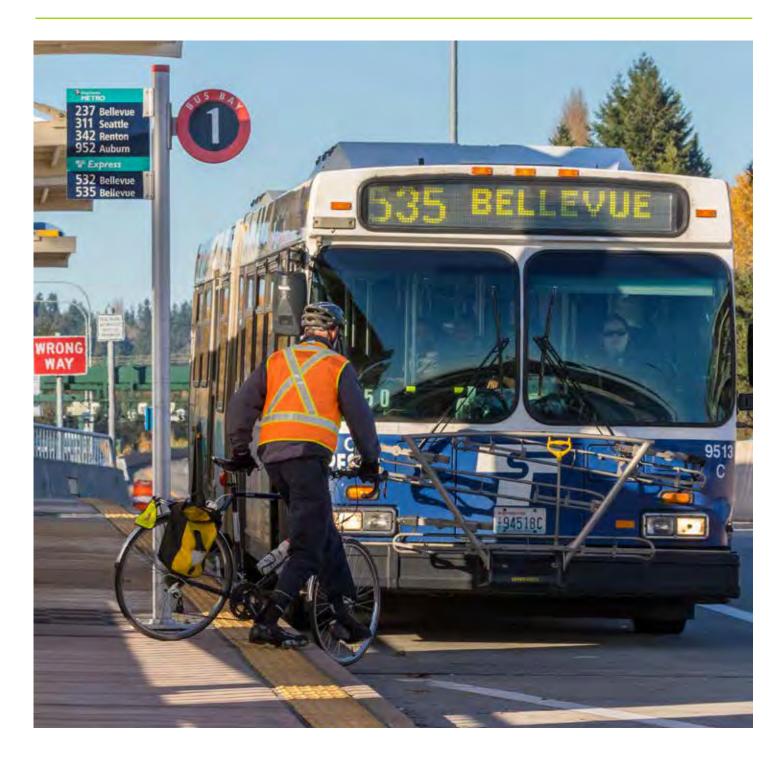


# I-405 Express Toll Lanes: 27 Months of Operations

THIS REPORT REVIEWS DATA FROM THE FIRST 27 MONTHS OF OPERATIONS (OCTOBER 2015 – DECEMBER 2017) OF THE EXPRESS TOLL LANES.



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## I-405 Express Toll Lanes 27 MONTH UPDATE: OCTOBER 2015 - DECEMBER 2017

## **Executive Summary**



## Goal 1: Provide a choice to people

- The express toll lanes provide more than 57,000 daily trips
  - 38,500 daily tolled trips, 18,500 non-tolled
- Drivers pay an average toll rate of \$3.70 during peak periods.



## Goal 2: Provide a faster, more predictable trip

• Drivers saved an average of 12 minutes using the express toll lanes during peak period corridor trips compared to the general purpose lanes.

#### Typical day on I-405



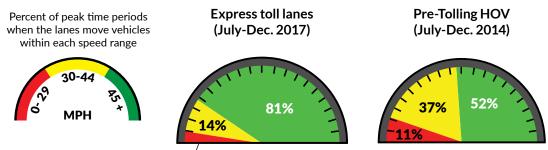
- Drivers in the general purpose lanes saved an average of 2-6 minutes compared to before tolling began, although some areas did not improve.
- On average, 8-24 percent more vehicles move through the corridor each weekday during the peak periods when compared to Fall 2014, before tolling began.
- 7,700 riders used transit routes on the express toll lanes every day, saving up to 11 minutes in daily travel time since the express toll lanes opened.

## Goal 3: Generate revenue to reinvest in the corridor

- In the first 27 months, the express toll lanes generated \$51.8 million in gross revenue. Of that, \$34.1 million is available to be used for improvements for I-405.
- \$11.5 million has already been reinvested into the corridor.

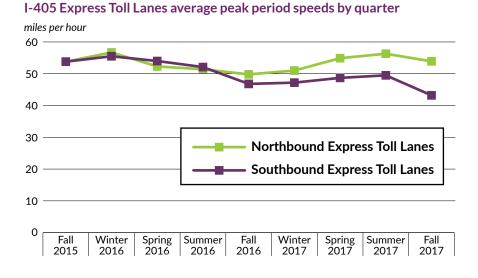
## Legislative Requirements

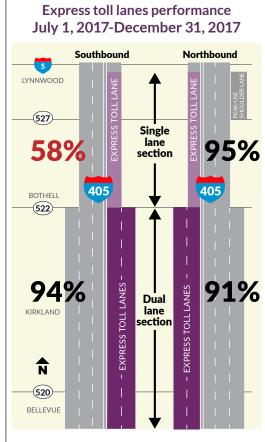
- During the fall quarter (October to December 2017), the express toll lanes generated \$7.3 million in revenue. This covered operating costs and provided \$5.3 million to be invested back into the corridor.
- Traffic moves at 45 mph 81% of the time during peak periods. The old HOV lanes met that goal only 52% of the time during peak periods from July to December 2014.
- The single lane, southbound section only moves at 45 mph 58% of the time during peak periods, while other three sections are performing above the 90% metric.



### Challenges

- The express toll lanes saw slower speeds in Fall 2017 due to a continued lack of capacity in the southbound single lane section, and other factors such as inclement weather and less daylight. This trend is evident in the chart below.
- The maximum toll rate frequency increased, which shows that more people were using the express toll lanes.
- The Puget Sound region, and the areas surrounding I-405 in particular, continue to experience rapid growth, with a new, out-of-state driver registering every 2.8 minutes.





## Background

WSDOT launched 15 miles of express toll lanes on Interstate 405 between the cities of Bellevue and Lynnwood on Sept. 27, 2015. The Puget Sound Regional Council projects that nearly 1.8 million people will move to the region in the next 50 years, with a high concentration of new population in areas served by I-405. The corridor, one of the most congested in the state, is moving a higher volume of vehicles than before tolling, yet express toll lanes are still providing a valuable option for carpools, transit and toll paying users to access faster, more predictable trips.

## Legislative Performance Measures

The legislation that authorized the construction and operation of the I-405 express toll lanes requires WSDOT to report quarterly on seven performance measures. The statute also stipulates that if the lanes fail to meet both of the standards below, they will be closed as soon as practicable. The two legislative performance measures identified by RCW 47.56.880 (5) are:

- 1. Whether the express toll lanes generated sufficient revenue to pay for all express toll lane-related operating costs.
- 2. Whether the express toll lanes maintain speeds of 45 miles per hour at least 90 percent of the time during peak periods.

## Revenue

The express toll lanes have consistently generated more revenue than is necessary to cover operations costs. In 27 months of operations, the express toll lanes generated \$51.8 million which was more than sufficient to cover the \$17.7 million cost of operating and maintaining the lanes.

The Legislature specified that revenue not used on operations and maintenance must be used to improve the corridor. WSDOT has already reinvested \$11.5 million of toll revenue into the engineering and construction of the peak-use shoulder lane on Northbound I-405 between SR 527 and I-5.

## **Speed reliability**

WSDOT is required to report to the Federal Highway Administration annually on whether the express toll lanes are moving 45 mph or faster 90 percent of the time during peak periods.

While the express toll lanes have reduced travel times and increased speeds during peak periods in the corridor, some sections have fallen short of the second legislative performance measure of keeping speeds at 45 mph or faster 90 percent of the peak period. WSDOT reports this measure in six month increments, in order to be consistent with reporting to the Federal Highway Administration. Currently, the northbound direction is meeting the requirement 93 percent of peak periods but the southbound direction only reaches the metric 69 percent of peak periods due to lack of express toll lane capacity and high demand in the single-lane section. Overall, the express toll lanes are meeting the performance target 81 percent of peak periods due to the limited capacity in the southbound single lane section and heavy demand during the morning commute.

## **Average Corridor Speeds**

The express toll lanes maintain faster speeds than the general purpose lanes during peak periods of congestion.

- From October to December 2017, the express toll lanes moved vehicles an average 15 mph faster than the general purpose lanes during the southbound morning peak period and 21 mph faster during the afternoon northbound peak period.
- Peak period speeds increased by nearly 9 mph in the northbound single lane section after the addition of the peak-use shoulder lane in April 2017.

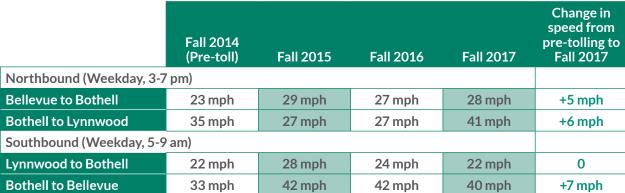
#### Average Corridor Speeds, Peak Period, October-December 2017

	General Purpose	ETLs
Bellevue to Bothell	28 mph	53 mph
Bothell to Lynnwood	41 mph	55 mph
Lynnwood to Bothell	22 mph	35 mph
Bothell to Bellevue	40 mph	56 mph

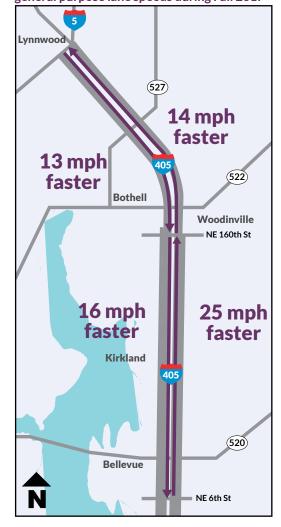
## **General Purpose Lanes**

While it is difficult to manage demand in the general purpose lanes, speeds have increased in each section since the express toll lanes opened, with the exception of the southbound single lane section. As shown in the table below, speeds in the northbound single lane section have increased by an average of 14 mph since the peak-use shoulder lane opened.

### Average speeds in general purpose lanes



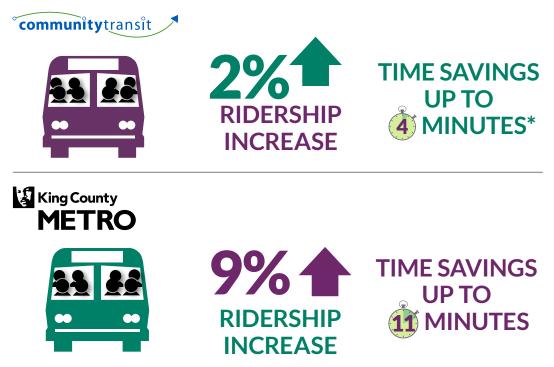
Express toll lane speeds compared to general purpose lane speeds during Fall 2017



## **Transit Travel Times**

Since the express toll lanes opened in September 2015, transit ridership has increased by an average 5 percent on I-405. During the fall 2017 quarter, an average 7,700 riders used transit routes on the express toll lanes every day. WSDOT works with regional transit agencies King County Metro and Community Transit (servicing Snohomish County) to monitor transit performance on the I-405 express toll lanes. Both Community Transit and King County Metro operate Sound Transit routes on I-405.

King County Metro travel times on I-405 between Bellevue and Lynnwood have improved by 2-11 minutes in the afternoon peak period and by 1-3 minutes in morning peak period. When comparing travel times to pre-ETL conditions, daily average travel times for Community Transit showed an improvement for the majority of routes, with the exception of the Route 424 that travels along I-405 between SR 520 and SR 522. The travel time increase was slightly over a minute. The remaining routes have travel time savings that range from zero to 4 minutes.

