2016 Annual Traffic Report

April 24, 2017

Presented by Kendra Dedinsky, City Traffic Engineer & Captain Abigail Steele, Shoreline PD



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.



Traffic Volumes

	2012	2013	2014	2015	2016	5 Year Average
AM Peak Aggregate AAWDT	7064	7444	6169	6399	6528	6721
PM Peak Aggregate AAWDT	9314	9521	7722	8033	8197	8857
Daily Aggregate AAWDT	108025	111441	96972	99719	101426	103517

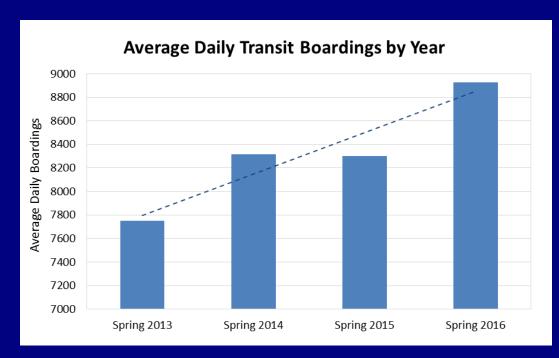
- Average Weekday Daily Traffic volumes up by 1.71%.
- AM peak volumes up by 2.04% and the
- PM peak volumes up by 2.02%.



Transit

Transit ridership is up 7.5% from 2015

	Daily Boardings in Shoreline	% Change
Spring 2016	8925	7.5%
Spring 2015	8301	2%
Spring 2014	8318	7.3%
Spring 2013	7750	-





Speed Differential Map

Differential Speed (mph)

10 - 13

8 - 10

5 - 8

2 - 5

1 - 2





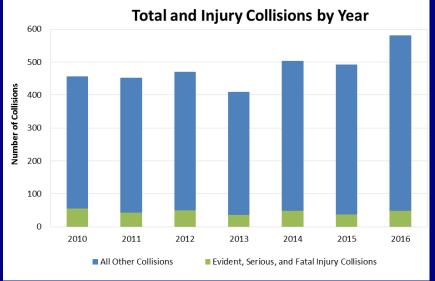
Shoreline Collision Statistics by Year

	2010	2011	2012	2013	2014	2015	2016
Fatal	2	1	1	1	1	1	0
Evident Injury	48	33	44	26	37	28	40
Serious Injury	6	9	5	9	11	8	9
Possible Injury	105	111	107	106	122	127	143
No Injury	285	290	305	263	318	320	376
Unknown	11	9	8	4	15	9	13
Total	457	453	470	409	504	493	581

 The injury collision trend remains down.

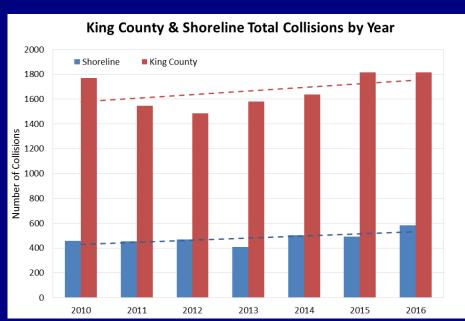


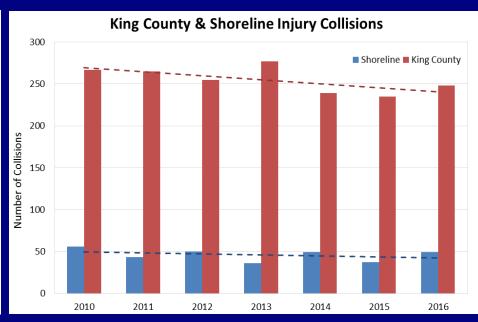
- Collisions increased for 2016 the overall collision trend is now increasing.
- Comparable to regional trends



Regional Comparison

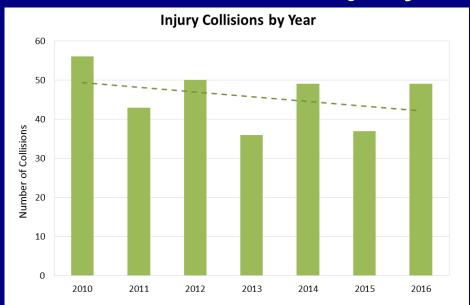
King County collision data shows a similar trend for both total and injury collisions.







