

Example Level of service measures
10/22/10

The following ideas –some good, some not so good-- are intended to show how level of service might be measured. NE 85th Street was used as an example corridor in some of the measures.

1. *Travel time on a corridor* It shall take no more than ___ minutes to travel on NE 85th Street from 120th Avenue to 132nd Avenue as measured _____ (insert time period, direction, mode, etc).
2. *Peak travel time/free flow travel time over a corridor.* The ratio of peak travel time to free flow travel time on NE 85th Street from 120th Avenue to 132nd Avenue shall be no more than ____
3. *Time spent in congestion on an average day by a driver.* Divide the average distance a Kirkland resident spends on Kirkland streets by the average speed during a peak period. The level of service is met if the time is less than _____
4. *Volume/Capacity ratio of intersections.* Existing system.
5. *Completion of a set of transportation projects in a given time.* The level of service is met if the _____ (date) project list is completed by _____ (date)
6. *People carrying capacity of a corridor* Considering the throughput of vehicle lanes and how many people are in each car, bike lanes, transit seats/hour, and sidewalks, at least _____ people per hour must be able to travel past a point on NE 85th Street halfway between 120th Ave NE and 122nd Ave NE.
7. *Aggregated measures for each mode* Using the _____ (insert a calculation method for each mode), the level of service is met if _____ (insert a standard for each mode). Level of service would be met if each mode met it's standard.
8. *Operational* Level of service is met on a corridor if signal timing is less than ___ years old, Signals equipment meets an (to be defined) ITS standard, pavement condition index is greater than ____, bicycle facilities are appropriate as described in the Active Transportation Plan and there are sidewalks present throughout the corridor and there is transit service at ___ frequency for _____hours per day.
9. *Bellingham method.* Bellingham's adopted LOS standard is "**Person Trips Available by Concurrency Service Area**" based on arterial and transit capacity for motorized modes and on the degree of network completeness for pedestrian and bicycle modes.