

# West Colfax Avenue: Sheridan Boulevard to Osage Street



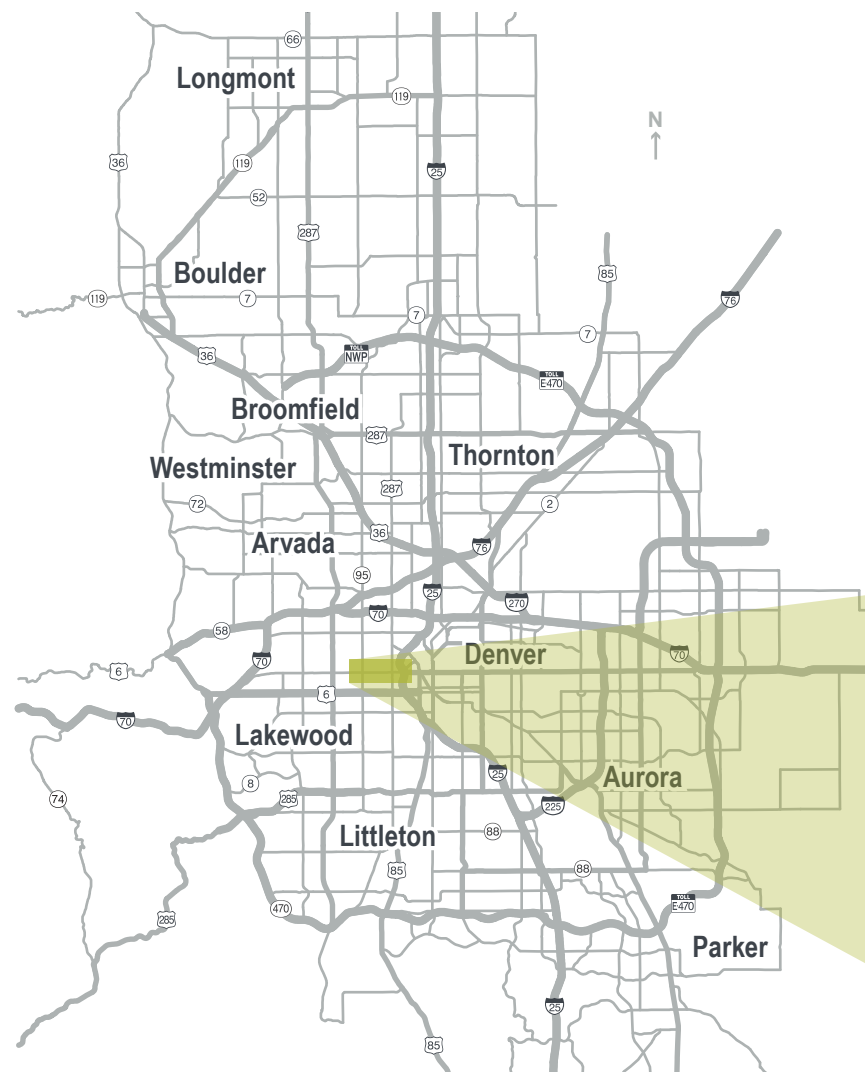
## Federal Funds for Denver

DRCOG allocated \$725,000 in federal funds for equipment upgrades within the City and County of Denver, resulting in fewer delays caused by signal or sensor malfunctions.

