact analysis studies and corridor protection studies and plans. Figure 16 illustrates the corridor studies that have been completed by NIRCC.

The main purpose of a corridor and impact analysis is to evaluate traffic impacts of future developments on an existing corridor, as well as locations that are in need of current or future infrastructure improvements. The corridor analysis estimates the number of new trips from anticipated developments that will be added to an existing facility to examine the changes of service level. When service levels fall below acceptable levels, recommendations are tested to



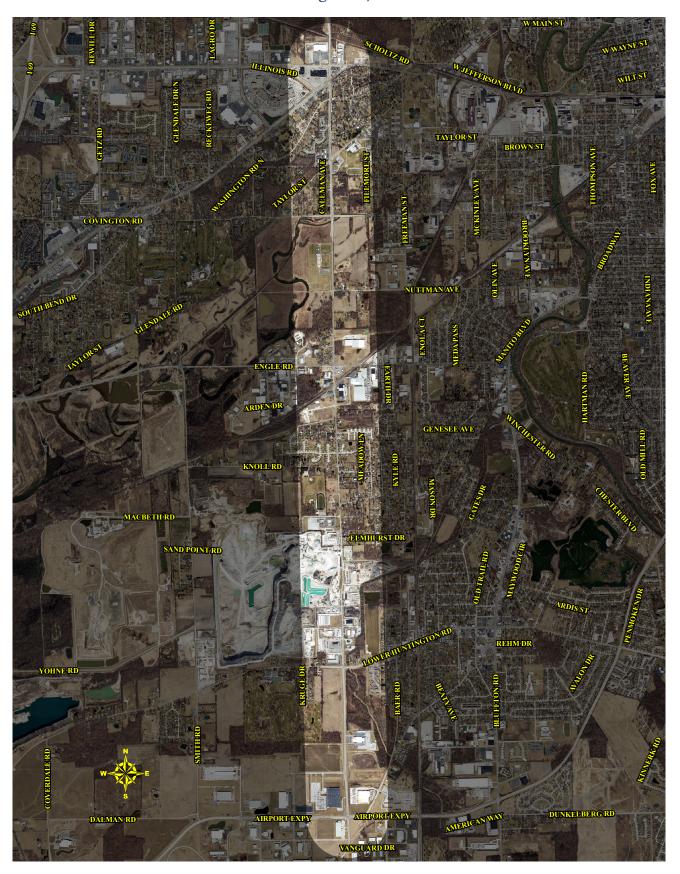
accommodate future traffic and relieve anticipated congestion problems along the corridor. Information provided by a corridor and impact analysis helps in developing a corridor protection plan that can be an efficient tool for mitigating potential congestion.

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.

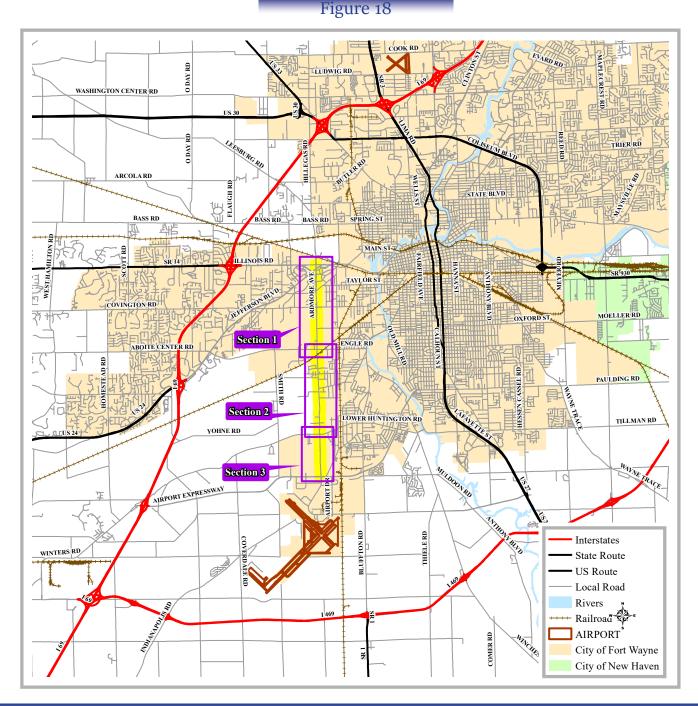
In Fiscal Year 2021, NIRCC completed one corridor and impact analysis. NIRCC completed the Ardmore Avenue corridor and impact analysis which was initiated by NIRCC in FY21 due to the developments within the area. The Ardmore Avenue study focuses on the section from Illinois Road to Airport Expressway. This corridor and impact analysis study area can be seen in figure 17.

Figure 17



Corridor and Impact Analysis Study Ardmore Avenue Corridor and Impact Analysis

The main purpose of this corridor and impact analysis is to evaluate traffic impacts of proposed roadway projects and future developments on an existing corridor. The Ardmore Ave study was initiated by NIRCC in FY 21 due to the developments along the corridor. The study of Ardmore Avenue focuses on three separate sections of the corridor (figure 18). The first section starts from Illinois Road on the north and ends at Engle Road on the south, and Illinois Road S to the west. The second section starts at Engle Road and ends at Lower Huntington Road. The third section starts at Lower Huntington Road and ends at Airport Expressway. The analysis for this study calculated and examined existing



conditions and estimated future changes to the levels of service (LOS) based on current and projected traffic volumes and with the planned future improvements.

LOS is defined in terms of delay, which is a measure of driver discomfort, frustration, fuel consumption, and lost travel time. LOS is based upon the average stopped delay per vehicle for various movements within the intersection. LOS "A" describes operations with very low delays; most vehicles do not stop at all. LOS "C" describes operations with longer delays; stopping vehicles are significant but many still pass without stopping. LOS "F" describes operations with delays unacceptable to most drivers; the

Figure 19



intersection is exceeding capacity. When service levels fall below acceptable levels, recommendations are tested to accommodate future traffic and relieve anticipated congestion problems along the corridor. These studies also identify problem areas and develop recommendations for roadway improvements.

Ardmore Ave is an Urban Minor Arterial that runs north and south on the southwest side of Fort Wayne. Traffic volumes along the Ardmore Ave corridor range from 11,000 vehicles per day to almost 20,000 vehicles per day (figure 19). Figure 18 shows the entire corridor in relation to the City of Fort Wayne and Allen County.

The study examines the following scenarios:

- Scenario 1: Existing Conditions.
- > Scenario 2: Existing volumes + traffic generated by the proposed developments(Phase I).
- > Scenario 3: Existing volumes + traffic generated by the proposed developments(Phase I) + traffic generated by the areas with a potential for development (Phase II).

There is potential for a number of developments along the Ardmore Ave corridor and the surrounding area. Figure 20 shows the proposed and potential development locations studied during Phase I and Phase II within section 3 of the study. Figure 21 shows an example table from the report which shows the number of trips these proposed and potential developments may generate.

The distribution of the population within the area, the characteristics of the roadway system, and degree of congestion on the corresponding roadway affect the directional distribution of site-generated traffic. The trip distributions for this study area were determined by examining the existing traffic counts, and by evaluating the major traffic generators in the vicinity of the study area. The ITE Trip Generation Manual, 10th edition was used to forecast the number of new trips from phase I and phase II residential and commercial developments. After determining the number of trips from each residential or commercial development, the trips were distributed and assigned to the adjacent roads and intersections along the corridor based upon existing traffic patterns of distribution as described earlier. The new trips were added to the existing traffic volumes to obtain the turning movement distributions for each intersection for the phase I and phase II scenarios.

The Ardmore Avenue Corridor study focused on a number of intersections for analysis. The following page shows an example of the Ardmore Avenue and Lower Huntington Road intersection analysis. Existing conditions and 2 scenarios were analyzed for this intersection showing impacts of

Development Phase

Phase I

Phase II

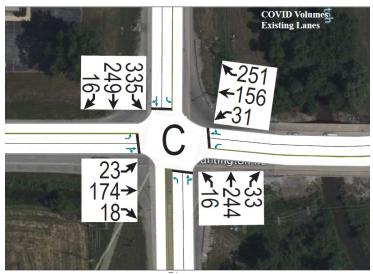
INMEDITATION III

INMEDITATI

Figure 21

Table 14: New Trips from Phase I Residential/Commercial Development				
	Peak	-Enter	Peak-Exit	
Site	AM	PM	AM	PM
15. Industrial ~ 45 Acres	304	119	54	276
16. Industrial Site - 60 Acres	406	158	72	368
17. Industrial Site - 70 Acres	1	102	0	38
18. Industrial ~ 24 Acres	162	63	29	147
19. Industrial ~ 11 Acres	74	29	13	68
20. Industrial ~ 38 Acres (6 parcels)	20	8	4	18
21. Industrial ~ 75 Acres (3 parcels)	95	37	17	86
22. Industrial ~ 100 Acres	77	89	41	370
New Trips from Phase II Residential/Commercial Development				
23. Industrial ~ 18 Acres (2 parcels)	34	13	6	31
24. Industrial ~ 10 Acres (4 parcels)	68	26	12	62
25. Industrial ~ 36 Acres	27	11	5	25

Figure 22

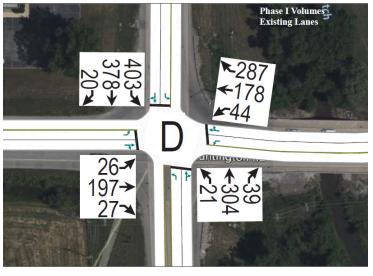


current and future development (see figures 22-26). This analysis also generated proposed projects and the resulting level of service changes to compare with existing conditions.

Scenario 1: - Existing Conditions (figure 22 - PM Peak)

Figure 22 shows the geometry at this intersection, along with the current p.m. peak volumes. The intersection analysis indicates that this intersection is currently operating at a Level of Service (LOS) "C" for a.m. and p.m. peak hours. Note that these numbers were adjusted for the COVID-19 reduction in traffic as well.

