

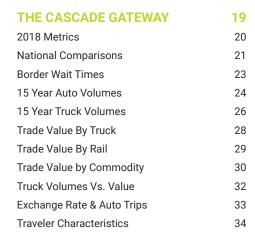
IMTC is led by the Whatcom Council of Governments 314 E. Champion St., Bellingham, WA 98225 (360) 685-8385 www.theimtc.com imtc@wcog.org

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## **IMTC**

#### THE INTERNATIONAL MOBILITY & TRADE CORRIDOR **PROGRAM**

21 years of coordinated border planning

U.S. and Canada

Binationally recognized as a model of cross-border collaboration



The International **Mobility & Trade Corridor Program (IMTC)** is a binational, regional coalition to support the improvement of and security for the Cascade **Gateway system** of border



**Over 30 different** organizations participate at the Steering and Core **Group levels** 





## THE CASCADE GATEWAY

## INTRODUCTION





#### IMTC - Award winning border collaboration between Washington State and British Columbia

The International Mobility and Trade Corridor Program (IMTC) is a binational coalition of government, business interests, and non-governmental entities that supports improvements to safety, mobility, and security for the Cascade Gateway - the five land border ports-ofentry connecting Western Washington State and Lower Mainland British Columbia.

The IMTC Program is administered by the Whatcom Council of Governments (WCOG), a U.S. metropolitan planning organization (MPO) in Bellingham, Washington. Being largely composed

of government agency representatives, the IMTC coalition does not advocate for regulatory or legislative changes. Rather, through the IMTC Program, participants coordinate planning, identify shared system needs, and optimize investments and operations through collaboration, innovation, and partnership.

IMTC participants have identified goals along with specific strategies to accomplish them. They are periodically reviewed to align with changes in regional needs and the policy and legal environments surrounding cross-border trade and travel.

### **GOALS & STRATEGIES**

#### 1. Coordinate planning

For this collection of border crossings that serves a major North American travel and trade corridor, IMTC fills the critical need for structured communication between the multiple entities whose facilities and operations collectively provide this connection.

- **\$1.1** Regularly convene representatives of the agencies that own and operate regional border crossing transportation and inspection facilities.
- **\$1.2** Develop and maintain cross-border, interagency, cross-sector relationships that are essential for efficient and effective communication, trust-based decision making, and advancing improvements through partnership.
- **\$1.3** Facilitate involvement and dialogue with representatives of industries that depend on cross-border connections as well as stakeholders from non-governmental organizations and academia.
- **\$1.4** Develop and periodically update a list of projects.
- **\$1.5** Support operations and improvements to the Cascade Gateway as a system rather than as five individual ports-of-entry.
- **\$1.6** Plan for future capacity of Cascade Gateway land border facilities as trade and travel volumes grow by periodically updating estimates of how all modes (road, rail, marine, air) could be optimally used to serve international transportation demand on the corridor.



- **\$1.7** Engage with other regional, crossborder coalitions and participate in the border-wide Canada-U.S. Transportation Border Working Group (TBWG).
- **\$1.8** Conduct near-term and long-term planning for the Cascade Gateway.

## 2. Improve regional, cross-border trade and transportation data

Planning and systems management requires current, data-based information. Furthermore, information best supports *interagency* cooperation when all parties are involved in how data are collected and synthesized.

- **S2.1** Collect and share transportation and trade data.
- **\$2.2** Maintain and improve border wait time systems.
- **S2.3** Maintain and improve data

products including border wait time data archives, booth-status data, and periodic sample surveys of cross-border trucks and passenger vehicles.

## 3. Support infrastructure improvements

Given that border crossing infrastructure (roads, port facilities, ITS, etc.) consists of components owned and operated by multiple agencies in two countries, coordinated planning is needed to identify opportunities for increased efficiency and productivity. Sustained, proactive coordination also increases opportunities for funding partnerships.

- **S3.1** Improve border crossing approach roads.
- **\$3.2** Improve cross-border rail.
- **S3.3** Improve corridor connections of trade and travel routes.
- **S3.4** Integrate intelligent transportation systems (ITS).
- **S3.5** Encourage harmonization of cross-border ITS systems, standards, and products.

## 4. Support coordinated implementation of U.S. and Canadian border policy

IMTC provides an important regional mechanism for federal *and* regional government agency representatives to collaboratively assess needs for policy change and to consider if coordinated strategies could improve the implementation of national and binational policies.

- **S4.1** Coordinate improvements, operations, and communications in accordance with the goals of federal policies.
- **S4.2** Complement, as appropriate, border related initiatives of British Columbia and Washington State including memoranda of cooperation and the Joint Transportation Executive Council (JTEC).
- **S4.3** Explore options for funding future Cascade Gateway improvements including binational financing mechanisms.



#### **IMTC Steering Committee**

The Steering Committee meets monthly. Consisting primarily of agencies with operational responsibilities for border facilities, participants include inspection and transportation agencies, border municipalities, and other governmental departments. The Steering Committee makes recommendations to the Core Group for final approval.

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#### 5. Improve operations

IMTC supports dialog between agencies, industries, and communities that helps identify and evaluate improvements to border facility operations and how some aspects of traffic and inspection programs (e.g. NEXUS, FAST) are managed.

- **\$5.1** Improve traffic management at all Cascade Gateway ports-of-entry.
- **\$5.2** Support ongoing effectiveness of the NEXUS program.
- **\$5.3** Support optimal operations of the FAST (Free and Secure Trade) programs.
- **S5.4** Coordinate support for adequate staffing of border inspection facilities.
- **\$5.5** Use data-based tools to evaluate operational alternatives such as transportation demand modeling and facility simulation modeling.
- **\$5.6** Support integration of information systems when appropriate including intelligent transportation systems (ITS).
- **\$5.7** Support identification of consistent funding for maintenance of

ITS (wait time, traffic management, etc.).

- **\$5.8** Support the implementation of pre-clearance for passenger rail
- **\$5.9** Support consideration of alternatives enabled by a pre-clearance agreement such as shared border operations zones at ports-of-entry and off-border inspection functions.
- **\$5.10** Support optimal adoption and application of radio frequency identification (RFID) technology (for both NEXUS and non-NEXUS travel documents).

IMTC's 29 strategies are used as part of its border master planning efforts to identify projects and measure the performance of those projects.

#### **IMTC Core Group**

The Core Group is the decision making body of IMTC. Consisting of the Steering Committee plus industry associations, non-governmental organizations, and other governmental entities with a more general interest in border operations and policy, this group meets two to three times a year.

### **PARTICIPATING AGENCIES**

IMTC isn't a formalized organization - it's a voluntary forum of stakeholders, and the participants who make it successful.

Representatives of the following agencies and organizations regularly participate at IMTC Steering and Core Group meetings:





#### **Transportation**

B.C. Ministry of Transportation

Port of Bellingham

TransLink

Transport Canada

U.S. Federal Highway Admin.

Vancouver Airport Authority (YVR)

Whatcom Council of Governments

WA State Dept. of Transportation

#### Inspection

Canada Border Services Agency

U.S. Border Patrol

U.S. Customs & Border Protection

#### **Border Cities**

Abbotsford, B.C.

Blaine, WA

Langley, B.C.

Lynden, WA

Sumas, WA

Surrey, B.C.

White Rock, B.C.



#### Industry

BC Trucking Association
Chambers of Commerce

**Duty Free Stores** 



#### Government

Canadian Consulate

US Consulate

US General Services
Administration



#### **Academia**

Border Policy Research Institute, Western Washington University

University of Washington

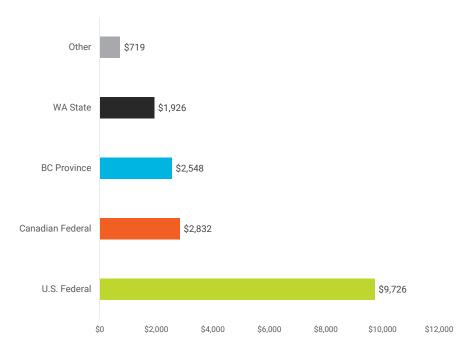
### **FUNDING**

In addition to funding for the IMTC Program, participants regularly partner to fund Cascade Gateway improvement projects.

Since 1999, IMTC participants have together funded projects totalling over \$41 million (USD) for Cascade Gateway improvements. Funding partners have included the U.S. Federal Highway Administration, Transport Canada, B.C. Province, Washington State, TransLink, Port of Bellingham, Vancouver Airport Authority, Western Washington University, Whatcom Council

of Governments, U.S. Department of Transportation Office of the Secretary, the Bill & Melinda Gates Foundation, the Cascadia Center, and regional municipalities including Abbotsford, Langley, Surrey, and White Rock in B.C. and Sumas, Blaine, and Lynden in WA.

#### Funding by source, 1999 - 2018 (in thousands)\*



<sup>\*</sup>Listed in U.S. dollars. Does not include \$24,557,500 from U.S. Federal Highway Administration for I-5 improvements at Exit 276 related to the Peace Arch redesign.

