72nd Avenue: **Indiana Street to Sheridan Boulevard**

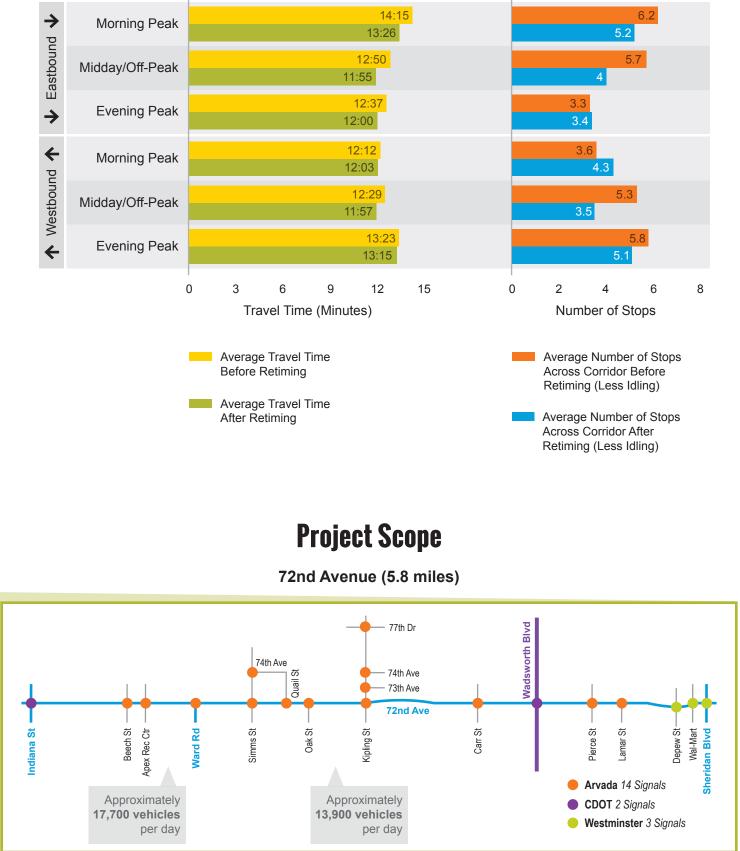
Federal Funds for Arvada

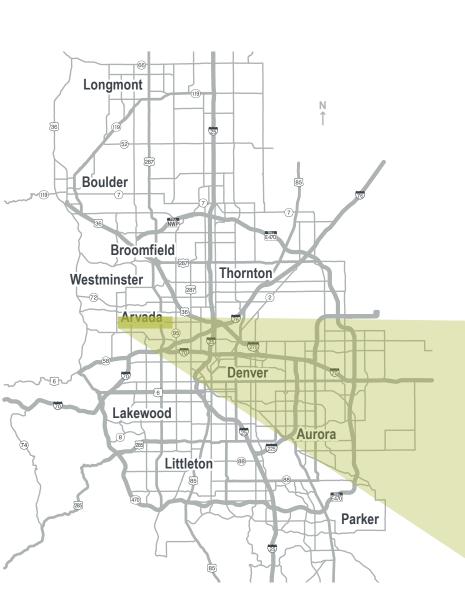
Development of the signal timing and was completed using the services of a consultant: Muller Engineering.

Project Achievements

Performance Measures	Daily Reduction		
Vehicle travel time	152 hours		
Fuel consumption	118 gallons		
S Time and fuel costs	\$3,650 savings daily (\$900,000 annually)		
Greenhouse gas emissions	2,296 pounds		
Emissions of six EPA- regulated pollutants	34 pounds		

Overall Improvements





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	06:30 07:00 08:00	09:00 10:00	11:00 12:00	13:00 14:00	0 15:00	16:00 17:00 18:00 19:00	
1	Indiana St & 72nd Ave	100-second cycle					120-second cycle	
2	Beech St & 72nd Ave		00 second surels					
3	Apex Rec Ctr & 72nd Ave						100-second cycle	
4	Ward Rd & 72nd Ave	90-second cycle						
5	Simms St & 72nd Ave							
6	Simms St & 74th Ave	45-second cycle				50-second cycle		
7	Quail St & 72nd Ave							
8	Oak St & 72nd Ave						100-second cycle	
9	Kipling St & 72nd Ave							
10	Kipling St & 73rd Ave	90-second cycle				50-second cycle		
11	Kipling St & 74th Ave					Ju-second cycle		
12	Kipling St & 77nd Dr					60-second cycle		
13	Carr St & 72nd Ave						100-second cycle	
14	Wadsworth Blvd & 72nd Ave	120-second cycle	110-second cycle		120-second cycle			
15	Pierce St & 72nd Ave							
16	Lamar St & 72nd Ave	60-second cycle	55-second cycle			60-second cycle		
17	Depew St & 72nd Ave	oo-second cycle	50-second cycle					
18	Wal-Mart Entrance & 72nd Ave	120-second cycle	100-second cycle		120-second cycle			
19	Sheridan Blvd & 72nd Ave	120-Second cycle						

City of Arvada

City of Westminster

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

CDOT



1290 Broadway, Suite 100 Denver, Colorado 80203 drcog.org

Main 303.455.1000 Fax 303.480.6790













SIGNAL TIMING **PROJECT** BRIEF

72nd Avenue: Indiana Street to **Sheridan 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.

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