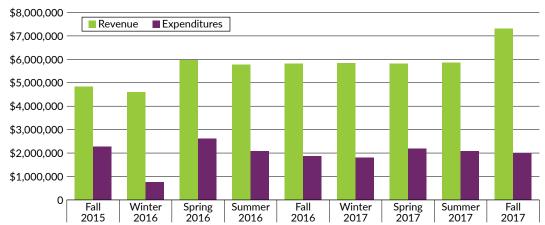


\*Route 424 that travels along I-405 between SR 520 and SR 522 is the only route to show a travel time increase, but reports travel times over a significantly shorter distance than the other routes.

## Revenue

Toll revenue is appropriated by the Legislature and monitored by the Office of Financial Management. Under existing law, I-405 express toll lane revenue must be used to cover facility operation and maintenance costs, and any additional revenue is to be reinvested back in to the corridor. An example of reinvestment in the corridor is the peak use shoulder project which opened to traffic in spring 2017. The new 1.8mile peak-use shoulder lane on northbound I-405 between SR 527 in Bothell and I-5 in Lynnwood eases congestion by providing additional capacity during the weekday afternoon peak period.

The express toll lanes generated more revenue in Fall 2017 than in previous quarters due in large part to the higher toll rates necessary to manage congestion. The average toll for all trips was \$2.42, an increase of \$0.39 from the previous quarter. Tolls reached the maximum \$10 rate more frequently in the fall quarter as well. 5.4 percent of all trips and 9.8 percent of peak period, peak direction trips reached \$10.



#### Expenditures remain steady - October 1, 2015-December 31, 2017



operations costs \$17.7M

TOLL REVENUE USED FOR PEAK-USE SHOULDER \$11.5M

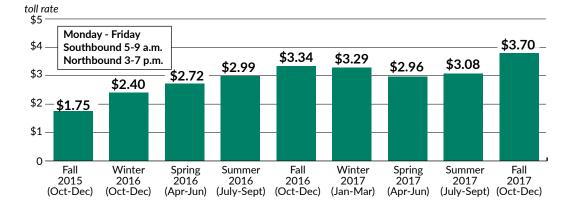
REMAINING FUNDS FOR I-405 IMPROVEMENTS

\$22.6M

## **Toll Rates**

In March 2015, the Transportation Commission approved a minimum toll rate of \$0.75 and a maximum of \$10. Toll rates are adjusted by a congestion-based tolling algorithm designed to keep the express toll lane flowing by adapting the toll rate to match the demand.

In the most recent quarter (October-December 2017), the average toll paid for all tolled trips was \$2.42. For peak period, peak direction trips, the average toll paid was \$3.70. During peak periods, 62 percent of toll transactions were for amounts below \$4, while tolls of \$8 or more accounted for 17 percent.

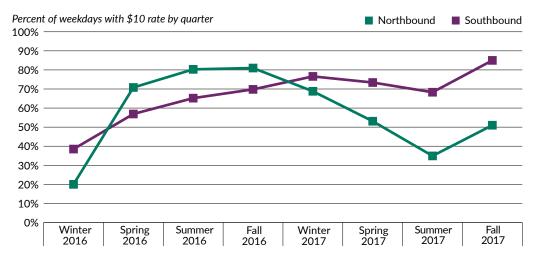




## Maximum Toll

WSDOT tracks the instances where the express toll lanes reached \$10. Since the express toll lanes began operation, the average toll rate paid during peak periods has been \$2.91. Over time, this average has fluctuated between \$1.75 and \$3.70, experiencing a rapid increase over the first year, a moderate decrease for much of the second year, and an upward trend at \$3.70 in the Fall 2017 quarter. This rate increase is mainly due to slower speeds in each section of the corridor when compared to the previous quarter. The most common toll rate paid during peak periods has consistently been \$0.75. Since the express toll lanes opened, 70 percent of all tolls paid during peak periods were below \$4, 20 percent of peak period tolls paid were between \$4 to \$8, and the remaining 10 percent of peak period tolls were for \$8 or more.

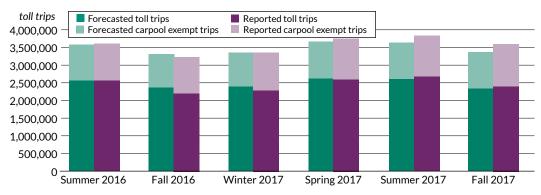
The frequency of \$10 toll rates increased in Fall 2017 for all tolled trips. 5.4 percent of all tolled trips reached the \$10 rate, while 9.8 percent of the peak period, peak direction tolled trips reached \$10. Both northbound and southbound trips saw a rise in the frequency of \$10 toll rates. Southbound peak period trips reached \$10 toll rates 15.7 percent of the time, while northbound peak period trips also increased, reaching \$10 toll rates 3.8 percent of the time. The following chart represents the percentage of days that the maximum \$10 toll rate was displayed during the peak period in each quarter. For consistency, percentages for each quarter are calculated based on the current tolling hours both before and after the hours of operation were changed in March 2016.



## Appendix

## Forecasted vs. Reported Use

The express toll lanes have performed fairly consistently with WSDOT forecasts. Express toll lane trips have steadily increased since Fall 2016. While the amount of trips dipped in the most recent quarter (October-December 2017) when compared to Summer 2017, they did exceed the forecasted number, and are higher than the previous fall numbers. Lower fall quarter numbers are not unusual when considering seasonality factors for that time.



Forecast and Reported I-405 Express Toll Lane Trips - June 1, 2016-Dec 31, 2017

## **Operations and Maintenance**

Since launching the I-405 express toll lanes, the facility has generated \$51.8 million in total revenue and only utilized \$17.7 million for operations and maintenance costs. Operations and maintenance costs include all expenditures used to administer the facility. All revenue not used to cover operations and maintenance must be reinvested into the corridor.

21% Customer service	Our customer service centers, phone line, and online support are based in Puget Sound and help an average of 15,000 people a day.
11% Toll equipment	This is the cost to operate and maintain the toll equipment, which includes dozens of high-speed infrared spectrum cameras, laser scanners, and radio frequency identification antennas to recognize vehicles.
27% Administrative costs	About 50 people work in our offices around King County to oversee statewide tolling operations.
18% Rule enforcement	About eleven percent helped pay for Washington State Patrol's trooper enforcement of the rules of the express toll lanes. Seven percent went to the Office of Administrative Hearings which hears disputes from drivers contesting unpaid tolls.
23% Credit card fees, postage, and <i>Good To Go!</i> passes	These costs are only associated with certain transactions, like buying a new pass or a Pay By Mail fee paid by drivers without a <i>Good To Go!</i> account.

### Breaking down the \$17.7 million used to cover operating expenses

## **Express Toll Lane Revenue and Expenditures**

Since the express toll lanes opened, they have generated \$51.8 million in gross revenue, a figure that includes other revenues such as *Good To Go!* pass sales, reprocessing fees and civil penalties.

After operating costs, the express toll lanes have generated a total net revenue of \$34.1 million in the first 27 months. Including a \$2 million loan from the Motor Vehicle Fund from October 2014, this brings the I-405 account balance at the end of the first quarter of FY 2018 to \$51.8 million. This loan was intended to cover operating costs prior to the opening of express toll lanes and to cover the costs of *Good To Go!* passes allocated to I-405.

The fiscal note for Engrossed House Bill No. 1382 distributed by the Office of Financial Management on March 15, 2011 estimated that total gross toll revenue for the express toll lanes fiscal year 2018 (July 1, 2017-June 30, 2018) would range from \$14 million to \$47 million under the scenario in which three-person carpools were exempt from tolls.

The actual gross toll revenue for the first 27 months was \$51.8 million, which exceeds the March 2011 estimated range.

The fiscal note was developed before the Transportation Commission adopted the I-405 express toll lanes policies. Some of the assumptions (such as the hours of operation and the maximum toll rate) in the fiscal note were different from current tolling policies. Below is a brief summary of the main assumption differences.

	<b>Fiscal Note Assumption</b>	Adopted Policy
Minimum Toll	\$1.00	\$0.75
Maximum Toll	No toll cap	\$10.00
Hours of Operation	5 a.m. to 8 p.m. 7-days a week	5 a.m. to 7 p.m., Monday through Friday <sup>3</sup>
Toll Occupancy Exemption	HOV 3+	HOV 3+ during weekday peak hours <sup>4</sup> ;
		HOV 2+ during weekday off peak hours.

Notes:

3 From Sept. 27, 2015 to March 17, 2016, I-405 express toll lanes operated 24 hours per day. Starting from March 18, 2016, tolls are waived for night-time (7 pm to 5 am), weekends, and major holidays.

4 Weekday peak hours: 5-9 am & 3-7 pm.

#### **Completed changes to I-405**

- **1** SB I-405 at NE 160th St. Added skip stripes to better define the start of second express toll lane and inside general purpose lane. (October 1, 2015)
- 2 NB I-405 at NE 6th St. Added clarifying pavement markings to eliminate driver confusion and extended existing access point. (December 18, 2015)
- **3** SB I-405 at SR 527 Lengthened access point to the north to allow drivers more time to merge into and out of the express toll lanes. (December 18, 2015; June 2, 2016)
- 4 NB I-405 at I-5 Lengthened access point to allow drivers additional time to merge to I-5. (January 22, 2016)
- 5 NB I-405 access at SR 527 Lengthened access point to allow drivers additional time to merge in and out of the express toll lanes. (January 22, 2016)
- **6** SB I-405 at NE 6th St. Added pavement markings to clarify for drivers the exit to NE 6th St and which lane continues onto I-405 southbound. (February 25, 2016)
- NB I-405 at SR 520 Lengthened access point and changed from weave lane to skip stripe to provide more open access to the express toll lanes. (March 18, 2016)
- 8 NB at NE 160th St. Added additional signage and lengthening access point to provide driver clarity and more time to merge to SR 522. (April 17, 2016)
- **9** SB SR 522 to NE 160th St. Adjusted access to address demand during morning peak commute. (April 17, 2016)
- NB I-405 between SR 527 and I-5 Added a new peak-use shoulder lane, which opens the shoulder lane as a regular travel lane during times with heaviest traffic. Construction funded with I-405 express toll lane revenue. (April 24, 2017)
- NB I-405 north of NE 195th St Added weave lane to access point for drivers to use in for transitioning to the general purpose lanes. (May 10, 2017)
- NB at NE 85th St Adjusted the access length on two occasions to provide more open access to the express toll lane (June 19, 2017)



## **Appendix A: Legislative Performance Measures**

In its 2011 authorizing legislation for the I-405 express toll lanes (RCW 47.56.880), the Legislature directed WSDOT to monitor and report on seven performance metrics on a quarterly basis.