## **2018 PROJECT LIST**

Every year the IMTC Core Group approves an updated IMTC Project List that includes funded and unfunded construction projects, ITS projects, planning efforts, and port-of-entry improvements. Projects are advanced as funding becomes available from various sources. The following list was approved in 2018 and includes funded and unfunded projects.

PROJECT	STATUS
Peace Arch/Douglas Pedestrian Path Completion	Funded
2. Pacific Highway Pedestrian Route Improvements	Partially Funded
3. IMTC - Coordination of Binational Planning	Partially Funded
4. Cascade Gateway Border Circulation Analysis Phase II	Unfunded
5. Exit 274 Interchange IJR Update	Unfunded
6. Commercial Vehicle Wait Time Assessment/Validation	Unfunded
7. 2018-2019 Passenger Intercept Survey	Funded
8. Additional Passenger Booths Southbound Pac Hwy	Unfunded
9. Pac Hwy Southbound Lane to Booth Traffic Flow	Unfunded
10. Pac Hwy Northbound Active Lane Management	Unfunded
11. Bluetooth/Wi-Fi Border Wait Time System	Unfunded
12. Cascade Gateway Border Data Warehouse 3.0 system update	Unfunded
13. Pt. Roberts/Boundary Bay Border Wait Time System	Unfunded
14. RFID Travel Document Targeted Distribution Pilot	Unfunded
15. Pac Hwy Border Crossing Master Plan	Funded
16. BC Hwy 13 Border Approach Improvements	Funded
17. BC Hwy 11 NEXUS Lane Improvements	Funded
18. SR 539 Congestion Relief Lynden to SR 546 (Badger Rd.)	Funded
19. External Traffic Counts (Whatcom County Borders)	Funded

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## **IMTC PROJECTS**



IMTC has helped identify and fund over two dozen infrastructure, operational, and research projects since 1999. The following list is a chronology of IMTC projects (most recent to oldest).

## 2018/2019 Passenger Intercept Survey

(Active) This most recent intercept survey follows on work completed every five years to collect traveler information from those crossing the border by personal vehicle.

#### **Border Freight Operations Study**

(Completed 2018) This project updated regional freight data for all commercial ports-of-entry, including the collection of data regarding origin- destination, commodity, vehicle type, and trusted trader status. Additional data on commercial wait times were also collected at specific ports-of-entry. This

data updates commercial vehicle data last collected in 2009.

#### **Dynamic Border Management**

(Active) The Dynamic Border
Management project is three integreated
tasks that address Cascade Gateway
challenges of maintaining wait time
system accuracy and maximizing
system capacity. The project has
developed a border facilities simulation
platform, developed a business case for
an RFID pilot project, and has examined
a model-based wait time validation and
calibration methodology. Applications of
the simulation model are continuing with
a traffic analysis of Peace Arch/Douglas
and Pacific Highway ports-of-entry.

#### **Booth Status Data Integration**

(Completed 2017) WCOG received a grant from U.S. FHWA and matching funds from B.C. Ministry of Transportation and Infrastructure (BCMOTI) to implement the integration of U.S. Customs & Border Protection (CBP) data with BCMOTI's advanced traveler information system. This dataset improves southbound wait time estimates at the four primary Cascade Gateway crossings.

## 2013 Passenger Vehicle Intercept Survey

(Completed 2014) WCOG partnered with the Border Policy Research Institute at Western Washington University to collect data similar to the 2008 Passenger Survey to analyze cross-border traffic patterns, trip purposes, demographics, and assess how these factors have changed over the last five years.

#### **Border Data Warehouse**

(Completed 2014) This project archives cross-border traffic data collected from U.S. and Canadian border wait time systems between Whatcom County, WA and B.C., providing online reports to partner agencies and the public regarding historic wait times at the border. This project continues to benefit system evaluation and performance measurement efforts.

#### Sumas/Abbotsford - Huntingdon Improvements

(Completed 2013) WCOG and the WA State Department of Transportation (WSDOT) completed improvements to northbound traffic movements in Sumas that include an alternate route signage system for long queue conditions and the addition of a northbound NEXUS lane. BCMOTI also constructed a southbound NEXUS lane at Sumas, which will be lengethened in 2019.

#### **NEXUS Marketing**

(Completed 2012) WCOG partnered with Canada Border Services Agency (CBSA), CBP, WSDOT, and BCMOTI to distribute promotional material concurrent with NEXUS expansion in the Cascade Gateway as well as to promote enhanced drivers licenses. This also included updates to the <a href="https://www.GetNEXUS.com">www.GetNEXUS.com</a> website.

#### **FAST Pilot Study**

(Completed 2012) WSDOT funded a study to assist CBP with estimating the effects on commercial vehicle wait times resulting from proposed changes to the layout and operations of the southbound FAST lane at Pacific Highway changed. The study was conducted by WCOG and BPRI.

#### **Border Circulation Analysis**

(Completed 2010) This project has informed agencies' common understanding of investments needed for preserving the east-west transportation network that serves the Cascade Gateway border system. Phase I used existing data and stakeholder feedback to identify primary cross-border routes. The goal was to optimize the Cascade Gateway network as well as develop a plan for subsequent improvemets. Phase II work is pending funding.

#### I-5 Interchange Justification

(Completed 2010) This interchange justification report (IJR) for Interstate 5 Exit 274 in Blaine, WA included an analysis of Exits 275 and 276. The report provides options for developing Exit 274 as a full interchange.

#### **Aldergrove / Lynden Assessment**

(Completed 2010) IMTC participants completed a collaborative, data-based review of regional trade and travel flows and used this analysis to inform a review of future facility requirements of this crossing. A final report was issued in 2010.

## IMTC Commercial Vehicle Operations (CVO) Survey

(Completed 2009) WCOG partnered with BPRI and the University of Washington to evaluate commercial vehicle movement through the Cascade Gateway. Analysis included measurement of border arrival and processing rates at all three crossings, as well as the collection of origin-destination and commodity data.





#### **NEXUS Market Feasibility Study**

(Completed 2009) WCOG partnered with BPRI to interview travelers at Lynden-Aldergrove and Sumas / Abbotsford-Huntingdon to assess regional travelers' knowledge of the NEXUS program.

#### **Passenger Vehicle Intercept Survey**

(Completed 2008) BPRI, in partnership with WCOG, completed a passenger vehicle intercept survey to collect origin-destination, trip purpose, travel pattern, and crossing frequency data.

#### **FAST Promotion**

(Completed 2008) WCOG, in partnership with U.S. and Canadian inspection agencies, conducted a series of training sessions, outreach, and promotions to increase regional enrollment in the FAST programs.

## Weigh-in-Motion Software Integration

(Completed 2008) This project connected B.C. and WA State commercial vehicle inspection systems to improve the movement of trade along the Cascade Gateway corridor.

#### **IMTC CVO Evaluation Survey**

(Completed 2006) An analysis similar to the 2009 evaluation of commercial vehicle processing was completed to monitor changes since the 2002 analysis.

#### **Shortsea Shipping Study**

(Completed 2006) This study analyzed the potential of shortsea shipping to serve a meaningful share of the future West Coast cross-border freight traffic, and described the most feasible service types and supporting actions that governments could take.

#### **Highway 15 Improvements**

(Completed 2004) Improvements to B.C. Highway 15 included dedicated NEXUS

and FAST lanes, an improved truck parking facility, and signage.

#### **Southbound NEXUS Lane**

(Completed 2004) A dedicated NEXUS lane was constructed on southbound B.C. Highway 99 to provide NEXUS travelers with a longer queue bypass.

#### **Abbotsford - Sumas Border Project**

(Completed 2003) This binationally funded project identified deficiencies and solutions to address the need for parking for southbound trucks and to alleviate frequent blockage of streets in the City of Sumas. Based on this project, a new parking facility was developed in Huntingdon, and a subsequent Sumas Border Enhancements initiative improved truck signage and rerouting of vehicles during congestion to avoid city center blockages.

#### **NEXUS Marketing**

(Completed 2003) This project conducted a promotional campaign for the NEXUS program, including advertising, in-queue



of projects combine U.S. and Canadian funds to leverage investments in the border.

#### **COLLABORATIVE INVESTMENTS**

Projects advised by IMTC advisory teams benefit from multiple stakeholders identifying opportunities to maximize benefits, and maintain a strong binational focus at every step.

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distribution of materials, and sign installation, backed up by the establishment of a regional website, getNEXUS.com.

#### **IMTC CVO Evaluation Survey**

(Completed 2002) This was the Cascade Gateway's first commercial vehicle evaluation to measure impacts of ITS-enabled pre-arrival information at the border.

#### **Cascade Gateway Rail Study**

(Completed 2002) This study identified freight and passenger rail traffic that could possibly be served by expanded cross-border rail services and the improvements needed to pursue these scenarios. The study also assessed cross-border commuter rail service between Bellingham, WA and Vancouver, B.C. and the potential of a Scott Road Amtrak station in Surrey, BC.