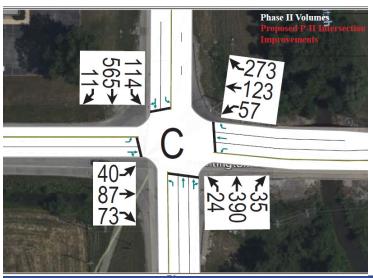
Figure 23



Scenario 2: - Proposed Development Recommendations (figure 23 - PM Peak)

The analysis indicates the intersection will operate at a LOS "C" for a.m. and "D" for p.m. peak hours with the added trips of phase I during the peak hours.

Figure 24



Scenario 3: - Potential Development Recommendations (figure 24 - PM Peak)

The analysis indicates the intersection will operate at a LOS "D" for a.m. and "F" for p.m. peak hours with the added trips of phase II during the peak hours. The intersection can be improved to a LOS "B" for a.m. and A "C" for the p.m. peak hours with completing the proposed 2040 Transportation Plan 4-lane project on Ardmore Avenue.

The following gives a summary of the recommended improvements from the entire corridor analysis. If you would like any additional information about this corridor analysis or would like to see the full report please contact NIRCC.

The recommended improvements are listed below based on Phase II traffic flow projections:

- The Hillegas Road / Illinois Road intersection improvements; add an exclusive turn lanes on the southbound and eastbound approaches.
- The Ardmore Avenue / Jefferson Boulevard intersection improvements; adding a southbound right turn lane.
- The Illinois Road S / Jefferson Boulevard intersections improvements; adding a third southbound left turn lane.
- The Illinois Road / Illinois Road S intersection improvement; no recommendations at this time.
- The Ardmore Avenue / Taylor Street intersection improvement; no recommendations at this time.
- The Ardmore Avenue / Covington Road intersection improvement; no recommendations at this time.
- The Ardmore Avenue / Nuttman Avenue intersection improvement; add additional through lanes as stated in the 2040 Transportation Plan.
- The Ardmore Avenue / Engle Road intersection improvement; add additional through lanes as stated in the 2040 Transportation Plan.
- The Ardmore Avenue /Sand Point Road intersection improvement; add additional through lanes as stated in the 2040 Transportation Plan.
- The Ardmore Avenue / Lower Huntington Road intersection improvement; add additional through lanes as stated in the 2040 Transportation Plan.

Travel Time and Delay Studies

Studies completed by the Northeastern Indiana Regional Coordinating Council

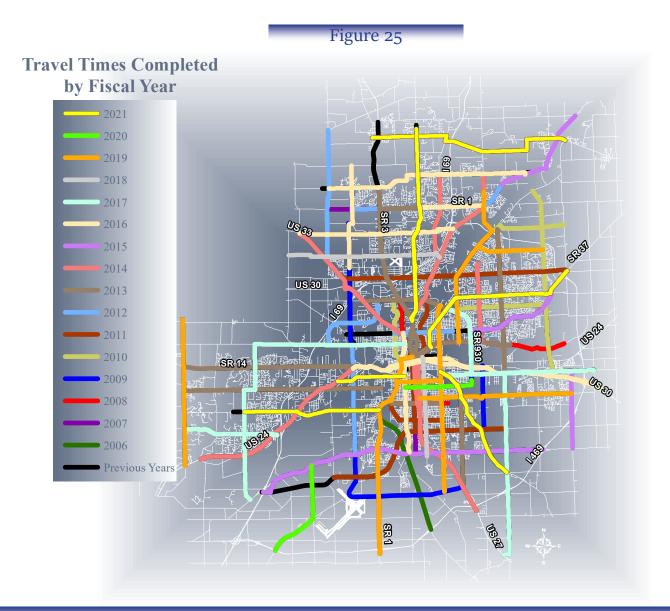
Transportation Summary Report Fiscal Year 2021

TRAVEL TIME & DELAY STUDIES

Another activity conducted by NIRCC is the travel time and delay studies. Figure 25 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.*



NIRCC studied six (6) corridors during Fiscal Year 2021 including: 1) Gump Road / Auburn Road / Hursh Road / Halter Road / Hosler Road / Grabill Road from Lima Road to Souder Road; 2) Coldwater Road from Clinton Street to Gump Road; 3) Taylor Street from Jefferson Boulevard to Fairfield Avenue; 4) Aboite Center Road / Engle Road from Eggeman Road to Bluffton Road; 5) Wayne Trace from Anthony Boulevard to Marion Center Road; 6) Crescent Avenue / Stellhorn Road / Maysville Road from Columbia Avenue to Saint Joseph Center Road. The travel time studies completed during Fiscal Year 2021 are illustrated in Figure 26.

Figure 26 **Completed Travel Time Studies FY 2021** SR1 US 33 US 30 **SR 14**

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 27 - 40 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 six corridors studied in Fiscal Year 2021. 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 2021

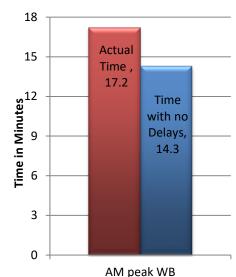
Figure 27

Gump Road / Auburn Road / Hursh Road / Halter Road / Hosler Road / Grabill Road AM Peak





<u>Travel Time</u> with the <u>Greatest Amount</u> of delay



Travel Speed with the **Greatest**

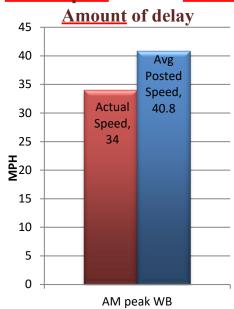


Figure 28

Gump Road / Auburn Road / Hursh Road / Halter Road / Hosler Road / Grabill Road PM Peak





Travel Time with the **Least**

Amount of delay 18 15 Actual Time, with no Delays, 14.3 OFF peak WB

*Off Peak Travel Times are not shown graphically.

Travel Speed with the Least

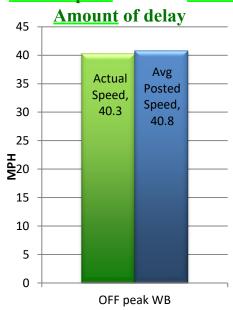
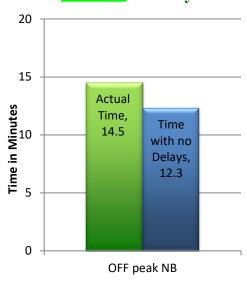


Figure 29

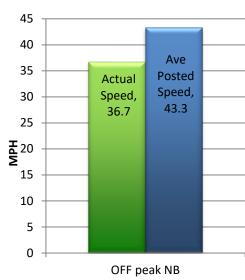
Coldwater Road AM Peak

Travel Time with the Least Amount of delay



*Off Peak Travel Times are not shown graphically.

Travel Speed with the Least Amount of delay





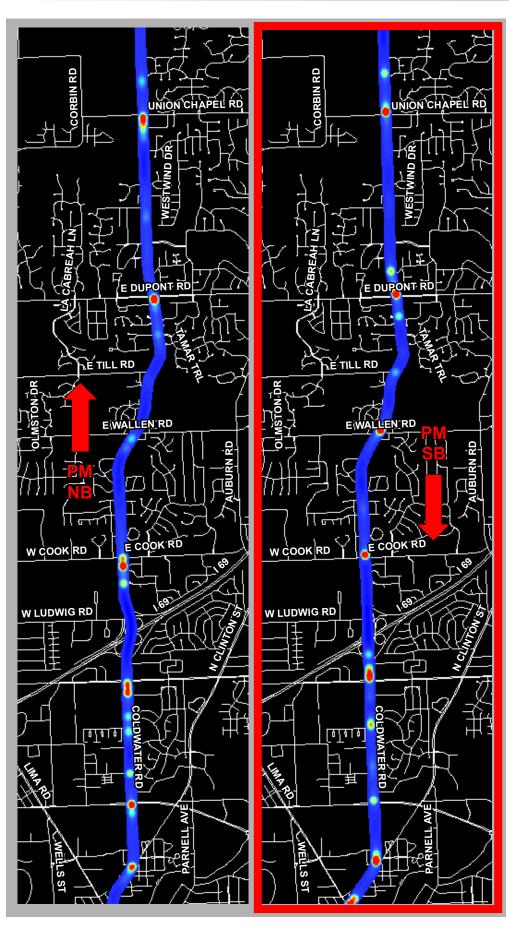
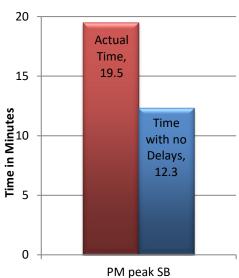


Figure 30

Coldwater Road PM Peak

<u>Travel Time</u> with the <u>Greatest Amount</u> of delay



<u>Travel Speed</u> with the <u>Greatest Amount</u> of delay

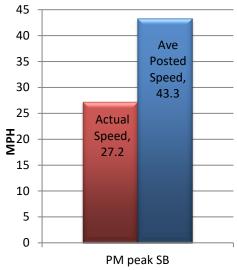
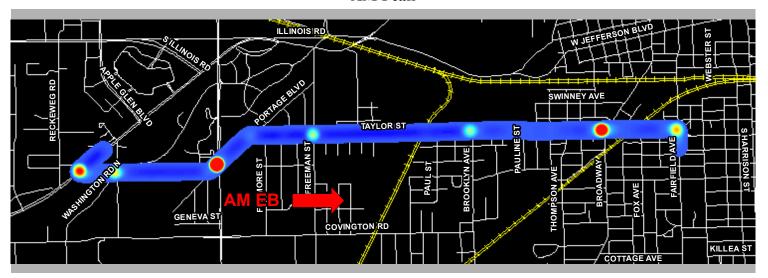
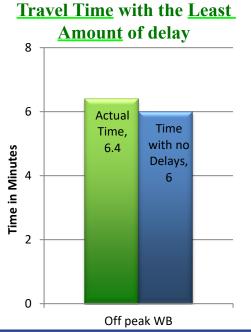


Figure 31
Taylor Street
AM Peak







*Off Peak Travel Times are not shown graphically.

