

State of Nebraska

2019

Annual Report

traffic Crash Facts



Prepared By Highway Safety/Accident Records Section Nebraska Department of Transportation

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Good Life. Great Journey.

DEPARTMENT OF TRANSPORTATION



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The *Traffic Crash Facts* booklet provides statistics and information on traffic crash trends that occurred in Nebraska during 2019. The report is designed to heighten awareness about traffic safety issues while allowing interested individuals to identify areas where safety programs may be focused in an effort to reduce traffic-related injuries and deaths. Information is compiled from traffic crash reports submitted to the Nebraska Department of Transportation (NDOT) by state and local law enforcement agencies.

Safety is, and always will be, a top priority in how NDOT does business. The agency is committed to providing the safest possible driving environment for the residents and visitors who travel in our state each year. We are focused on utilizing partnerships with law enforcement, health and education agencies, as well as private advocacy groups and businesses, to improve driving behaviors and ultimately save lives. Traffic crashes are largely avoidable, including those that result in personal injury or loss of life.

Every life matters and Nebraska continues to aim "Toward Zero Deaths" with zero fatalities on all Nebraska roadways as our traffic safety goal. Although much progress in traffic safety has been made over the years, far too many Nebraskans—friends, neighbors, and loved ones—are still being killed or seriously injured in crashes. Improving the situation begins with setting a good example for youth by always buckling up, keeping our hands on the wheel and our eyes on the road, and putting away the cell phone while driving.

Pete Ricketts Governor Kyle Schneweis, P.E. Director

Nebraska Strategic Highway Safety Plan

The Nebraska Interagency Safety Committee, comprised of leaders from the Department of Transportation, State Patrol, Department of Motor Vehicles, Health & Human Services System, Local Technical Assistance Program, League of Municipalities, and Association of County Officials, last updated the Nebraska Strategic Highway Safety Plan (SHSP) for 2017-2021. The objective of the plan is to significantly reduce traffic deaths and serious injuries in the state. To accomplish this objective, the Committee selected five Critical Emphasis Areas, based on the crash data, on which to concentrate their efforts. These five Critical Emphasis Areas were:

1. Increasing Seat Belt Usage

The use of seat belts is an effective way to prevent serious injuries and fatalities in traffic crashes. While surveys indicate that over 80% of Nebraskans wear their seat belts, about two-thirds of the vehicle occupants killed in crashes were not using belts. Reaching the remaining 20% of Nebraskans who avoid restraint use is a difficult problem. Overtime enforcement operations emphasizing safety belt compliance such as "Click It or Ticket" are one method used to fight the problem.

2. Reducing Roadway Departure Crashes

Many of our rural fatalities are the result of Roadway Departure crashes. The term "Roadway Departure" includes crashes where vehicles run-off-the-road and collide with fixed objects (trees, guardrail, poles, etc.) or where vehicles overturn. It also includes crashes where vehicles leave the portion of the road designed for them to drive on, such as head-on and cross-median crashes. The Department of Transportation has implemented the use of shoulder and centerline rumble strips as countermeasures for these types of crashes on state highways.

3. Reducing Impaired Driving Crashes

Crashes involving drinking and driving continue to significantly contribute to the state's fatality total. Although Nebraska is among the nation's leading states in effective public policy countermeasures, this factor remains a challenging one. While the long-term trend in alcohol-involved crashes is down, over 13% of the drivers involved in 2019 fatal crashes had been drinking. Increasing sobriety checkpoints, periodic impaired driver enforcement crackdowns, new prosecution strategies, and public information campaigns are among the countermeasures used to combat the problem.

4. Reducing Intersection Crashes

Since these are the places where vehicles cross paths, a large percentage of traffic crashes naturally occur at intersections. The Department of Transportation is constantly reviewing intersection operations to look for improvements that can be made. Adding turn lanes, adjusting signal timing, and improving marking and signing are just a few ways intersection operations can be improved. The Department is also committed to using newer types of intersections, such as roundabouts and restricted crossing U-turns, which have been proven to reduce crashes.