## Advanced Traveler Information System

(Completed 2001) This system provides real-time border wait time information for travelers to improve Cascade Gateway route choice. The system data is also archived at CascadeGatewayData.com.

#### **IMTC Trade & Travel Study**

(Completed 2000) This study collected passenger and commercial vehicle data at all Cascade Gateway ports-of-entry.

#### **PACE & CANPASS Promotion**

(Completed 2000) This project marketed the PACE and CANPASS pre-approved traveler programs to regional travelers. These programs were the predecessors of today's binational NEXUS program.



# THE CASCADE GATEWAY

3rd busiest passenger crossing on the U.S. - Canada border (Blaine, WA) 76% of travelers cross at least once a

\$67 million every day in cross-border trade (USD)



The Cascade
Gateway is a
system of five
border crossings
between
Whatcom County,
Washington
and the Lower
Mainland of
British Columbia









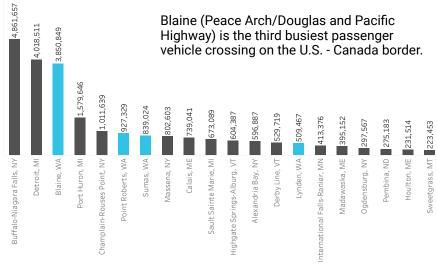
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## **2018 METRICS**

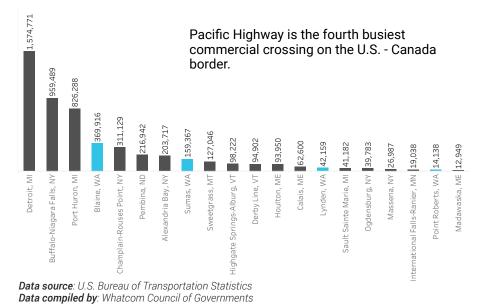
## **NATIONAL COMPARISONS**

	Change since last year (2017)	5 year trend (since 2014)
	Jan July months only, all po	orts, both directions; waits averaged weekends 7am-10pm
Car volume	<b>15%</b> ↑	14%↓
Truck volume	0% —	<u>√</u> 5% ↑
Bus volume	51% ↓	54%↓
NEXUS lane use	<b>16%</b> ↑	
Weekend wait times	<b>70%</b> ↑	11% ↑

#### **PASSENGER VEHICLES**



#### **TRUCKS**



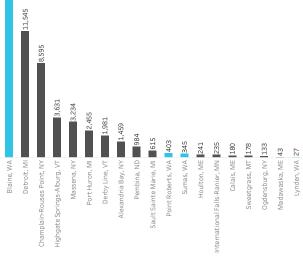
Data source: Canada Border Services Agency, U.S. Customs & Border Protection; Cascade Gateway Border Data Warehouse, www.cascadegatewaydata.com Data compiled by: Whatcom Council of Governments

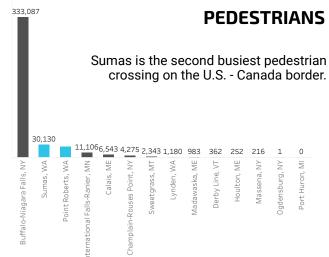
## **NATIONAL COMPARISONS**

2017



Pacific Highway is the second busiest bus crossing on the U.S. - Canada border.

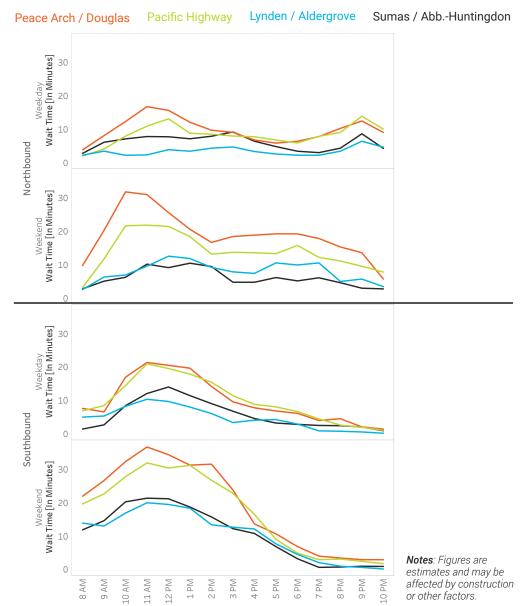




Data source: U.S. Bureau of Transportation Statistics Data compiled by: Whatcom Council of Governments

## **BORDER WAIT TIMES**

**AUGUST, 2018** 



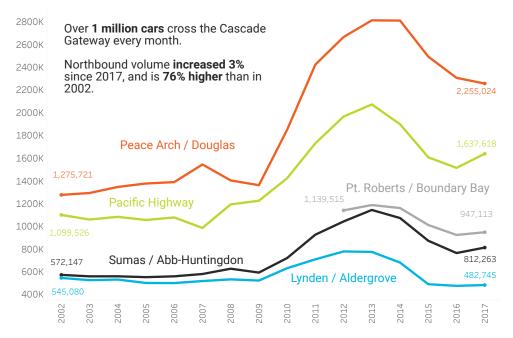
Data source: Cascade Gateway Border Data Warehouse, www.cascadegatewaydata.com Data compiled by: Whatcom Council of Governments

## **15 YEAR AUTO VOLUMES**

#### **NORTHBOUND, 2002 - 2017**

## **15 YEAR AUTO VOLUMES**

**SOUTHBOUND, 2002 - 2017** 



Year	Peace Arch - Douglas	Pacific Highway	Lynden - Aldergrove		Pt. Roberts - Boundary Bay	Total
2002	1,275,721	1,099,526	545,080	572,147		3,492,474
2003	1,292,249	1,058,868	525,817	559,267		3,436,201
2004	1,345,388	1,082,670	530,939	559,597		3,518,594
2005	1,376,116	1,055,016	500,964	552,043		3,484,139
2006	1,388,119	1,077,260	500,129	559,426		3,524,934
2007	1,543,378	985,156	517,917	579,739		3,626,190
2008	1,402,999	1,192,190	532,565	626,347		3,754,101
2009	1,361,099	1,224,331	522,008	592,351		3,699,789
2010	1,849,005	1,422,279	630,740	720,161		4,622,185
2011	2,421,776	1,730,051	708,829	926,019		5,786,675
2012	2,664,667	1,964,693	778,309	1,042,035	1,139,515	7,589,219
2013	2,810,892	2,071,366	774,092	1,143,216	1,186,298	7,985,864
2014	2,808,907	1,897,489	680,237	1,072,043	1,159,819	7,618,495
2015	2,491,762	1,606,416	490,014	872,402	1,010,767	6,471,361
2016	2,305,300	1,513,432	475,503	764,124	923,313	5,981,672
2017	2,255,024	1,637,618	482,745	812,263	947,113	6,134,763

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400K	587,69															
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

Year	Peace Arch - Douglas	Pacific Highway	Lynden - Aldergrove	Sumas - Abb- Huntingdon	Pt. Roberts - Boundary Bay	Total
2002	1,233,687	1,183,098	587,693	629,762		3,634,240
2003	1,317,364	1,067,614	538,502	599,730		3,523,210
2004	1,399,227	1,116,979	497,451	590,282		3,603,939
2005	1,410,388	1,071,677	485,456	596,678		3,564,199
2006	1,480,119	1,157,180	485,098	641,945		3,764,342
2007	1,566,172	1,086,344	544,102	624,764		3,821,382
2008	1,525,446	1,218,933	595,306	652,221		3,991,906
2009	1,492,435	1,350,196	546,850	672,262		4,061,743
2010	1,887,733	1,478,021	615,318	833,653		4,814,725
2011	2,603,582	1,685,342	693,068	1,036,379		6,018,371
2012	2,892,861	1,840,844	818,521	1,125,050	1,169,632	7,846,908
2013	2,770,743	1,845,061	805,458	1,234,184	1,209,277	7,864,723
2014	3,027,629	1,846,218	727,189	1,130,251	1,190,183	7,921,470
2015	2,675,283	1,559,541	544,673	917,131	1,023,508	6,720,136
2016	2,440,981	1,459,556	512,823	841,997	928,897	6,184,254
2017	2,328,146	1,521,018	509,467	839,024	927,329	6,124,984

Data source: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

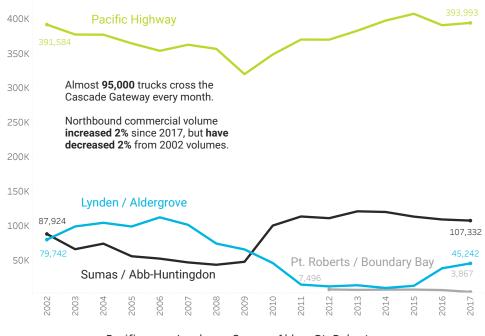
Data source: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