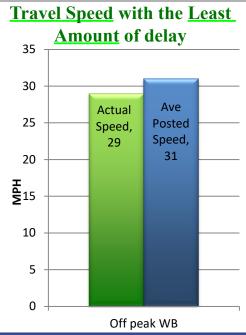


Figure 32
Taylor Street
PM Peak





Greatest Amount of delay

8
Actual Time, 7.8
Time with no Delays, 6

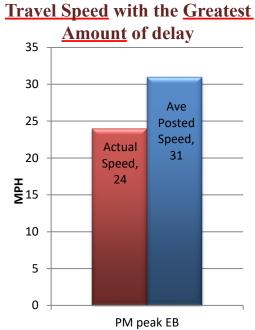
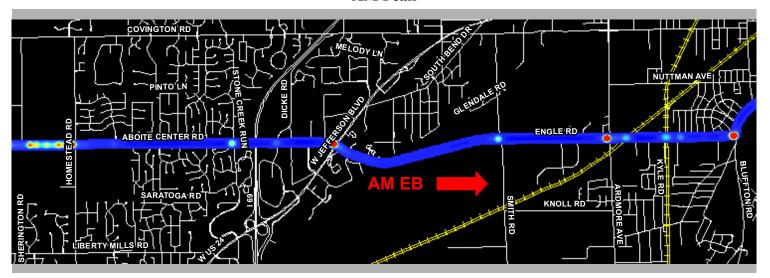
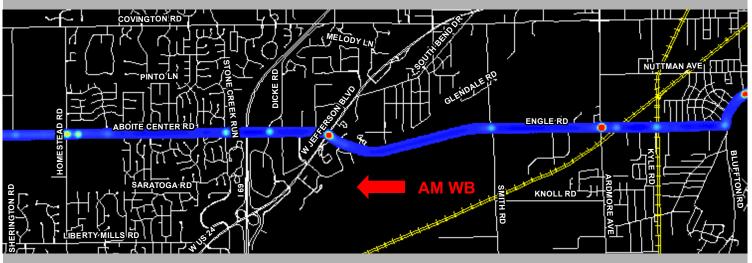
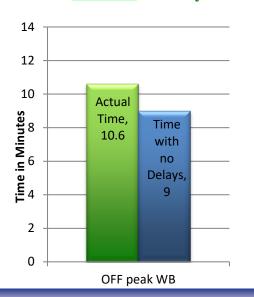


Figure 33
Aboite Center Road / Engle Road
AM Peak





Travel Time with the Least
Amount of delay



*Off Peak Travel Times are not shown graphically.

Travel Speed with the Least Amount of delay

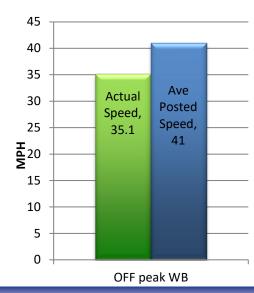
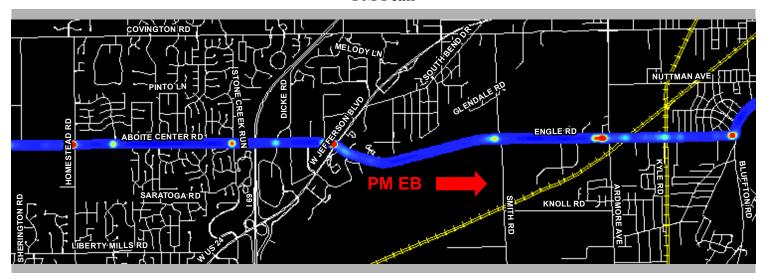
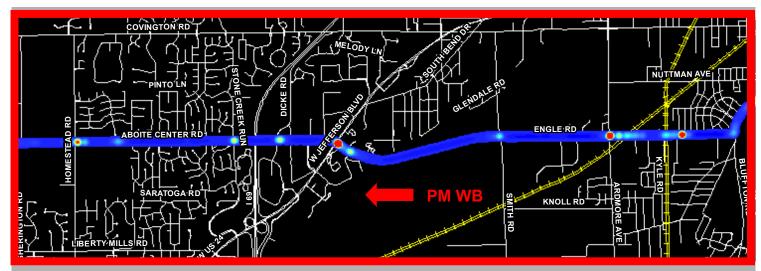
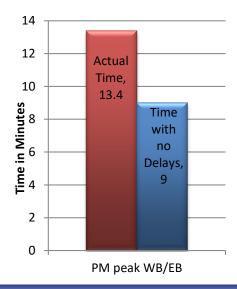


Figure 34
Aboite Center Road / Engle Road
PM Peak





<u>Travel Time</u> with the <u>Greatest Amount</u> of delay



Travel Speed with the Greatest

Amount of delay

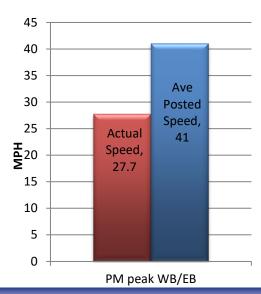
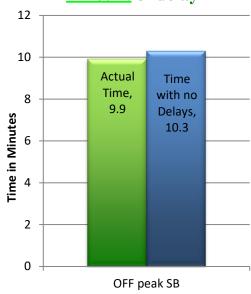


Figure 35

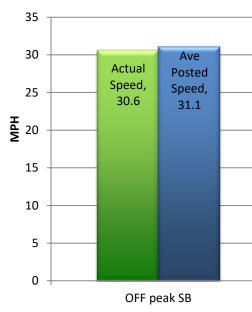
Wayne Trace AM Peak

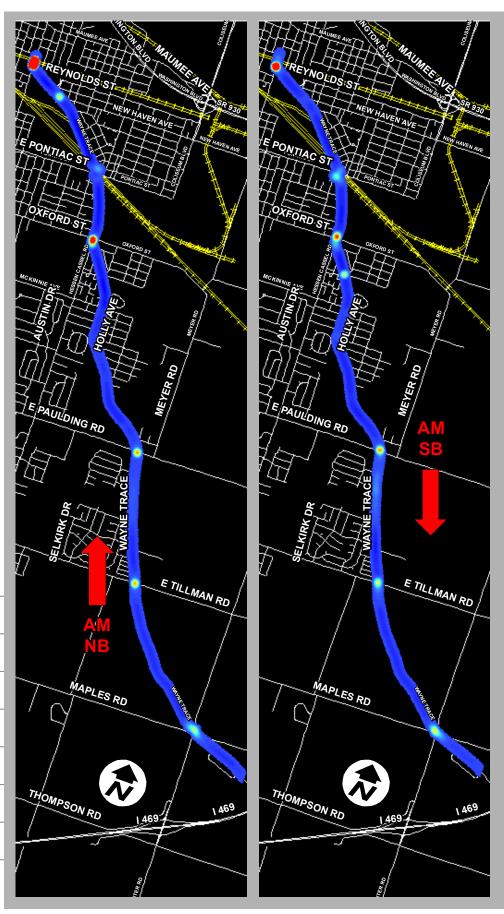
Travel Time with the Least Amount of delay



*Off Peak Travel Times are not shown graphically.

Travel Speed with the Least Amount of delay





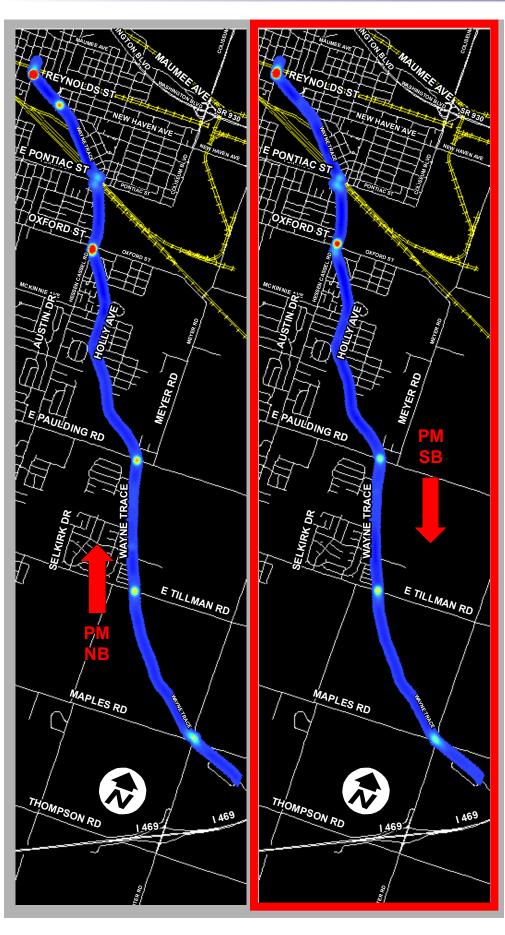
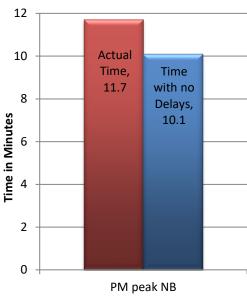


Figure 36

Wayne Trace PM Peak

<u>Travel Time</u> with the <u>Greatest Amount</u> of delay



<u>Travel Speed</u> with the <u>Greatest Amount</u> of delay

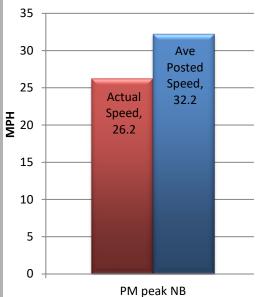
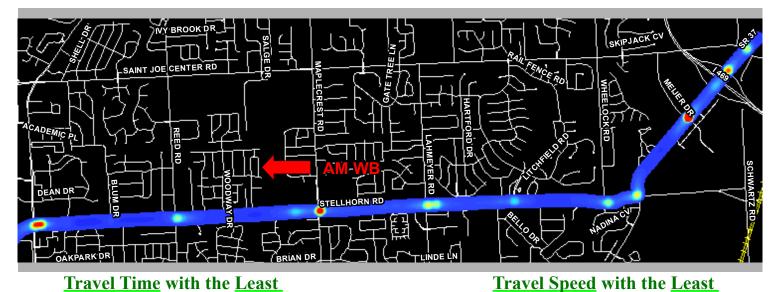


Figure 37
Crescent Avenue / Stellhorn Road / Maysville Road
AM Peak





Amount of delay

Actual
Time,
14.9

Time
with no
Delays,
12.2

OFF peak WB/SB

*Off Peak Travel Times are not shown graphically.