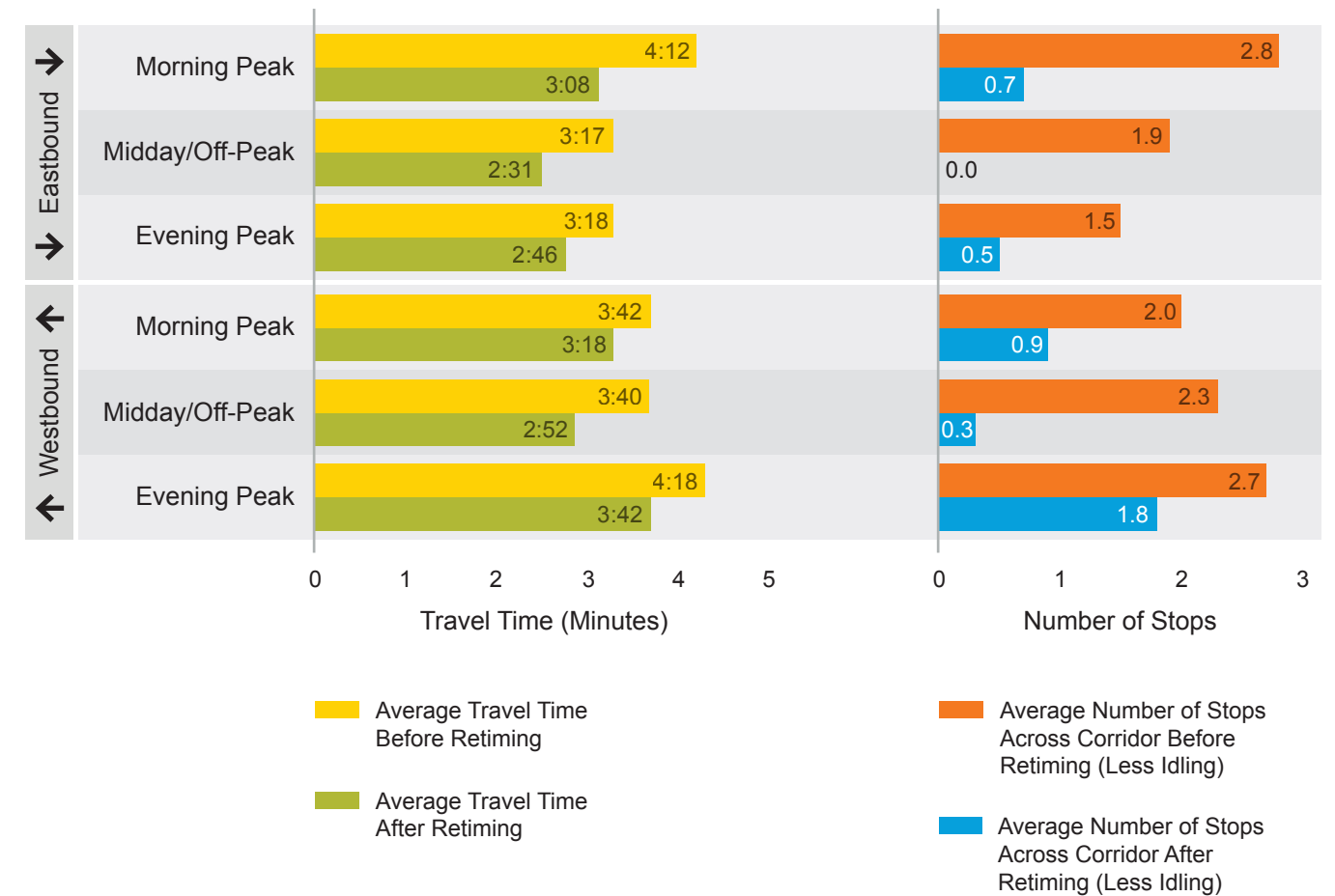
DRCOG engineering staff developed the signal timing and coordination plans in partnership with the project stakeholders.

