

2015 Annual Traffic Report

March 21, 2016



Objectives of Annual Traffic Report

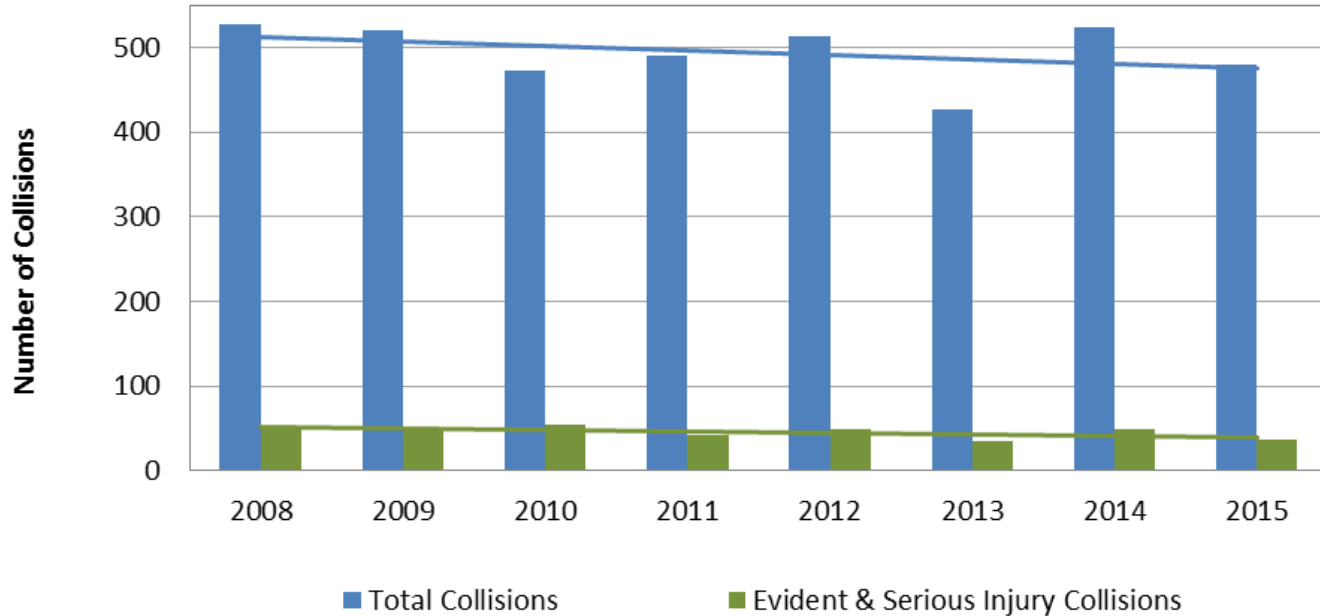
- Provide an overview of collision and traffic data collected in Shoreline.
- Improve traffic safety in the City of Shoreline by identifying collision trends and high accident locations – develop mitigation strategies.
- Use to prioritize improvement and enforcement resources and to identify TIP/CIP projects.