5. Reducing Young Driver Crashes

The continuing over-involvement of young, inexperienced drivers in crashes and especially fatal crashes is disturbing. Although they made up less than 8% of registered drivers in the state, in 2019 drivers aged 16 to 20 were involved in over 14% of the crashes. Effective programs aimed at reducing younger driver crashes are offered by several agencies, both public and private.

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(Note: Due to rounding, percentages on graphs may not equal 100%.)

The data contained in this booklet are based on Reportable Crashes Only. Reportable crashes involve death, injury, or property damage in excess of \$1,000.00 to the property of any one person. Various injury severity categories are defined below.

Injury Severity	Definition
Fatal (K)	One or more persons are killed.
Serious Injury (A) Incapacitating	Suspected serious injury - cannot leave the scene without assistance (severe laceration; broken or distorted extremity (arm or leg); unconsciousness; paralysis, suspected skull, chest, or abdominal injury, etc.
Visible Injury (B) Non-incapacitating	Visible but not disabling (minor cuts, swelling, etc.)
Possible Injury (C)	Possible but not visible (complaint of pain, etc.)
Property Damage Only Crash (PDO)	No injury to any person, but only damage to a motor vehicle, or to other property, including injury to domestic animals.

Part I Overview

Fatality Rate

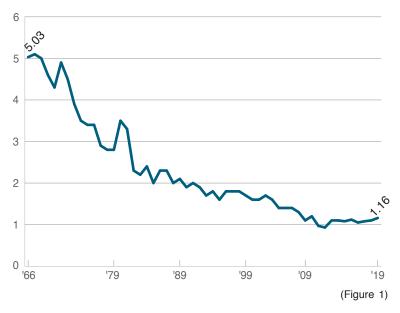
The fatality rate on Nebraska roadways for 2019 was 1.16 persons killed per 100 million vehicle miles traveled, up slightly from the 2018 rate of 1.10. Despite this increase, the long-term trend in fatality rate, shown in Figure 1, is significantly downward. Much of this reduction is the result of improvements in vehicle design, roadway engineering, emergency medical services, specific safety programs, enforcement, and improved driver awareness.

Figure 2 depicts the number of fatal crashes per year for the last 10 years. In 2019, there were 212 fatal crashes, an increase of 11 from 2018.

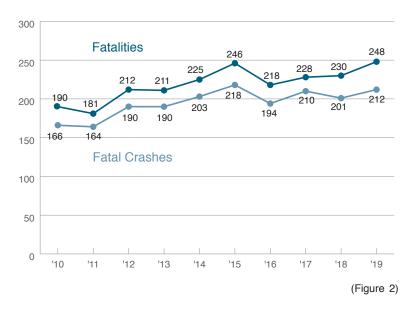
Fatal crashes make up only a small portion of the total crashes in Nebraska. Property damage only (PDO) crashes make up the majority. Figure 3 shows the percentage distribution of all crash types. In 2019, there were 212 fatal crashes, 1,154 serious injury crashes, 11,939 total injury crashes, and 24,555 property damage only crashes. Fatal crashes made up 0.6% of all crashes, serious injury crashes made up 3.1%, and total injury and PDO crashes made up 32.5% and 66.9%, respectively.

