

## Signalized Intersection Operation Definitions

Level of Service	Traffic Performance
A	Free Flow/Insignificant Delays
B	Stable Operation/Minimal Delays
C	Stable Operation/Acceptable Delays
D	Approaching Unstable Operation/Tolerable Delays
E	Unstable Operation/Significant Delays
F	Forced Flow/Excessive Delays

Volume to Capacity Ratio	Traffic Performance
Less than 0.85	Under Capacity - Excessive delays are not experienced
0.85 to 0.95	Near Capacity - Higher delays may be expected
0.95 to 1.0	At Capacity - Wide range of delays expected
Greater than 1.0	Over Capacity - Excessive delays and queuing are expected due to unstable flow conditions

*Based on 2000 Highway Capacity Manual*

## 2030 Intersection Operations - PM Peak Hour

Intersection	2030 No Action			2030 Alternatives 1/2/3		
	Delay	LOS	V/C	Delay	LOS	V/C
Ocean Beach Hwy/Cowlitz Way	67.2	E	1.06	38.9	D	0.86
Main Street/Cowlitz Way	21.1	C	0.92	7.1	A	0.45
Main Street/1st Avenue	70.3	E	1.06	55.0	D	0.95

LOS = Level of Service

Delay = Average vehicle approach delay for all vehicles entering intersection

V/C = Volume to Capacity Ratio

**LEGEND**



**2030 Future Alternatives  
Performance**