

HIGH COLLISION INTERSECTIONS

CITY OF PORTLAND

2011 - 2014

This document lists the top intersections in the City of Portland with the highest number of reported collisions in the four-year period from January 2011 through December 2014. Collision totals represent all crashes that were coded to an intersection.

This report is compiled from data supplied by the Oregon Department of Transportation, Transportation Safety Division, Crash Analysis and Reporting Unit, from records originally received by the Oregon Department of Motor Vehicles. Due to under-reporting of collisions, this list should not be considered to represent all collisions occurring at the intersections listed. The City of Portland, Bureau of Transportation did the analysis of the data and prepared the resulting report.

Each location was ranked based on the metrics below in the four year period (2011-2014.) The individual metric ranks were added to together and sorted in ascending order to create our list of high collision locations.

1. Total Number of Crashes

This is the total number of crashes within the four year period from January 1, 2011 to December 31, 2014.

2. Collision Rate

This metric normalizes crash data by considering the number of cars traveling through the intersection. The equation used to compute the collision rate (collisions per million entering vehicles) for these locations is as follows:

$$\text{Collision Rate} = \frac{\text{Crashes}}{4 \text{ Years}} \times \frac{1 \text{ year}}{340 \text{ days}} \times \frac{1}{\text{ADT}} \times 1 \times 10^6$$

ADT is a 24-hour volume count of vehicles entering the intersection in vehicles per day. The volume used is considered to be approximate for a number of reasons; daily variation in counts, the count may not have been taken specifically at the intersection, the count may not be recent enough to reflect current conditions, etc.

3. Total Value of Collisions

The crash values integrate crash severity into the High Crash Listing. This is calculated using National Safety Council monetary crash values (2013) and multiplying these by the total number of each fatality, injury type or property damage only (PDO) crash. Note that the number of fatalities and injuries are sustained injuries, not number of crashes.

Total Value = # Fatals* Fatal \$ + # Inj A* Inj A \$ + # Inj B* Inj B \$ + # In C* Inj C \$ + # PDO*PDO \$

Fatal Value	Injury A Value	Injury B Value	Injury C Value	PDO Value
\$1,500,000	\$74,900	\$24,000	\$13,600	\$9300

Two High Crash lists are included in this document, one sorted by rank and the other sorted alphabetically by street name. There are 5 new locations on this year's list (highlighted in yellow) that PBOT will evaluate for improvements. Of note, there are five locations that are no longer on the high crash listing, two of which have recently had significant safety improvements implemented:

- NW Broadway/Couch where an all-way stop, and subsequently a traffic signal was recently installed that resulted in fewer crashes.
- SW Corbett/Hooker/Kelly where ODOT and PBOT partnered on an access management and pedestrian crossing project that resulted in fewer crashes.

For more information, please contact:
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 Portland Bureau of Transportation
Wendy.cawley@portlandoregon.gov
 503-823-4396