Fatality Rate Per 100 Million Vehicle Miles

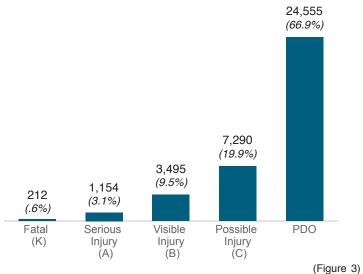
(1966 - 2019)



Ten-Year Trend in Fatal Crashes and Fatalities (2010 - 2019)



All Crashes in Nebraska



Geographic Summary of Traffic Fatalities by County in 2019

Total Traffic Fatalities - 248 / Traffic Fatalities with Apparent Alcohol Involvement - 51

			_ ~~	~/	1/0 NEMAHA	1/0 RICHARDSON	(Figure 4)
بمرام	2/0 BURT	2/0 wash.	37/8 DOUGLAS SARPY 22/3	14/1 cass 2/1	1/0	1/0 PAWNEE	
NOVO NOVO	1/0 cuming	9/2 DODGE	4/0 saunders	24/8	LANCASTER	2/0	
5/0 0/0 cedar 0/0 1/0 wayne		2/1 COLFAX	1/0 BUTLER	5/1 SEWARD	6/0	3/1 JEFFERSON	
1/0 PIEROCE	7/1 2/1 MADISON STANTON	7/3	2/0 POLK	1/0 YORK	1/1 FILLMORE	0/0 THAYER	
0/0 knox	ANTELOPE	Boone 1/1	NANCE MERRICK 2/0	2/0 HAMILTON	2/1 CLAY	1/0 0/0 0/0 FRANKLIN WEBSTER NUCKOLLS	
00000	0/0 WHEELER	0/0	3/0 HOWARD	8/3 HALL	3/1 ADAMS	0/0 WEBSTER	
0/0 0/0	1/0 GARFIELD	1/0	0/0 SHERMAN	5/0 BUFFALO	4/2 KEARNEY	1/0 FRANKUN	
0/0 Rock	0/0		,	BUFF	1/1 PHELPS	0/0 HARLAN	
1/1 0/0 BROWN	0/0 BLAINE	Č	Z/U CUSTER	5/0 DAWSON	0/0 Gosper	0/0 FURNAS	
	0/0 THOMAS	0/0	ž	<u> </u>	1/1 FRONTIER	1/0 RED WILLOW	
2/2	0/0 HOOKER	0/0 McPHERSON	1	LINCOLN	0/0 HAYES	0/0	
CHERRY	0/0 GRANT	0/0 ARTHUR	2/0 KEITH	2/1 PERKINS	1/0 CHASE	0/0	
0/0	ONEHIDAN	1/1	GARDEN 1/0 DEUEL				_
1/0 DAWES 3/0	0/2	MORRILL	2/1 CHEYENNE	Number of Fatalities	- 5	6 - 10 11 and Over	מום כים
0/0	3/1 scotts bluff	0/0 Banner	3/0 KIMBALL	Number o	0 +	÷ ÷	

Douglas County, which includes Omaha, the state's largest city, had the highest number of traffic fatalities with 37, followed by Lancaster County with 24. Thirty-one counties experienced no fatalities in 2019.

2	2019 Crash Data by County											
County		Cras	Person: and Ir	s Killed njured								
	Total	Fatal	Injury	PDO	Killed	Injured						
Adams	534	3	125	406	3	193						
Antelope	71	0	25	46	0	41						
Arthur	11	0	4	7	0	6						
Banner	26	0	7	19	0	12						
Blaine	6	0	2	4	0	5						
Boone	77	1	18	58	1	29						
Box Butte	148	3	48	97	3	77						
Boyd	11	0	4	7	0	6						
Brown	55	0	9	46	0	18						
Buffalo	1021	3	325	693	5	460						
Burt	92	2	29	61	2	45						
Butler	134	1	41	92	1	76						
Cass	341	7	116	218	14	171						
Cedar	111	5	40	66	5	58						
Chase	29	1	12	16	1	16						
Cherry	116	2	23	91	2	36						
Cheyenne	186	2	32	152	2	46						
Clay	79	2	27	50	2	43						
Colfax	135	2	42	91	2	62						
Cuming	131	1	36	94	1	53						
Custer	156	2	44	110	2	65						
Dakota	280	1	93	186	1	137						
Dawes	151	1	35	115	1	51						
Dawson	473	5	102	366	5	152						
Deuel	48	1	12	35	1	17						
Dixon	67	0	17	50	0	24						
Dodge	709	5	258	446	9	382						
Douglas	13339	36	4357	8946	37	6073						
Dundy	9	0	3	6	0	3						
Fillmore	55	1	28	26	1	39						
Franklin	46	1	12	33	1	15						
Frontier	65	1	15	49	1	19						
Furnas	83	0	24	59	0	33						
Gage	369	2	105	262	2	154						
Garden	35	1	5	29	1	6						
Garfield	17	1	6	10	1	7						
Gosper	45	0	13	32	0	14						
Grant	5	0	2	3	0	2						
Greeley	26	0	8	18	0	14						
Hall	1326	8	411	907	8	581						
Hamilton	214	2	50	162	2	79						
Harlan	62	0	16	46	0	22						
Hayes	17	0	5	12	0	5						
Hitchcock	44	0	18	26	0	34						
Holt	106	0	31	75	0	52						
Hooker	12	0	2	10	0	2						