## **15 YEAR TRUCK VOLUMES**

**NORTHBOUND, 2002 - 2017** 

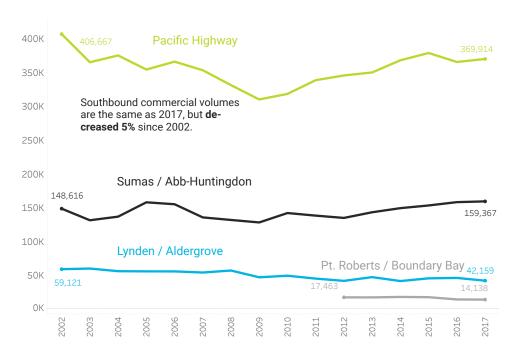
## **15 YEAR TRUCK VOLUMES**

**SOUTHBOUND, 2002 - 2017** 



Year	Pacific Highway	Lynden - Aldergrove		Pt. Roberts - Boundary Bay	Total
2002	391,584	79,742	87,924		559,250
2003	377,157	98,841	65,858		541,856
2004	376,900	104,147	73,907		554,954
2005	364,325	98,765	55,642		518,732
2006	353,526	112,052	52,187		517,765
2007	362,354	101,211	46,687		510,252
2008	356,380	74,040	43,286		473,706
2009	319,707	65,475	47,601		432,783
2010	348,223	45,817	100,103		494,143
2011	369,823	14,536	113,286		497,645
2012	369,721	11,917	110,832	7,496	499,966
2013	382,739	13,557	120,793	6,870	523,959
2014	397,393	9,617	119,823	7,205	534,038
2015	407,207	12,789	113,076	7,283	540,355
2016	390,673	38,171	108,975	6,580	544,399
2017	393,993	45,242	107,332	3,867	550,434

Data source: Canada Border Services Agency Data compiled by: Whatcom Council of Governments



Year	Pacific Highway	Lynden - Aldergrove		Pt. Roberts - Boundary Bay	Total
2002	406,667	59,121	148,616		614,404
2003	365,089	60,072	131,455		556,616
2004	375,169	56,167	136,807		568,143
2005	354,264	55,907	157,998		568,169
2006	365,959	55,853	155,155		576,967
2007	353,286	54,201	135,677		543,164
2008	331,195	57,155	131,898		520,248
2009	310,075	47,127	128,239		485,441
2010	318,309	49,484	142,143		509,936
2011	338,570	45,206	138,319		522,095
2012	345,535	41,844	134,915	17,463	539,757
2013	349,983	47,396	143,297	17,416	558,092
2014	367,994	41,580	149,361	18,121	577,056
2015	378,747	45,598	153,353	17,742	595,440
2016	365,489	46,221	158,257	14,419	584,386
2017	369,914	42,159	159,367	14,138	585,578

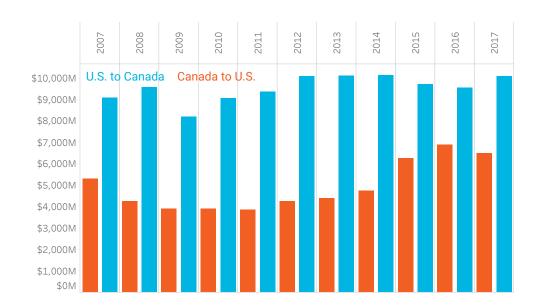
Data source: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

## TRADE VALUE BY TRUCK

U.S. - CANADA, 2002 - 2017

\$000 USD adjusted for inflation

The total value of goods crossing the Cascade Gateway by truck has increased 46% in the last fifteen years. Value increased 1% between 2016 and 2017.



Year	Canada to U.S.	U.S. to Canada	Total
2007	\$5.31B	\$9.07B	\$14.38B
2008	\$4.27B	\$9.55B	\$13.82B
2009	\$3.90B	\$8.19B	\$12.09B
2010	\$3.90B	\$9.04B	\$12.94B
2011	\$3.85B	\$9.36B	\$13.21B
2012	\$4.25B	\$10.09B	\$14.34B
2013	\$4.41B	\$10.12B	\$14.53B
2014	\$4.74B	\$10.14B	\$14.88B
2015	\$6.26B	\$9.70B	\$15.96B
2016	\$6.89B	\$9.54B	\$16.43B
2017	\$6.48B	\$10.09B	\$16.57B

Note: All figures are in millions and are based on declared trade value and adjusted to 2000 U.S. Dollars, based on U.S. Department of Labor Statistics import and export price indices.

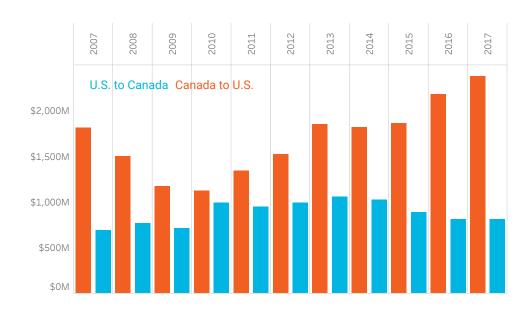
Data sources: U.S. Bureau of Transportation Statistics, U.S. Bureau of Labor Statistics Data compiled by: Whatcom Council of Governments

## TRADE VALUE BY RAIL

U.S. - CANADA, 2002 - 2017

\$000 USD adjusted for inflation

The total value of goods crossing the Cascade Gateway by a rail has increased 77% in the last fifteen years. Value increased 7% between 2016 and 2017.



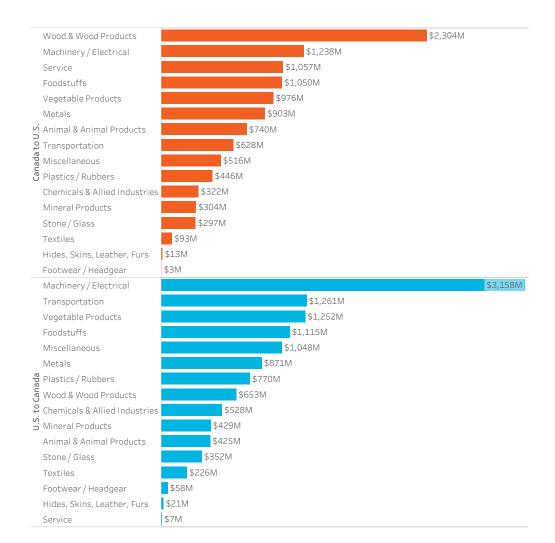
Year	Canada to U.S.	U.S. to Canada	Total
2007	\$1,810M	\$692M	\$2,502M
2008	\$1,499M	\$768M	\$2,267M
2009	\$1,177M	\$714M	\$1,891M
2010	\$1,125M	\$995M	\$2,120M
2011	\$1,341M	\$946M	\$2,286M
2012	\$1,523M	\$995M	\$2,518M
2013	\$1,849M	\$1,059M	\$2,907M
2014	\$1,815M	\$1,029M	\$2,845M
2015	\$1,860M	\$884M	\$2,744M
2016	\$2,178M	\$813M	\$2,991M
2017	\$2,379M	\$809M	\$3,188M

**Note**: All figures are in millions and are based on declared trade value and adjusted to 2000 U.S. Dollars, based on U.S. Department of Labor Statistics import and export price indices.

Data sources: U.S. Bureau of Transportation Statistics, U.S. Bureau of Labor Statistics Data compiled by: Whatcom Council of Governments

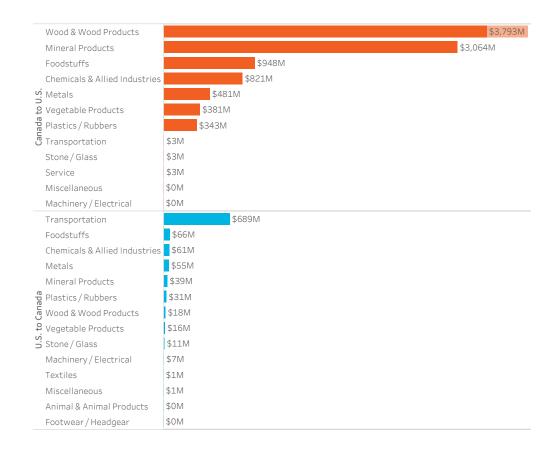
### TRUCK VALUE BY COMMODITY

#### All Cascade Gateway Ports, 2017



## **RAIL VALUE BY COMMODITY**

All Cascade Gateway Ports, 2017



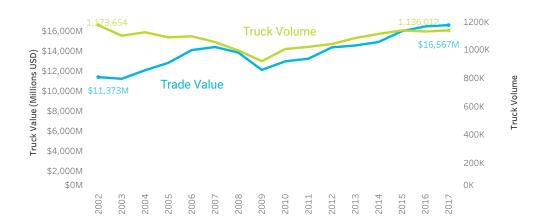
Data sources: U.S. Bureau of Transportation Statistics Data compiled by: Whatcom Council of Governments

Data sources: U.S. Bureau of Transportation Statistics Data compiled by: Whatcom Council of Governments