LEGISLATIVE MONITORING REQUIREMENT	REPORT SECTION REFERENCE
a. Whether the express toll lanes maintain speeds of 45 miles per hour at least 90 percent of the time during peak periods.	Page 3. Includes percent of time the express toll lanes are moving traffic at 45 miles per hour or faster.
b. Whether the average traffic speed changed in the general purpose lanes.	Page 3. Includes average speed and travel time trends for the general purpose lanes.
c. Whether transit ridership changed.	Page 7. Includes preliminary transit ridership and travel time findings.
d. Whether the actual use of the express toll lanes is consistent with the projected use.	Page 11. Includes comparison of forecasted and reported express toll lane trips.
e. Whether the express toll lanes generated sufficient revenue to pay for all I-405 express toll lane operating costs.	Page 3. Includes preliminary revenue and expenditure results.
f. Whether travel times and volumes have increased or decreased on adjacent local streets and state highways.	This data is only reported on every 6 months. For the most recent information, please refer to the 24 month report.
g. Whether the actual gross revenues are consistent with projected gross revenues as identified in the fiscal note for EHB 1382 distributed by the office of financial management on March 15, 2011.	Page 13. Includes comparison of the preliminary revenue findings to the 2011 fiscal note.

## **Appendix B: Additional Legislative Performance Measures**

The legislature added reporting requirements during the 2016 budget process detailed in ESHB 2524 209 (7). These subsequent reporting requirements address travel times and volumes for 10 specific travel segments along the I-405 express toll lanes corridor. This appendix provides a high-level summary of the travel time data and links to electronic copies of the detailed travel time and volume data. The legislature requested average and at minimum, 90th percentile travel times. Consistent with WSDOT methodology and the requirements of the proviso, this report includes 95th percentile travel times.

## ESHB 2524 209 (7) states:

The department must provide quarterly reports to the transportation committees of the legislature on the Interstate 405 express toll lane project performance measures listed in RCW 47.56.880(4). These reports must include:

- (a) Information on the travel times and travel time reliability (at a minimum, average and 90th percentile travel times) maintained during peak and nonpeak periods in the express toll lanes and general purpose lanes for both the entire corridor and commonly made trips in the corridor including, but not limited to, northbound from Bellevue to Rose Hill, state route number 520 at NE 148th to Interstate 405 at state route number 522, Bellevue to Bothell (both NE 8th to state route number 522 and NE 8th to state route number 527), and a trip internal to the corridor (such as NE 85th to NE 160th) and similar southbound trips;
- (b) A month-to-month comparison of travel times and travel time reliability for the entire corridor and commonly made trips in the corridor as specified in (a) of this subsection since implementation of the express toll lanes and, to the extent available, a comparison to the travel times and travel time reliability prior to implementation of the express toll lanes;
- (c) Total express toll lane and total general purpose lane traffic volumes, as well as per lane traffic volumes for each type of lane (i) compared to total express toll lane and total general purpose lane traffic volumes, as well as per lane traffic volumes for each type of lane, on this segment of Interstate 405 prior to implementation of the express toll lanes and (ii) compared to total express toll lane and total general purpose lane traffic volumes, as well as per lane traffic volumes, as well as per lane total express toll lanes and (ii) compared to total express toll lane and total general purpose lane traffic volumes, as well as per lane traffic volumes for each type of lane, from month to month since implementation of the express toll lanes; and
- (d) Underlying congestion measurements, that is, speeds, that are being used to generate the summary graphs provided, to be made available in a digital file format.

The Legislature directed WSDOT to examine travel times along specific segments of the I-405 express toll lanes corridor. The following table lists these travel segments and their corresponding mileposts. A map of the express toll lanes with milepost markers is included for reference at the end of this appendix.

	Legislative Request	Provided Travel Times	Missing GP Data <sup>1</sup>	Missing ETL Data <sup>1</sup>	Notes
1	Interstate 405 Northbound Bellevue to Rose Hill	(MP 13.92) Bellevue to (MP 20.22) Rose Hill			
2	Interstate 405 Southbound Rose Hill to Bellevue	(MP 20.22) Rose Hill to (MP 13.92) Bellevue	July 2015	May, June, July 2015	
3	State Route 520 Westbound at NE 148th to Interstate 405 Northbound at State Route 522	(SR 520 MP 9.11) SR 520 @ 148th to (I-405 MP 23.51) SR 522	Sept 2015	Aug, Sept 2015	EB and WB sensor at 148th not located in same place
4	Interstate 405 Southbound at State Route 522 to State Route 520 Eastbound at NE 148th	(I-405 MP 23.51) SR 522 to (SR 520 MP 9.35) SR 520 @ 148th			EB and WB sensor at 148th not located in same place
5	Interstate 405 Northbound Bellevue to Bothell (State Route 522)	(MP 13.92) Bellevue to (MP 23.51) SR 522	Sept 2015	Aug, Sept 2015	
6	Interstate 405 Southbound Bothell (State Route 522) to Bellevue	(MP 23.51) SR 522 to (MP 13.92) Bellevue		May, June, Sept 2015	
7	Interstate 405 Northbound Bellevue to Bothell (State Route 527)	(MP 13.92) Bellevue to (MP 26.16) SR 527			
8	Interstate 405 Southbound Bothell (State Route 527) to Bellevue	(MP 26.16) SR 527 to (MP 13.92) Bellevue		May, June 2015	
9	Northbound Trip Internal to the Corridor (such as NE 85th to NE 160th)	(MP 17.99) NE 85th to (MP 24.39) Beardslee Blvd	Sept, Dec 2015	Sept, Dec 2015	Insufficient data availability @ NE 160th
10	Southbound Trip Internal to the Corridor (such as NE 85th to NE 160th)	(MP 24.39) Beardslee Blvd to (MP 17.99) NE 85th	Sept, Dec 2015	Sept, Dec 2015	Insufficient data availability @ NE 160th

<sup>1</sup> Loop data is not available in various locations due to e.g., construction activity. This has resulted in incalculable travel times for certain months.

**Note:** Monthly average and 95th percentile travel times provided for both GP and ETL lanes for the AM Peak (5AM - 9AM), Midday Period(9 AM - 3PM), and PM Peak (3PM - 7PM)

Note: The legislature requested average and 90th percentile travel times. Direction was received from OFM to report the 95th percentile.

<sup>&</sup>lt;sup>a</sup> Source: www.psrc.org/assets/14735/Trend-Population-201607.pdf <sup>4</sup> Source: www.psrc.org/assets/14876/Trend-Jobs-201609.pdf

## **Detailed General Purpose Lane Travel Time Data**

The Legislature directed WSDOT to report on travel times for northbound and southbound I-405 segments. For the segments that we've collected data for, we've seen that generally:

- Most trips have shorter travel times
- Except for trips on northbound I-405 between SR 522 and I-5 where capacity is limited as 5 lanes convert to 3 creating a bottleneck
- 95th percentile demonstrates improved reliability
- The following tables and graphs provide a summary of the travel time data. On the following pages, each set of roadway segment data is summarized and numbered to correspond to the legislative request detailed in the table on the prior page.

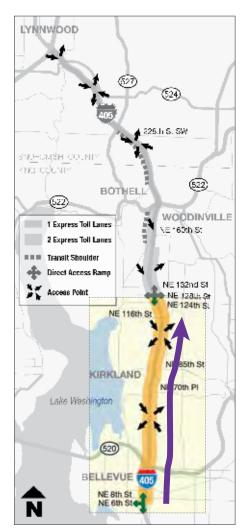
The addition of the I-405 Express Toll Lanes in September 2015 saw immediate improvement in travel times for general purpose and the Express Toll Lanes in both directions between Bellevue and Bothell.

During the first year of I-405 express toll lane operations, the northbound general purpose lanes experienced improved speed and reliability compared to the previous year for the morning, mid-day, and evening peak periods. The largest improvement in travel times on northbound I-405 occurred in the evening peak period, with the segment between SR 520 and SR 522 showing the greatest time savings. Performance continues to exceed pre-express toll lane conditions, however travel time savings are lower than the first year, particularly between October 2016 and March 2017. Evening peak period travel times from Bellevue to SR 527 trip degraded the most until the April 2017 opening of shoulder lanes, which significantly improved travel times and reliability.

Travel time performance in the southbound general purpose lanes generally mirrors the northbound pattern; the first year of operations shows broad improvements in speed and reliability, with the strongest improvements during the morning peak period. However, evening peak period performance in the southbound direction slightly degraded for the segment between Bellevue and SR 520. While performance continues to exceed pre-express toll lane conditions, the magnitude of travel time savings and reliability is less than the first year. The exception to this is southbound evening peak period performance, which generally improved compared to the first year of operations.

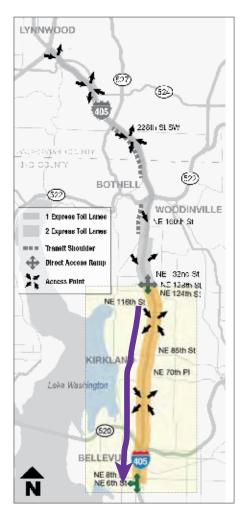
More detailed data can be found on WSDOT's website at <u>www.wsdot.wa.gov/Tolling/405/library.htm</u>.

## 1. Travel Times: Northbound I-405 from Bellevue to NE 116th (PM Peak Period)

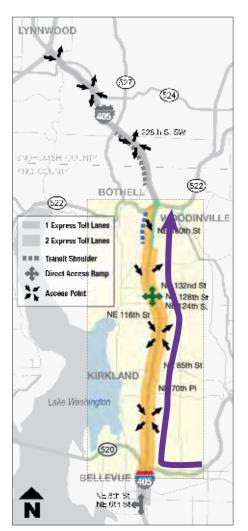


Timeframe Comparison		General Purpose Lane Travel Times in Minutes		Change in Travel Times in Minutes	
		Average	(95th Percentile)	Average	Reliable
Oct	2014	16	(26)	3 minutes	7 minutes
Uct	2015	13	(19)	faster	faster
Jan	2015	16	(23)	4 minutes	4 minutes
Jan	2016	12	(19)	faster	faster
	2015	16	(25)	4 minutes	8 minutes
May	2016	12	(17)	faster	faster
A	2015	16	(22)	3 minutes faster	5 minutes
Aug	2016	13	(17)		faster
0	2015	13	(19)	1 minute	4 minutes
Oct	2016	14	(23)	slower	slower
lan	2016	12	(19)	1 minute	3 minutes
Jan	2017	11	(16)	faster	faster
May	2016	12	(17)	Nochange	1 minute
May	2017	12	(18)	No change	slower
A	2016	13	(17)	1 minute	Nosharra
Aug	2017	12	(17)	faster	No change
Oct	2016	14	(23)	1 minute	No change
Oct	2017	15	(23)	slower	No change