County		Cras	Persons and Ir	s Killed njured		
	Total	Fatal	Injury	PDO	Killed	Injured
Howard	92	1	14	77	3	17
Jefferson	148	3	33	112	3	48
Johnson	53	1	9	43	1	11
Kearney	102	4	30	68	4	39
Keith	196	2	45	149	2	65
Keya Paha	15	1	3	11	1	3
Kimball	93	3	23	67	3	31
Knox	58 6253	0 24	20 2500	38 3729	0 24	28 3673
Lancaster Lincoln	793	7	2300	543	7	360
Logan	193	0	243	4	0	2
Loup	8	0	5	3	0	6
Madison	606	6	195	405	7	274
McPherson	6	0	2	4	0	2
Merrick	114	2	30	82	2	40
Morrill	83	2	19	62	7	25
Nance	22	1	6	15	1	13
Nemaha	107	1	24	82	1	41
Nuckolls	29	0	5	24	0	7
Otoe	271	2	83	186	2	158
Pawnee	72	1	18	53	1	28
Perkins	39	2	15	22	2	19
Phelps	124	1	42	81	1	64
Pierce	95 763	1 5	26	68	1	38
Platte Polk	763 82	1	186 18	572 63	7 2	261 28
Red Willow	180		43	136	1	63
Richardson	114		31	82		48
Rock	10	Ö	2	8	0	6
Saline	234	3	49	182	6	68
Sarpy	2514	15	838	1661	22	1235
Saunders	227	4	75	148	4	106
Scotts Bluff	617	3	226	388	3	315
Seward	345	4	103	238	5	147
Sheridan	65	0	15	50	0	27
Sherman	33	0	13	20	0	16
Sioux	11	0	2	9	0	2
Stanton	46	2	25	19	2	37
Thayer Thomas	79 8	0	18 2	61 6	0	31 7
Thurston	47	0	22	25	0	30
Valley	61	1	13	47	1	19
Washington	304	2	85	217	2	123
Wayne	116	1	36	79	1	50
Webster	62	0	13	49	0	22
Wheeler	17	0	0	17	0	0
York	313	1	95	217	1	130
Totals	36706	212	11939	24555	248	17198

Part II 2019 Data

Summary Number of Traffic Crashes

All Crashes	36,706
Property Damage Only (PDO)2	24,555
Injury Crashes	11,939
Persons Injured	17,198
Fatal Crashes	212
Fatalities	248
Number of Registered Vehicles in Nebraska	a 2,399,518
Number of Licensed Drivers in Nebraska	1,470,810
Number of Vehicles in Crashes*	67,321
Number of Drivers in Crashes*	60,622

^{*}There may be more than one vehicle or driver involved in a single crash. Parked and driverless vehicles are included.

During 2019:

One crash occurred every 14 minutes. Forty-seven persons were injured each day. One person was killed every 35 hours.