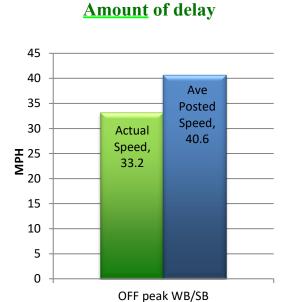
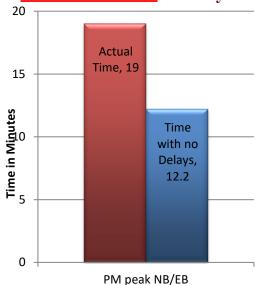


Figure 38
Crescent Avenue / Stellhorn Road / Maysville Road
PM Peak





Travel Time with the Greatest Amount of delay



<u>Travel Speed</u> with the <u>Greatest</u> <u>Amount</u> of delay

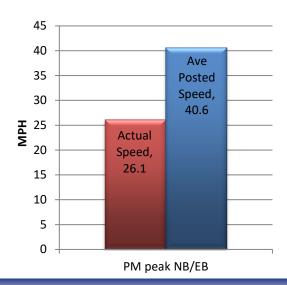
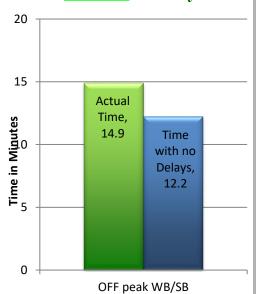


Figure 39

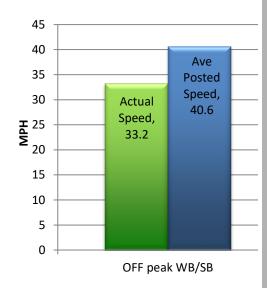
Crescent Avenue / Stellhorn Road /
Maysville Road
AM Peak

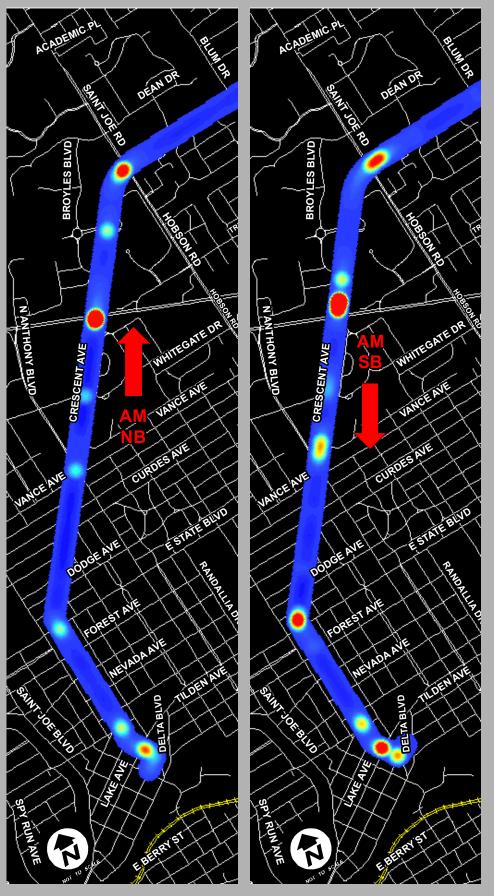
Travel Time with the Least Amount of delay



*Off Peak Travel Times are not shown graphically.

Travel Speed with the Least Amount of delay





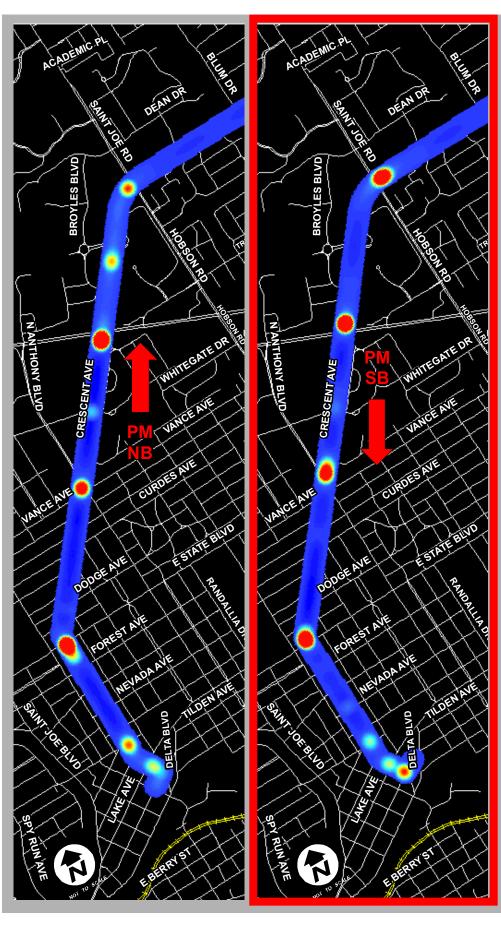
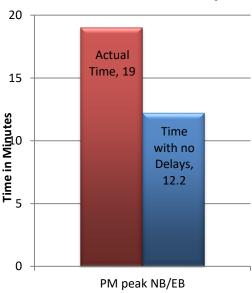


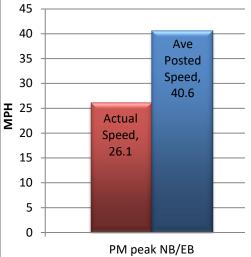
Figure 40

Crescent Avenue / Stellhorn Road /
Maysville Road
PM Peak

<u>Travel Time</u> with the <u>Greatest Amount</u> of delay



<u>Travel Speed</u> with the <u>Greatest Amount</u> of delay



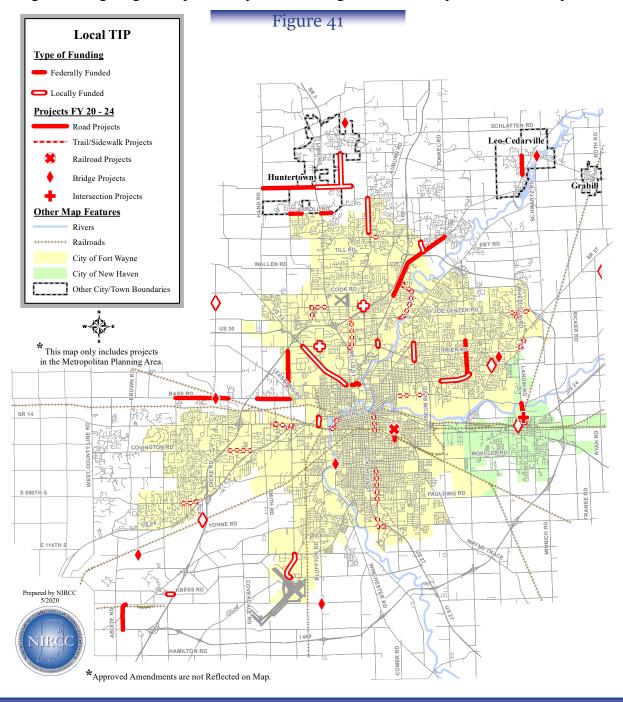
Transportation Improvement Program

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

TRANSPORTATION IMPROVEMENT PROGRAM (TIP) PROJECTS

During Fiscal Year 2021 (July 1, 2020 through June 30, 2021) NIRCC continued to implement the approved (April 2019) Transportation Improvement Program (TIP) for Fiscal Years 2020-2024. In addition to working in the 2020-2024 TIP, NIRCC prepared the Transportation Improvement Program for Fiscal Years 2022-2026. 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 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 transportation plans including the Indiana Department of Transportation's Capital



Improvements Program are used to formulate the TIP. The TIP includes commitments of the City of Fort Wayne, Fort Wayne Public Transportation Corporation (Citilink), 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.



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 43



Figure 41 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 42 and 43 provide aerial views to show detailed examples of projects shown in Figure 41. 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 61 are locally funded projects only. Also note that not all projects

listed on the following pages are shown in figure 41 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 | CE-Construction Engineering | UT-Utilities

FY 2021 TIP Federally and Locally Funded Projects

Project	Phase	Improvement Type
Allen County Bridge Inspection	PE	Bridge Inspection
Amber Rd Bridge #226	PE	Bridge Replacement
Antwerp Rd Bridge #15	PE	Bridge Replacement
Bass Road: Clifty Parkway to Thomas Rd	CN/CE	Road Reconstruction
Bass Road: Thomas Rd to Hillegas Rd	CE	Road Reconstruction
Bass Road: Scott Rd to Hadley Rd	RW	Road Reconstruction
Bluffton Rd Bridge #257	PE	Bridge Replacement
Bluffton Rd Bridge #358	PE	Bridge Deck Reconstruction
Broadway/Landin: North River Rd to Powers St - Ph 1	CN/CE	Intersection Imp/Road Reconstruct
Fishing Line Trail: RR corridor between Ludwig and Cook	PE	New Trail
Goeglein Rd Bridge #113	PE	Bridge Replacement
Hillegas Road: State Blvd to Coliseum Blvd	PE	Added Travel Lanes
Kell Rd Bridge #46	PE	Bridge Deck Overlay and Widening
Maplecrest Road: State Blvd to Stellhorn Rd - Phase 2	CN/CE	Road Reconstruction
Monroeville Rd Bridge #277	PE	Bridge Replacement
Monroeville Sidewalks	PE/RW	Various Sidewalk Projects
Monroeville Trail	PE/RW	New Trail
Slusher Rd Bridge #141	PE	Bridge Replacement
UPWP HSIP Funds	PE	Work Program Activities
Woodburn Rd Trail	RW	New Trail