2014 Top Crash Locations (by rank)

* based on 4 years of crash data 2011-2014

2014 Rank	2013 Rank	Location	Crash Rate	Total Crashes	Fatalities	Serious Injuries	Moderate Injuries	Minor Injuries	PDO Crashes	Entering Volume	Recent or proposed treatments
1	1	SE 122ND AVE / SE STARK ST	2.38	163	1	2	14	140	68	50457	'16 HSIP funds to add bike lane extensions/conflict areas on 122.
2	3	SE 174TH AVE / SE POWELL BLVD	3.68	146	0	1	20	112	67	29185	ODOT (PBOT operates/maintains signal)
3	4	SE 82ND AVE / SE POWELL BLVD	2.13	205	0	2	7	156	107	70782	ODOT
4	2	SE 122ND AVE / SE DIVISION ST	2.20	179	0	5	19	123	83	59873	'16 HSIP project: green bike lane/extension, signal detection, illum.
5	5	NE 122ND AVE / NE GLISAN ST	2.32	159	0	2	19	86	90	50320	ARTS funding for access mgmt and illumination
6	6	SE 122ND AVE / SE POWELL BLVD	2.03	114	0	0	9	88	53	41283	--
7	7	SE 82ND AVE / SE DIVISION ST	1.81	124	0	3	11	104	48	50417	ODOT '16 project: new signal, illumination; PBOT bike lane upgrade
8	11	SE 92ND AVE / SE POWELL BLVD	1.72	127	0	1	14	86	61	54169	ARTS project: upgrade signal hardware (new heads, backplates.)
9	9	SE 148TH AVE / SE STARK ST	2.04	97	0	2	14	73	37	34886	ARTS hotspot to upgrade signal hardware, add access mgmt
10	22	SE 136TH AVE / SE POWELL BLVD	2.23	91	0	2	17	68	37	29982	ODOT: 150% ARTS Hotspot list for median, Flashing yellow arrow
11	8	NE 122ND AVE / NE HALSEY ST	1.53	126	1	5	8	84	67	60442	ARTS funding for access mgmt and illumination
12	15	SE 92ND AVE / SE HOLTGATE BLVD	2.22	75	0	3	17	74	23	24863	ARTS project: upgrade signal hardware (new heads, backplates.)
13	16	NE 102ND AVE / NE GLISAN ST	1.67	109	0	0	9	77	57	48000	ARTS funding for signal coord/detection on 102nd
14	18	NE 82ND AVE / NE GLISAN ST	1.69	102	0	0	12	61	54	44427	ODOT (PBOT operates/maintains signal)
15	20	NE GLISAN ST / NE GLISAN ST TO I-205 NB RAMP	1.51	111	0	3	24	65	52	54069	ODOT (PBOT operates/maintains signal)
16	14	SE CESAR E CHAVEZ BLVD / SE POWELL BLVD	1.30	116	1	0	9	68	63	65684	ODOT: ARTS funding to upgrade signal hardware, add illumination
17	52	NE 82ND AVE / NE FREMONT ST	1.99	74	1	1	11	49	35	27385	New on list last year - check TRI evaluation.
18	21	SE DIVISION ST / SE DIVISION ST-I205 FWY RAMP / SE I205 FWY-DIVISION S	1.67	94	0	0	5	65	43	41419	ODOT
19	13	SE 148TH AVE / SE DIVISION ST	1.53	83	1	2	10	61	40	39994	'16 HSIP project to remove SB slip lane, shorten ped xings, upgrade signals.
20	24	SE 112TH AVE / SE POWELL BLVD	1.96	72	1	0	10	48	32	26954	ODOT (PBOT operates/maintains signal)
21	19	SE 162ND AVE / SE DIVISION ST	1.67	80	0	2	9	54	39	35200	'16 HSIP project: new signal coord & hardware, illum., access mgmt
22	29	NE 102ND AVE / NE HALSEY ST	1.78	80	0	3	8	53	33	33134	ARTS funding for signal coord/detection on 102nd
23	17	NE COLUMBIA BLVD / NE I-205 SB / COLUMBIA BLVD RAMPS	1.18	108	0	0	5	85	49	67309	ODOT
24	31	SE 174TH AVE / SE DIVISION ST	1.57	75	0	3	14	50	30	35095	'16 HSIP project: new signal coord & hardware, illumination
25	10	SE 7TH AVE / SE POWELL BLVD	0.99	78	2	3	12	42	41	58071	ODOT: reviewed in past for traffic signal but not approved by ODOT
26	30	SE 112TH AVE / SE DIVISION ST	1.26	89	0	1	7	57	45	51800	ARTS project to rebuild signal, add access mgmt, green bike lane
27	28	SE 82ND AVE / SE FOSTER RD	1.39	90	0	1	6	52	45	47500	ODOT (PBOT operates/maintains signal)
28	26	SE 96TH AVE / SE 99TH AVE / SE WASHINGTON ST	1.88	76	0	1	11	32	44	29787	ARTS project (2017-2021) to improve signal hardware and coordination.
29	12	SW BARBUR BLVD / SW CAPITOL HWY	1.93	77	0	0	10	32	46	29274	ODOT: ARTS funding to upgrade signal hardware, add guide signage
30	27	NE COLUMBIA BLVD / NE COLUMBIA BLVD TO I-205 NB RAMP	1.19	97	0	1	14	44	50	60016	ODOT