The economic loss in terms of dollars was \$5,058,849,940**

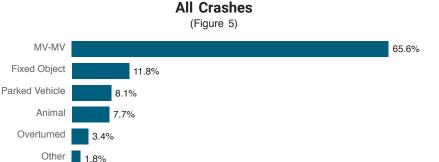
^{**}Federal Highway Administration Research Report Number, FHWA-SA-17-071, Crash Costs for Highway Safety Analysis, January 2018, Nebraska Department of Transportation Crash Data 2013-2017.

First Harmful Event

Pedestrian .9%
Pedalcyclist .6%

First harmful event (FHE) is the initial incident that causes injury or damage. It is sometimes referred to as "type of crash" and implies a collision with each of the objects listed in the following charts. "Overturned" and "other" crashes refer to crashes where no collision is involved (e.g., a car loses control and overturns, a car catches on fire).

First harmful events for all crashes and for fatal crashes are shown in Figures 5 and 6. In both instances, collisions between two or more motor vehicles (MV-MV) make up the majority of crashes. Crashes involving fixed objects, vehicles overturning, pedestrians and trains tend to be more severe, as indicated by their over-representation in fatal crashes as compared to all crashes.



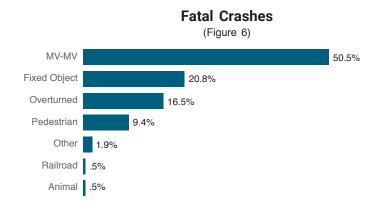


Table 1 provides the number of crashes in each category listed in Figures 5 and 6 on the previous page.

	FIDOT HADMEHI					2019					
	FIRST HARMFUL EVENT		CRASHES				PERSONS KILLED OR INJURED				
		TOTAL	FATAL	INJURY	PDO	KILLED	1	NON-FATAI	LINJURIES	3	
	(Current Year)	TOTAL	FATAL	INJURY	PDO	KILLED	TOTAL	A★	в⋆	C*	
	Pedestrian	342	20	322	0	20	342	72	137	133	
25	Motor vehicle in transport	24049	107	8819	15123	138	13459	783	2912	9764	
NVOLVING	Parked motor vehicle	2963	0	220	2743	0	249	26	99	124	
ž	Railroad train	24	1	11	12	1	19	8	6	5	
NO.	Pedalcyclist	238	1	234	3	1	239	27	133	79	
NOISIT	Animal	2836	1	240	2595	1	297	26	104	167	
COL	Fixed object	4319	44	1238	3037	49	1493	240	561	692	
	Other object	310	2	39	269	2	44	8	17	19	
Ν	oncollision overturned	1245	35	737	473	35	961	193	391	377	
0	ther noncollision	340	1	69	270	1	84	16	34	34	
U	nknown	40	0	10	30	0	11	1	6	4	
_	TOTALS -	36706	212	11939	24555	248	17198	1400	4400	11398	

(Table 1)

* = Injury severity codes
 A = Suspected Serious Injury
 B = Visible Injury (not disabling)
 C = Possible Injury (not visible)
 PDO = Property Damage Only

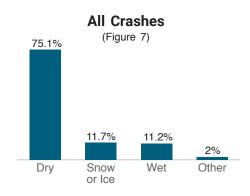
			2018									
	FIRST HARMFUL		CRASHES				RSONS I	KILLED C	R INJUF	RED		
	EVENT	TOTAL	FATAL	INJURY	PDO	KILLED	ı	NON-FATAI	LINJURIE	S		
		TOTAL	FATAL	INJUNT	PDO	KILLED	TOTAL	A★	в⋆	C★		
	Pedestrian	357	23	333	1	24	350	74	132	144		
VING	Motor vehicle in transport	23610	103	9085	14422	125	13915	803	3081	10031		
OLV	Parked motor vehicle	2940	1	252	2687	1	312	27	131	154		
INVOL	Railroad train	36	6	16	14	6	19	6	7	6		
NO.	Pedalcyclist	238	0	233	5	0	236	15	134	87		
ILISION	Animal	2543	2	203	2338	2	236	19	75	142		
00	Fixed object	4634	27	1314	3293	30	1593	225	617	751		
	Other object	230	1	31	198	1	41	5	10	26		
Ν	oncollision overturned	1233	36	738	459	39	963	205	383	375		
0	ther noncollision	271	2	50	219	2	57	14	21	22		
U	nknown	25	0	4	21	0	4	1	2	1		
-	TOTALS -	36117	201	12259	23657	230	17726	1394	4593	11739		