Shoreline Collision Statistics

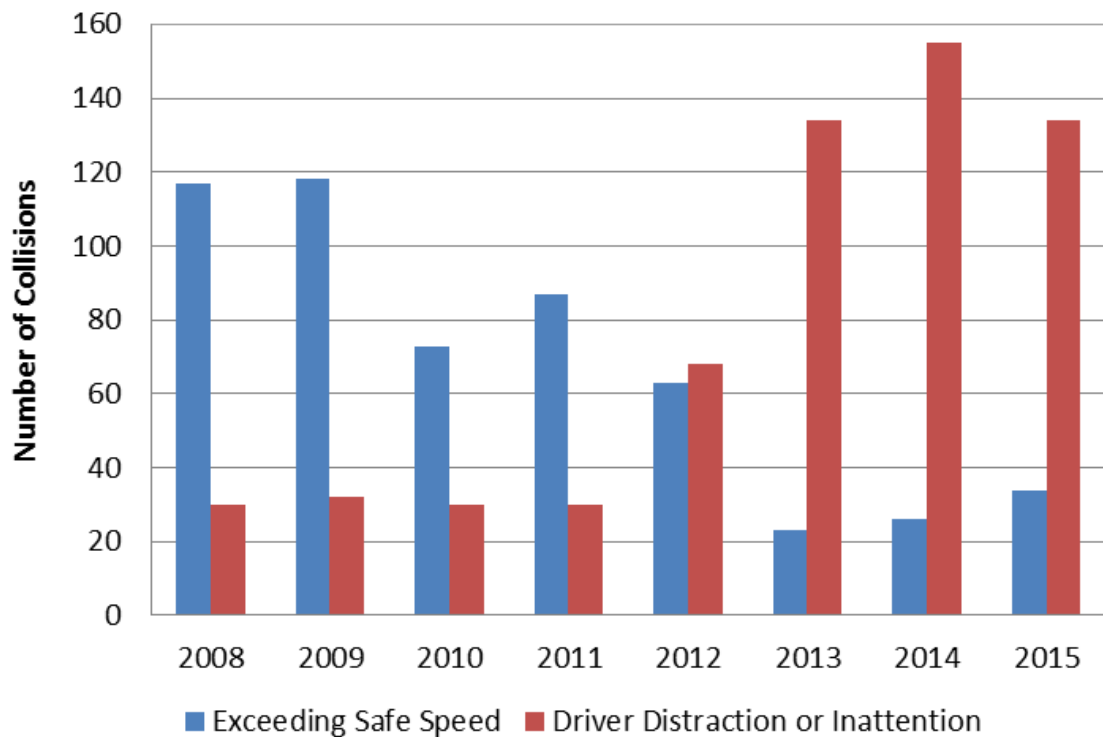
	2008	2009	2010	2011	2012	2013	2014	2015
Property Damage	340	321	292	306	318	265	322	310
Possible Injury	100	122	101	109	106	99	118	124
Evident Injury	42	39	49	33	43	26	38	28
Serious Injury	9	11	5	9	5	9	11	8
Fatal	0	1	2	1	1	1	1	1
Unknown	37	26	24	32	40	26	33	9
Total	528	520	473	490	513	426	523	480