31	44	NE 33RD DR / NE MARINE DR	2.84	62	0	1	19	27	28	16042	Narrow lane treatment (2014); '17-'21 ARTS rumble strip project.
32	50	NE 82ND AVE / NE SANDY BLVD	1.59	69	0	1	11	44	36	31924	ODOT (PBOT operates/maintains signal)
33	32	E BURNSIDE ST / NE 82ND AVE / SE 82ND AVE	1.45	71	0	0	11	53	29	36099	ODOT 2016 construction: new signal, illumination, ADA ramps
34	37	SE 92ND AVE / SE FOSTER RD	1.99	62	0	0	10	34	35	22959	ARTS project: upgrade signal hardware (new heads, ped push buttons.)
35	33	SE 82ND AVE / SE HOLTGATE BLVD	1.22	64	0	3	9	53	20	38429	ODOT (PBOT operates/maintains signal)
36	--	E BURNSIDE ST / NE 102ND AVE / SE 102ND AVE	1.61	59	1	3	4	39	32	27000	New on list this year; have TRI investigate
37	--	SE 110TH DR / SE 111TH AVE / SE FOSTER RD	1.55	61	0	2	8	48	26	29000	New on list this year; have TRI investigate. ADA ramps 2016.
38	48	SE 102ND AVE / SE STARK ST	1.54	63	0	1	9	44	25	30018	ARTS project (2017-2021) to improve signal hardware and coordination.
39	42	NE COLUMBIA BLVD / NE MARTIN LUTHER KING JR BLVD	1.33	75	0	4	9	34	38	41502	PBOT/ODOT project 2016: add WB right turn lane, partial signal rebuild
40	--	NE BROADWAY / NE MARTIN LUTHER KING JR BLVD	2.01	60	0	0	12	29	32	22000	New on list this year; ARTS project for signal coordination, striping
41	23	SE HOLTGATE BLVD / SE MCLOUGHLIN BLVD / SE MCLOUGHLIN BLVD-HOLTGATE BLVD	0.78	74	1	2	7	32	48	69337	ODOT
42	41	E BURNSIDE ST / NE 122ND AVE / SE 122ND AVE	1.31	63	0	1	10	44	23	35494	New on list last year - check TRI evaluation.
43	34	SE FOSTER RD / SE 96TH AVE / SE FOSTER RD-I205 FWY RAMP	1.52	61	0	1	12	39	26	29487	ODOT
44	53	NE LOMBARD ST / NE MARTIN LUTHER KING JR BLVD	1.24	67	0	2	8	40	33	39861	ODOT ARTS project to install access mgmt on MLK and Lombard
45	38	SE 122ND AVE / SE FOSTER RD	1.17	66	0	1	9	42	31	41408	--
46	--	NE 99TH AVE / NE GLISAN ST	1.55	60	0	2	2	38	31	28500	New on list this year; have TRI investigate
47	25	N INTERSTATE AVE / N LOMBARD ST	1.40	63	0	1	6	21	37	33003	ODOT: ARTS funding for road diet, signal rebuild, raised median, illumination.
48	49	SE 96TH DR / SE DIVISION ST / SE I-205 NB TO DIVISION ST RAMP	1.01	63	0	2	5	47	27	45777	ODOT
49	45	NE BROADWAY / NE GRAND AVE	1.03	69	0	0	9	27	40	49399	ARTS app for signal coord on Broadway; on 120% list
50	51	SE 162ND AVE / SE STARK ST	1.10	59	0	1	5	49	21	39430	ARTS hotspot to upgrade signal hardware, add illumination
51	39	SE 92ND AVE / SE DIVISION ST	1.17	60	0	1	10	41	27	37653	'16 HSIP project: new signal coord & hardware, illumination
52	47	ROSS ISLAND BRG / SW KELLY AVE-ROSS ISLAND BRG RAMP / SW ROSS ISLAND B	0.88	68	0	1	2	31	48	56529	ODOT
53	--	SE MCLOUGHLIN BLVD / SE NEHALEM ST / SE TENINO ST	0.92	60	0	1	10	33	26	47900	ODOT jurisdiction, new on list this year

Intersectional and Non-Intersectional Crashes*

- Source Data: ODOT Crash Analysis and Reporting Unit

- Geocoded by PBOT, queried from PBOT database PDOTSQL6.AccidentHistory

* An "intersectional" crash is defined by ODOT as "a crash which occurs within the limits of the intersection of two or more roads; or, crashes which occur outside these limits but result from some maneuver at or because of the intersection."

2014 Top Crash Locations (alphabetically)

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42	41	E BURNSIDE ST / NE 122ND AVE / SE 122ND AVE	1.31	63	0	1	10	44	23	35494	New on list last year - check TRI evaluation.
33	32	E BURNSIDE ST / NE 82ND AVE / SE 82ND AVE	1.45	71	0	0	11	53	29	36099	ODOT 2016 construction: new signal, illumination, ADA ramps
47	25	N INTERSTATE AVE / N LOMBARD ST	1.40	63	0	1	6	21	37	33003	ODOT: ARTS funding for road diet, signal rebuild, raised median, illumination.
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