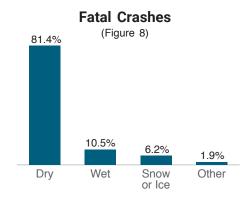
(Table 2)

Table 2 provides 2018 data for comparison to 2019 The number of fatal crashes increased by 11 and the number of fatalities increased by 18, indicating that there were more multi-fatality crashes in 2019. The number of injury crashes declined by 320 and the number of injuries decreased by 528. The largest increase was in property damage only crashes, which rose by 898.

Surface Condition

The condition of the road surface plays an important role in motor vehicle crashes. Slick road conditions are generally more hazardous than dry conditions, but drivers tend to compensate for this by being more cautious. Fewer fatal crashes occur under slick road surface conditions than under dry road conditions, since there are many more dry days than wet days. Crashes on wet roads decreased by 13% during 2019.





The following table provides the number of crashes in each category.

ROAD SURFACE CONDITION	TOTAL	FATAL	INJURY	PDO
Dry	26996	171	9034	17791
Wet	4031	22	1424	2585
Snowy or icy	4206	13	1106	3087
Other	734	4	258	472
Not stated	739	2	117	620
- TOTALS -	36706	212	11939	24,555

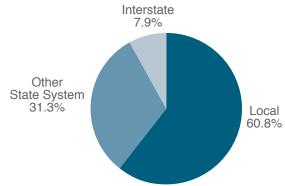
(Table 3)

Type of Roadway

The distributions of all crashes and fatal crashes, by roadway type, are shown in Figures 9 and 10. Table 4 (page 13) shows the actual number of crashes and casualties by roadway type. The percent of fatal crashes that occur on the interstate and other state highways is larger than the percent of all crashes that occur on the interstate and other state highways. Crashes on interstate and other state highways tend to occur at higher speeds, accounting for their increased severity.

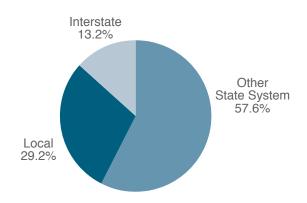
All Crashes





Fatal Crashes

(Figure 10)



			CRAS	SHES		PER	SONS
ROADWAY		TOTAL	FATAL	INJURY	PDO	KILLED	INJURED
	Interstate	1637	5	499	1133	5	679
URBAN	Other State System Highways	6377	27	2386	3964	29	3510
URE	Local Roads and Streets	19403	38	6269	13096	40	8768
	URBAN SUBTOTAL	27417	70	9154	18193	74	12957
	Interstate	1249	23	287	939	29	451
RURAL	Other State System Highways	5100	95	1476	3529	116	2328
RUE	Local Roads and Streets	2940	24	1022	1894	29	1462
	RURAL SUBTOTAL	9289	142	2785	6362	174	4241
	- TOTALS -	36706	212	11939	24555	248	17198

(Table 4)

Rather than referring to numbers of crashes, the relative safety of different roadway classifications can be compared by using crash rates. Table 5 provides crash rates for 2019. These rates are based on crashes per 100 million vehicle miles driven.