#### 2. Travel Times: Southbound I-405 from NE 116th to Bellevue (AM Peak Period)

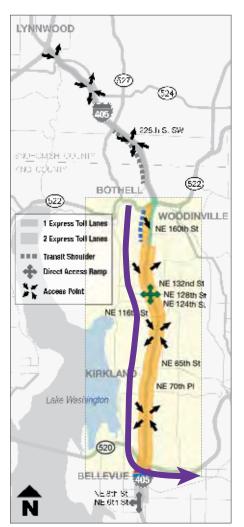


Timeframe Comparison		General Purpose Lane Travel Times in Minutes		Change in Travel Times in Minutes	
		Average	(95th Percentile)	Average	Reliable
Oct	2014	12	(14)	2 minutes	2 minutes
UCI	2015	10	(12)	faster	faster
lan	2015	11	(13)	2 minutes	1 minute
Jan	2016	9	(12)	faster	faster
Max	2015	11	(13)	2 minutes	2 minutes
May	2016	9	(11)	faster	faster
A	2015	10	(12)	1 minute faster	2 minutes
Aug	2016	9	(10)		faster
	2015	10	(12)		Nachara
Oct	2016	10	(12)	No change	No change
	2016	9	(12)		Nachara
Jan	2017	9	(12)	No change	No change
	2016	9	(11)		Nashanaa
May	2017	9	(11)	No change	No change
A	2016	9	(10)	1 minute	Nochanas
Aug	2017	8	(10)	faster	No change
Oct	2016	10	(12)	1 minute	1 minute
Oct	2017	9	(11)	faster	faster



Timeframe		General Purpose Lane Travel Times in Minutes		Change in Travel Times in Minutes	
	parison	Average	(95th Percentile)	Average	Reliable
Oct	2014	27	(43)	7 minutes	13 minutes
Uct	2015	20	(30)	faster	faster
lan	2015	26	(34)	6 minutes	4 minutes
Jan	2016	20	(30)	faster	faster
Max	2015	28	(43)	6 minutes	12 minutes
May	2016	22	(31)	faster	faster
A	2015	24	(30)	2 minutes faster	1 minute
Aug	2016	22	(29)		faster
Ort	2015	20	(30)	3 minutes	7 minutes
Oct	2016	23	(37)	slower	slower
	2016	20	(30)	1 minute	2 minutes
Jan	2017	19	(28)	faster	faster
	2016	22	(31)	3 minutes	3 minutes
May	2017	19	(28)	faster	faster
A	2016	23	(30)	4 minutes	6 minutes
Aug	2017	19	(24)	faster	faster
	2016	23	(37)		2 minutes
Oct	2017	23	(35)	No change	faster

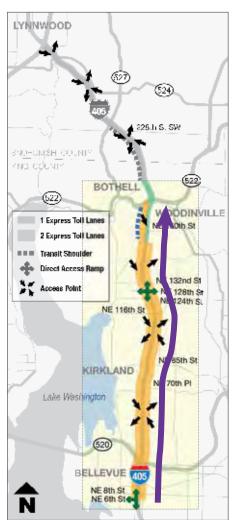
#### 3. Travel Times: Westbound SR 520 at 148th Ave NE to Northbound I-405 at SR 522 (PM Peak Period)



Timeframe		General Purpose Lane Travel Times in Minutes		Change in Travel Times in Minutes	
	eframe parison	Average	(95th Percentile)	Average	Reliable
Oct	2014	23	(28)	5 minutes	6 minutes
Oct	2015	18	(22)	faster	faster
Jan	2015	21	(25)	5 minutes	5 minutes
Jan	2016	16	(20)	faster	faster
May	2015	21	(25)	5 minutes	6 minutes
May	2016	16	(19)	faster	faster
A	2015	20	(24)	5 minutes faster	7 minutes
Aug	2016	15	(17)		faster
Oct	2015	18	(22)	No change	1 minute
Oct	2016	18	(23)		slower
l	2016	16	(20)	1 minute	1 minute
Jan	2017	17	(21)	slower	slower
Max	2016	16	(19)	1 minute	1 minute
May	2017	17	(20)	slower	slower
Aug	2016	15	(17)	Nochonce	1 minute
Aug	2017	15	(18)	No change	slower
	2016	18	(23)	1 minute	3 minutes
Oct	2017	17	(20)	faster	faster

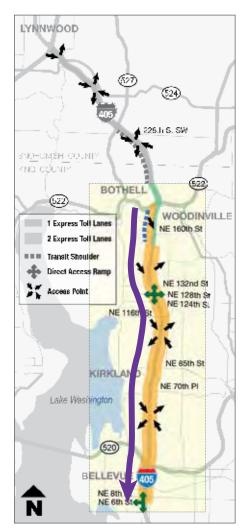
#### 4. Travel Times: Southbound I-405 at SR 522 to Eastbound SR 520 at 148th Ave NE (AM Peak Period)

#### 5. Travel Times: Northbound I-405 from Bellevue to SR 522 (PM Peak Period)



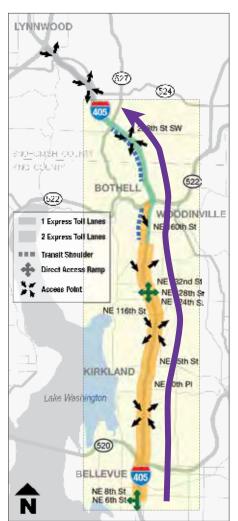
Timeframe Comparison		General Purpose Lane Travel Times in Minutes		Change in Travel Times in Minutes	
		Average	(95th Percentile)	Average	Reliable
Oct	2014	24	(35)	5 minutes	7 minutes
001	2015	19	(28)	faster	faster
Jan	2015	24	(32)	5 minutes	4 minutes
Jan	2016	19	(28)	faster	faster
Max	2015	23	(35)	3 minutes	8 minutes
May	2016	20	(27)	faster	faster
A	2015	23	(30)	3 minutes faster	3 minutes
Aug	2016	20	(27)		faster
Oct	2015	19	(28)	2 minutes	7 minutes
Uct	2016	21	(35)	slower	slower
Jan	2016	19	(28)	2 minutes	3 minutes
Jan	2017	17	(25)	faster	faster
May	2016	20	(27)	3 minutes	4 minutes
iviay	2017	17	(23)	faster	faster
A	2016	20	(27)	3 minutes	4 minutes
Aug	2017	17	(23)	faster	faster
0-1	2016	21	(35)	1 minute	5 minutes
Oct	2017	20	(30)	faster	faster

## 6. Travel Times: Southbound I-405 from SR 522 to Bellevue (AM Peak Period)



Time	eframe	Trave	Purpose Lane el Times 1inutes	Chan Travel in Miı	Times	
	parison	Average	(95th Percentile)	Average	Reliable	
Oct	2014	21	(25)	6 minutes	5 minutes	
000	2015	15	(20)	faster	faster	
lan	2015	19	(23)	5 minutes	5 minutes	
Jan	2016	14	(18)	faster	faster	
Max	2015	19	(23)	5 minutes	6 minutes	
May	2016	14	(17)	faster	faster	
A	2015	17	(21)	4 minutes	6 minutes	
Aug	2016	13	(15)	faster	faster	
Oct	2015	15	(20)	1 minute		
Oct	2016	16	(20)	slower	No change	
lan	2016	14	(18)		No. changes	
Jan	2017	14	(18)	No change	No change	
Marc	2016	14	(17)	Nosharaa	Neskara	
May	2017	14	(17)	No change	No change	
A	2016	13	(15)	Nosharaa	1 minute	
Aug	2017	13	(16)	No change	slower	
	2016	16	(20)	1 minute	2 minutes	
Oct	2017	15	(18)	faster	faster	

## 7. Travel Times: Northbound I-405 from Bellevue to SR 527 (PM Peak Period)



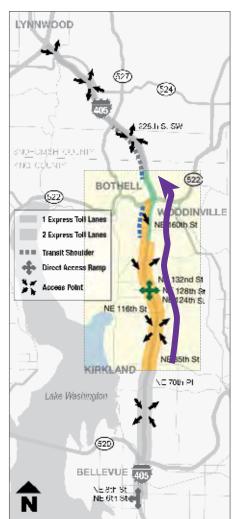
Time	eframe	Trave	Purpose Lane el Times 1inutes	Chan Travel in Miı	Times	
	parison	Average	(95th Percentile)	Average	Reliable	
Oct	2014	28	(39)	2 minutes	1 minute	
Oct	2015	26	(38)	faster	faster	
lan	2015	28	(39)	3 minutes	3 minutes	
Jan	2016	25	(36)	faster	faster	
	2015	28	(40)	2 minutes	4 minutes	
May	2016	26	(36)	faster	faster	
	2015	27	(35)	1 minute	1 minute slower	
Aug	2016	28	(36)	slower		
Oct	2015	26	(38)	2 minutes	3 minutes	
Oct	2016	28	(41)	slower	slower	
lan	2016	25	(36)	1 minute	3 minutes	
Jan	2017	24	(33)	faster	faster	
Max	2016	26	(36)	6 minutes	9 minutes	
Мау	2017	20	(27)	faster	faster	
A	2016	28	(36)	7 minutes	9 minutes	
Aug	2017	21	(27)	faster	faster	
0-4	2016	28	(43)	4 minutes	6 minutes	
Oct	2017	24	(35)	faster	6 minutes faster	

#### 8. Travel Times: Southbound I-405 from SR 527 to Bellevue (AM Peak Period)



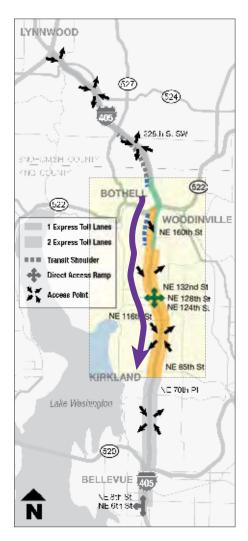
Timeframe		Trave	Purpose Lane el Times 1inutes	Chan Travel in Miı	Times	
	parison	Average	(95th Percentile)	Average	Reliable	
Oct	2014	33	(41)	9 minutes	10 minutes	
001	2015	24	(31)	faster	faster	
lan	2015	27	(36)	5 minutes	6 minutes	
Jan	2016	22	(30)	faster	faster	
	2015	28	(35)	7 minutes	9 minutes	
May	2016	21	(26)	faster	faster	
A	2015	25	(34)	4 minutes	9 minutes	
Aug	2016	21	(25)	faster	faster	
Oct	2015	24	(31)	2 minutes	3 minutes slower	
Uct	2016	26	(34)	slower		
lan	2016	22	(30)		1 minute	
Jan	2017	22	(29)	No change	faster	
May	2016	21	(26)	2 minutes	2 minutes	
Мау	2017	23	(28)	slower	slower	
Aug	2016	21	(25)	1 minute	2 minutes	
Aug	2017	22	(27)	slower	slower	
Oct	2016	26	(34)	1 minute	5 minutes	
Oct	2017	25	(29)	faster	faster	

