Union Boulevard / Simms Street: Colfax Avenue to Alameda Avenue



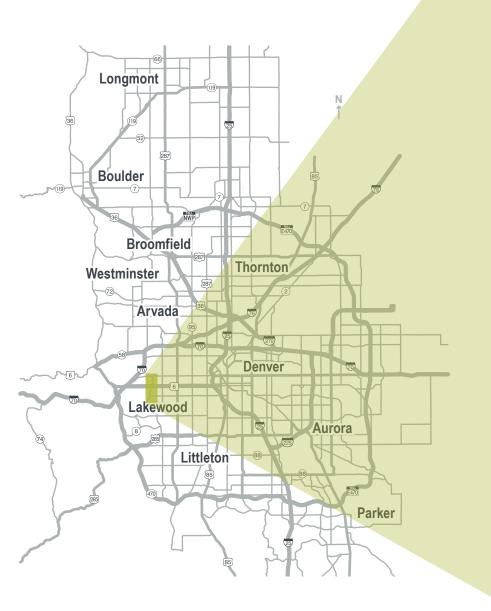
Federal Funds for Lakewood

DRCOG allocated \$19,000 in federal funds for equipment upgrades within the City of Lakewood, 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

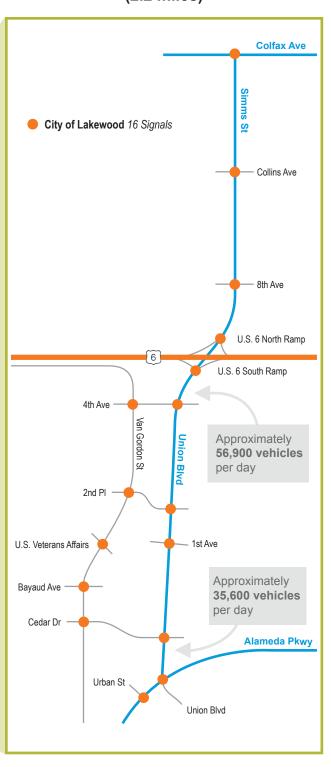
Project Achievements

Performance Measures	Daily Reduction				
Vehicle travel time	798 hours				
Fuel consumption	624 gallons				
Time and fuel costs	\$19,100 savings daily (\$4.78 million annually)				
Greenhouse gas emissions	11,981 pounds				
Emissions of six EPA-regulated pollutants	131 pounds				

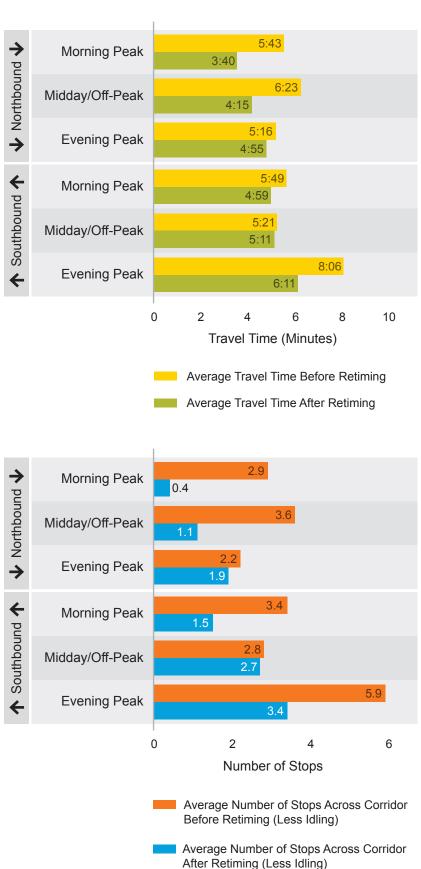


Project Scope

Union Boulevard / Simms Street (2.2 miles)



Overall Improvements





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 1	4:00	15:00	16:00	17:00	18:00
1	Simms St & Colfax										
2	Simms & Collins Ave										
3	Simms & 8th Ave										
4	Simms & U.S. 6 North Ramp										
5	Simms/Union & U.S. 6 South Ramp										
6	Union & 4th Ave	150-second cycle	110-second cyc	:le	120-sec	cond cycle	cycle	1	50-secor	ond cycle	
7	Union & 2nd Ave										
8	Union & 1st Ave										
9	Union & Cedar Ave										
10	Alameda & Union Ave										
11	Alameda & Urban St										
12	Van Gordon & 4th Ave	75-second cycle	55-second cyc	le	60-sec	ond cycle					
13	Van Gordon & 2nd Pl		110-second cyc	le	120-sec	cond cycle)				
14	Van Gordon & U.S. Veterans Affairs			le 60-second cycle		75-second cycle					
15	Van Gordon & Bayaud Ave		55-second cyc		60-sec	60-second cycle					
16	Van Gordon & Cedar Dr										

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

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SIGNAL TIMING PROJECT BRIEF

Union Boulevard /
Simms Street:
Colfax Avenue to
Alameda Avenue

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.