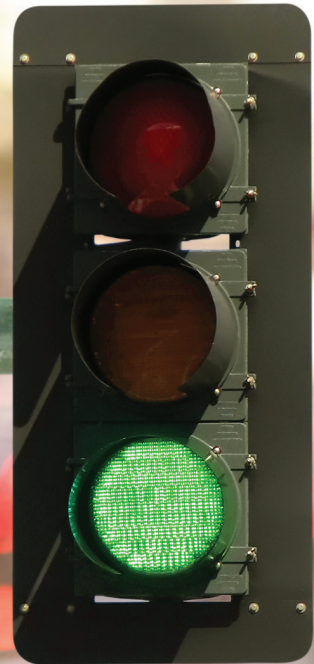


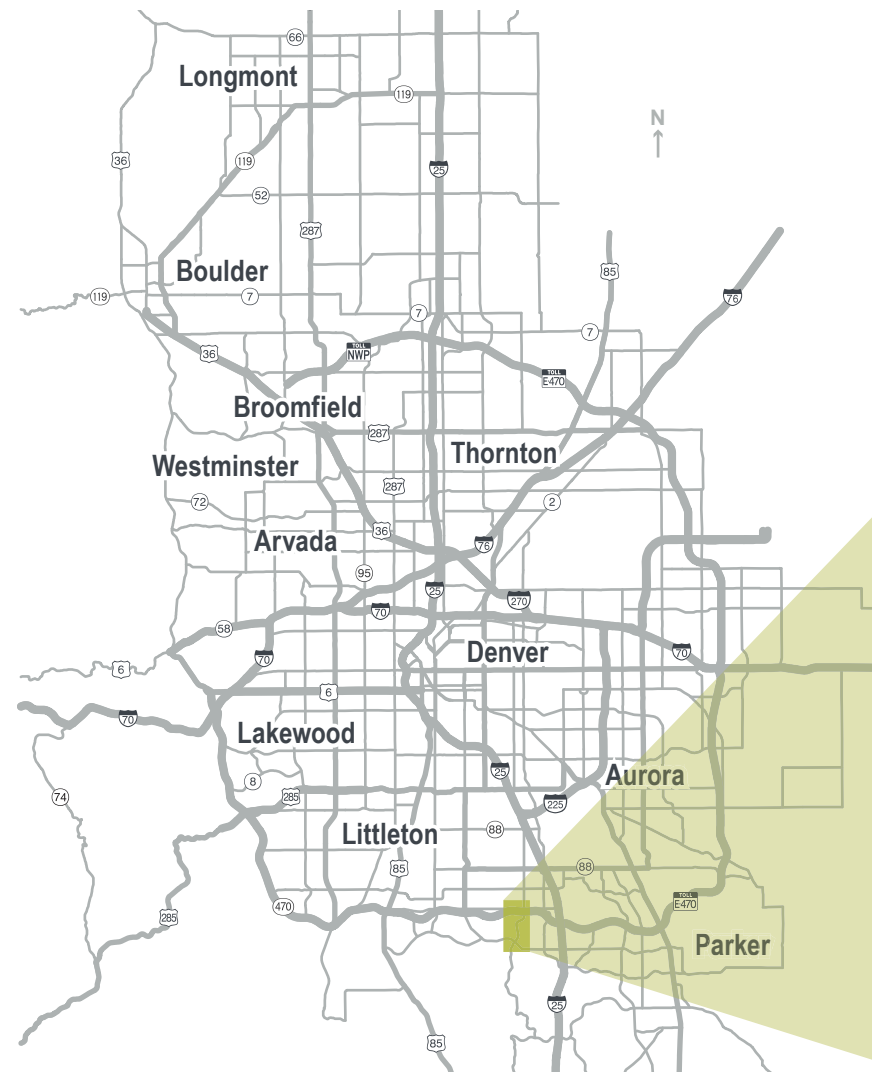
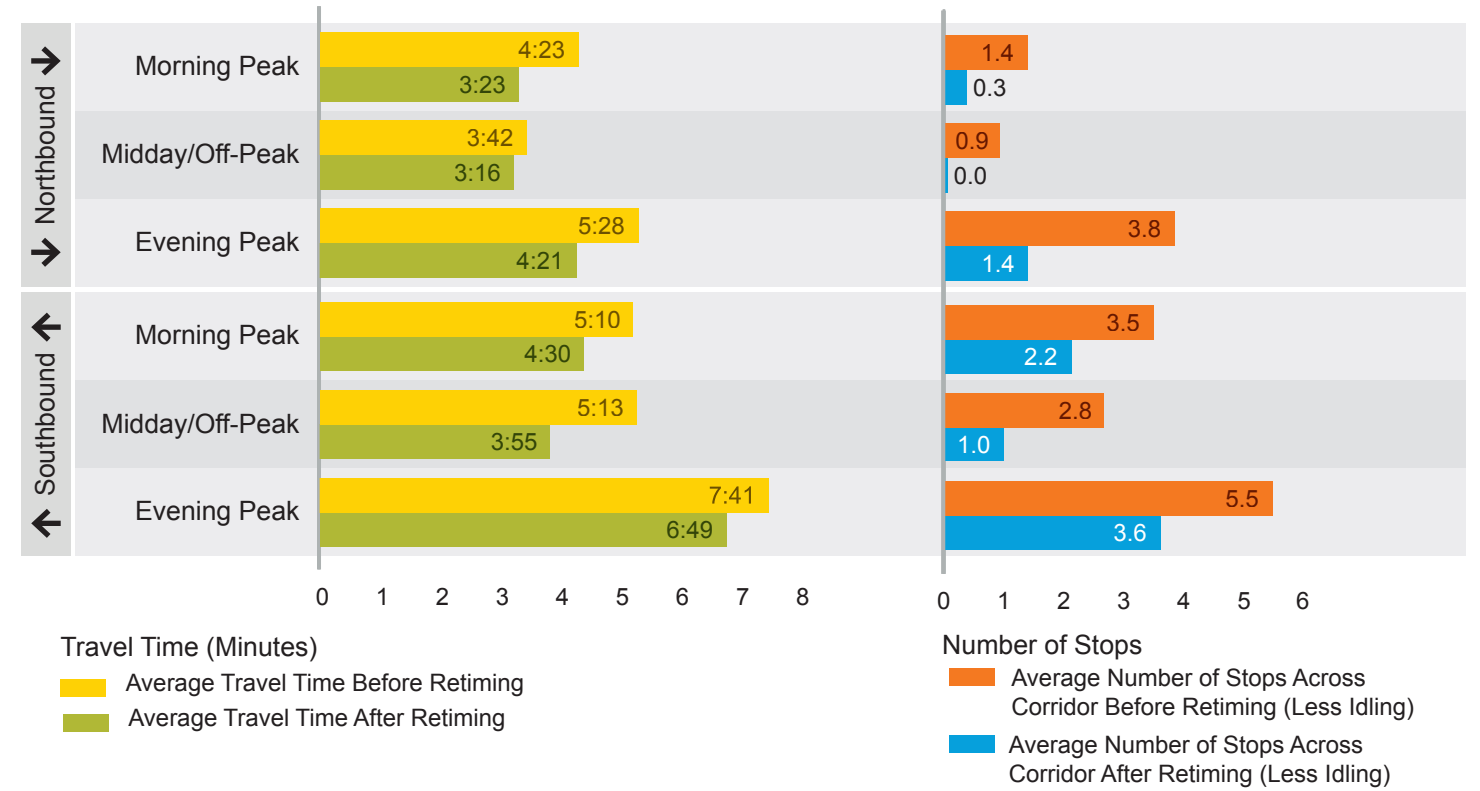
# Quebec Street: Otero Avenue/Mineral Drive to University Boulevard