Injury & Total Collisions by Year

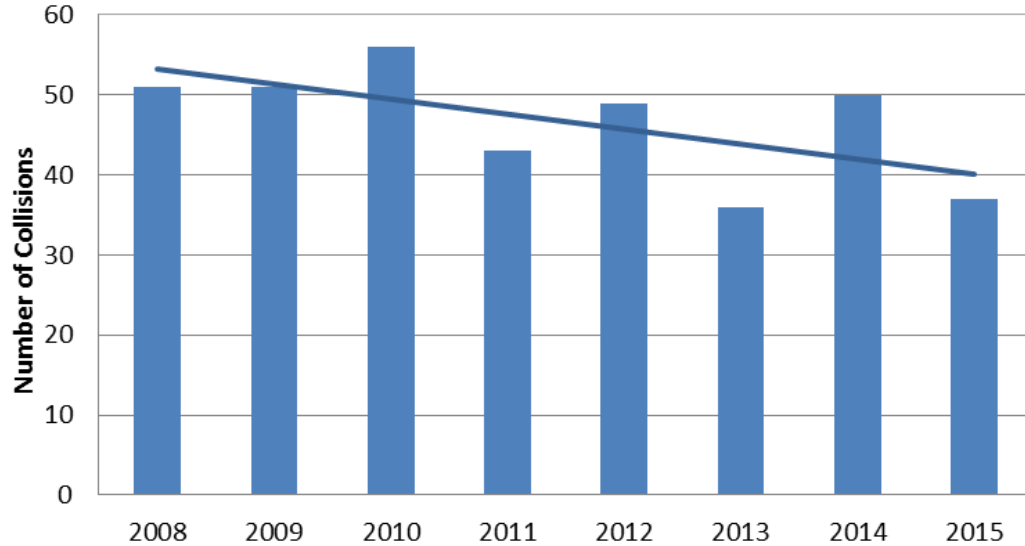


Contributing Circumstance

Exceeding Safe Speed & Driver Distraction or Inattention



Injury Collisions

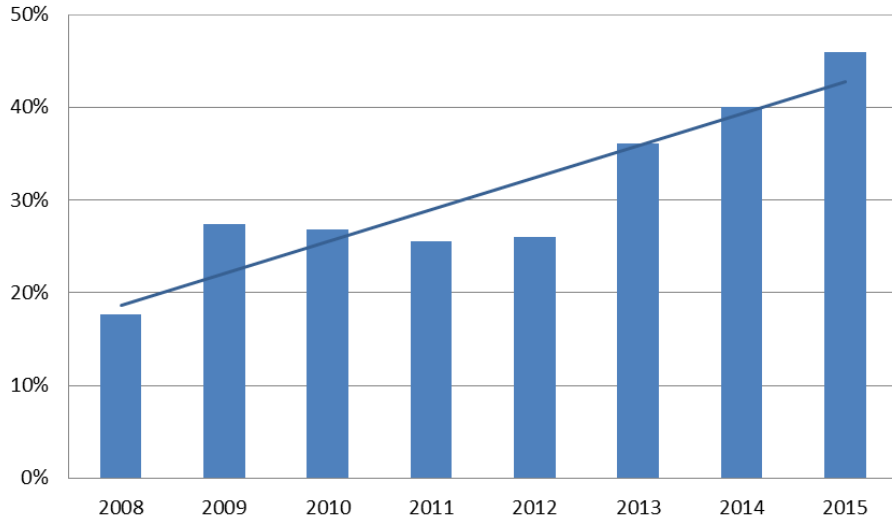


* Includes fatal, serious injury, and evident injury collisions

	Serious Injury Rate per 10,000 Population	Fatal Injury Rate per 10,000 Population
Statewide (2013)	2.78	0.63
King County (2013)	2.64	0.39
Shoreline (2015)	1.48	0.18

Pedestrian & Bicycle Injury Collisions

(as a percentage of overall injury collisions)



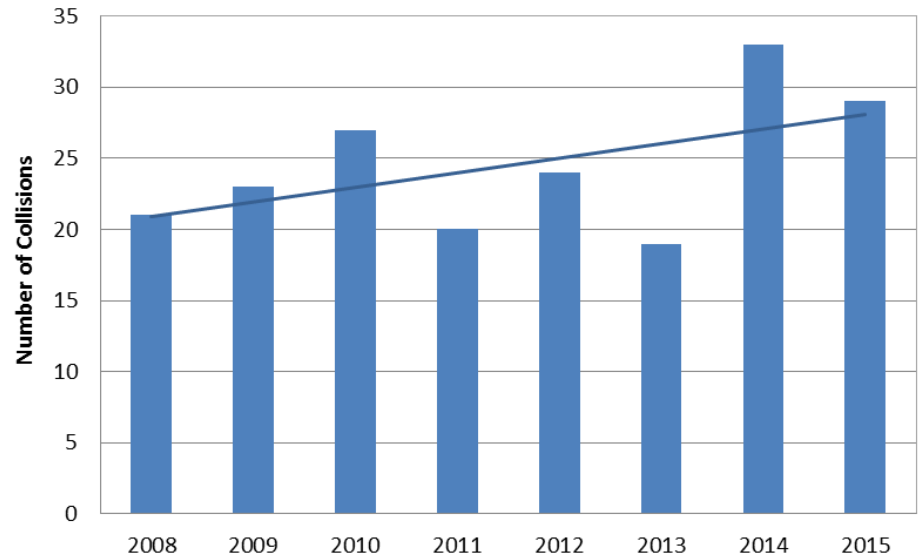
* Includes fatal, serious injury, and evident injury collisions only