## 9. Travel Times: Northbound I-405 from NE 85th to NE 195th (PM Peak Period)

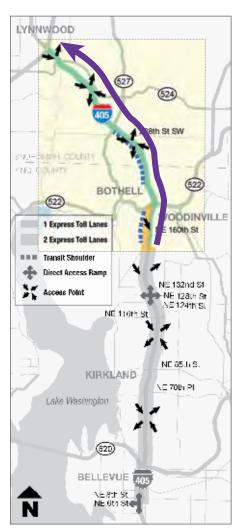


Time	eframe	Trave	Purpose Lane el Times 1inutes	Chan Travel in Miı	Times	
	parison	Average	(95th Percentile)	Average	Reliable	
Oct	2014	15	(19)	3 minutes	No change	
ULL	2015	12	(19)	faster	NO Change	
Jan	2015	15	(20)	3 minutes	2 minutes	
Jan	2016	12	(18)	faster	faster	
	2015	15	(20)	1 minute	Neshawaa	
May	2016	14	(20)	faster	No change	
A	2015	14	(18)	No shares	2 minutes	
Aug	2016	14	(20)	No change	slower	
Oct	2015	12	(19)	2 minutes	2 minutes	
Oct	2016	14	(21)	slower	slower	
	2016	11	(16)		Northanna	
Jan	2017	11	(16)	No change	No change	
Max	2016	14	(20)	5 minutes	7 minutes	
Мау	2017	9	(13)	faster	faster	
A	2016	14	(20)	4 minutes	6 minutes	
Aug	2017	10	(14)	faster	faster	
	2016	14	(21)	3 minutes	5 minutes	
Oct	2017	11	(16)	faster	faster	

#### 10. Travel Times: Southbound I-405 from NE 195th to NE 85th (AM Peak Period)

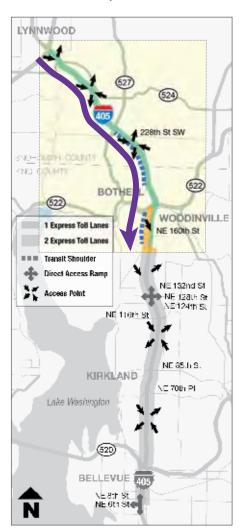


Time	eframe	Trave	Purpose Lane el Times 1inutes	Chan Travel in Miı	Times	
	parison	Average	(95th Percentile)	Average	Reliable	
Oct	2014	19	(24)	6 minutes	6 minutes	
Uct	2015	13	(18)	faster	faster	
	2015	16	(21)	5 minutes	5 minutes	
Jan	2016	11	(16)	faster	faster	
	2015	16	(20)	5 minutes	6 minutes	
May	2016	11	(14)	faster	faster	
	2015	15	(20)	4 minutes	7 minutes	
Aug	2016	11	(13)	faster	faster	
Ort	2015	13	(18)	1 minute	No change	
Oct	2016	14	(18)	slower		
Jan	2016	12	(18)	Nochonco	1 minute	
Jan	2017	12	(17)	No change	faster	
Max	2016	11	(14)	Nochanas	Nochange	
May	2017	11	(14)	No change	No change	
A	2016	11	(13)	Neekses	1 minute	
Aug	2017	11	(14)	No change	slower	
Oct	2016	14	(18)	2 minutes	3 minutes	
Oct	2017	12	(15)	faster	faster	



Time	fuence	Trave	Purpose Lane el Times linutes	Chan Travel in Mir	Times	
	eframe parison	Average	(95th Percentile)	Average	Reliable	
Oct	2014	13	(19)	3 minutes	7 minutes	
000	2015	16	(26)	slower	slower	
lan	2015	12	(20)	4 minutes	6 minutes	
Jan	2016	16	(26)	slower	slower	
	2015	13	(19)	3 minutes	7 minutes	
May	2016	16	(26)	slower	slower	
A	2015	12	(19)	5 minutes	6 minutes	
Aug	2016	17	(25)	slower	slower	
Oct	2015	16	(26)	No shance	1 minute	
Oct	2016	16	(25)	No change	faster	
lan	2016	16	(26)	1 minute	2 minutes	
Jan	2017	15	(24)	faster	faster	
	2016	16	(26)	7 minutes	.12	
Мау	2017	9	(14)	faster	minutes faster	
A	2016	17	(25)	8 minutes	11	
Aug	2017	9	(14)	faster	minutes faster	
Oct	2016	17	(25)	7 minutes	8 minutes	
Oct	2017	10	(17)	faster	faster	

#### Additional Example: Travel Times: Northbound I-405 from NE 160th St. to I-5 (PM Peak Period)



	e.	Trave	Purpose Lane el Times 1inutes	Chan Travel in Mir	Times	
	eframe parison	Average	(95th Percentile)	Average	Reliable	
Oct	2014	25	(49)	9 minutes	22 minutes	
000	2015	16	(27)	faster	faster	
Jan	2015	17	(34)	No change	1 minute	
Jan	2016	17	(35)	No change	slower	
	2015	18	(35)	2 minutes	7 minutes	
May	2016	16	(28)	faster	faster	
A	2015	16	(34)		5 minutes	
Aug	2016	16	(29)	No change	faster	
	2015	16	(27)	3 minutes	.10	
Oct	2016	19	(37)	slower	minutes slower	
	2016	17	(35)	1 minute	1 minute	
Jan	2017	16	(34)	faster	faster	
	2016	16	(28)	2 minutes	5 minutes	
May	2017	18	(33)	slower	slower	
	2016	16	(29)	1 minute	4 minutes	
Aug	2017	17	(33)	slower	slower	
	2016	16	(29)	4 minutes	7 minutes	
Oct	2017	20	(36)	slower	slower	

#### Additional Example: Travel Times: Southbound I-405 from I-5 to NE 160th St. (AM Peak Period

## **Detailed Volume Data**

- The following pages contain a summary of the requested volume data. Due to the large quantity and detail of volume data requested for each travel segment, the rest of this data will be provided on WSDOT's website at <a href="http://www.wsdot.wa.gov/Tolling/405/library.htm">www.wsdot.wa.gov/Tolling/405/library.htm</a>.
- The appendix volume data summarizes volume totals by peak hour, peak period, daily total, direction, lane and by month from October 2014 through September 2017 at four screen line locations along the corridor. During the first two years of Express Toll Lane Operations, all four locations saw average volume growth compared to the year prior to Express Toll Lane Operations. The rate of growth was higher during the peak periods in the peak direction than the daily volume rate of growth. The rate of growth was also higher at the locations between Bellevue and Bothell than between Bothell and Lynnwood. The locations between Bellevue and Bothell clearly showed greater growth during the first year of operations than the second year. However the locations between Bothell and Lynnwood displayed a mix of trends over the two years, most notably that southbound AM peak period primarily grew in the first year of operations.

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT							
				NE 100th (Dua	I-Lane Section)		
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)	Daily Total (SB)	Daily Total (NB)	
		Mainline	17,663	23,017	59,002	82,576	
	2014	HOV	4,301	4,850	10,402	10,812	
		Total	21,964	27,867	69,404	93,388	
Oct		Mainline	16,434	19,738	68,482	79,251	
	2015	ETL	7,622	8,755	16,053	14,538	
		Total	24,056	28,493	84,535	93,789	
	Total Change	(2015-2014)	2,092	626	15,131	401	
		Mainline	17,144	21,508	68,851	81,400	
	2014	HOV	3,932	4,565	12,511	11,345	
		Total	21,076	26,073	81,362	92,745	
Nov		Mainline	15,357	18,946	63,552	73,567	
	2015	ETL	7,490	8,865	16,220	14,663	
		Total	22,847	27,811	79,772	88,230	
	Total Change	(2015-2014)	1,771	1,738	-1,590	-4,515	
		Mainline	16,511	21,553	68,468	80,554	
	2014	HOV	3,507	4,504	12,859	10,968	
		Total	20,018	26,057	81,327	91,522	
Dec		Mainline	15,235	18,490	65,204	75,996	
	2015	ETL	6,576	8,452	16,502	15,581	
		Total	21,811	26,942	81,706	91,577	
	Total Change	(2015-2014)	1,793	885	379	55	
		Mainline	17,262	22,217	68,380	80,996	
	2015	HOV	3,950	4,609	11,343	10,426	
		Total	21,212	26,826	79,723	91,422	
Jan		Mainline	15,730	19,042	65,432	76,350	
	2016	ETL	8,019	9,205	17,236	15,321	
		Total	23,749	28,247	82,668	91,671	
	Total Change	(2016-2015)	2,537	1,421	2,945	249	

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT						
				NE 100th (Dua	I-Lane Section)	
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)	Daily Total (SB)	Daily Total (NB)
		Mainline	18,152	23,283	67,434	80,586
	2015	HOV	4,158	4,623	11,436	9,653
		Total	22,310	27,906	78,870	90,239
Feb		Mainline	17,038	19,918	68,765	79,759
	2016	ETL	8,617	9,869	18,133	16,026
		Total	25,655	29,787	86,898	95,785
	Total Change	e (2016-2015)	3,345	1,881	8,028	5,546
		Mainline	18,539	22,839	72,882	85,870
	2015	HOV	4,293	4,836	12,122	11,115
		Total	22,832	27,675	85,004	96,985
Mar		Mainline	17,359	20,000	69,351	79,866
	2016	ETL	9,117	10,513	20,076	18,242
		Total	26,476	30,513	89,427	98,108
	Total Change	e (2016-2015)	3,644	8,108	4,423	29,141
		Mainline	19,022	22,890	73,793	85,949
	2015	HOV	4,197	4,838	12,769	11,660
		Total	23,219	27,728	86,562	97,609
Apr		Mainline	17,505	20,568	69,840	74,820
	2016	ETL	9,100	10,896	21,405	18,570
		Total	26,605	31,464	91,245	93,390
	Total Change	e (2016-2015)	3,386	3,736	4,683	-4,219
		Mainline	18,265	22,625	72,807	85,565
	2015	HOV	4,190	4,794	13,665	11,840
		Total	22,455	27,419	86,472	97,405
May		Mainline	16,980	20,698	69,152	84,522
	2016	ETL	9,182	11,990	21,812	22,335
		Total	26,162	32,688	90,964	106,857
	Total Change	e (2016-2015)	3,707	5,269	4,492	9,452
		Mainline	19,028	23,427	74,338	88,340
	2015	HOV	4,462	4,981	14,387	12,535
		Total	23,490	28,408	88,725	100,875
Jun		Mainline	17,672	20,693	69,964	85,705
	2016	ETL	9,540	12,537	24,201	24,586
		Total	27,212	33,230	94,165	110,291
	Total Change	e (2016-2015)	3,722	4,822	5,440	9,416