## Project Achievements

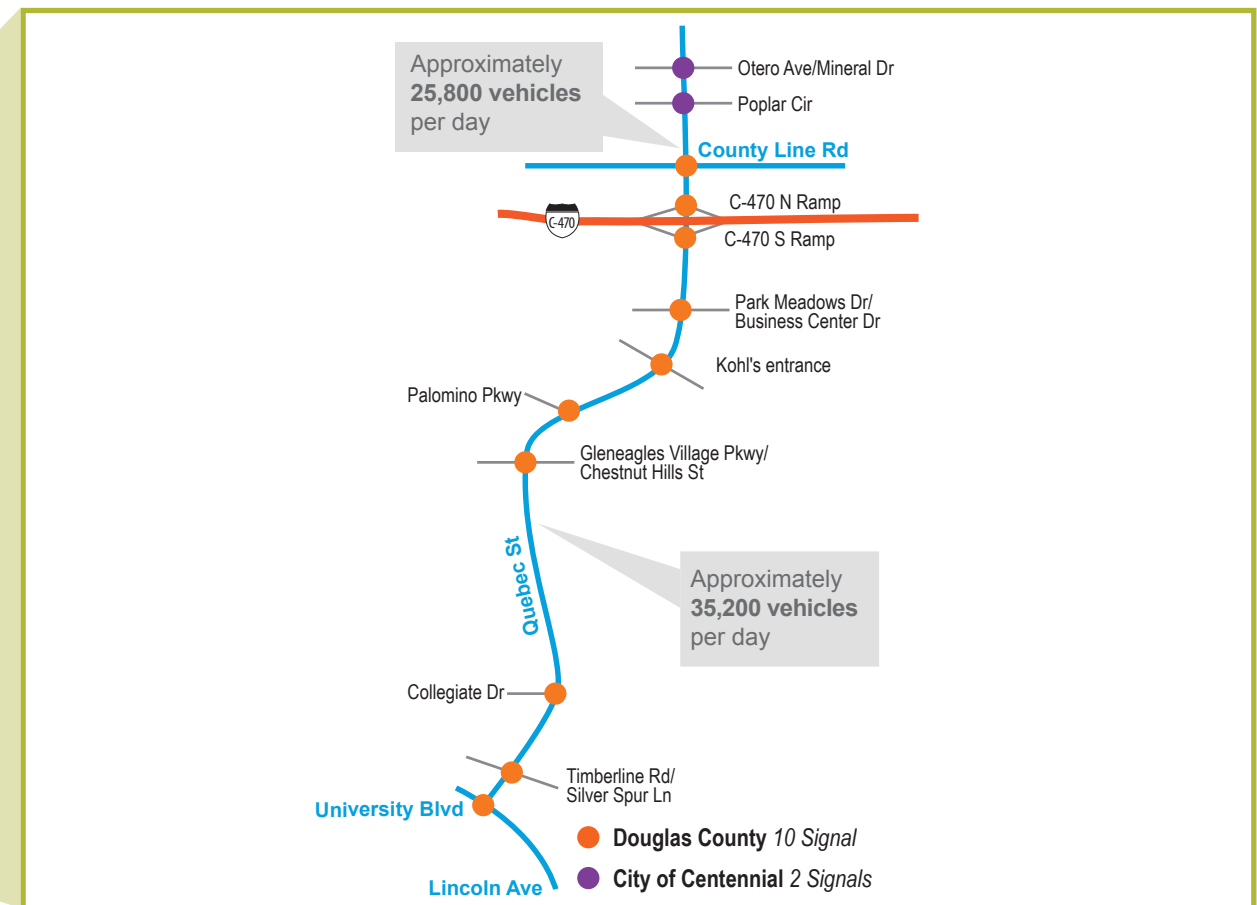
Performance Measures	Daily Reduction
Vehicle travel time	500 hours
Fuel consumption	400 gallons
Time and fuel costs	\$12,000 savings daily (\$3,000,000 annually)
Greenhouse gas emissions	7,500 pounds
Emissions of six EPA-regulated pollutants	80 pounds