← Percent of injury collisions that are bike & pedestrian related on the rise

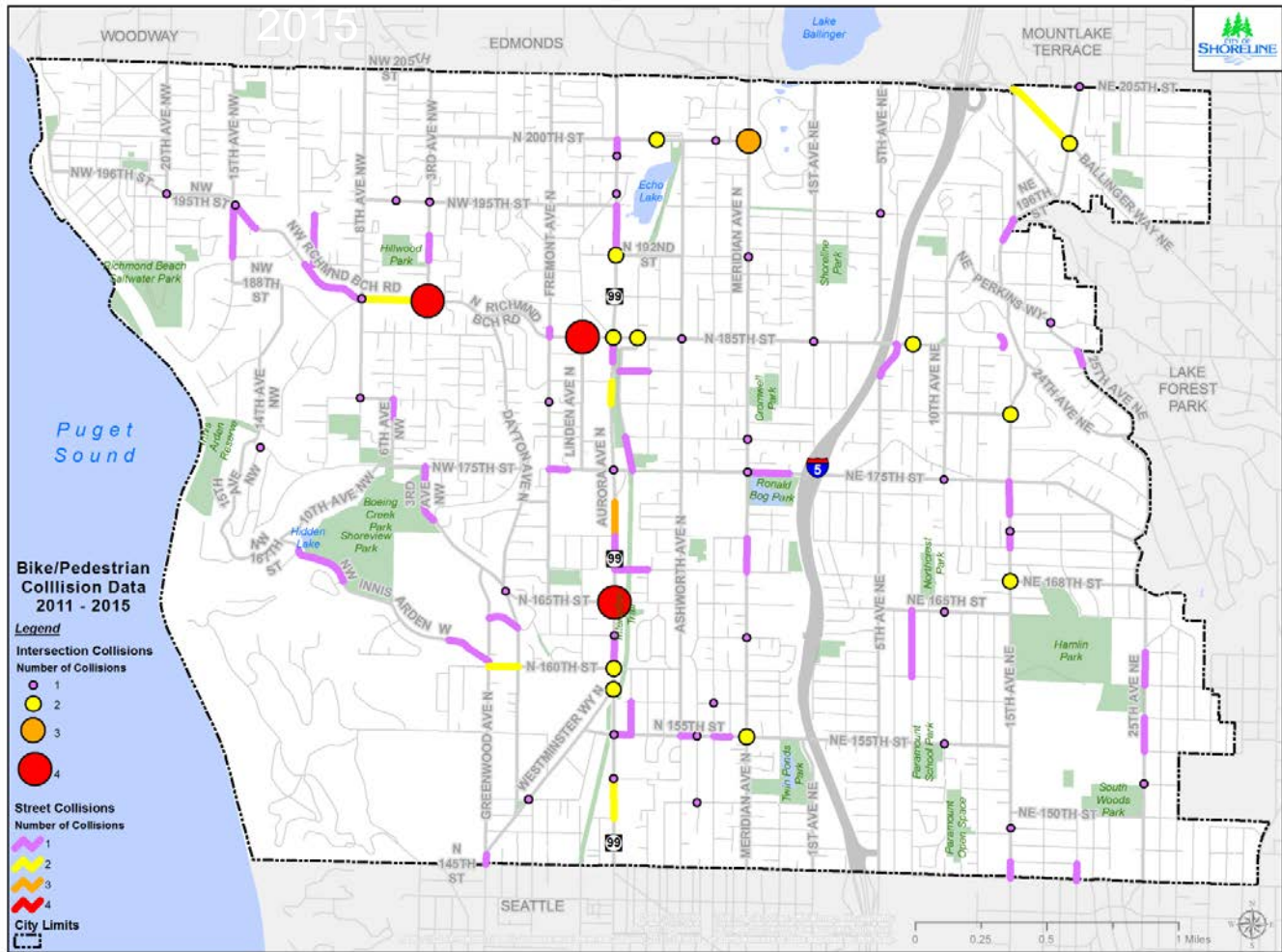
Total number of bike & pedestrian collisions also on the rise. →



Pedestrian & Bicycle Collisions



Pedestrian & Bike Collisions 2011-



The Three E's

Engineering

Traffic Control
Devices

Roadway Design and
Maintenance

CIP Projects

Enforcement

Collision Investigation

Targeted Enforcement

Education

Community Meetings

Educational Flyers

Website



High Collision Location Intersections

Rank	Location	Total Collisions	Injury Collisions	% Change from 2014 Report	Collision Rate
1	Aurora Ave N & N 163rd St	26	1	117%	0.62
2	3rd Ave NW & Richmond Bch Rd	20	3	18%	0.89
3	Aurora Ave N & N 200th St	15	0	7%	0.35
4	15th Ave NE & Ballinger Way	14	0	100%	0.35
5	19th Ave NE & Ballinger Way NE	13	1	0%	0.45
6	Aurora Ave N & N 160th St	13	1	160%	0.29
7	Aurora Ave N & N 175th St	13	1	18%	0.22
8	Aurora Ave N & N 185th St	12	1	50%	0.24
9	Aurora Ave N & N 155th St	11	1	38%	0.20
10	Linden Ave N & N 185th St	10	1	11%	0.58