Injury Collisions

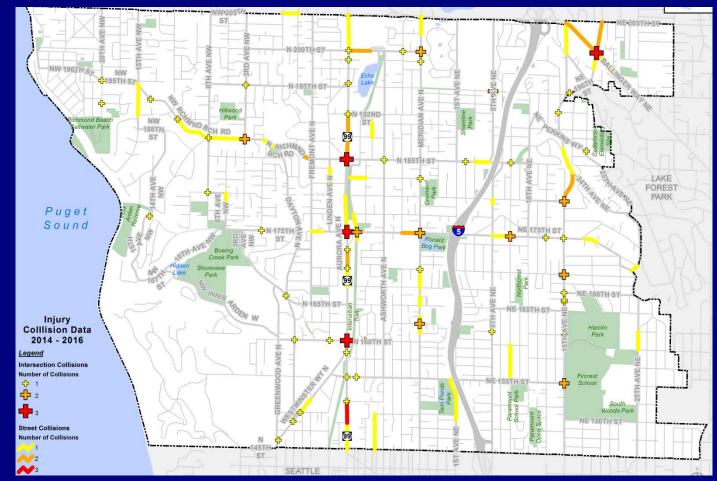


	2010	2011	2012	2013	2014	2015	2016
Fatal	2	1	1	1	1	1	0
Evident Injury	48	33	44	26	37	28	40
Serious Injury	6	9	5	9	11	8	9
Total	56	43	50	36	49	37	49

- Injury collisions up from 2015, overall trend is still down.
- Target Zero focuses on fatal and serious injury – Shoreline's rates for these types of collisions are quite low.

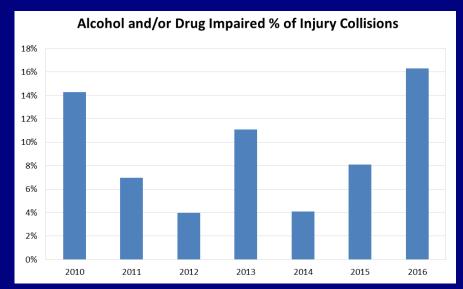
	Serious Injury Rate	Fatal Injury Rate
	per 10,000 Population	per 10,000 Population
Statewide	2.68	.71
King County	2.62	.42
Shoreline	1.64	0

Injury Collisions Map (2014-2016)





Contributing Circumstances



Driver distraction continues to be a significant factor



Of crashes involve phone distraction, according to the National Safety Council.



Increased crash risk when talking on a phone.

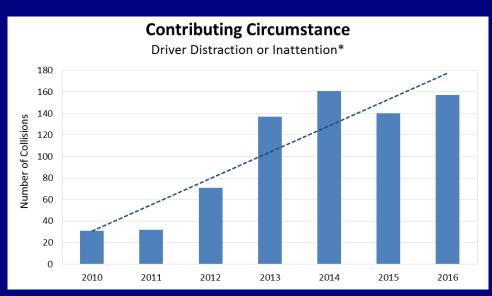


Increased crash risk when entering information into a phone.

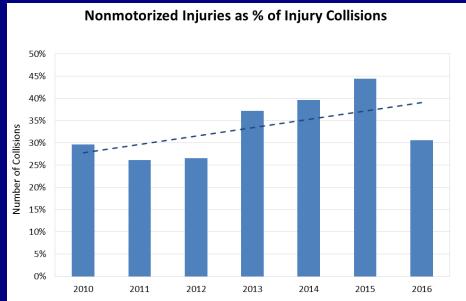


Washington drivers observed interacting with phones in a 2013 UW survey.

- Alcohol and/or drug impaired collisions accounted for a significant portion of injury collisions.
- The number of DUI's more than doubled the average of the last 3 years.