AVERAGE W	EEKDAY SCREE	NLINE VOLUME	S YEAR TO YEAR	R COMPARISON	- PRE-TOLLING	TO PRESENT
				NE 100th (Dua	I-Lane Section)	
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)	Daily Total (SB)	Daily Total (NB)
		Mainline	18,697	23,398	74,231	89,503
	2015	HOV	4,257	4,897	14,735	12,653
		Total	22,954	28,295	88,966	102,156
Jul		Mainline	16,812	20,397	69,454	84,960
	2016	ETL	8,576	12,081	23,948	23,893
		Total	25,388	32,478	93,402	108,853
	Total Change	(2016-2015)	2,434	4,183	4,436	6,697
		Mainline	18,633	22,896	74,145	88,103
	2015	HOV	4,298	4,812	15,132	12,763
		Total	22,931	27,708	89,277	100,866
Aug		Mainline	17,510	20,683	70,068	85,514
	2016	ETL	9,375	12,677	25,064	24,690
		Total	26,885	33,360	95,132	110,204
	Total Change	(2016-2015)	3,954	5,652	5,855	9,338
		Mainline	17,763	23,025	71,767	85,595
	2015	HOV	3,994	4,566	11,755	10,132
		Total	21,757	27,591	83,522	95,727
Sep		Mainline	16,589	20,618	67,817	83,428
	2016	ETL	9,335	12,478	24,104	24,152
		Total	25,924	33,096	91,921	107,580
	Total Change	e (2016-2015)	4,167	5,505	8,399	11,853
		Mainline	16,434	19,738	68,482	79,251
	2015	ETL	7,622	8,755	16,053	14,538
		Total	24,056	28,493	84,535	93,789
Oct		Mainline	16,540	20,598	66,729	82,580
	2016	ETL	9,708	12,459	23,975	23,434
		Total	26,248	33,057	90,704	106,014
	Total Change	(2016-2015)	2,192	4,564	6,169	12,225
		Mainline	15,357	18,946	63,552	73567
	2015					
	2015	ETL	7,490	8,865	16,220	14663
		Total	22,847	27,811	79,772	88230
Nov		Mainline	15,916	19,888	65,746	81248
	2016	ETL	89,57	11,648	23,290	22950
		Total	24,873	31,536	89,036	104234
	Total Change	(2016-2015)	2,026	3,725	9,264	16,004

AVERAGE W	EEKDAY SCREE		S YEAR TO YEAR	R COMPARISON	- PRE-TOLLING	TO PRESENT
				NE 100th (Dua	I-Lane Section)	
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)	Daily Total (SB)	Daily Total (NB)
		Mainline	15,235	18,490	65,204	75,996
	2015	ETL	6,576	8,452	16,502	15,581
		Total	21,811	26,942	81,706	91,577
Dec		Mainline	16,210	19,588	65,620	81,107
	2016	ETL	9,284	12,257	24,024	23,577
		Total	25,494	31,845	89,644	104,684
	Total Change	(2016-2015)	3,683	4,903	7938	13,107
		Mainline	15,730	19,042	65,432	76,350
	2016	ETL	8,019	9,205	17,236	15,321
		Total	23,749	28,247	82,668	91,671
Jan		Mainline	16,374	20,661	65,794	81,035
	2017	ETL	9,038	11,972	21,846	22,077
		Total	25,412	32,633	87,640	103,112
	Total Change	(2017-2016)	1,663	4,386	4,972	11,441
		Mainline	17,038	17,038	68,765	79,759
	2016	ETL	8,617	8,617	18,133	16,026
		Total	25,655	25,655	86,898	95,785
Feb		Mainline	16,117	16,117	64,383	79,389
	2017	ETL	9,092	9,092	22,912	22,956
	2017	Total	25,209	25,209	87,295	102,345
	Total Change	e (2017-2016)	-446	-446	397	6,560
		Mainline	17,359	17,359	69,351	79,866
	2016	ETL	9,117	9,117	20,076	18,242
		Total	26,476	26,476	89,427	98,108
Mar		Mainline	16,984	16,984	67,585	83,419
	2017	ETL	10,130	10,130	25,301	24,356
		Total	27,114	27,114	92,886	107,775
	Total Change	e (2017-2016)	638	638	3,459	9,667
	- rotal change	Mainline	17,505	20,568	69,840	74,820
	2016	ETL	9,100	10,896	21,405	18,570
	2010	Total	26,605	31,464	91,245	93,390
Anvil		Mainline	17,173	21,366	68,899	85,444
April	0047					
	2017	ETL	10,120	12,619	25,060	24,692
	Tula	Total	27,293	33,985	93,959	110,136
	Iotal Change	e (2017-2016)	688	2,521	2,714	16,746

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT							
				NE 100th (Dua	I-Lane Section)		
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)	Daily Total (SB)	Daily Total (NB)	
		Mainline	16,980	20,698	69,152	84,522	
	2016	ETL	9,182	11,990	21,812	22,335	
		Total	26,162	32,688	90,964	106,857	
May		Mainline	16,932	21,161	68,485	85,044	
	2017	ETL	10,019	12,942	25,526	25,782	
		Total	26,951	34,103	94,011	110,826	
	Total Change	e (2017-2016)	789	1,415	3,047	3,969	
		Mainline	17,672	20,693	69,964	85,705	
	2016	ETL	9,540	12,537	24,201	24,586	
		Total	27,212	33,230	94,165	110,291	
June		Mainline	17,362	21,026	70,000	87,110	
	2017	ETL	10,188	13,751	27,847	27,414	
		Total	27,550	34,777	97,847	114,524	
	Total Change	(2017-2016)	338	1,547	3,682	4,233	
		Mainline	16,812	20,397	69,454	84,960	
	2016	ETL	8,576	12,081	23,948	23,893	
		Total	25,388	32,478	93,402	108,853	
July		Mainline	16488	20895	69575	85995	
	2017	ETL	9207	12861	27057	26607	
		Total	25695	33756	96632	112602	
	Total Change	e (2017-2016)	307	1,278	3,230	3,749	
		Mainline	17,510	20,683	70,068	85,514	
	2016	ETL	9,375	12,677	25,064	24,690	
		Total	26,885	33,360	95,132	110,204	
Aug		Mainline	17470	21509	70940	87151	
	2017	ETL	9832	13482	27658	27178	
		Total	27302	34991	98598	114329	
	Total Change	(2017-2016)	417	1,631	3,466	4,125	

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT								
				NE 100th (Dua	I-Lane Section)			
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)	Daily Total (SB)	Daily Total (NB)		
		Mainline	16,589	20,618	67,817	83,428		
	2016	ETL	9,335	12,478	24,104	24,152		
		Total	25,924	33,096	91,921	107,580		
Sept		Mainline	16523	21319	68411	84558		
	2017	ETL	9645	13325	26281	26422		
		Total	26168	34644	94692	110980		
	Total Change	(2017-2016)	244	1,548	2,771	3,400		
		Mainline	16,540	20,598	66,729	82,580		
	2016	ETL	9,708	12,459	23,975	23,434		
		Total	26,248	33,057	90,704	106,014		
Oct	2017	Mainline	16,891	21,096	67,776	83,869		
		ETL	10,278	13,667	26,427	26,746		
		Total	27,169	34,763	94,203	110,615		
	Total Change (2017-2016)		921	1,706	3,499	4,601		
	2016	Mainline	15,916	19,888	65,746	81,248		
		ETL	8,957	11,648	23,290	22,950		
		Total	24,873	31,536	89,036	104,234		
Nov		Mainline	15,200	20,194	64,316	80,727		
	2017	ETL	9,198	12,553	25,888	25,594		
		Total	24,398	32,747	90,204	106,321		
	Total Change	e (2017-2016)	-475	1,211	1,168	2,087		
		Mainline	16,210	19,588	65,620	81,107		
	2016	ETL	9,284	12,257	24,024	23,577		
		Total	25,494	31,845	89,644	104,684		
Dec		Mainline	15,295	19,857	65,179	79,785		
	2017	ETL	8,491	11,871	24,640	24,876		
		Total	23,786	31,728	89,819	104,661		
	Total Change	(2017-2016)	-1,708	-117	175	-23		

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT							
				SR 527 (Single	-Lane Section)		
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)*	Daily Total (SB)	Daily Total (NB)	
		Mainline	10,841	14,319	51,987	53,767	
	2014	HOV	3,126	4,450	8,644	8,976	
		Total	13,967	18,769	60,631	62,743	
Oct		Mainline	11,773	13,483	53,876	55,295	
	2015	ETL	3,269	4,773	7,741	7,231	
		Total	15,042	18,256	61,617	62,526	
	Total Chang	e (2015-2014)	1,075	-513	986	-217	
		Mainline	10,665	13,653	50,239	52,349	
	2014	HOV	2,681	4,127	8,976	8,789	
		Total	13,346	17,780	59,215	61,138	
Nov		MainlineL	11,047	13,103	52,034	53,390	
	2015	ETL	3,226	4,474	8,121	7,256	
		Total	14,273	17,577	60,155	60,646	
	Total Chang	e (2015-2014)	927	-203	940	-492	
		Mainline	10,586	13,544	50,562	52,184	
	2014	HOV	2,331	4,041	9,005	8,120	
		Total	12,917	17,585	59,567	60,304	
Dec	2015	Mainline	10,845	12,846	52,300	53,035	
		ETL	2,710	4,170	7,882	7,285	
		Total	13,555	17,016	60,182	60,320	
	Total Change (2015-2014)		638	-569	615	16	
	2015	Mainline	11,308	14,025	51,460	52,184	
		HOV	2,522	3,985	7,565	8,120	
		Total	13,830	18,010	59,025	60,304	
Jan		Mainline	11,234	13,241	51,804	52,504	
	2016	ETL	3,306	4,362	7,715	7,201	
		Total	14,540	17,603	59,519	59,705	
	Total Chang	e (2016-2015)	710	-407	494	-599	
		Mainline	11,864	14,539	53,269	53,944	
	2015	HOV	2,665	4,290	8,046	8,467	
		Total	14,529	18,829	61,315	62,411	
Feb		Mainline	12,085	13,846	54,020	54,992	
	2016	ETL	3,431	4,642	8,251	7,684	
		Total	15,516	18,488	62,271	62,676	
	Total Chang	e (2016-2015)	987	-341	956	265	

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT							
				SR 527 (Single	-Lane Section)		
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)*	Daily Total (SB)	Daily Total (NB)	
		Mainline	11,937	14,681	49,388	50,728	
	2015	HOV	2,819	4,269	7,975	7,963	
		Total	14,756	18,950	57,363	58,691	
Mar		Mainline	12,240	14,076	54,019	55,254	
	2016	ETL	3,736	4,986	9,264	8,683	
		Total	15,976	19,062	63,283	63,937	
	Total Change	e (2016-2015)	1,220	112	5,920	5,246	
		Mainline	12,277	14,506	54,498	54,996	
	2015	HOV	2,725	4,411	8,892	9,704	
		Total	15,002	18,917	63,390	64,700	
Apr		Mainline	12,433	13,952	54,906	56,333	
	2016	ETL	3,806	5,178	10,571	9,722	
		Total	16,239	19,130	65,477	66,055	
	Total Change	e (2016-2015)	1,237	213	2,087	1,355	
	2015	Mainline	11,929	14,182	54,062	55,279	
		HOV	2,802	4,502	9,746	9,573	
		Total	14,731	18,684	63,808	64,852	
May	2016	Mainline	11,990	13,670	54,741	55,531	
		ETL	3,820	5,141	10,532	9,973	
		Total	15,810	18,811	65,273	65,504	
	Total Change	e (2016-2015)	1,079	127	1,465	652	
		Mainline	12,225	14,166	55,328	56,319	
	2015	HOV	3,095	4,887	10,683	10,793	
		Total	15,320	19,053	66,011	67,112	
Jun		Mainline	12,260	13,865	55,920	56,902	
	2016	ETL	4,012	5,373	11,468	10,740	
		Total	16,272	19,238	67,388	67,642	
	Total Change	(2016-2015)	952	185	1,377	530	
		Mainline	12,440	14,016	56,522	56,423	
	2015	HOV	2,797	4,781	10,698	11,386	
		Total	15,237	18,797	67,220	67,809	
Jul		Mainline	11,761	13,432	54,902	55,848	
	2016	ETL	3,699	5,121	11,909	10,812	
		Total	15,460	18,553	66,811	66,660	
	Total Change	e (2016-2015)	223	-244	-409	-1,149	