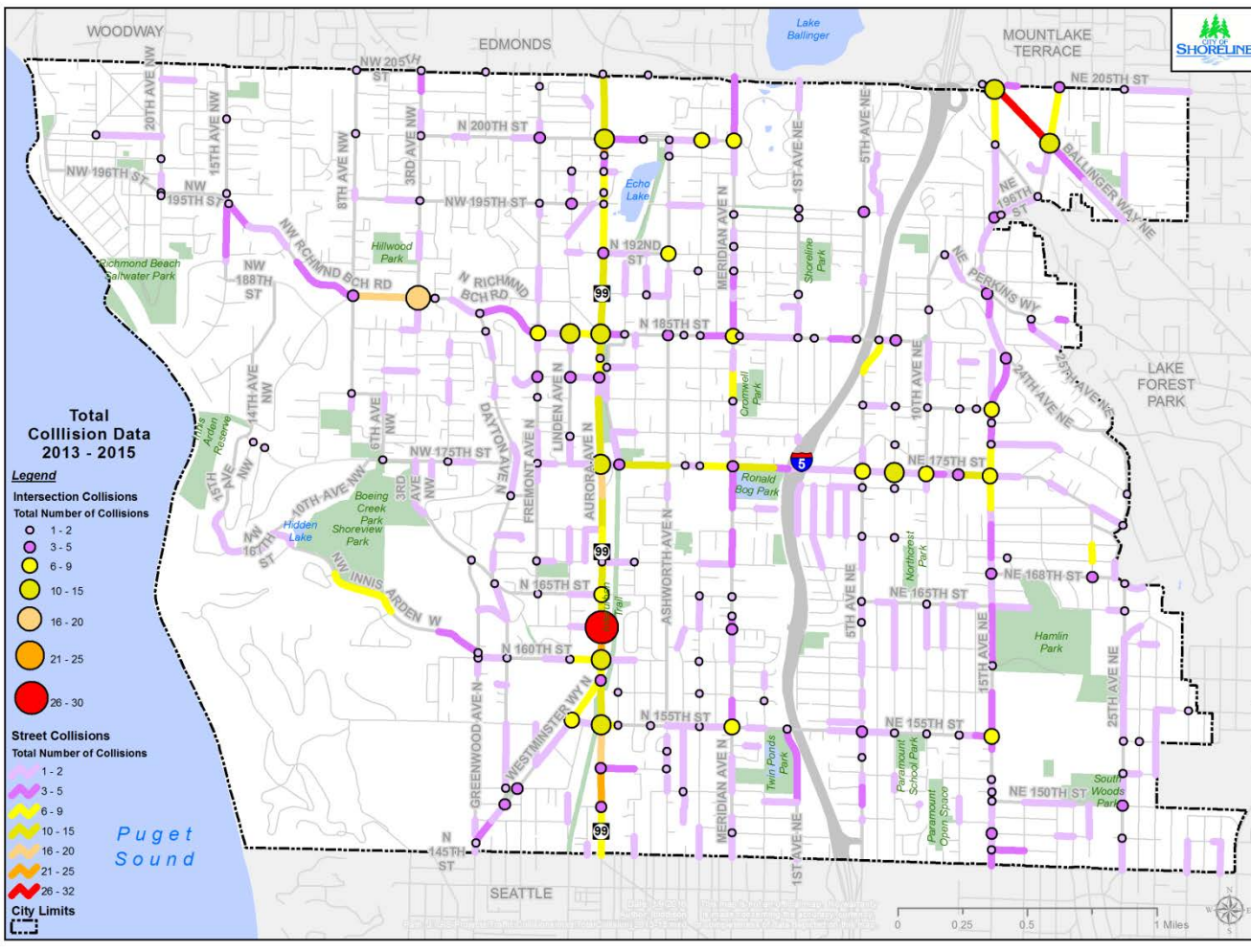


High Collision Location Segments

Rank	Location	Total Collisions	% Change from 2014 Report	Injury Collisions	Collision Rate
1	Ballinger Way NE from 19th Ave NE to 15th Ave NE	32	-20%	1	4.56
2	Aurora Ave N from N 149th St to N 152nd St	22	22%	3	3.87
3	Aurora Ave N from N 160th St to N 163rd St	22	-8%	1	4.80
4	Aurora Ave N from N 199th St to N 200th St	21	-13%	0	9.64
5	Aurora Ave N from N 152nd St to N 155th St	18	-18%	0	2.74
6	Aurora Ave N from Ronald PI N to N 175th St	18	13%	1	5.23
7	NW Richmond Bch Rd from 3rd Ave NW to 8th Ave NW	16	33%	1	3.88
8	Aurora Ave N from N 175th St to Ronald PI N	15	-6%	2	1.65
9	N 175th St from Meridian Ave N to Corliss Ave N	15	0%	1	2.72
