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Annual Vehicle Trip Reduction	Annual Vehicle Miles Traveled Reduction
In Year 1	In Year 1
In Year 4	In Year 4

Show your work. Explain any assumptions used to calculate the annual reductions in vehicle trips and vehicle miles traveled. (Include justification for ridership or utilization assumptions; site examples and documentation.)

- > Your project's performance will be measured against these numbers and reported to the public, local officials and Legislators.
- > Reviewers and scorers will consider your assumptions when ranking projects. Assumptions that seem unusual need to be explained. Unsubstantiated assumptions may lead to disqualification or a lower ranking.
- > Applicants are strongly encouraged to contact WSDOT staff to review your calculations before you submit your grant application. Please allow time for this review.
- > We may contact applicants if we have questions and will need a substantive response within one business day.

Park and Ride*Vehicle Trips Reduced Annually*

$$= (\textit{utilization}) * (\textit{capacity}) * \left(2 \frac{\textit{trips}}{\textit{day}} \right) * \left(260 \frac{\textit{days}}{\textit{year}} \right)$$

Transit Service*Vehicle Trips Reduced Annually*

$$= \left((\textit{daily ridership}) * \left(260 \frac{\textit{days}}{\textit{year}} \right) \right) - \left((\textit{daily bus trips}) * \left(260 \frac{\textit{days}}{\textit{year}} \right) \right)$$

Park and Ride or Transit Service*Vehicle Miles Traveled Reduced Annually*

$$= (\textit{Vehicle Trips Reduced Annually}) * \\ (\textit{Average One Way Trip Length in Miles})$$

Example #1 - Park and Ride Expansion Project

The existing park and ride is used primarily by commuters and has reached capacity. The expansion of the lot will provide an additional 100 spaces. On average trips leaving the park and ride travel a distance of 13 miles one way. In the opening year utilization is anticipated at 50% with the lot being fully utilized by year 4.

Key Facts:

- Weekday use
- 100 spaces
- 50% initial utilization, 100% utilization in year 4

Year 1 - Annual Vehicle Trips Reduced

$$= (0.50 \text{ utilization}) * (100 \text{ spaces}) * \left(2 \frac{\text{trips}}{\text{day}} \right) * \left(260 \frac{\text{days}}{\text{year}} \right)$$

$$= 26,000 \text{ Vehicle Trips}$$

Year 4 - Annual Vehicle Trips Reduced

$$= (1.00 \text{ utilization}) * (100 \text{ spaces}) * \left(2 \frac{\text{trips}}{\text{day}} \right) * \left(260 \frac{\text{days}}{\text{year}} \right)$$

$$= 52,000 \text{ Vehicle Trips}$$

Annual Vehicle Trip Reduction:

26,000 in year 1 and 52,000 in year 4

Year 1 - Annual Vehicle Miles Traveled Reduced

$$= (26,000 \text{ Vehicle Trips Reduced}) * (13 \text{ miles})$$

$$= 338,000 \text{ Vehicle Miles Traveled}$$

Year 4 - Annual Vehicle Miles Traveled Reduced

$$= (52,000 \text{ Vehicle Trips Reduced}) * (13 \text{ miles})$$

$$= 676,000 \text{ Vehicle Miles Traveled}$$

Annual Vehicle Miles Traveled Reduced:

338,000 in year 1 and 676,000 in year 4



Example #2 – Transit Service Project

This new commuter service will provide transit along a congested corridor connecting areas where service does not currently exist. The service will provide 10 trips per weekday. Average daily ridership is estimated at 240 riders per day in year 1 and 400 riders per day in year 4. The average distance of the service is 15 miles one way.

Key Facts:

- 10 trips per weekday
- Average of 240 riders per day in year 1 and 400 riders per day in year 4
- Average 15 mile one way rider trip length

Year 1 - Annual Vehicle Trips Reduced

$$= \left((240 \text{ daily riders}) * \left(260 \frac{\text{days}}{\text{year}} \right) \right) - \left((10 \text{ daily bus trips}) * \left(260 \frac{\text{days}}{\text{year}} \right) \right)$$

$$= 59,800 \text{ Vehicle Trips}$$

Year 4 - Annual Vehicle Trips Reduced

$$= \left((400 \text{ daily riders}) * \left(260 \frac{\text{days}}{\text{year}} \right) \right) - \left((10 \text{ daily bus trips}) * \left(260 \frac{\text{days}}{\text{year}} \right) \right)$$

$$= 101,400 \text{ Vehicle Trips}$$

Annual Vehicle Trip Reduction:

59,800 in year 1 and 101,400 in year 4

Year 1 - Annual Vehicle Miles Traveled Reduced

$$= (59,800 \text{ Vehicle Trips Reduced}) * (15 \text{ miles})$$

$$= 897,000 \text{ Vehicle Miles Traveled}$$

Year 4 - Annual Vehicle Miles Traveled Reduced

$$= (101,400 \text{ Vehicle Trips Reduced}) * (15 \text{ miles})$$

$$= 1,521,000 \text{ Vehicle Miles Traveled}$$

Annual Vehicle Miles Traveled Reduced:

897,000 in year 1 and 1,521,000 in year 4