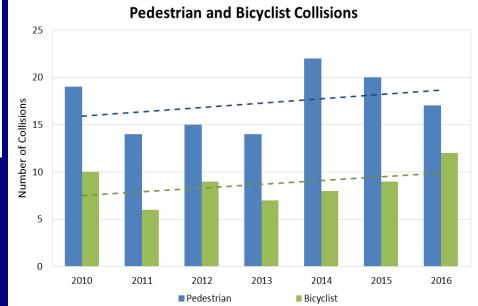
Non-motorized Collisions



Pedestrian collisions fell slightly, but bike collisions -> increased. Both still trending upward

"Pedestrian deaths spiked in 2016, distraction cited" http://www.seattletimes.com/nation-world/distraction-citied-as-pedestrian-deaths-spiked-in-2016/

Percent of injury collisions that are bike & pedestrian related dropped for 2016, but trend is still upward





Collision Reduction Strategies



Zero Fatal and Serious Injury collisions by the year 2030. Focuses on the Three E's as well as Policy and Emergency Response.

Engineering

- Traffic Control Devices
- Roadway Design and Maintenance
- CIP Projects

Enforcement

- Collision Investigation
- Targeted Enforcement

Education

- Community Meetings
- Radar Speed Signs
- Website
- Warnings

Shoreline Serious and Fatal Injury Collisions

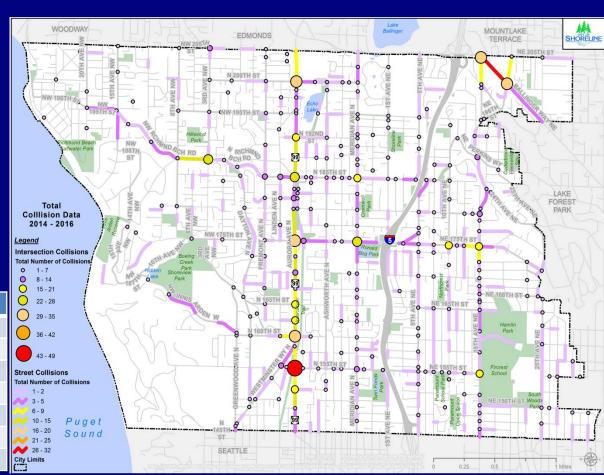


	2010	2011	2012	2013	2014	2015	2016
Fatal	2	1	1	1	1	1	0
Serious Injury	6	9	5	9	11	8	9

High Collision Locations

High Collision Intersections	Collisions
19th Ave NE/Ballinger Way NE	30
15th Ave NE/Ballinger Way NE	29
Meridian Ave N/N 175th St	27
3rd Ave NW/NW Rich Beach Rd	25
15th Ave NE/NE 175th St	17
15th Ave NE/NE 155th St	16
Meridian Ave N /N 185th St	16
10th Ave NE/NE 175th St	15
Midvale Ave N/N 175th St	14
Westminster Way N/N 155th St	12
15th Ave NE/NE 180th St	12

High Collision Segments	Collisions
Ballinger Way - 19 th NE to 15 th NE	28
Richmond Beach Rd - 3 rd to 8 th	12
N 160 th St - Linden Ave to Aurora Ave	9
19 th Ave NE - Ballinger Way to NE 205 th	7
15 th Ave NE - Forest Park Dr to Ballinger	7
15 th Ave NE - NE 172 nd to NE 175 th St	6
NE 175 th St - 12 th Ave NE to 15th Ave	6