## Project Achievements

Performance Measures	Daily Reduction
Vehicle travel time	342 hours
Fuel consumption	290 gallons
Time and fuel costs	\$8,250 savings daily (\$2.6 million annually)
Greenhouse gas emissions	5,578 pounds
Emissions of six EPA-regulated pollutants	58 pounds

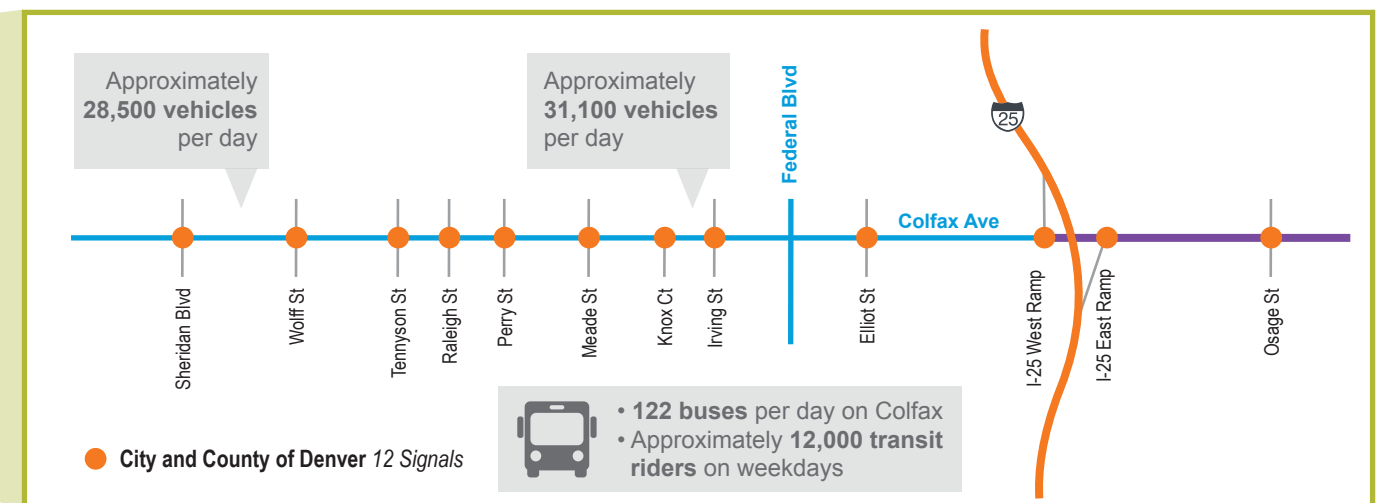


## Overall Improvements



## Project Scope

West Colfax Avenue (1.2 miles)



## Traffic Signal Coordination

Traffic signal coordination allows traffic to travel along a street without stopping at every light. A major component of any coordinated signal-timing plan is properly sized cycle length shared by each intersection along the corridor. The cycle length is the time required for one sequence of signal displays (green, yellow and red) around an intersection to be lit for each approach. DRCOG's engineers evaluate cycle lengths to strike a balance between intersection capacity and delay for all users. The cycle lengths vary by time of day to account for fluctuating numbers of vehicles, bicyclists and pedestrians.

Time of day	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
1 Colfax & Sheridan	120-second cycle												
2 Colfax & Wolff													
3 Colfax & Tennyson													
4 Colfax & Raleigh													
5 Colfax & Perry													
6 Colfax & Meade													
7 Colfax & Knox													
8 Colfax & Irving													
9 Colfax & Elliot	90-second cycle												
10 Colfax & I-25 West Ramp													
11 Colfax & I-25 East Ramp													
12 Colfax & Osage													

# SIGNAL TIMING PROJECT BRIEF

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The Denver Regional Council of Governments (DRCOG) leads multijurisdictional partnerships to achieve optimal signal timing and coordination on area roadways. Traffic signal timing adjustments provide the smoothest possible flow for cars, trucks and buses. At the same time, safety is enhanced for all users, including pedestrians and bicyclists. Signal timing optimization saves drivers time and money, minimizes greenhouse gas and pollutant emissions, and enhances air quality.

For more information about signal timing, see: [bit.ly/SignalRed](http://bit.ly/SignalRed)  
 For more information about DRCOG's traffic operations program, see: [bit.ly/TrafficOps](http://bit.ly/TrafficOps)