2019

### TRUCK VOLUMES VS. VALUE

U.S. - CANADA, 2002 - 2017



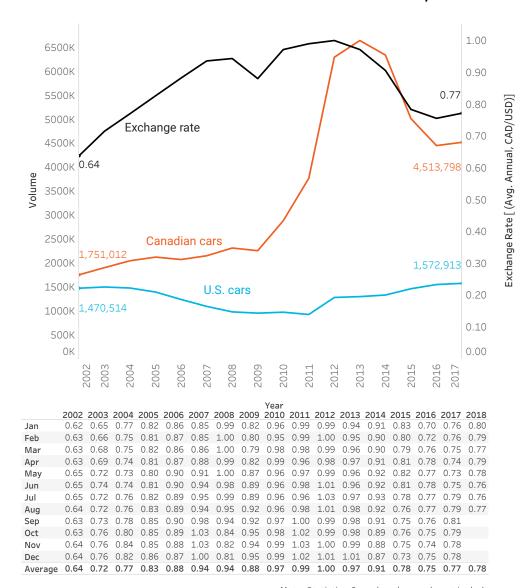
Year	Truck Volume	Value (USD)
2002	1,173,654	\$11,372,549,986
2003	1,098,472	\$11,203,523,447
2004	1,123,097	\$12,056,486,725
2005	1,086,901	\$12,799,277,889
2006	1,094,732	\$14,069,164,633
2007	1,053,416	\$14,379,657,236
2008	993,954	\$13,816,528,048
2009	918,224	\$12,089,824,287
2010	1,004,079	\$12,944,540,394
2011	1,019,740	\$13,213,660,692
2012	1,039,723	\$14,339,158,251
2013	1,082,051	\$14,526,892,493
2014	1,111,094	\$14,878,159,862
2015	1,135,795	\$15,960,876,106
2016	1,128,785	\$16,434,221,466
2017	1,136,012	\$16,567,148,109

This chart compares truck volume with trade value for all Cascade Gateway commercial ports-of-entry. Values are based on declared trade value and are adjusted to 2000 U.S. Dollars, based on U.S. Department of Labor Statistics import and export price indices. Annual truck volumes combine northbound and southbound totals.

**Data sources**: U.S. Bureau of Transportation Statistics, U.S. Bureau of Labor Statistics, U.S. Customs & Border Protection, and Canada Border Services Agency **Data compiled by**: Whatcom Council of Governments

## **EXCHANGE RATE & AUTO TRIPS**

U.S. - CANADA, 2002 - 2017

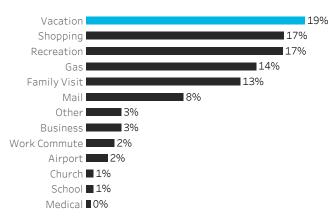


Data sources: Bank of Canada, Statistics Canada Data compiled by: Whatcom Council of Governments **Note**: Statistics Canada volumes do not include "Other" vehicles (RV, motorcycles, etc.) so volumes here are not consistent with the totals reported by Canada Border Services Agency.

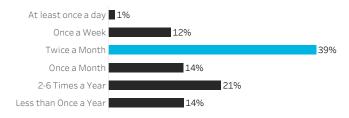
## TRAVELER CHARACTERISTICS

#### **SUMMER 2018**

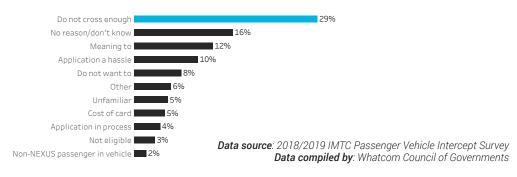
#### TRIP PURPOSE



#### TRIP FREQUENCY



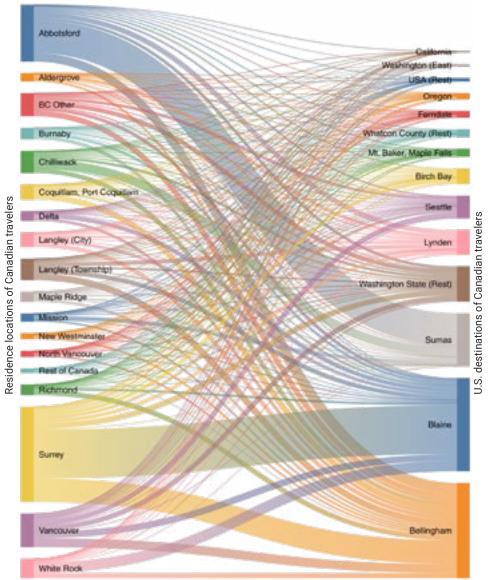
#### WHY NO NEXUS CARD?



## TRAVELER CHARACTERISTICS

**SUMMER 2018** 

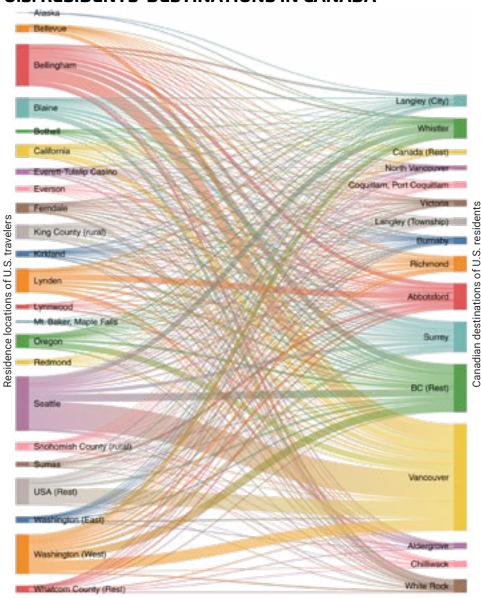
#### CANADIAN RESIDENTS' DESTINATIONS IN THE U.S.



Data source: 2018/2019 IMTC Passenger Vehicle Intercept Survey Data compiled by: Whatcom Council of Governments

## TRAVELER CHARACTERISTICS

#### **SUMMER 2018 U.S. RESIDENTS' DESTINATIONS IN CANADA**



Data source: 2018/2019 IMTC Passenger Vehicle Intercept Survey Data compiled by: Whatcom Council of Governments

## PEACE ARCH DOUGLAS



50% of vehicles crossing here use the **NEXUS** lanes





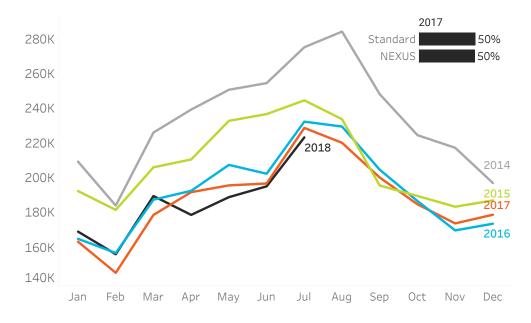






## **DOUGLAS AUTO VOLUMES**

#### **NORTHBOUND, 2014 - 2018**



		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	Standard	115,394	99,572	124,432	130,229	134,025	137,795	153,600	161,653	133,060	117,186	113,089	101,150	1,521,185
	NEXUS	93,746	84,238	101,505	108,973	116,584	116,655	121,552	122,524	114,986	107,241	104,048	95,670	1,287,722
	Total	209,140	183,810	225,937	239,202	250,609	254,450	275,152	284,177	248,046	224,427	217,137	196,820	2,808,907
ın	NEXUS	92,452	88,742	100,431	103,132	113,300	112,827	108,858	103,444	92,327	93,513	91,918	94,041	1,194,985
2015	Standard	99,719	92,574	105,444	107,285	119,386	123,746	135,656	130,173	103,023	95,832	91,206	92,733	1,296,777
14	Total	192,171	181,316	205,875	210,417	232,686	236,573	244,514	233,617	195,350	189,345	183,124	186,774	2,491,762
9	Standard	82,962	79,275	96,975	97,411	105,991	104,769	131,094	125,628	108,792	93,125	84,945	86,833	1,197,800
2016	NEXUS	81,652	77,192	90,228	94,896	101,283	97,405	101,120	103,757	95,666	93,280	84,527	86,494	1,107,500
14	Total	164,614	156,467	187,203	192,307	207,274	202,174	232,214	229,385	204,458	186,405	169,472	173,327	2,305,300
_	NEXUS	85,427	72,902	88,871	94,837	98,177	96,085	101,962	98,344	97,730	96,245	91,847	94,037	1,116,464
2017	Standard	77,510	72,095	89,544	96,707	97,271	100,453	126,646	121,663	102,231	88,299	81,653	84,488	1,138,560
.,	Total	162,937	144,997	178,415	191,544	195,448	196,538	228,608	220,007	199,961	184,544	173,500	178,525	2,255,024
	Standard	78,749	73,128	94,213	100,254	111,142	101,897	121,344						680,727
2018	NEXUS	90,009	82,611	95,076	78,174	77,516	92,992	101,789						618,167
	Total	168,758	155,739	189,289	178,428	188,658	194,889	223,133						1,298,894