## Overall Improvements



## Project Scope

Quebec Street (2.2 miles)

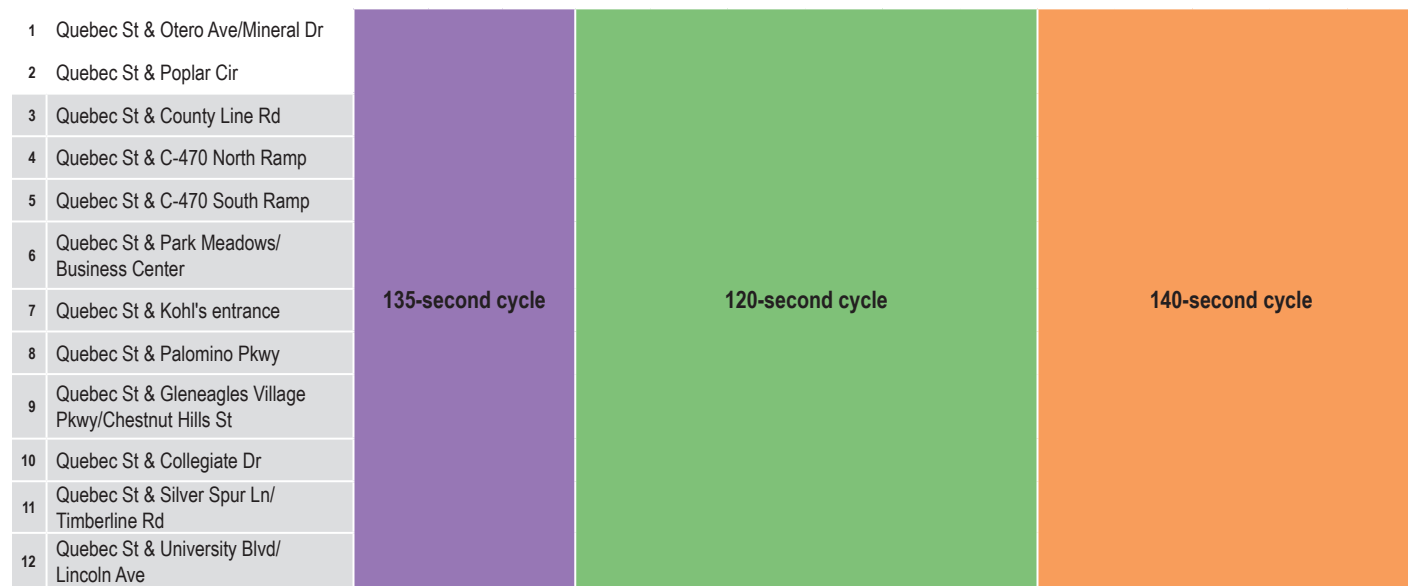


## Federal Funds for Douglas County

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

## 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.



□ City of Centennial    ■ Douglas County

# SIGNAL TIMING PROJECT BRIEF

## Quebec Street: Otero Avenue/Mineral Drive to University Boulevard

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.

April 2017 - T17-01c

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)



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