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT							
				SR 527 (Single	-Lane Section)		
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)*	Daily Total (SB)	Daily Total (NB)	
		Mainline	12,445	14,210	56,452	56,206	
	2015	HOV	2,925	4,685	10,755	11,346	
		Total	15,370	18,895	67,207	67,552	
Aug		Mainline	12,155	13,573	55,115	55,947	
	2016	ETL	4,035	5,268	12,364	11,170	
		Total	16,190	18,841	67,479	67,117	
	Total Change	(2016-2015)	820	-54	272	-435	
		Mainline	11,603	13,984	53,381	54,701	
	2015	HOV	2,820	4,286	8,897	8,964	
		Total	14,423	18,270	62,278	63,665	
Sep		Mainline	11,177	13,640	52,915	54,656	
	2016	ETL	3,950	5,125	11,567	10,450	
		Total	15,127	18,765	64,482	65,106	
	Total Change	(2016-2015)	704	495	2,204	1,441	
	2015	Mainline	11,773	13,483	53,876	55,295	
		ETL	6,269	4,773	7,741	7,231	
		Total	15,042	18,256	61,617	62,526	
Oct	2016	Mainline	11,186	13,643	51,919	53,482	
		ETL	4,020	5,127	11,039	10,534	
		Total	15,206	18,770	62,958	64,016	
	Total Change	(2016-2015)	164	514	1,341	1,490	
		Mainline	11,047	13,103	52,034	53,390	
	2015	ETL	3,226	4,474	8,121	7,256	
		Total	14,273	17,577	60,155	60,646	
Nov		Mainline	10,724	13,296	51,492	52,930	
	2016	ETL	3,540	4,807	10,866	10,279	
		Total	14,264	18,103	62,358	63,209	
	Total Change	(2016-2015)	-9	526	2,203	2,563	
		Mainline	10,845	12,846	52,300	53,035	
	2015	ETL	2,710	4,170	7,882	7,285	
		Total	13,555	17,016	60,182	60,320	
Dec		Mainline	10,915	13,433	51,169	53,155	
	2016	ETL	3,769	4,914	11,126	10,252	
		Total	14,684	18,347	62,295	63,407	
	Total Change	(2016-2015)	1,129	1,331	2,113	3,087	

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT								
				SR 527 (Single	-Lane Section)			
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)*	Daily Total (SB)	Daily Total (NB)		
		Mainline	11,234	13,241	51,804	52,504		
	2016	ETL	3,306	4,362	7,715	7,201		
		Total	14,540	17,603	59,519	59,705		
Jan		Mainline	11,440	13,473	51,395	51,891		
	2017	ETL	3,609	4,829	9,906	9,833		
		Total	15,049	18,302	61,301	61,724		
	Total Change	(2017-2016)	509	699	1,782	2,019		
		Mainline	12,085	13,846	54,020	54,992		
	2016	ETL	3,431	4,642	8,251	7,684		
		Total	15,516	18,488	62,271	62,676		
Feb	2017	Mainline	11,248	13,197	50,733	51,471		
		ETL	3,681	4,740	10,329	10,219		
		Total	14,929	17,937	61,062	61,690		
	Total Change (2017-2016)		-587	-551	-1,209	-986		
	2016	Mainline	12,240	14,076	54,019	55,254		
		ETL	3,736	4,986	9,264	8,683		
		Total	15,976	19,062	63,283	63,937		
Mar		Mainline	11,535	13,292	53,175	52,949		
	2017	ETL	3,943	5,163	11,739	11,122		
		Total	15,478	18,455	64,914	64,071		
	Total Change	e (2017-2016)	-498	-607	1,631	134		
		Mainline	12,433	13,952	54,906	56,333		
	2016	ETL	3,806	5,178	10,571	9,722		
		Total	16,239	19,130	65,477	66,055		
April		Mainline	11,912	15,641	54,023	56,908		
	2017	ETL	3,897	4,989	11,367	11,579		
		Total	15,809	20,630	65,390	68,487		
	Total Change	e (2017-2016)	-430	1,500	-87	2,432		

AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT								
				SR 527 (Single	-Lane Section)			
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)*	Daily Total (SB)	Daily Total (NB)		
		Mainline	11,990	13,670	54,741	55,531		
	2016	ETL	3,820	5,141	10,532	9,973		
		Total	15,810	18,811	65,273	65,504		
May		Mainline	11,675	15,684	53,901	55,572		
	2017	ETL	3,930	4,655	11,585	10,657		
		Total	15,605	20,339	65,486	66,229		
	Total Change	e (2017-2016)	-205	1,528	213	725		
		Mainline	12,260	13,865	55,920	56,902		
	2016	ETL	4,012	5,373	11,468	10,740		
		Total	16,272	19,238	67,388	67,642		
June	2017	Mainline	11,805	15,373	55,261	57,850		
		ETL	4,074	4,993	12,732	11,493		
		Total	15,879	20,366	67,993	69,343		
	Total Change (2017-2016)		-393	1,128	605	1,701		
	2016	Mainline	11,761	13,432	54,902	55,848		
		ETL	3,699	5,121	11,909	10,812		
		Total	15,460	18,553	66,811	66,660		
July		Mainline	11792	15723	54399	57083		
	2017	ETL	3970	4867	11910	11,206		
		Total	15762	20590	66309	68289		
	Total Change	(2017-2016)	302	2,037	-502	1,629		
		Mainline	12,155	13,573	55,115	55,947		
	2016	ETL	4,035	5,268	12,364	11,170		
		Total	16,190	18,841	67,479	67,117		
Aug		Mainline	11953	15768	55688	57721		
	2017	ETL	3992	4939	13261	11562		
		Total	15945	20707	68949	69283		
	Total Change	(2017-2016)	-245	1,866	1,470	2,166		

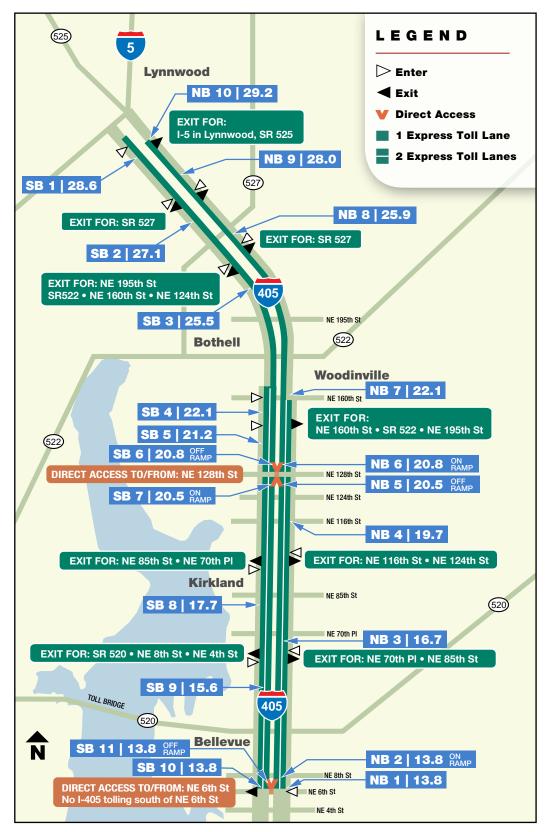
AVERAGE WEEKDAY SCREENLINE VOLUMES YEAR TO YEAR COMPARISON - PRE-TOLLING TO PRESENT								
				SR 527 (Single	-Lane Section)			
			AM Peak (SB, 5-9a)	PM Peak (NB, 3-7p)*	Daily Total (SB)	Daily Total (NB)		
		Mainline	11,177	13,640	52,915	54,656		
	2016	ETL	3,950	5,125	11,567	10,450		
		Total	15,127	18,765	64,482	65,106		
Sept		Mainline	11326	15904	53689	56433		
	2017	ETL	3940	4852	12365	10960		
		Total	15266	20756	66054	67393		
	Total Change	(2017-2016)	139	1,991	1,572	2,287		
		Mainline	11,761	13,432	54,902	55,848		
	2016	ETL	3,699	5,121	11,909	10,812		
		Total	15,460	18,553	66,811	66,660		
Oct	2017	Mainline	11,466	16,043	53,147	56,213		
		ETL	4,175	5,040	12,162	10,845		
		Total	15,641	21,083	65,309	67,058		
	Total Change (2017-2016)		435	2,313	2,351	3,042		
	2016	Mainline	12,155	13,573	55,115	55,947		
		ETL	4,035	5,268	12,364	11,170		
		Total	16,190	18,841	67,479	67,117		
Nov		Mainline	10,374	15,203	51,099	54,157		
	2017	ETL	3,588	4,705	11,842	10,644		
		Total	13,962	19,908	62,941	64,801		
	Total Change	(2017-2016)	-302	1,805	583	1,592		
		Mainline	11,177	13,640	52,915	54,656		
	2016	ETL	3,950	5,125	11,567	10,450		
		Total	15,127	18,765	64,482	65,106		
Dec		Mainline	10,465	14,811	51,323	53,550		
	2017	ETL	3,321	4,510	11,344	10,547		
		Total	13,786	19,321	62,667	64,097		
	Total Change	(2017-2016)	-898	974	372	690		

\*PM Mainline data includes Peak Use Shoulder Lane counts starting April 2017.

## **Detailed Speed Data**

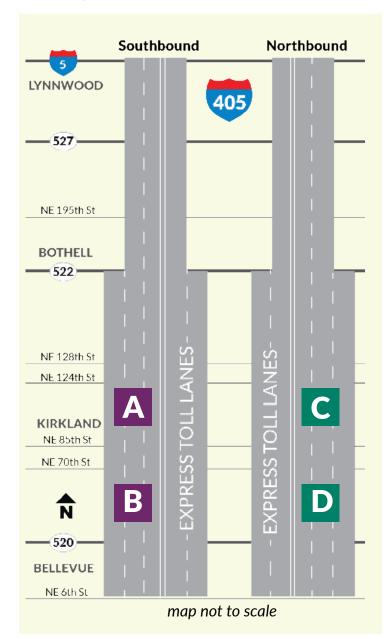
- Due to the large amount and detail of the speed data requested for each travel segment, this data will be provided on WSDOT's website at <a href="http://www.wsdot.wa.gov/Tolling/405/library.htm">www.wsdot.wa.gov/Tolling/405/library.htm</a>
- Data summary: Monthly average, 5th percentile, and 95th percentile speeds (miles per hour) along I-405 in 5 minute increments from October 2014 to June 2016. Speeds are summarized in two segments (Southern Corridor- Downtown Bellevue to SR 522 and Northern Corridor SR 522 to Swamp Creek) and for the full length in the HOV/Express Toll Lanes and the general purpose lanes.