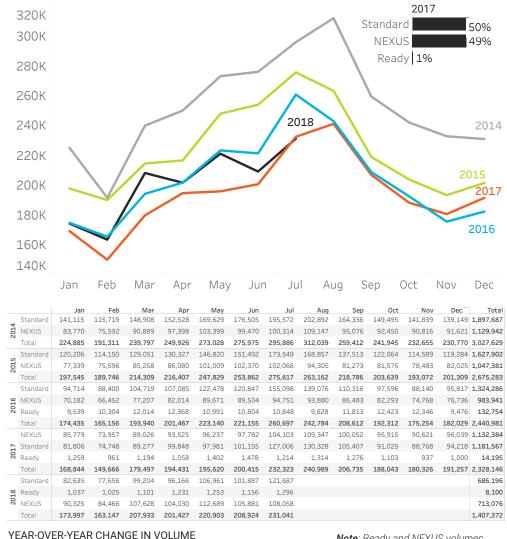
#### YEAR-OVER-YEAR CHANGE IN VOLUME



Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

## PEACE ARCH AUTO VOLUMES

**SOUTHBOUND, 2014 - 2018** 



2014 2015 2016 2017 9% -12% -5%

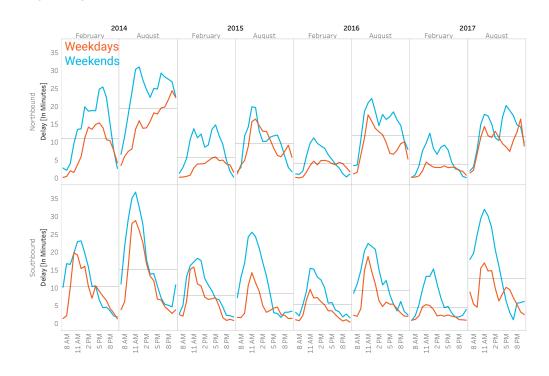
Note: Ready and NEXUS volumes are estimated based on percentage of vehicles in Ready booth using a NEXUS card for identification and volumes of total Ready booth vehicles.

39

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

## **PEACE ARCH - DOUGLAS BORDER WAIT TIMES**

2014-2017



Notes: Figures are estimates and may be affected by construction or other factors. Gray line shows average delay for weekend and weekday days for that month and year.

**Data sources**: Cascade Gateway Border Data Warehouse, <u>www.cascadegatewaydata.com</u> Data compiled by: Whatcom Council of Governments

## **PACIFIC HIGHWAY**

2nd busiest bus crossing on the U.S. -Canada border









\$37 million (USD) of goods cross this port every day

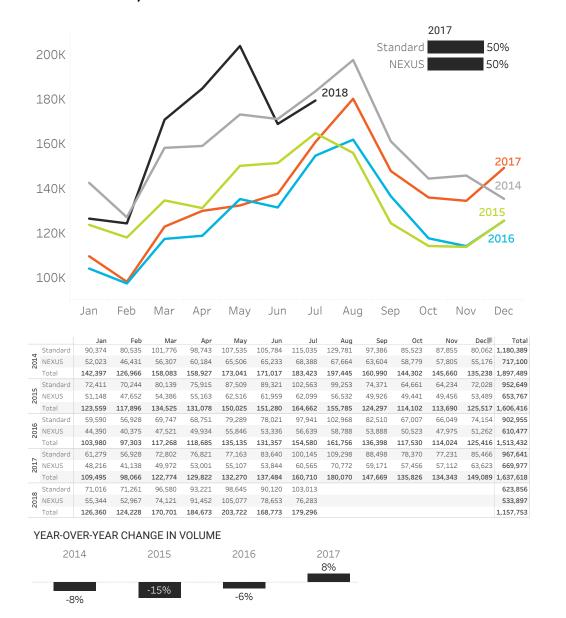


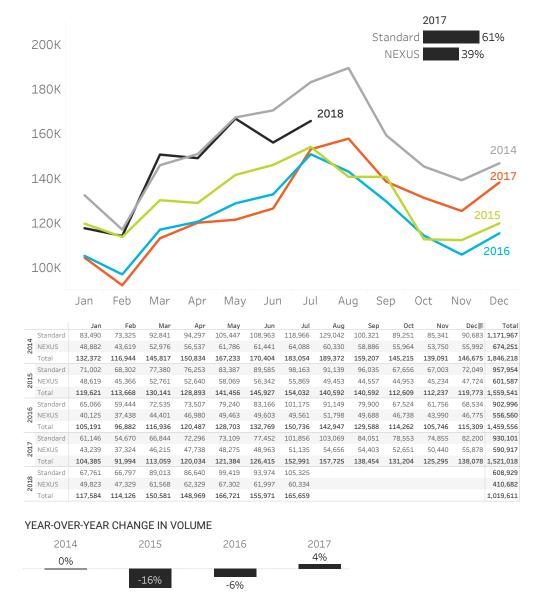
## PACIFIC HWY AUTO VOLUMES

**NORTHBOUND, 2014 - 2018** 

## **PACIFIC HWY AUTO VOLUMES**

**SOUTHBOUND, 2014 - 2018** 





Data Sourc

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

**Data sources**: Canada Border Services Agency **Data compiled by**: Whatcom Council of Governments

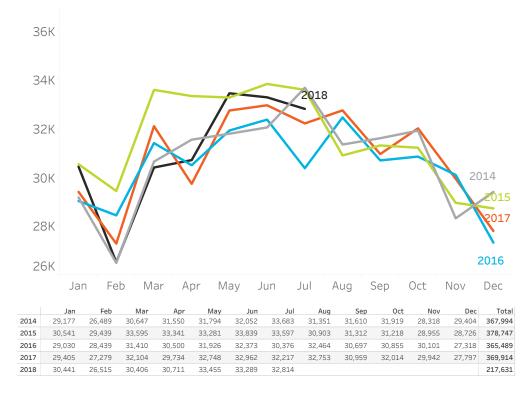
## **PACIFIC HWY TRUCK VOLUMES**

**NORTHBOUND, 2014 - 2018** 

## PACIFIC HWY TRUCK VOLUMES

**SOUTHBOUND, 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME



Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

2016

2017

1%

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

2014

4%

2015

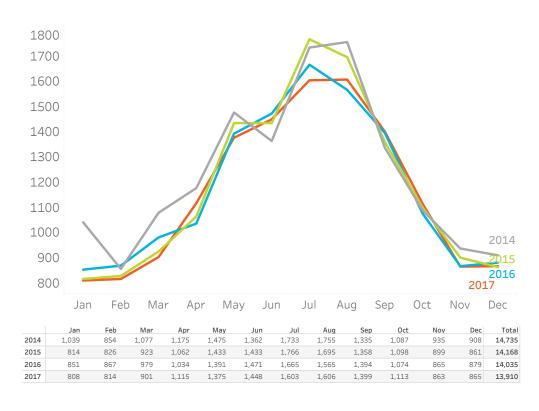
2%

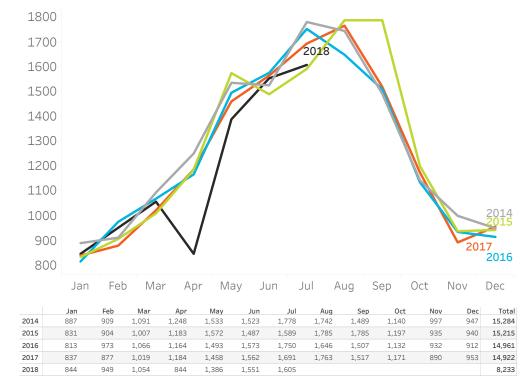
## **PACIFIC HWY BUS VOLUMES**

#### **NORTHBOUND, 2014 - 2018**

## **PACIFIC HWY BUS VOLUMES**

**SOUTHBOUND, 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME



#### YEAR-OVER-YEAR CHANGE IN VOLUME

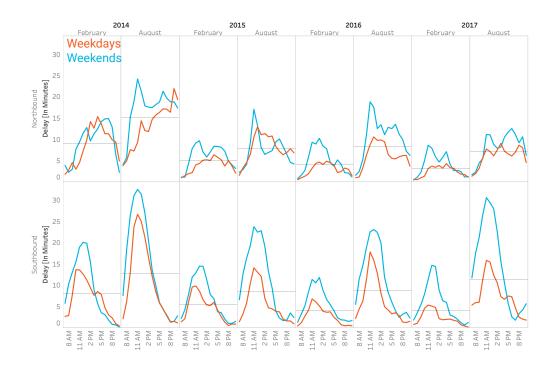
2014	2015	2016	2017
1%			
	-4%	-1%	-1%

Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

## **PACIFIC HIGHWAY BORDER WAIT TIMES**

2014-2017



Notes: Figures are estimates and may be affected by construction or other factors. Gray line shows average delay for weekend and weekday days for that month and year.