10	Aurora Ave N from N 170th St to Ronald PI N	14	-22%	2	2.11

High Ped and Bike Collision Locations

Location	Signalized	Pedestrian & Bicycle Collisions
3rd Ave NW & NW Richmond Bch Rd	Yes	4
Linden Ave N & N 185th St	Yes	4
Aurora Ave N & N 165 th St	Yes	4
Aurora Ave N from N 170th St to Ronald PI N	No	3
Meridian Ave N & N 200 th St	Yes	3



**Total Collision Data
2013 - 2015**

Legend

Intersection Collisions

Total Number of Collisions

- 1 - 2
- 3 - 5
- 6 - 9
- 10 - 15
- 16 - 20
- 21 - 25
- 26 - 30

Street Collisions

Total Number of Collisions

- 1 - 2
- 3 - 5
- 6 - 9
- 10 - 15
- 16 - 20
- 21 - 25
- 26 - 32

City Limits

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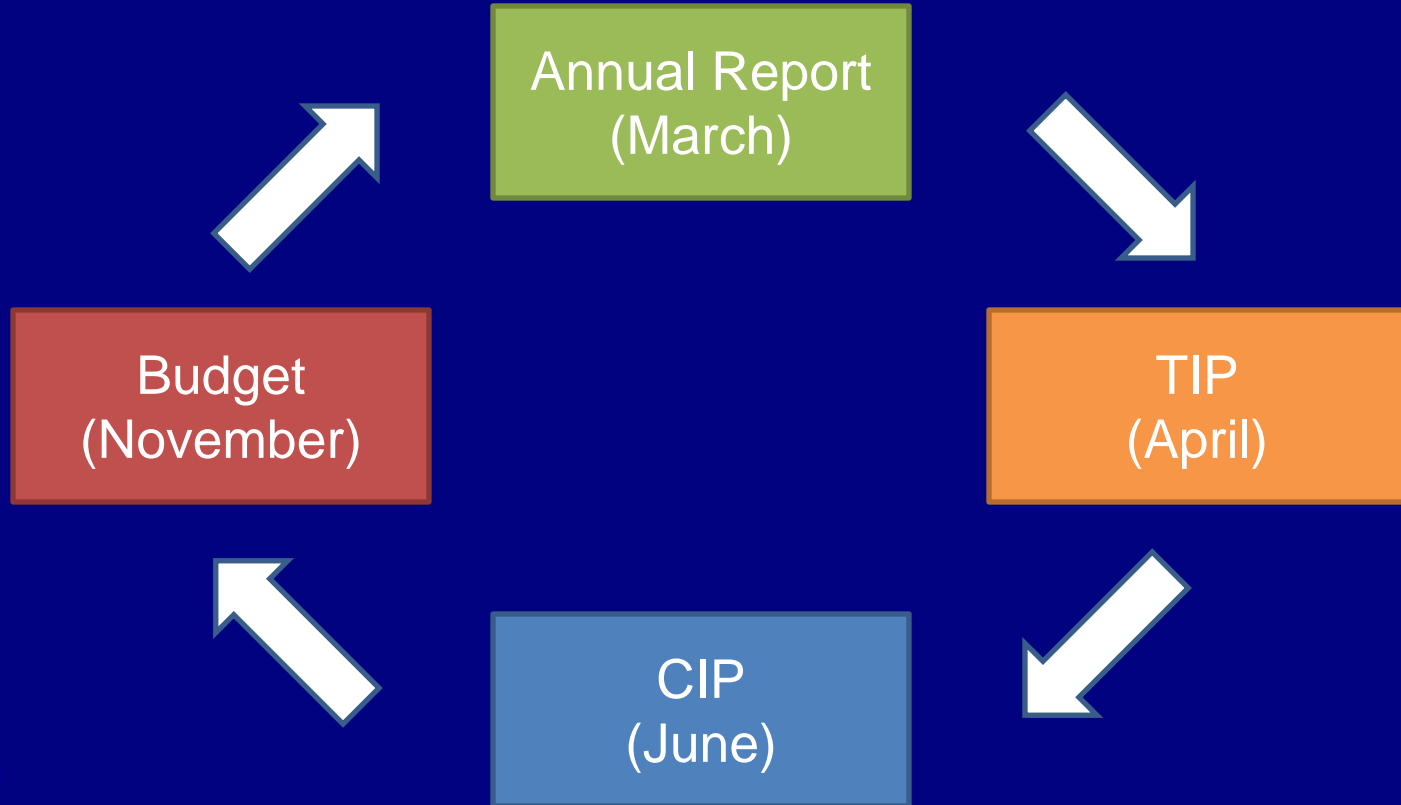
Puget Sound



