Signal Timing Briefs

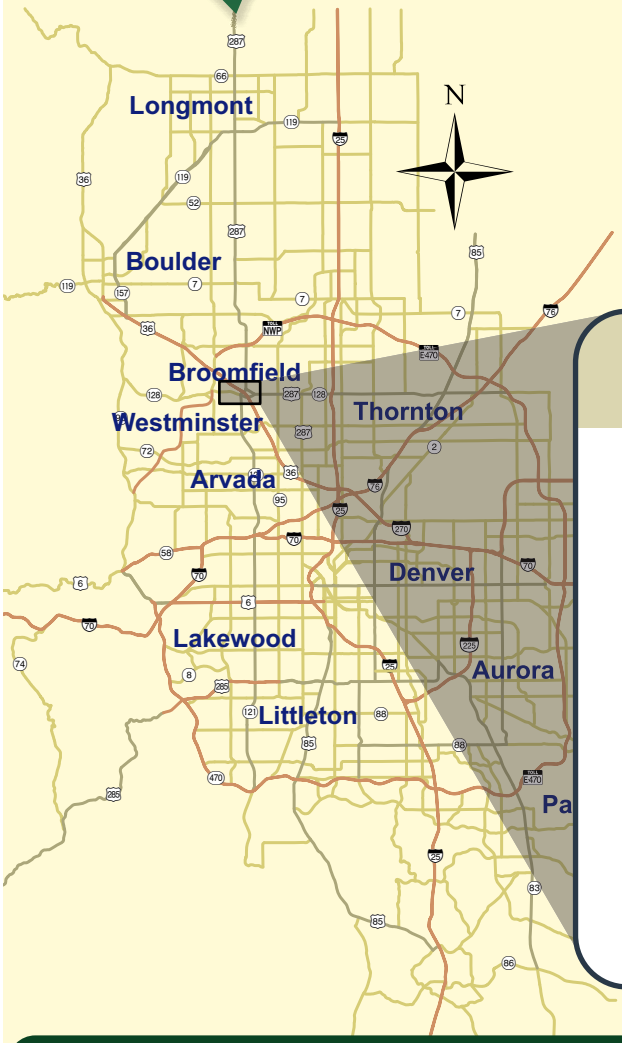
May 2015 - T15-10a

Mobility

drcog
DENVER REGIONAL COUNCIL OF GOVERNMENTS

State Highway 128: McCaslin Boulevard to Wadsworth Boulevard

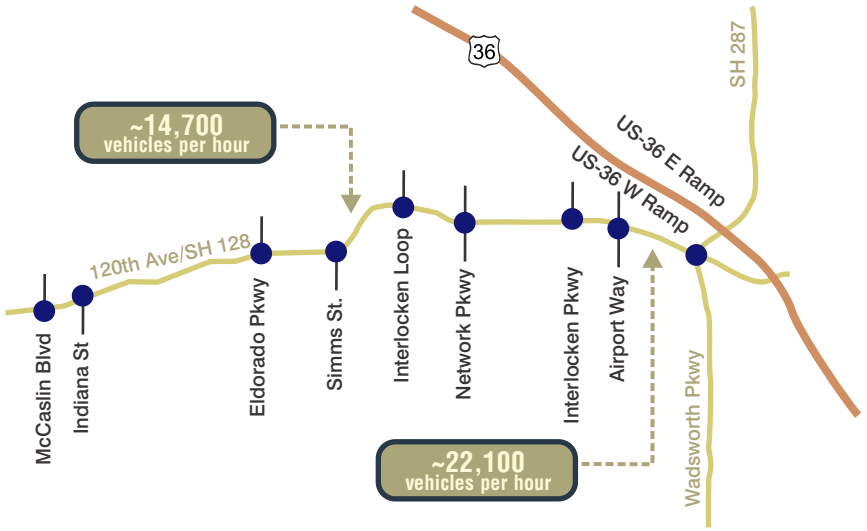
The Denver Regional Council of Governments leads multijurisdictional partnerships to achieve optimal signal timing and coordination on area roadways. Adjustments to signal timing are key to ensuring the smoothest possible flow for drivers, saving time and money. Signal timing also minimizes greenhouse gas emissions and other pollutant emissions, preserving and enhancing air quality.