**Data sources**: Cascade Gateway Border Data Warehouse, <u>www.cascadegatewaydata.com</u> Data compiled by: Whatcom Council of Governments

## LYNDEN ALDERGROVE

Over 75% of passenger vehicle drivers cross at least once a month





68% of southbound trucks crossing the border are empty





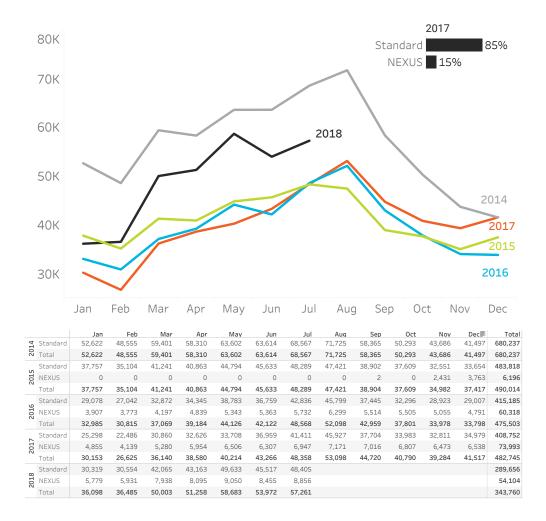


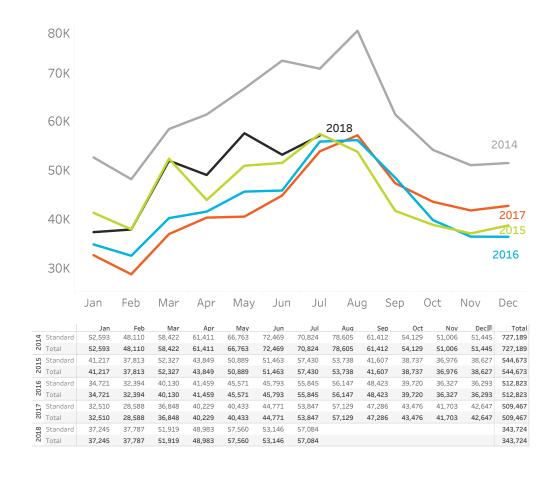
## **ALDERGROVE AUTO VOLUMES**

NORTHBOUND, 2014 - 2018

## LYNDEN AUTO VOLUMES

**SOUTHBOUND, 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME



Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

#### YEAR-OVER-YEAR CHANGE IN VOLUME



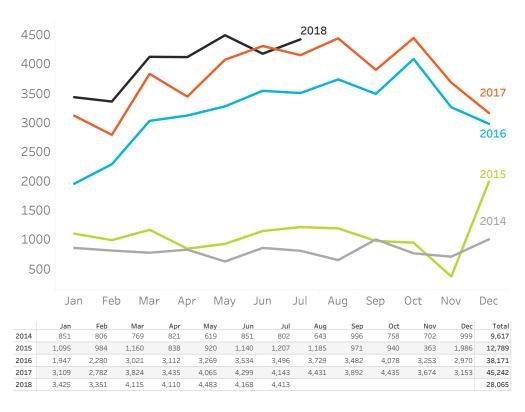
Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

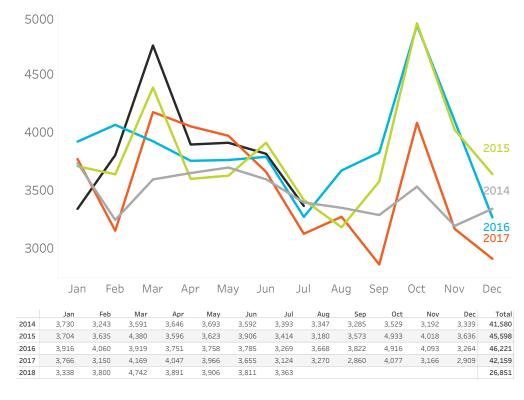
## **ALDERGROVE TRUCK VOLUMES**

**NORTHBOUND, 2014 - 2018** 

## LYNDEN TRUCK VOLUMES

**SOUTHBOUND, 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME

2014	2015	2016	2017
		198%	
-29%	33%		19%

#### YEAR-OVER-YEAR CHANGE IN VOLUME

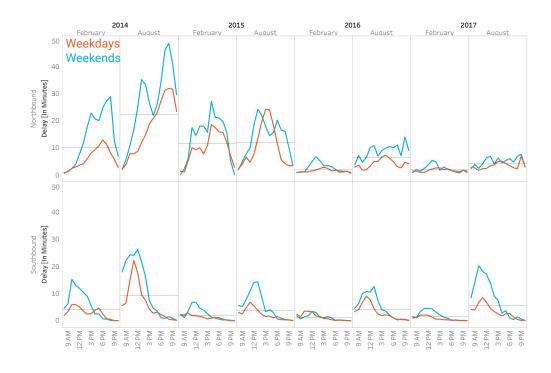


Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

## LYNDEN - ALDERGROVE **BORDER WAIT TIMES**

2014-2017



Notes: Figures are estimates and may be affected by construction or other factors. Gray line shows average delay for weekend and weekday days for that month and year.

**Data sources**: Cascade Gateway Border Data Warehouse, <u>www.cascadegatewaydata.com</u> Data compiled by: Whatcom Council of Governments

## ABBOTSFORD-HUNTINGDON **SUMAS**

2nd busiest pedestrian crossing on the U.S. - Canada border

vehicle crossing on

Almost \$3 billion (USD) of goods crossed this port in 2017







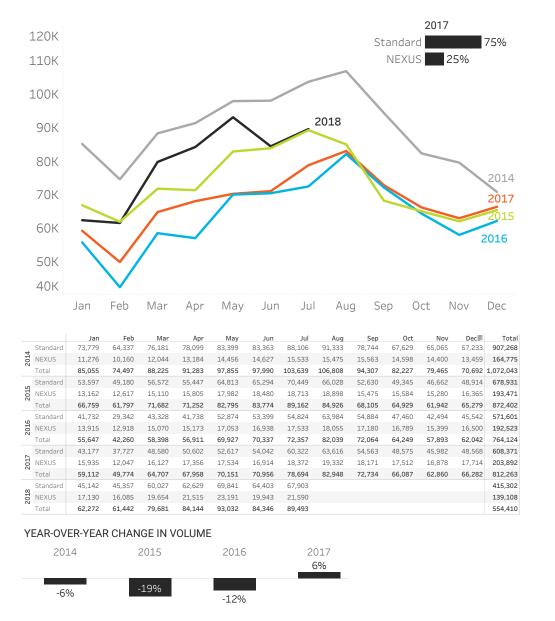


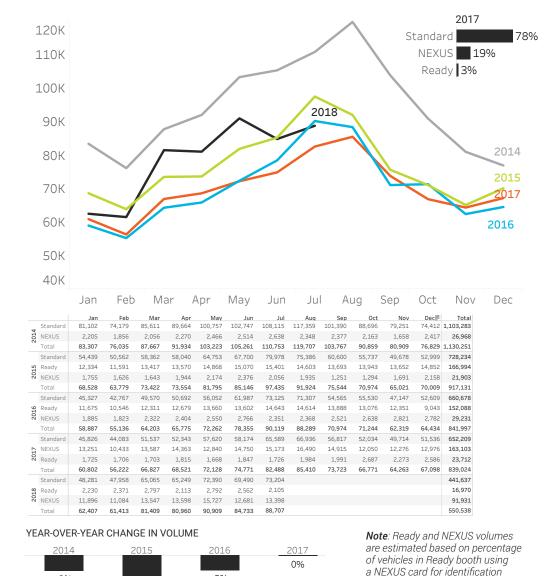
## **ABB.-HUNT. AUTO VOLUMES**

**NORTHBOUND, 2014 - 2018** 

## **SUMAS AUTO VOLUMES**

**SOUTHBOUND, 2014 - 2018** 





Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

-8%

2019

-8%

and volumes of total Ready booth

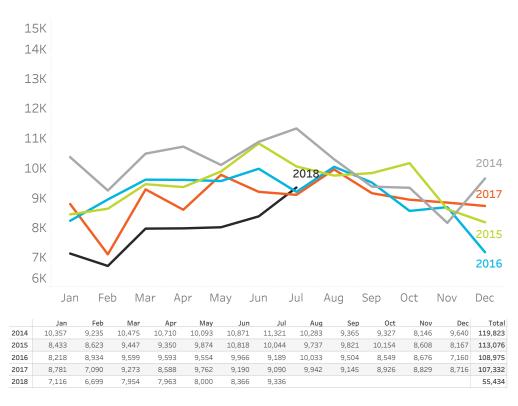
vehicles.

