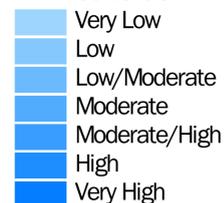


Carbon Monoxide Emission Modeling by Intersection EXISTING CONDITIONS

The City of Yakima is a Non-attainment Area for Carbon Monoxide (CO) pursuant to the Federal Clean Air Act. Existing traffic characteristics and roadway geometrics were modeled with SYNCHRO 4.0 to generate vehicle CO emissions by intersection during the PM Peak Hour of traffic using fuel consumption, delay and travel time. Total PM Peak hour CO emissions are currently 57.63 Kg (126.8lbs), using an estimated 824 gallons of fuel during peak hour at these 40 intersections.

● Signalized Intersections

CO Levels



PM Peak Hour Emissions in grams per hour by intersection, ranging from 358 to 3449 g/hr.

CRITICAL INTERSECTIONS

LOCATION	Delay in sec.	Existing CO (g/hr)	CO with Optimized Signals
1ST STREET & WALNUT	33.10	3449	3285
7TH AVE & YAKIMA AVE	69.80	3350	2861
8TH STREET & YAKIMA AVE	42.10	3003	2311
3RD AVE & WALNUT	25.80	2916	2348
1ST STREET & B STREET	21.40	2688	1857
1ST STREET & YAKIMA AVE	24.80	2660	2372
5TH AVE & YAKIMA	14.40	2280	2247
6TH STREET & YAKIMA AVE	14.10	2193	1788
5TH AVE & WALNUT	15.80	2034	1990
1ST STREET & LINCOLN	12.30	1877	1944
3RD AVE & YAKIMA	12.30	1830	1573
1ST STREET & A STREET	23.40	1823	788
5TH AVE & LINCOLN	35.10	1757	1367
FRONT STREET & YAKIMA AVE	13.50	1623	1004
FRONT ST & WALNUT	9.40	1581	1188
2ND STREET & YAKIMA AVE	13.8	1406	1208



1:2400

June 2nd, 2000



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