#### Reference map for locating mileposts along I-405



# **Appendix C: Additional Traffic Performance Data**

Using sensors in the roadway, WSDOT collected traffic counts on the stretch of I-405 between Bellevue and Lynnwood. Volumes were reported at eight sample locations, four in the northbound direction and four in the southbound direction. In the dual-lane section, sensors collect traffic data at NE 53rd St and NE 100th St. In the single-lane section, the sensors are located at the I-405 interchanges with State Route 522 and State Route 527.



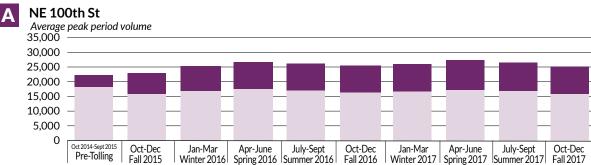
To monitor daily vehicle volumes on the portion of the I-405 corridor with dual express toll lanes, WSDOT collected data at NE 53rd St, markers A and C, and NE 100th St, markers B and D. Quarterly average daily volumes for general purpose and express toll lanes at these locations can be viewed on the following page.

#### Average weekday dual-lane section volumes at sample locations - Oct. 1, 2014-December 31, 2017

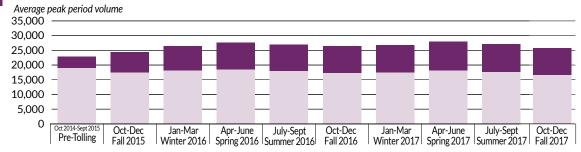
#### Southbound Morning Peak (5-9 a.m.)

General purpose lanes HOV/Express toll lanes

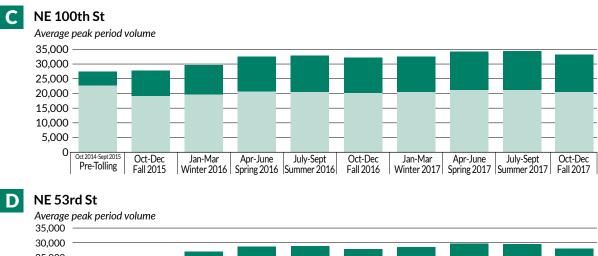
General purpose lanes HOV/Express toll lanes

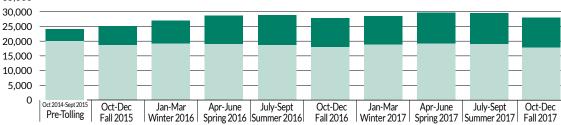


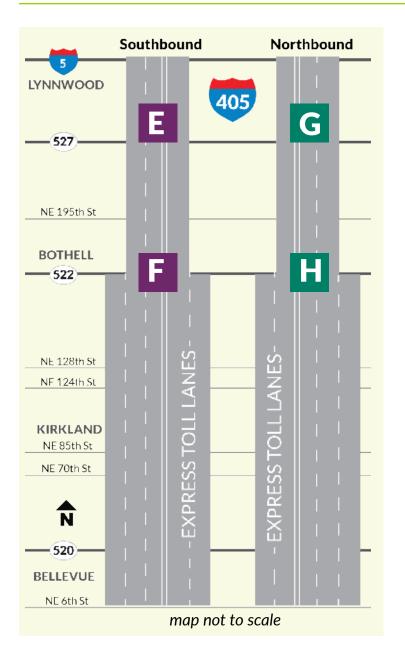
#### B NE 53rd St



#### Northbound Evening Peak (3-7 p.m.)



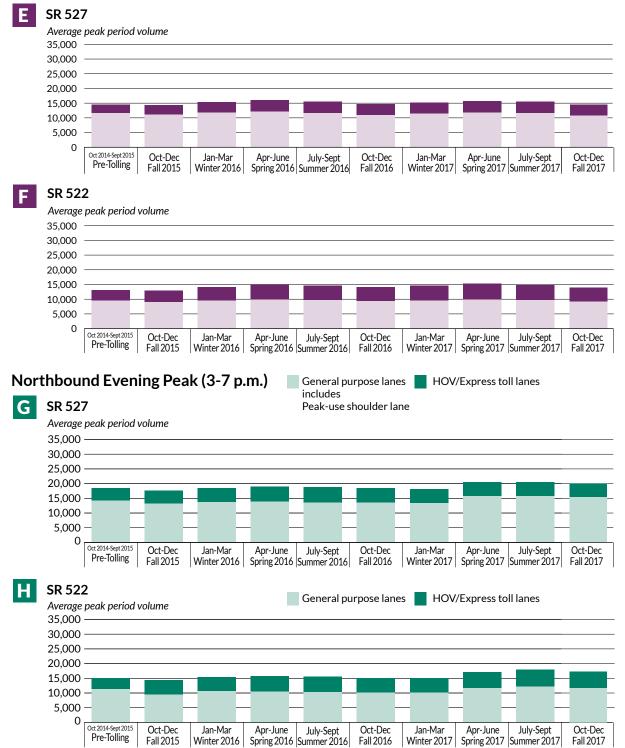




To monitor daily vehicle volumes on the portion of the I-405 corridor with single express toll lanes, WSDOT collected data at the SR 527 interchange, markers E and G, and SR 522 interchange, markers F and H. Quarterly average daily volumes for general purpose and express toll lanes at these locations can be viewed on the following page. Average weekday single-lane section volumes at sample locations – Oct. 1, 2014-December 31, 2017

#### Southbound Morning Peak (5-9 a.m.)

General purpose lanes HOV/Express toll lanes



# **Appendix D**

# **Operational Parameters**

The following parameters define how the express toll lanes operate and are critical to understanding the data and analysis discussed in this report:

- The I-405 express toll lane corridor is made up of single- and dual-lane sections. The 7.9 mile portion of the system with two lanes in each direction between Bellevue and Bothell is referred to as the dual-lane section. The 7.15 mile portion of the system with one express toll lane in each direction between Bothell and I-5 in Lynnwood is referred to as the single-lane section.
- The I-405 express toll lanes operate as a tolled facility on weekdays between 5 a.m. and 7 p.m., except on major holidays. During all other days and times, the lanes are open to all traffic.
- Carpools with enough occupants may use the express toll lanes for free with a Flex Pass set to HOV mode. The carpool occupancy requirement, set by the Transportation Commission, allows vehicles with three or more occupants to travel toll-free during peak periods on weekdays and vehicles with two or more occupants to travel toll-free on weekdays from 9 a.m. to 3 p.m.
- Peak time, peak direction: southbound morning peak period (5 a.m.-9 a.m.) and northbound afternoon peak period (3 p.m.-7 p.m.)
- Trip categories: The following categories define toll trips.
  - **Toll-exempt:** Carpools traveling toll-free with a Flex Pass set to HOV mode, and motorcycles with a motorcycle pass.
  - Photo toll: Vehicles who pay the toll through a photo of the vehicle license plate. There are two types of photo tolling: Pay By Plate License plates registered to a *Good To Go!* account; drivers are charged an additional 25 cent fee per trip. Pay By Mail Drivers without a *Good To Go!* account receive toll bills through the mail for an additional \$2 per trip.
  - Good To Go! pass: Non-carpools that pay a toll using any Good To Go! pass installed in their vehicle; this method is the most inexpensive way to pay a toll.

## How Express Toll Lanes Work

The I-405 express toll lanes were designed to provide faster, more predictable trips for transit, vanpools, carpools and toll-paying vehicles. While some factors, such as collisions, can inhibit the efficiency of the lanes, managing the flow of traffic in and out of the lanes allows the lanes to maintain faster speeds than general purpose lanes during periods of congestion.

WSDOT utilizes different strategies in the express toll lanes to promote steady speeds and more efficient person throughput, including lane design, vehicle limitations and tolling.

## Design

Vehicles and transit can only enter and exit the express toll lanes by using specific access points. Limiting merging points and managing traffic flow through dynamic tolling allows the express toll lanes to maintain more consistent speeds. Drivers do not have to adjust the speeds of their vehicles as often in the express toll lanes to compensate for merging with other vehicles. Some access points have a dashed white line for vehicles to merge in or out or temporary weave lanes allow vehicles to merge in and out of the express toll lanes with less disruption, allowing the express toll lanes to operate more efficiently. Additionally, there are two direct access ramps that transit, high occupancy vehicles (HOV) and toll-paying drivers can use from NE 6th Street in Bellevue and NE 128th Street in Kirkland to enter the express toll lanes directly.

#### **Vehicle Limitations**

WSDOT manages the types of vehicles that can and cannot use the express toll lanes during operational hours. Between 7 p.m. and 5 a.m. and on weekends and holidays, the lanes are open to all vehicles.

Express toll lanes are always free to transit, vanpools and carpools that meet occupancy requirements. During peak hours, vehicles must have at least three occupants and a Flex Pass in order to use the lanes free of charge. The lanes incentivize transit and carpooling by providing faster, more predictable trips without a toll.

Large commercial vehicles, such as trucks over 10,000 pounds gross vehicle weight, are never allowed in the express toll lanes. This is consistent with HOV lane restrictions throughout Washington which are designed to promote more efficient person throughput.

One of the primary goals of the express toll lanes is to improve transit reliability and travel times. The previous HOV lanes often experienced gridlock which interfered with transit efficiency. Limiting the number of vehicles that can use the lanes ensures more reliability for transit riders. Motorcycles can always use the lanes free of cost as long as they have a *Good To Go!* motorcycle pass.

## **Dynamic Tolling**

The efficiency of the express toll lanes relies heavily on the dynamic tolling algorithm which determines toll rates for the lanes. The algorithm adjusts toll rates every 5 minutes based on congestion to influence the flow of vehicles into the lanes to ensure that traffic continues to move smoothly. Toll rates range from \$0.75 to \$10.

As traffic increases, the toll increases. As traffic subsides, the toll goes down. This process is called "dynamic pricing." Dynamic pricing works to ensure that the lanes don't get overloaded with vehicles and become as congested as the general purpose lanes. The tolling system monitors congestion throughout the corridor which is why toll rates can vary for different destinations, or "toll zones."

Typically, drivers chose to use the express toll lanes most during peak periods when traffic is heavy. As more vehicles enter, the toll rate goes up. That's why when congestion is at its worst, toll rates increase to the maximum rate.

Transit and qualifying carpools can use the lanes for free. This has the combined benefit of incentivizing carpooling or use of public transportation to avoid paying a toll. When people opt to use these forms of transportation, they reduce the number of cars on the road which in turn helps reduce congestion.

Dynamic pricing is used successfully at other toll facilities around the country, including San Diego, Los Angeles, Miami, Denver, Northern Virginia, the Bay Area and Dallas.

## How the Signs Work

The rates displayed on the roadway signs are for vehicles with transponders installed traveling to any point up to and including the listed destination. Once a vehicle passes a listed destination, the rate for that trip will be based on the rate for the next destination you saw on the sign when you entered. Learn more about how express toll lanes work;

www.youtube.com/watch?v=lhwRTz7zxrY&feature= youtu.be.



#### FOR MORE INFORMATION

### Visit GoodToGo405.org or contact us at GoodToGoTolling@wsdot.wa.gov

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