FY 2022 TIP Federally and Locally Funded Projects

Project	Phase	Improvement Type
Allen County Bridge Inspection	PE	Bridge Inspection
Amstutz Road: Hosler Rd to Leo Rd/SR 1	RW	Road Reconstruction
Bass Road: Scott Rd to Hadley Rd - Phase 3A	CN/CE	New Bridge
Broadway/St/Landin Rd: North River Rd to Powers St - Ph 2	CN/CE	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
Carroll Road at Coral Springs Dr/Shearwater Run	PE	Roundabout
Fishing Line Trail: RR corridor between Ludwig and Cook	CN	New Trail
Grabill Rd Bridge over St Joe River	PE	Reconstruction w/bike-ped facilities
Hathaway Road: Lima Rd to Hand Rd	PE	Road Reconstruction
Hillegas Road: State Blvd to Coliseum Blvd	PE	Added Travel Lanes

Continued... FY 2022 TIP Federally and Locally Funded Projects

Project

Maplecrest Road: State Blvd to Stellhorn Rd - Phase 2 $\,$

Monroeville Rd at Wayne Trace

Monroeville Sidewalks

Monroeville Trail

UPWP - HSIP Funds

Phase

CE

PE CN

CN PE

Improvement Type

Road Reconstruction

Roundabout

Various Sidewalk Projects

New Trail

Work Program Activities

FY 2023 TIP Federally and Locally Funded Projects

Project

Amber Rd Bridge #226

Antwerp Rd Bridge #15

Bass Road: Scott Rd to Hadley Rd - Phase 3B & 3C

Bluffton Rd Bridge #257

Bluffton Rd Bridge #358

Carroll Road: e/o Bethel Rd to Millstone Dr; Lima Rd/SR3 to

Coral Springs Dr/Shearwater Run

Clinton Street: Auburn Rd to Mayhew Rd

Goeglein Rd Bridge #113

Grabill Rd Bridge over St Joe River

Kell Rd Bridge #46

Monroeville Rd Bridge #277

Slusher Rd Bridge #141

South County Line Rd Bridge #271

UPWP - HSIP Funds

Phase Imp

RW

RW

CN/CE

RW

UT

CN/ CE

PE

RW

RW

RW RW

RW CN/CE

PE

Improvement Type

Bridge Replacement

Bridge Replacement

Road Reconstruction

Bridge Replacement

Bridge Deck Reconstruction

Road Reconstruction

Added Travel Lanes

Bridge Replacement

Reconstruction w/bike-ped facilities

Bridge Deck Overlay and Widening

Bridge Replacement

Bridge Replacement

Bridge Rehabilitation or Repair

Work Program Activities

FY 2024 TIP Federally and Locally Funded Projects

Project

Amstutz Road: Hosler Rd to Leo Rd/SR 1

Bluffton Rd Bridge #257

Bluffton Rd Bridge #358

Carroll Road at Coral Springs Dr/Shearwater Run

Clinton Street: Auburn Rd to Mayhew Rd

Fogwell Parkway

Hathaway Road: Lima Rd to Hand Rd

Hillegas Road: State Blvd to Coliseum Blvd

Monroeville Rd at Wayne Trace

Monroeville Rd Bridge #277

UPWP - HSIP Funds

South County Line Rd Bridge #271

UPWP - HSIP Funds

Phase

CN/CE

CN/CE

UT

RW

PE CN/CE

C1 1/ C

RW

RW

RW

CN/CE

PE

CN/CE

PE

Improvement Type

Road Reconstruction

Bridge Replacement

Bridge Deck Reconstruction

Roundabout

Added Travel Lanes

Road Reconstruction

Road Reconstruction

Added Travel Lanes

Roundabout

Added Travel Lanes

Work Program Activities

Bridge Rehabilitation or Repair

Work Program Activities

*The following are Locally Funded Projects only.

FY 2021 - 2024 TIP Locally Funded Projects

Project	Phase	Improvement Type
Coldwater Rd: Dupont Rd to Union Chapel Rd	CN	Widening, Sidewalks
Covington Rd Trail: Hadley Rd to Getz Rd, north side of road	CN	Trail
Diebold Road: N Clinton St to Berger Auto - Phase II	CN	Reconstruction, Sidewalk & Trail
Goshen Avenue: Cambridge Blvd to Butler/Harris - Phase II	CN	Reconstruction, Sidewalks
Goshen Avenue: Butler/Harris to Coliseum - Phase III	CN	Reconstruction, Sidewalks
Hanna St: MPettit Ave to Decatur Rd, west side of road	CN	Trail
Leesburg Road: Main St to W Jefferson Blvd	CN	New Road, Sidewalk, Trail
Liberty Mills Rd: Middle Grove to Falls Dr, north side of road	CN	Trail
Ludwig Rd: Brotherhood Way to Coldwater Rd	CN	Road Relocation
Maysville Rd: Stellhorn Rd to Maysville Circle, east side road	CN	Trail
Main Street (New Haven) Bridge #601	CN	Bridge Rehabilitation
Pufferbelly: Washington Center Rd to Ice Way	CN	Trail
Summit Park Trail, Phase 1-D: Ludwig Rd to Fishing Line,	CN	Trail
south side of road		1

FY 2021 Fort Wayne Public Transportation Corporation

Two (2) Heavy Duty Replacement Buses

FY 2022 Fort Wayne Public Transportation Corporation

One (1) Heavy Duty Replacement Hybrid Bus

Three (3) Replacement Minibus (Body on Chassis) ACCESS

FY 2023 Fort Wayne Public Transportation Corporation

One (1) Heavy Duty Replacement Bus

Two (2) Replacement Minibus (Body on Chassis) FLEX

FY 2024 Fort Wayne Public Transportation Corporation

One (1) Heavy Duty Replacement Bus

Two (2) Replacement Minibus (Body on Chassis) ACCESS

FY 2021 Human Services Agencies

Community Transportation Network

Operating Funds
Three (3) Medium Transit Vehicles

FY 2022 Human Services Agencies

Community Transportation Network

Operating Funds
Three (3) Medium Transit Vehicles
One (1) Large Transit Vehicle

Quarterly Review Meetings

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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 44 gives an example of a quarterly review.

Figure 44

		Sout	h Coun			Bridge # pilitation/R		ES #170	2810				
IP 2022-2026						Est	imated Cos	st		Other			
			DES#	Phase	2022	2023	2024	2025	2026	Year	Federal	Local	A/N
				PE						2019	\$166,342	\$41,586	19-1
Bridge Rehabilitation/R	onair		1702810	CN		\$1,475,211					\$1,180,169	\$295,042	21-1
bridge neriabilitation, n	Cpuii			CE		\$189,000					\$151,200	\$37,800	21-1
		ļ	\$1,872,139		\$0	\$1,664,211	\$0	\$0	\$0		\$1,497,711	\$374,428	
oject Cost			Curr		Fed	leral \$	Fede	eral \$	Differe	nce in	Loc		Loc
		Г	Cost Est Oct-			eded ct-21		ammed t-21	Fede Oct-		Nee Oct		%
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TITLE VI & ADA (Americans with Disabilities Act)

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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 non-discrimination; 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 2021 NIRCC attended the Indiana ADA and Title VI Summit for training and information. NIRCC staff also disseminated training material to all NIRCC staff members on Title VI. In addition to this, NIRCC assisted with updating the City of Woodburn's ADA Transition Plan.

In FY 2020 the bus stop inventory was updated. In FY 2021 the updated bus stop inventory information was used to begin the prioritization process of bus stop locations to be improved to meet ADA requirements.

Safety Management System

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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 2021 NIRCC obtained all crash records that occurred in Allen County during 2020. 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 locations. 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.

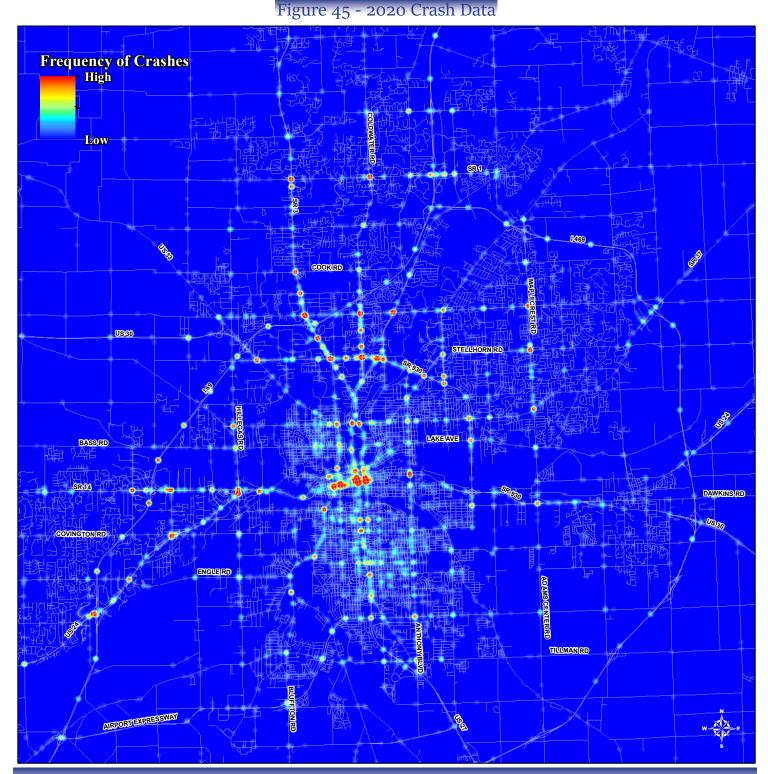
Once staff completed the "coding" process for the 2020 crash data and included it in the crash database, NIRCC combined the 2020 crash data with the 2018 and 2019 crash data to create a three year comparison. These crashes were also input into mapping software to be used with GIS (Geographical Information Systems). Figures 45, 46, and 47 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



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 46 - 2019 Crash Data Frequency of Crashes High US 30 TILLMANRD AIRPORT EXPRESSWAY

Transportation Summary Report Fiscal Year 2021

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.

Frequency of Crashes High Low AIRPORT EXPRESSWAY

Figure 47 - 2018 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;

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

Hazardous Location Identification

In Fiscal Year 2021 staff reviewed all the crash location listings created for 2018, 2019, and 2020 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 2018, 2019, and 2020. 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:

- 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 50 four hour TIM training sessions since December 2013. Through these training efforts, 1770 first responders have been trained. Of these responders at least one or more responders from 121 different agencies have been reached through this training initiative.