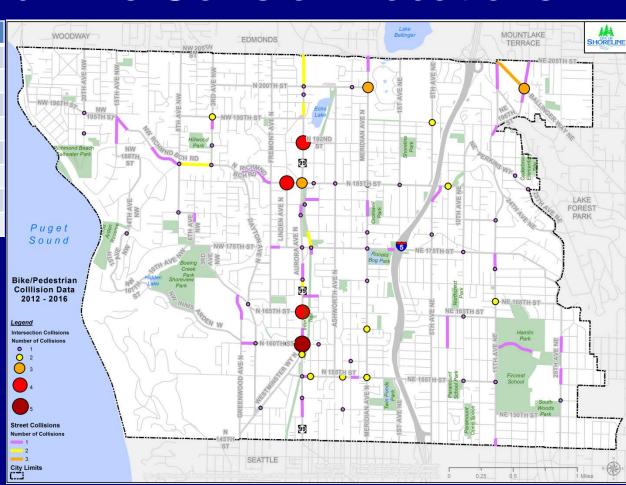


High Ped and Bike Collision Locations

Pedestrian Collision Location	Collisions
Linden Ave N & N 185th St	4
Aurora Ave N & N 192 nd St	4
Aurora Ave N & N 165th St	4
Aurora Ave N & N 160th St	3
Meridian Ave N & N 200 th St	3
19 th Ave NE & Ballinger Way	3
Aurora Ave N & N 185 th St	3
Ballinger Way - 15 th to 19 th	3

Bike Collision Location	Collisions
Aurora Ave N & N 160 th	2
Aurora Ave N & Westminster	2
Meridian Ave N & N 185 th St	2
Midvale Ave N - 175 th to 185 th	2





Next Steps - Engineering



Annual Report (April)



Budget (November)

TIP (April)





CIP (June)



Reduction Strategies Implemented in 2016

Public Works -

- Aurora signal retiming completed.
- High visibility crosswalk flags installed for 43 crossings.
- Rapid Flashing Beacons installed at 175th and Wallingford and at 155th and Wallingford.
- Public outreach including neighborhood meetings and currents articles.
- Updated Traffic Services website for easier access to Neighborhood Traffic Safety Program (NTSP) and Driver Education tools.

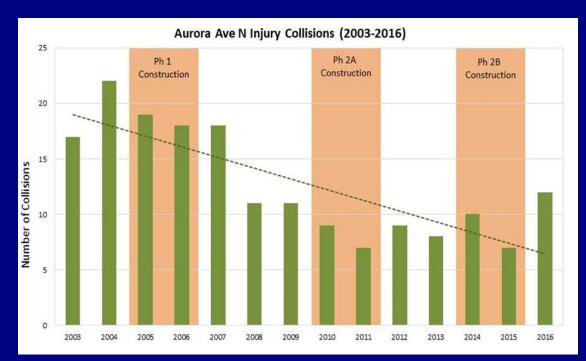
Results

- ✓ Richmond Beach Rd & 3rd Ave NW Signal Phase Changes Rate of collision reduced by 42.5%.
- ✓ Ashworth Ave N and N 192nd All Way Stop Control No collisions reported since installation of stop signs.
- ✓ Meridian Ave N and N 200th Street Pedestrian Warning Sign Installation
 - 3 pedestrian collisions in a 3 year period. No collisions reported since sign installation.



✓ 5th Ave N and NE 175th Street Signal Phase Changes Collision rate reduced by half.

Aurora Ave N Project Benefits





Injury collisions reduced by half!

3B Signal Retiming Benefits:

- Increased volume from 2014 while maintaining travel speed (increased efficiency)
- Transit Signal Priority implemented near the transit center, saving buses up to 57 seconds during the PM Peak

Police Enforcement Statistics

Year	Citation	Arrest	Warning	Other	Total
2016	2,157/3,520	625	3,969	1,575	8,589
2015	2,533/5,108	709	3,812	1,487	11,116
2014	1,874/3,659	675	2,897	1,459	8,690



Traffic Complaints

YEAR	Citizen Complaints (to Shoreline PD)	Abandoned Vehicle / Impounds
2016	72	322 / 54
2015	197	172 / 41
2014	286	196 / 48



Reduction Strategies Implemented in 2016

Shoreline PD -

- Cell phone emphasis patrols conducted 70 citations
- 58 Child Restraint Inspections conducted.
- Several DUI emphases; 35 arrests made as part of a large effort in October.
- Traffic safety checks at schools prior to school opening; increased presence for first 3 weeks of school.



Next Steps – Enforcement & Education

- Targeted enforcement of causal behaviors and locations of concern.
- Continue combination of balanced enforcement and education.
- Address community traffic concerns.
- Grant funded emphasis.
- Maintain frequency of traffic contacts.
- Continued data-led traffic enforcement via speed differential and collision information.



Questions?

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