Next Steps - Engineering

- Engineering recommendations made in the Annual Traffic Report for High Collision Locations will be implemented in 2016 or as part of future CIP projects.
- Some examples of 2016 engineering recommendations are:
 - Signal timing changes
 - Speeding, distracted driving and jaywalking enforcement
 - Pedestrian signal improvements (countdown signals/APS)
 - Pursue grant funding for intersection improvements

Next Steps - Engineering



Implemented Recommendations

- All way stop control installed at Ashworth and 192nd.



Video.mp4

- Signal phase changes at 3rd Ave NW and Richmond Beach Road

- Flashing yellow arrow phase changes were made at Ballinger and 19th Ave NE

- Substantial completion of the third mile of Aurora.



- Pedestrian signage was installed at Meridian and 200th

Traffic Enforcement Results

YEAR	Citation	Arrest	Warning	Other	Total
2015	2533/5108	709	3812	1487	11,116
2014	1874/3659	675	2897	1459	8690
2013	1521/3413	762	2500	1204	7879



Traffic: Complaints/Abandoned

YEAR	Citizen Complaints	Abandoned Vehicle / Impounds
2015	197	172 / 41
2014	286	196 / 48
2013	112	171 / 36



Traffic Education/Safety

- School Resource Officer Greg McKinney
 - “Risky Behaviors” class 12x to HS students, approximately 360 Students
 - Driving habits, seat belt use, Impaired driving
- Community Outreach Deputy Perry
 - Speaks on traffic issues during neighborhood and public outreach meetings
 - DUI presentation at Shorewood High School, 600 attendees
- Patrol Deputy Obstler
 - Child seat fittings, 29 individuals, plus two events with multiple fittings

Moving Forward: Enforcement

- Targeted enforcement of causal behaviors and locations of concern
- Continue combination of balanced enforcement and education
- Address community traffic concerns
- Grant funded emphasis