Congestion Management Process

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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:

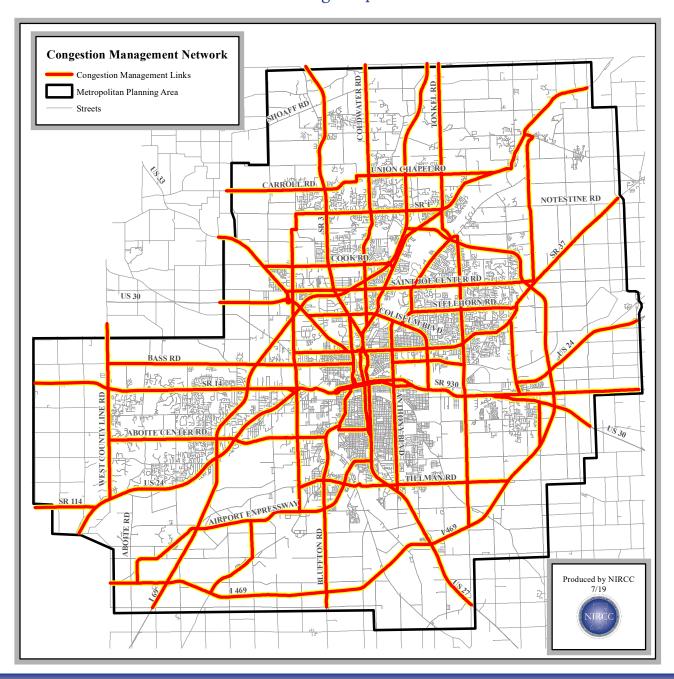
- Define CMP Network
- Establish Performance Measures
- Establish System Performance Standards
- Establish Data Collection and Monitoring Program
- Identify Roadway and Transit System Deficiencies
- Analyze and Evaluate Congestion Mitigation Strategies
- Implement Strategies
- Evaluate the Effectiveness 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 2021 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 48.

The CMP is designed to be a dynamic process. As new information on the transportation system is collected, analyzed, and reviewed, strategies are developed and evaluated for mitigating congestion. Implemented strategies are evaluated providing feedback on their success at reducing congestion. This information is documented in annual updates to the CMP report. Comprehensive reviews of the CMP takes place in conjunction with the scheduled update of the Transportation Plan.

The implementation of congestion mitigation strategies occurs within the TMA through a number of different agencies and programs. NIRCC attempts to include all projects and policies involved with congestion mitigation strategies in the transportation planning process. These projects and policies are, and will continue to be documented in the Figure 48



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 49 and 50. 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

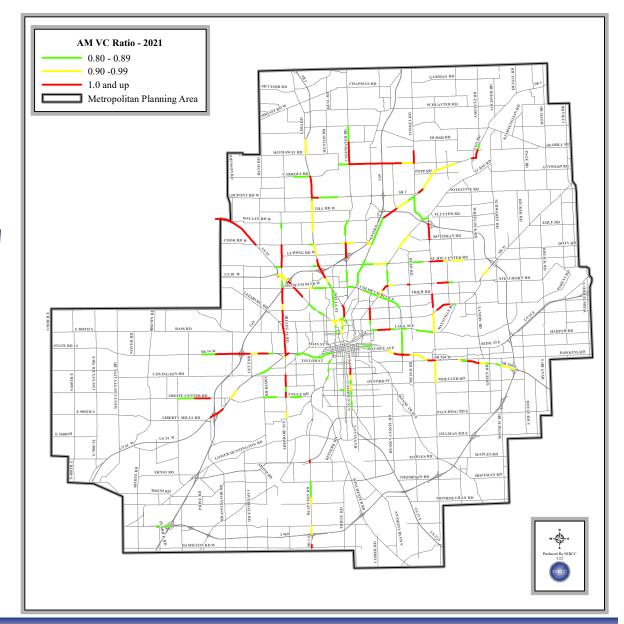


Figure 49

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 51 and 52). 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

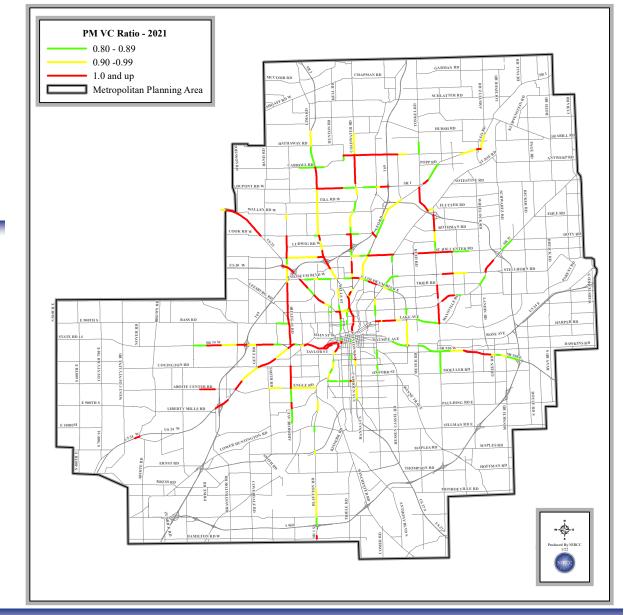
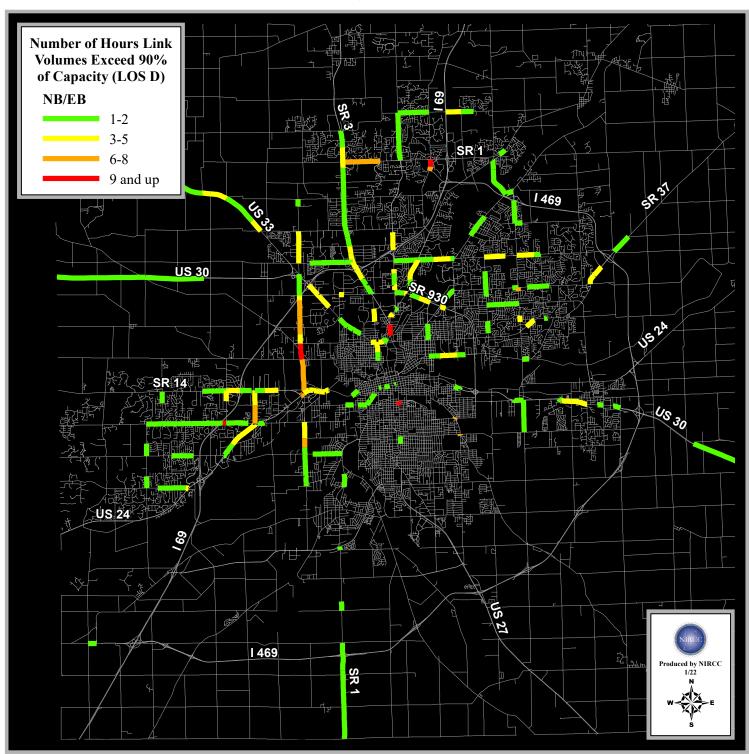
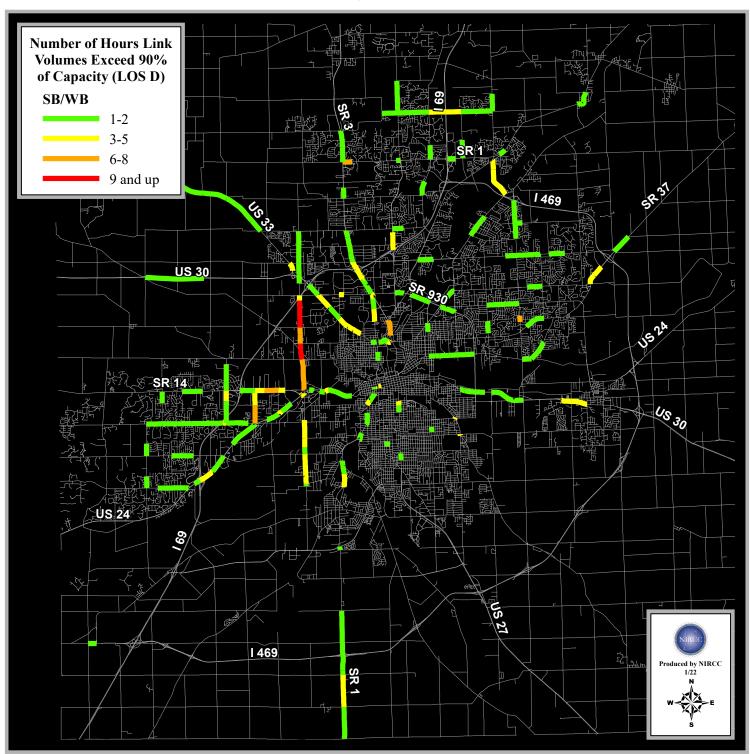


Figure 51



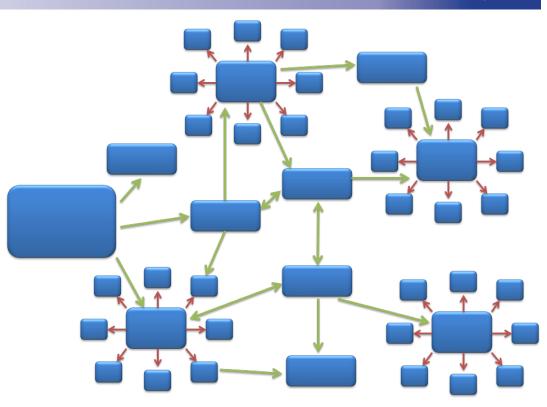
effective when systems are integrated and interoperable the USDOT developed the National ITS Architecture. When referring to architecture, it is best described as a tool that assists in organizing complex entities and relationships. It helps identify system functions and informational flows, and guides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

Figure 52



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

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. The ITS architecture will be officially updated in the next fiscal year to be included with NIRCC's next Long Rang Transportation Plan update.

Bicycle and Pedestian Planning

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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 the last 15 - 20 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 also taken 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 53). 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.