Crashes Per 100 Million Vehicle Miles Traveled

	CRASH SEVERITY					
	FATAL	INJURY	PDO	TOTAL		
Interstate	0.6	17.0	44.7	62.3		
Other State Highways	1.4	43.4	84.2	129.0		
Local Roads and Streets	0.8	94.3	194.0	289.1		

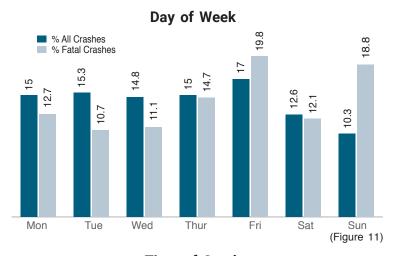
(Table 5)

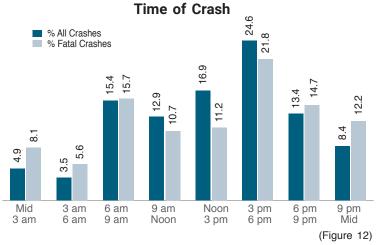
The interstate actually has the lowest crash rate for all roadway categories, followed by other state highways and local roads.

Day and Time

Crashes can occur at any time, but they tend to be more frequent during certain times of the day. Crash frequency follows the daily activity cycle, increasing from a low in the early morning hours to a peak in the late afternoon. The highest three-hour time period for crashes in 2019 was from 3:00 - 6:00 p.m., when 24.6% of all crashes occurred. Fatal crashes were most prevalent in the afternoon or early evening, as 47.7% of them took place between noon and 9:00 p.m.

Friday was the highest day for both crashes (6,198) and fatal crashes (41) during 2019 Sunday had the fewest crashes, but was second in fatal crashes (37). Traditionally, more fatal crashes occur on the weekends when more recreational driving takes place.



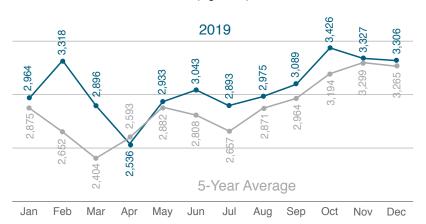


Month

The seasonal cycles of all crashes and fatal crashes are illustrated in Figures 13 and 14. Crashes tend to increase during the late fall and winter as weather conditions worsen. Fatal crashes usually decrease during bad weather conditions, once motorists adjust to less than perfect driving conditions.

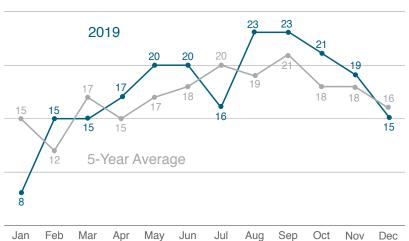
All Crashes by Month

(Figure 13)



Fatal Crashes by Month

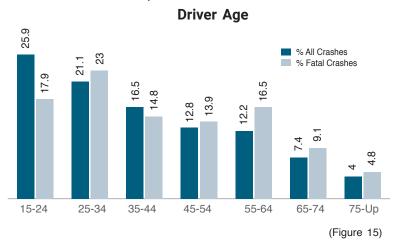
(Figure 14)



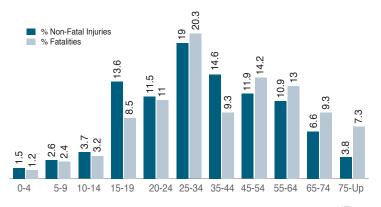
Age of Driver

Younger drivers are involved in a disproportionate number of crashes. In 2019, 52.1% of the drivers involved in crashes were age 34 or younger. Drivers in the youngest age bracket, ages 15 to 24, which included 25.1% of all drivers, had the highest percentage involvement of all age groups in all crashes, 25.9%. In 2019, these drivers were also involved in 17.9% of fatal crashes.

Figure 16 represents percentages of nonfatal and fatal injuries by age groups. Persons aged 75 and over are overrepresented in fatal injuries as compared to nonfatal injuries. Persons between the ages of 15 and 44 suffered 58.8% of all injuries.