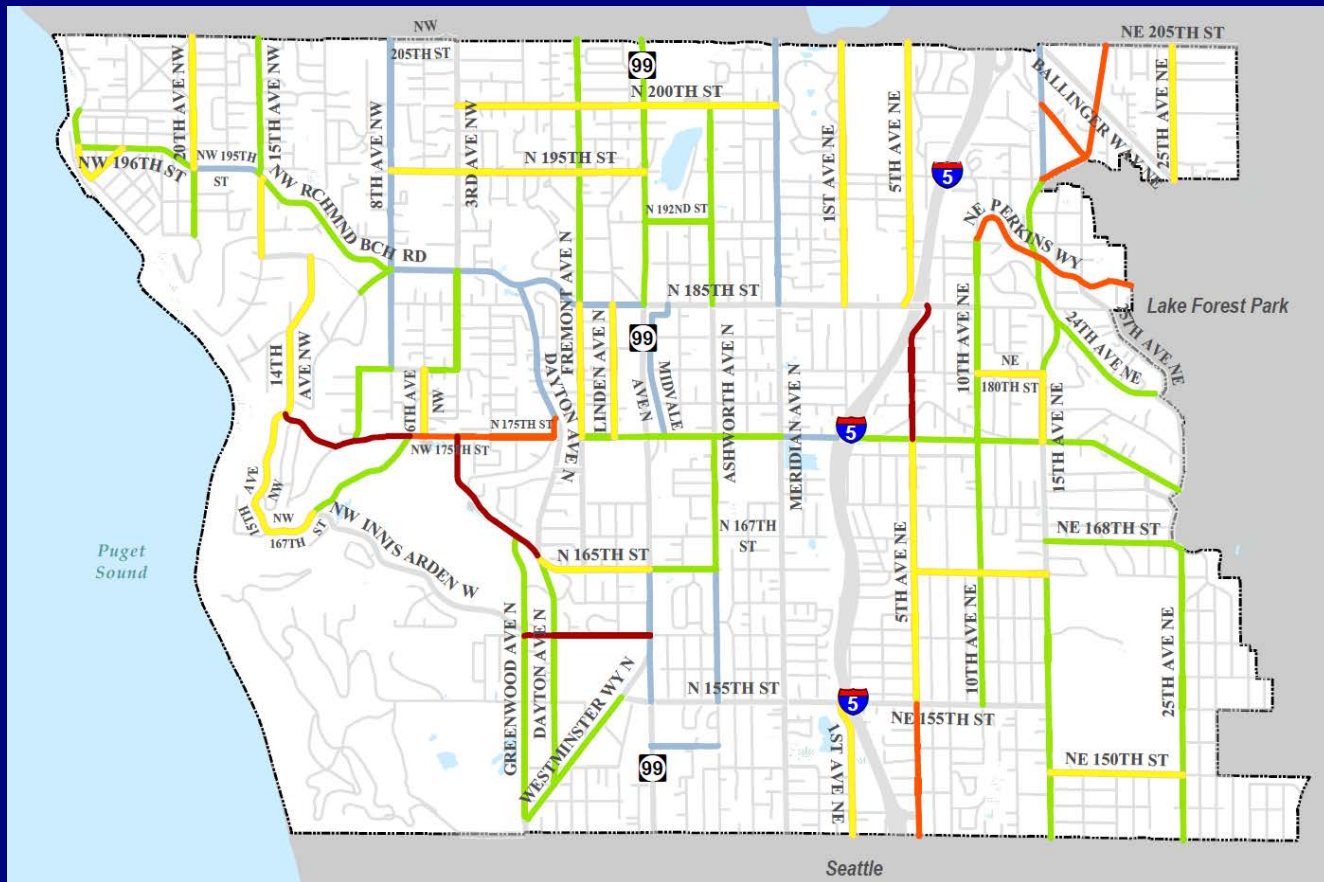
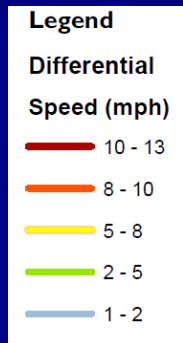
Moving Forward: Education

- Maintain frequency of traffic contacts
- Continued data-led traffic enforcement via speed differential and collision information

Next Steps - Enforcement

- Data-led traffic enforcement via speed differential and collision information
- Increase frequency of contacts

85th Percentile Speed Differential Map - 2015



Traffic Volumes

Volumes are collected at 8 key locations throughout the City, the combined total of data collected at these locations is shown below.

	2011	2012	2013	2014	2015	5 Year Average
AM Peak Aggregate AAWDT	6599	7064	7444	6935	7039	7016
PM Peak Aggregate AAWDT	9012	9314	9521	8804	8666	9063
Daily Aggregate AAWDT	105313	108025	111441	109070	107913	108352

2015 average daily volumes are down slightly, by .4% when compared to the 5-year average.

Transit

- Transit ridership is similar to last year, down slightly by -.2%

	Average Daily Transit Boardings in Shoreline	% Change
Spring 2015	8301	-.2%
Spring 2014	8318	7.3%
Spring 2013	7750	-

Questions?

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