In fiscal year 2013 NIRCC spent a significant amount of time updating the bicycle and pedestrian plan as part of the Transportation Summary Report Fiscal Year 2021

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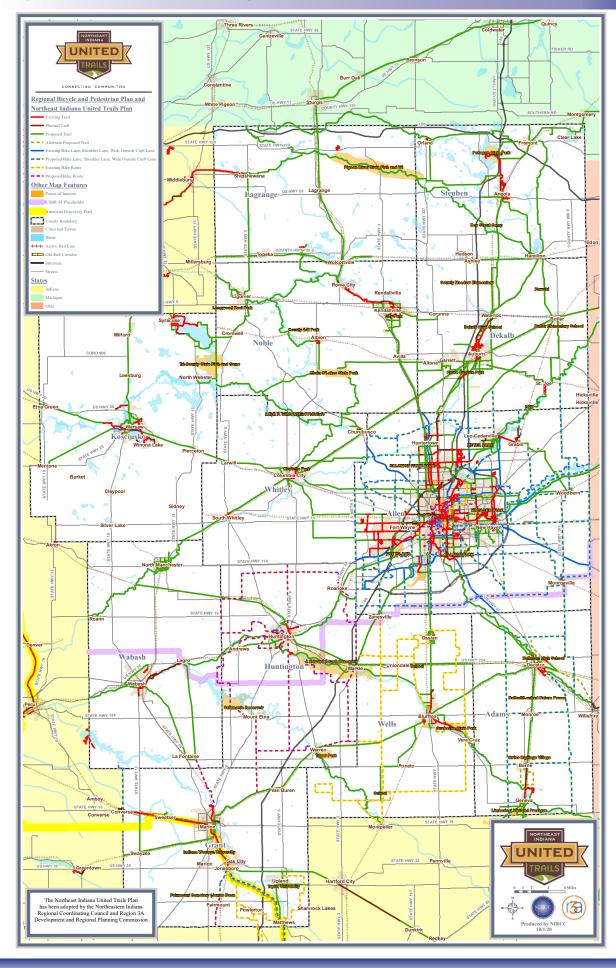
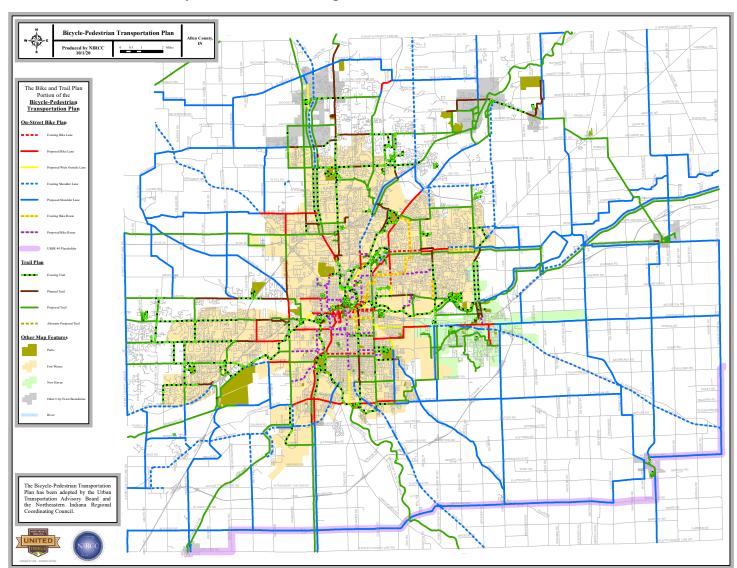


Figure 53

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 54) which includes trails and on-street bike infrastructure, a trail plan (Figure 55), and a sidewalk plan (Figure 56). 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.

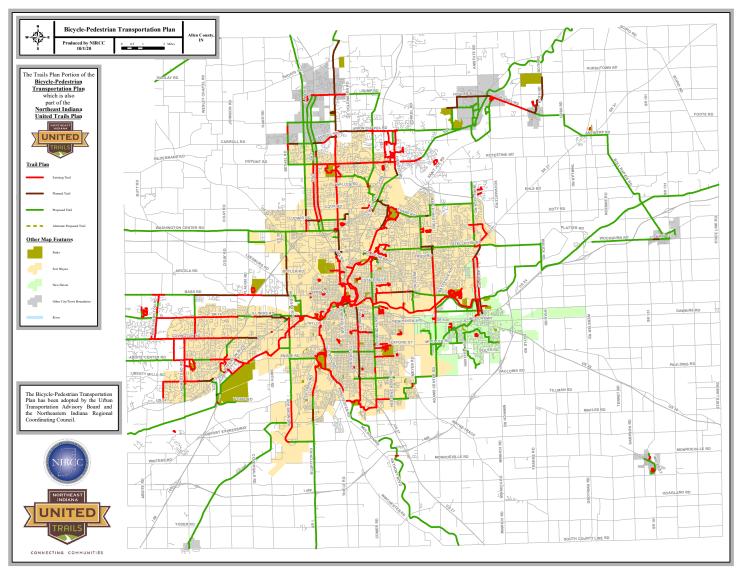
Figure 54
Bicycle-Pedestrian Transportation Plan: Bike and Trail Plan



The Bike and Trail Plan (Figure 54) 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

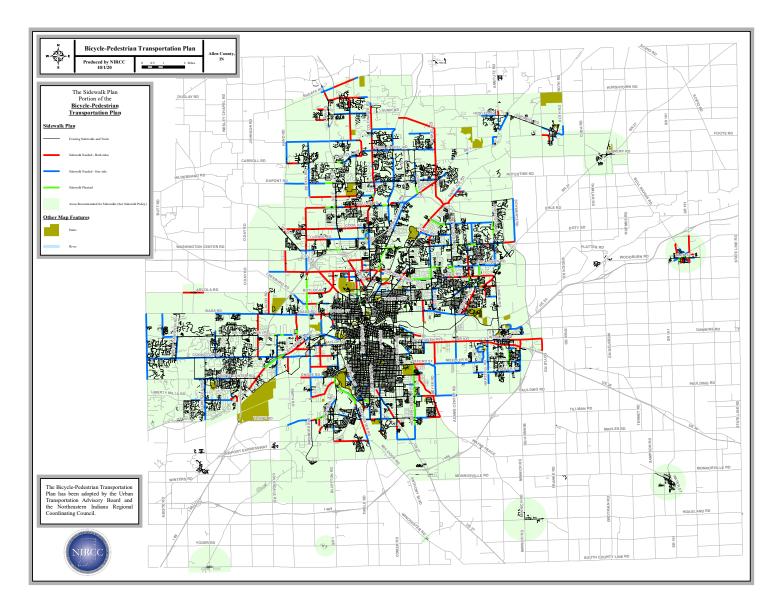
proposed and existing facilities displayed include bike lanes, widened outside curb lanes, shoulder lanes, sharrows, bike routes, and trails.

Figure 55
Bicycle-Pedestrian Transportation Plan: Trail Plan



The Trails Plan (Figure 55) 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 Northest 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 56
Bicycle-Pedestrian Transportation Plan: Sidewalk Plan



The Sidewalk Plan (Figure 56) 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 roadway 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 2021 NIRCC assisted in or worked on a number of projects. One of the new initiatives NIRCC was a part of was planning for horse trails in Allen County. NIRCC is on the board of the Three Rivers Horse Trails nonprofit organization and assists with identifying potential corridors and properties that could be utilized for horse trails in Allen County. NIRCC spent a significant amount of time this past fiscal year assisting the this organization with mapping potential horse trail routes, identifying potential properties for trailheads and potential horse trails, conducting environmental analysis for potential sites, creating conceptual designs for trailheads, producing graphics and maps for public meetings, and assisting in the ITP grant proposal. Following are maps of the proposed trail head and trails

that the horse trails group applied for.

Figure 57

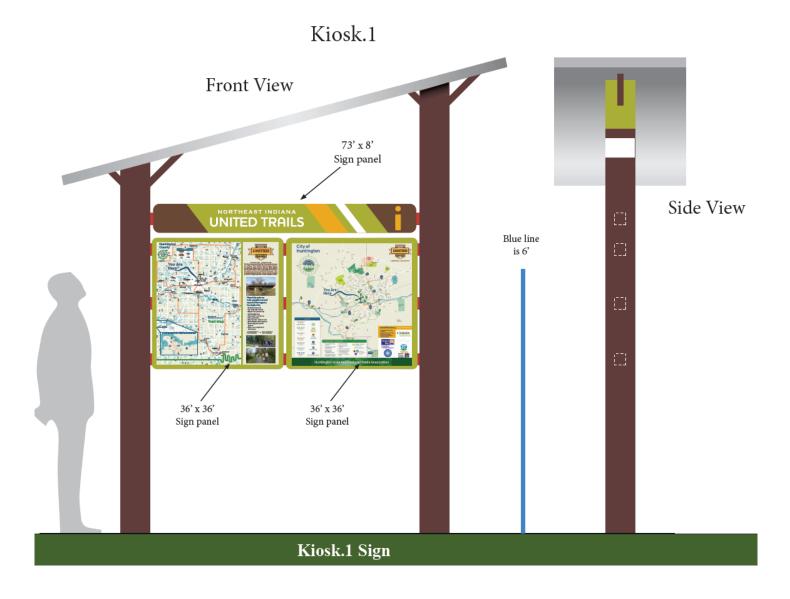


Figure 58

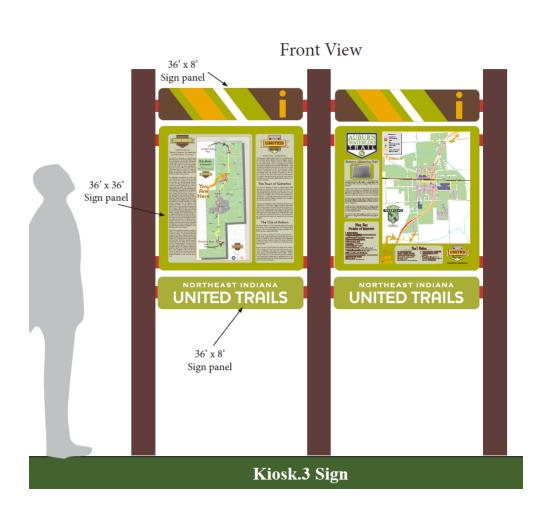


Another new initiative that NIRCC assisted with this past fiscal year was the development of the Poka-Bache Coalition. The Poka-Bache Connector is a planned 85-mile long regional trail that will connect Pokagon State Park in Angola with Ouabache State Park in Bluffton, travelling through 4 counties and 7 cities and towns. The Poka-Bache Coalition is a new group that has formed with 33-members collaborate on the future development of this State Visionary Trail. The members include representatives from all four county governments, all city and town governments, the six non-profit trail advocacy groups in the region, the Indiana Department of Natural Resources, the Indiana Department of Transportation, the Northeast Indiana Regional Coordinating Council, U.S. Senator Braun's office, representatives from community foundations and visitor bureaus, Michael Galbraith from the RDA and several state elected officials.

