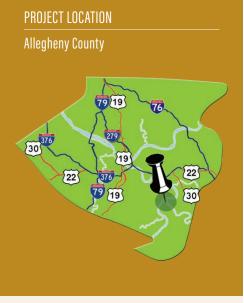


City of McKeesport Walnut Street (SINC-UP) Project Summary

REGIONAL TRAFFIC SIGNAL PROGRAM CYCLE 3



SOUTHWESTERN PENNSYLVANIA COMMISSION

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PROJECT PARTNERS

Federal Highway Administration

Pennsylvania Department of Transportation, District 11-0

Allegheny County

City of McKeesport

Whitman, Requardt & Associates, LLP

The Southwestern Pennsylvania Commission's (SPC) Regional Traffic Signal Program was established to assist local municipalities with improving traffic signal operations by optimizing signal timings and upgrading existing signal equipment. The City of McKeesport Signals In Coordination with Equipment Upgrades (SINC-UP) Project is a traffic signal project with the goal of optimizing signal operations at intersections along the Walnut St (SR 148) corridor while considering all users of the intersections [See map below for project area].

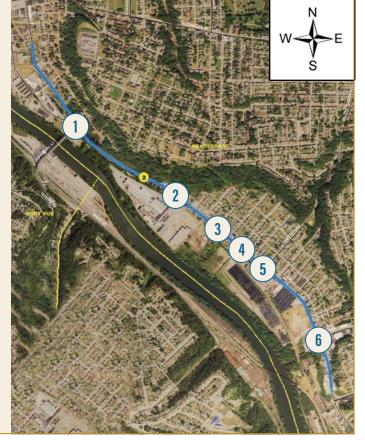
- 1 Walnut St (SR 148) & 15th St Bridge
- 2 Walnut St (SR 148) & 22nd St (Iowa Ave)
- **3** Walnut St (SR 148) & 26th St
- **4** Walnut St (SR 148) & 28th St
- 5 Walnut St (SR 148) & 30th St
- 6 Walnut St (SR 148) & Eden Park Blvd

Corridor Length: Approx. 1.40 miles

Traffic Signal Coordination:

- Improves safety because vehicles stop less often, which reduces the probability for rear-end crashes
- Benefits the environment by reducing vehicle emissions
- Reduces travel costs by reducing the amount of time stopped at red lights
- Saves money at the gas station by reducing fuel consumption







As part of this project, many intersections received new LED pedestrian and vehicular signal heads. A couple intersections also received new cable and signal span wiring. Global Positioning Satellite antenna and receivers were installed at the intersections to allow for time-based coordination. Coordination of traffic signal is one of the most cost effective ways of improving traffic flow along a corridor.

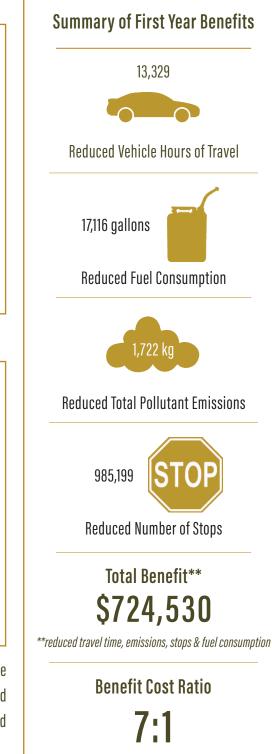
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Travel Improvements:

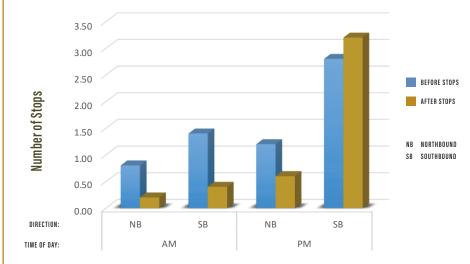
The results showed that the average travel time improved by 16%. The average number of vehicular stops decreased by 45%.



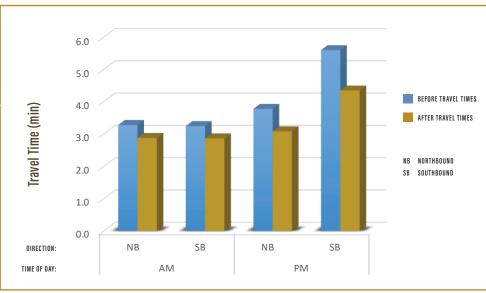
17,800 to 26,900 vehicles travel this corridor on an average day



Number of Stops*: Before and After Comparison



*Stops are from end to end travel time run on Walnut St. It does not include side street, left turns, or mid-corridor entrance.



Travel Time: Before and After Comparison

Prior to this SINC-UP Project, motorists typically experienced frustration of consecutive stopping at traffic signals due to the uncoordinated signals. This retiming project coordinated the traffic patterns through these intersections which alleviated consecutive stopping and reduced the motorist's frustration.

https://www.spcregion.org/trans_ops_traff_vids3.asp