Project Description

This project implemented timing and coordination plans for nine signals on SH 128. SH 128 is a Principal Arterial roadway in the Metro Vision Regional Transportation Plan in the City and County of Broomfield providing access to U.S. 36. Land use along the roadway in the project area is mostly commercial.

SH 128



Project Partner's Signals

- CDOT

Project Achievements

Performance Measures	Daily Benefits
Vehicle hours of travel	122 hours reduction
Fuel consumption	58 gallons decreased
Time and fuel costs	$2,850 savings
Total greenhouse gas emissions	1,224 pounds reduction
Total criteria pollutant emissions	13 pounds reduction

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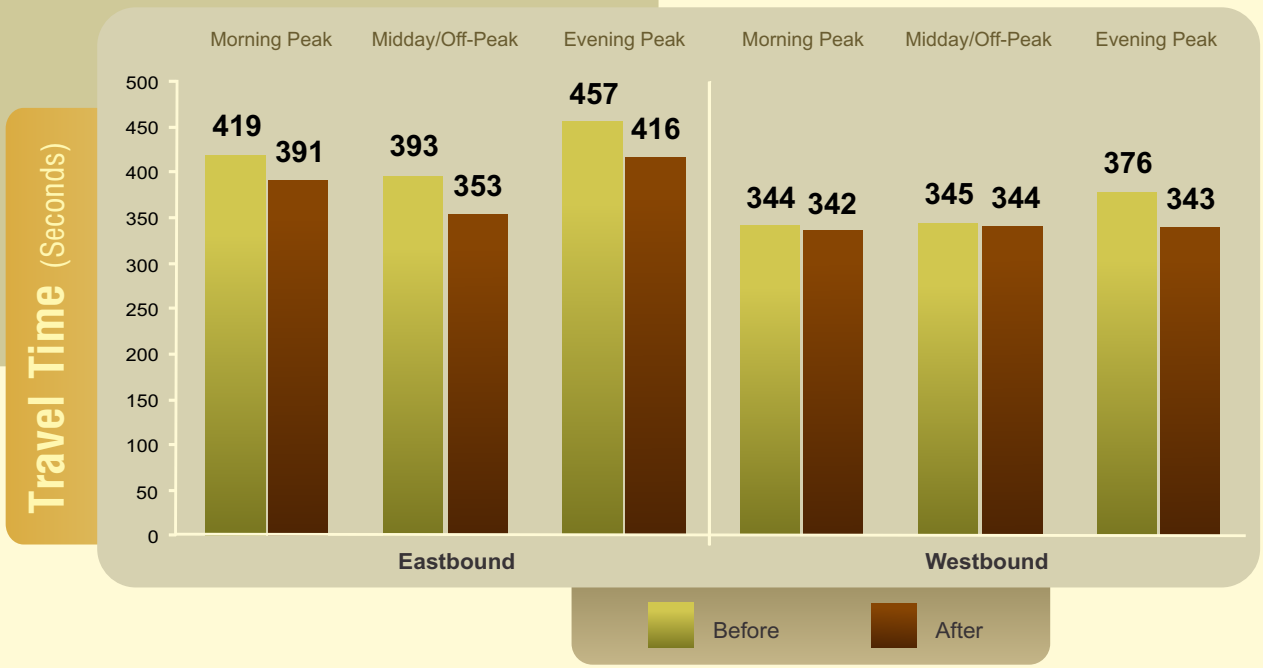
Timing Revision:

	Morning Peak		Midday/Off-Peak		Evening Peak	
	Before	After	Before	After	Before	After
Time Period	6 - 9 a.m. (No change)		9 a.m - 3 p.m. (No change)		3 - 7 p.m (No change)	
Cycle Length (seconds)	75 (No change)		75 (No change)		75 (No change)	
Other Timing Parameters	--	Revised	--	Revised	--	Revised

Travel Time Improvements (4.1 miles end-to-end)

Improvements were obtained during all periods in both directions.



Overall Improvements

The value to motorists, in terms of weekday time and fuel savings, is calculated to be approximately $2,850 daily, or about $710,000 annually.

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