NIRCC continued to work on the branding and wayfinding initiative for the region. Templates were made for different sign types so signs could be produced. Design and material details were produced for a number of sign types as well. The pilot project selected to showcase the new signs for a section of the Pufferbelly Trail from Life Bridge Church to Washington Center Road was completed in June 2020. The project was then continued to complete signage along the Pufferbelly Trail from Iceway and Fernhill Ave all the way downtown to Fourth St and also included the trail spur to the Fort Wayne Children's Zoo. Other Wayfinding projects that were worked on for the United Trails system included projects in the Town of Waterloo, City of Huntington, City of Wabash, Town of Lagro, and Wabash County. Following are a few examples of the new signs that have been installed recently or will be soon.



Kiosk.3



Wabsah County

Wabsah County

Elits Hideaway
On miles

Paradies Sp Pk
On miles

Non miles

Paradies Sp Pk
Non miles

Wabsah County

Town of Lagro
4.55 miles

Worth Lagro
5.35

K Kerr Lock
5.4 miles

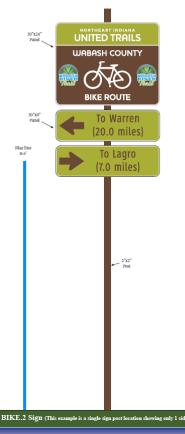
Non miles

TDIR.4 Sign - 2 sided 2x2 post (along Trail)

BIKE.2 Sign - 1 sided 2x2 post

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.

NIRCC completed an analysis of sidewalk needs within the City of Fort Wayne. Utilizing GIS NIRCC created an analysis to help prioritize existing sidewalk projects and gaps in the sidewalk network where projects are needed. NIRCC used a number of resources and weighting factors which including things like bike and ped crash data, transit service, areas where schools do not provide bus transportation, areas of high pedestrian usage, connections to the trail network, and overall lack of facilities.



Red Flag Environmental Investigations

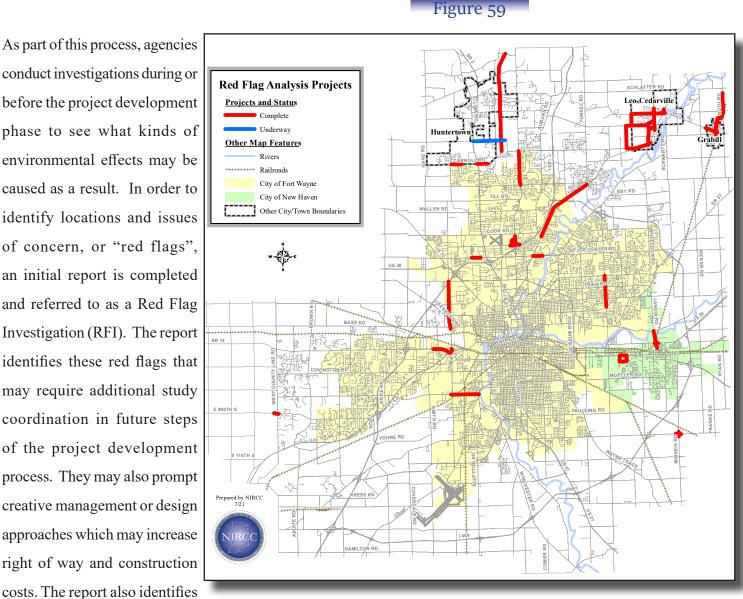
Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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.

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



any "fatal flaws" in the study area which are locations that must be avoided all together.

In FY 21 NIRCC completed work on three Red Flag Investigations (RFIs) which included completion and updates to the Clinton St RFI for the City of Fort Wayne, updates and changes to the Carroll Road RFI in Huntertown, and the initial set up for the Hathaway Rd RFI in Allen County. All RFIs, updates to RFIs, RFI summaries were completed in FY 21 except the Hathaway Rd RFI. The RFIs NIRCC has completed to date are shown in figure 59. Throughout the Fiscal Year NIRCC also commented on 12 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 60 and 61 give you examples of two maps included in the report NIRCC worked on this past fiscal year for Clinton St. Figure 60 is the map which identifies "Water Resources" near the project area and Figure 61 displays "Infrastrucure" items identified in the red flag analysis.

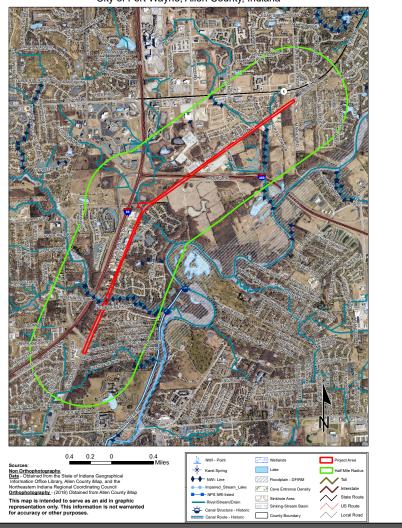
Along with the maps NIRCC also creates a table for each of the six sections. These tables show everything that is considered when conducting the red flag analysis and how many items of each are found within a half mile radius of the





Figure 60

Red Flag Investigation - Water Resources
Clinton Street
Road Widening
City of Fort Wayne, Allen County, Indiana



project. You will see an example of the "Water Resources" table and "Infrastructure" table from the Clinton St project in Figures 62 and 63. 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 62

WATER RESOURCES TABLE AND SUMMARY

Water Resources						
Indicate the number of items of o	concern found within	n the 0.5 mile search radius. Items	s in () are the			
number of items that are adjacen	t to or within the pro	oject area. If there are no items, pl	ease indicate N/A:			
NWI - Points	N/A	N/A Canal Routes - Historic N/A				
Karst Springs	N/A	NWI - Wetlands	66(9)			
Canal Structures – Historic	N/A	Lakes	15 ⁽⁰⁾			
NPS NRI Listed	N/A	Floodplain - DFIRM	27(10)			
NWI-Lines	9(1)	Cave Entrance Density	N/A			
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A			
Rivers and Streams	30 ⁽⁵⁾	Sinking-Stream Basins	N/A			
		*High Capacity Wells (Wellhead Protection Areas)	1 ⁽¹⁾			

Figure 63

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure					
Indicate the number of items of concern found within the 0.5 mile search radius. Items in () are the					
number of items that are adjacent to or within the project area. If there are no items, please indicate N/A:					
D 1' ' E '1'.	= (0)	D: 1:	2 (1)		

Religious Facilities	5 (0)	Pipelines	3 (1)
Airports ¹	0	Railroads Active	N/A
Cemeteries	2 (0)	Railroads Abandoned	N/A
Hospitals	N/A	Managed Lands	N/A
Schools	1 (1)	Trails Existing	4 ⁽¹⁾
Recreational Facilities	1 (1)	Trails Proposed/Planned	4 ⁽³⁾

¹In order to complete the required airport review, a review of public airports within 3.8 miles (20,000 feet) is required.

Transit Planning Activities

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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 2021, Transit Planning Activities completed by NIRCC staff included the facilitation of the Section 5310 Local Capital Funding. 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 2021 with awards announced in June 2021. The capital program provides 80% of the total vehicle cost, requiring a 20% local match from the applicant. In Fiscal Year 2020, approximately \$193,000 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 2021, approximately \$207,000 in Section 5310 Operational funding was awarded to the Community Transportation Network to provide additional medical transportation trips for seniors and individuals with disabilities initiating in 2021 and running through 2022.

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.

Some of the NEIWTs accomplishments include developing and printing waterproof water trail maps for the Indiana portion of the Western Lake Erie Basin in 2016; development and launch of a website which includes all things paddling in northeast Indiana (neiwatertrails.com) in 2017; facilitating the installation of a new boat access site on the St. Joseph River north of Fort Wayne with a land transfer from the Allen County Highway Department to the Indiana Department of Natural Resources in 2018; developing a water access – trailhead sign template and the installation of the first sign at Guldlin Park in Fort Wayne in 2019.

The water access – trailhead sign pilot project which began in 2019 has been a success. The NIRCC will continue to offer services to customize the trailhead signs so that local organizations can install them at water access sites they manage throughout NE Indiana. Currently, NEIWTs is working with Wells County Trails and the Wabash County Visitor Center to install public access site water trailhead signs at the following locations:

- -Wabash River from the Town of Vera Cruz to the J. Edward Roush Fish and Wildlife Area (four signs)
- -Wabash River from the Town of Lagro to the area of Richvalley (4 signs)
- -Eel River from the community of Liberty Mills to the Town of Roann (five signs)

2021 hosted the sixth annual Pedal, Paddle, Play which is the NEIWTs annual community event and fundraiser. Much of the event planning was during FY 2021 and occurred on July 17, 2021. There were 64 registered participants and 130 people attended the event. This event is a great way to encourage participants to explore NE Indiana's trails and waterways and also advertise all the water and land trails that NE Indiana has to offer. Funds raised from the event are used to implement the projects along the Wabash River in Wells County.

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 2021. The Summary Report highlights a majority of the transportation planning activities conducted and the products produced by NIRCC during Fiscal Year 2021. 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 amended Fiscal Year 2020-2024 Transportation Improvement Program (TIP) represent the improvements selected for implementation. The Fiscal Year 2020-2024 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 2021

Studies completed by the Northeastern Indiana Regional Coordinating Council

Transportation Summary Report Fiscal Year 2021

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