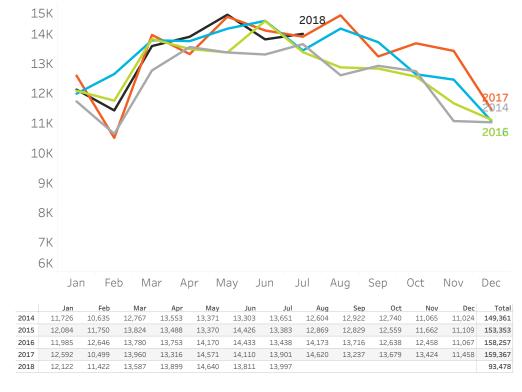
## **ABB.-HUNT. TRUCK VOLUMES**

#### **NORTHBOUND, 2014 - 2018**

## **SUMAS TRUCK VOLUMES**

**SOUTHBOUND, 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME

2014	2015	2016	2017
-1%			
-1%			-2%
	-6%	_10/2	

#### YEAR-OVER-YEAR CHANGE IN VOLUME



Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

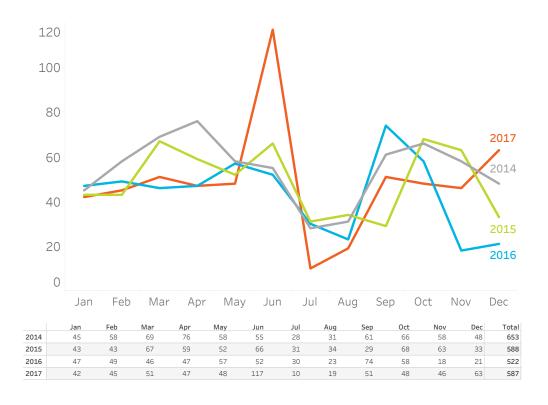
Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

## **ABB.-HUNT. BUS VOLUMES**

#### **NORTHBOUND, 2014 - 2018**

## **SUMAS BUS VOLUMES**

**SOUTHBOUND, 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME



#### YEAR-OVER-YEAR CHANGE IN VOLUME

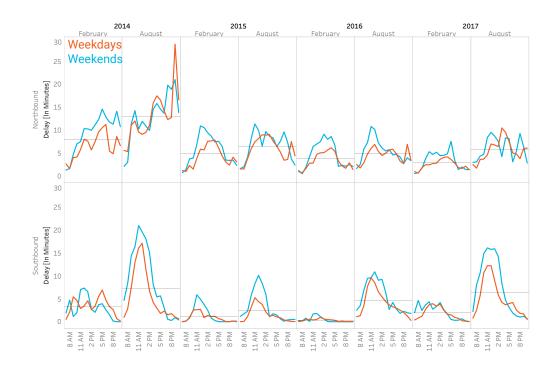


Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

## **ABB.-HUNT. - SUMAS BORDER WAIT TIMES**

2014-2017



**Notes**: Figures are estimates and may be affected by construction or other factors. Gray line shows average delay for weekend and weekday days for that month and year.

**Data sources**: Cascade Gateway Border Data Warehouse, <u>www.cascadegatewaydata.com</u> Data compiled by: Whatcom Council of Governments

## **BOUNDARY BAY** PT. ROBERTS



3rd busiest pedestrian crossing on the U.S. -Canada border



44% of travelers cross at least once a week



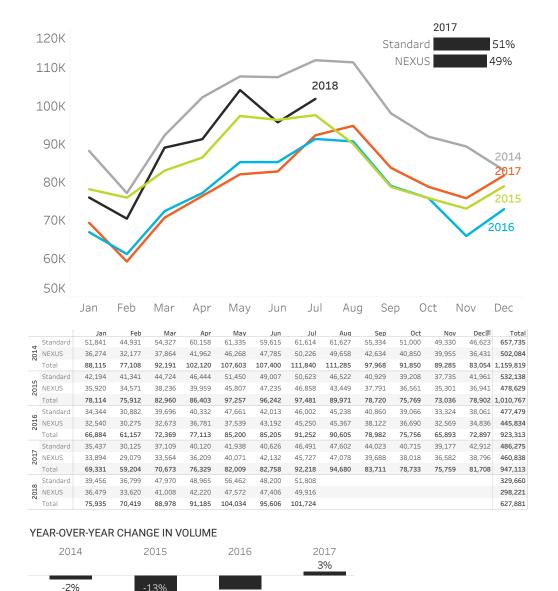


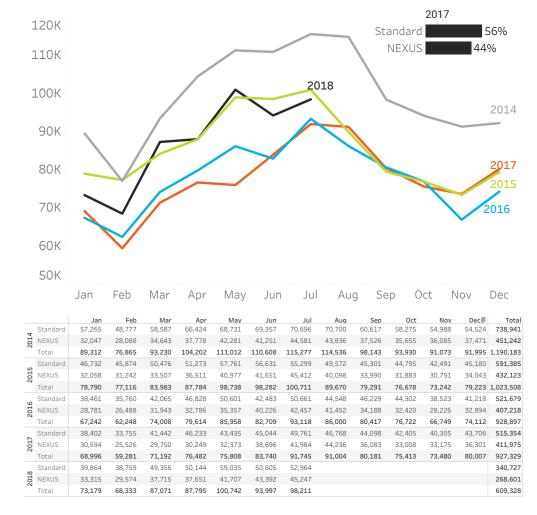
## **BOUNDARY BAY AUTO VOLUMES**

**NORTHBOUND. 2014 - 2018** 

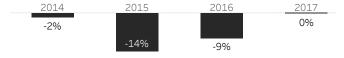
## PT. ROBERTS AUTO VOLUMES

**SOUTHBOUND. 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME



Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

-13%

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

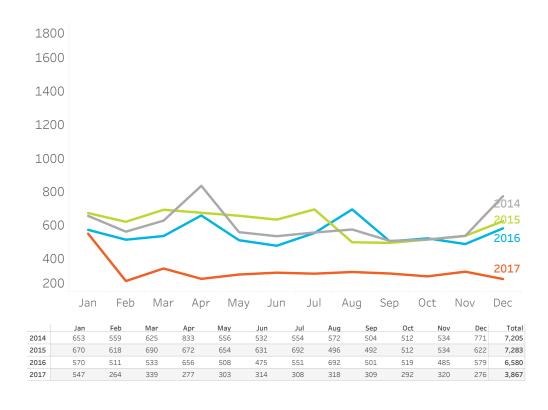
2019

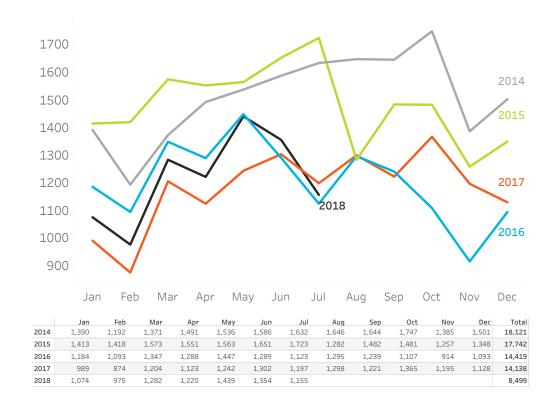
## **BOUNDARY BAY TRUCK VOLUMES**

#### **NORTHBOUND, 2014 - 2018**

## PT. ROBERTS TRUCK VOLUMES

**SOUTHBOUND, 2014 - 2018** 





#### YEAR-OVER-YEAR CHANGE IN VOLUME

	2014	2015	2016	2017
	5%	1%		
•			-10%	-41%

#### YEAR-OVER-YEAR CHANGE IN VOLUME



Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

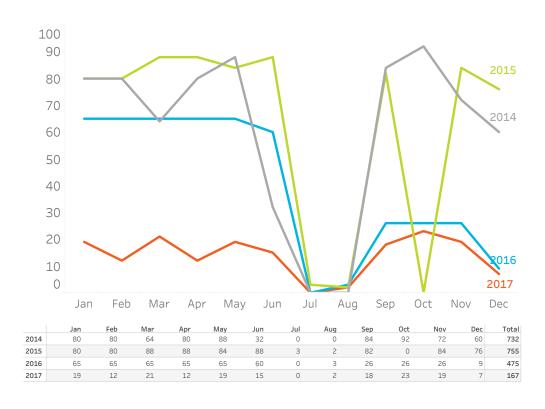
Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

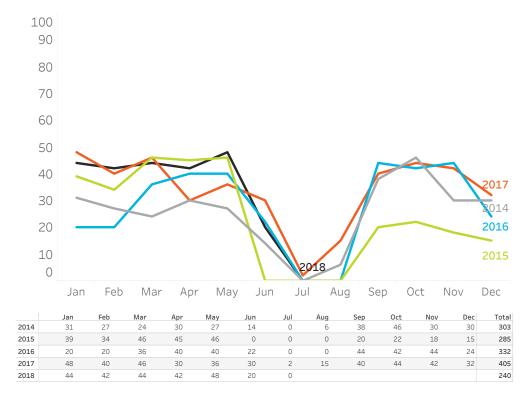
## **BOUNDARY BAY BUS VOLUMES**

**NORTHBOUND, 2014 - 2018** 

## PT. ROBERTS BUS VOLUMES

**SOUTHBOUND, 2014 - 2018** 

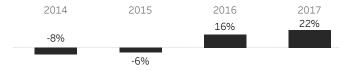




#### YEAR-OVER-YEAR CHANGE IN VOLUME



#### YEAR-OVER-YEAR CHANGE IN VOLUME



Data sources: Canada Border Services Agency Data compiled by: Whatcom Council of Governments

Data sources: U.S. Customs & Border Protection Data compiled by: Whatcom Council of Governments

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www.TheIMTC.com