Age of Casualties



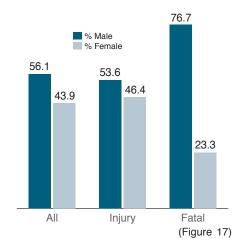
(Figure 16)

Sex of Driver

Figure 17 shows the difference between male and female drivers' involvement in motor vehicle traffic crashes. Males represented 56.1% of the drivers in all crashes in Nebraska in 2019, and were involved in 76.7% of all fatal crashes. At least a part of this difference can be attributed to the fact that males may drive more miles than females and, thus, have greater exposure to crashes.

More females than males, however, are victims of motor vehicle crashes. Females made up 53.8% of the persons injured or killed in motor vehicle crashes in 2019. (See Table 7).

Sex of Driver in Crashes



SEX OF DRIVER	TOTAL	FATAL	INJURY	PDO
Male	33699	270	11620	21809
Female	26351	82	10047	16222
Not stated	572	0	195	377
- TOTALS -	60622	352	21862	38408

(Table 6)

	ALL CRASHES				ALCOHOL-RELATED CRASHES							
AGE AND	KILLED		INJURED		KILLED			INJURED				
SEX	TOTAL	М	F	TOTAL	М	F	TOTAL	M	F	TOTAL	М	F
0-4 years	3	2	1	257	127	130	0	0	0	8	4	4
5-9 years	6	3	3	447	220	227	0	0	0	23	13	10
10-14 years	8	3	5	626	284	342	0	0	0	26	12	14
15-19 years	21	11	10	2282	978	1304	6	2	4	93	52	41
20-24 years	27	24	3	1927	870	1057	8	7	1	159	101	58
25-34 years	50	36	14	3189	1443	1746	24	22	2	239	154	85
35-44 years	23	17	6	2452	1088	1364	6	6	0	135	88	47
45-54 years	35	27	8	1999	946	1053	4	4	0	96	61	35
55-64 years	32	26	6	1830	911	919	5	5	0	86	61	25
65-74 years	23	14	9	1101	505	596	3	3	0	32	18	14
75 and older	18	12	6	634	307	327	1	1	0	20	13	7
Age not stated	2	1	1	171	78	93	1	0	1	8	1	7
- TOTALS -	248	176	72	16915	7757	9158	58	50	8	925	578	347

(Table 7)

Restraint Use

Restraint usage is the best available means of preventing fatalities and injuries in motor vehicle crashes. Passive restraints, such as air bags, which require no occupant action to be put in use, are standard equipment for drivers and front seat passengers in newer vehicles. For these passive systems to provide effective protection, however, seat belts must still be used.

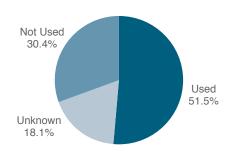
Effective January 1, 1993, Nebraska passed a mandatory seat belt law. This law calls for secondary enforcement, meaning that a citation for not wearing a seat belt can only be issued if the driver is first charged with another violation. Although not as effective as a primary enforcement law, the law has been successful in promoting seat belt use.

The most accurate measure of safety belt usage in Nebraska comes from the results of surveys conducted by the NDOT Highway Safety Office and approved by the National Highway Traffic Safety Administration (NHTSA). In 2019, the observed statewide safety belt usage rate was 80%.

Usage rates have risen in recent years primarily due to increased law enforcement efforts and media campaigns, however, there is still room for improvement. Belt use is particularly low in crashes which result in the most severe injuries. Only 37.8% of those vehicle occupants who died and 51.5% of those who suffered suspected serious injuries in 2019 crashes were belted.

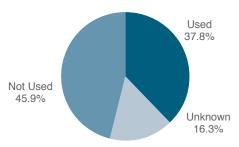
Restraint Use for Suspected Serious Injuries

(Figure 18)



Restraint Use for Fatal Injuries

(Figure 19)



986 1987 Nebraska Safety Belt Usage Rate vs. Fatality Rate

Safety Belt Usage Rate

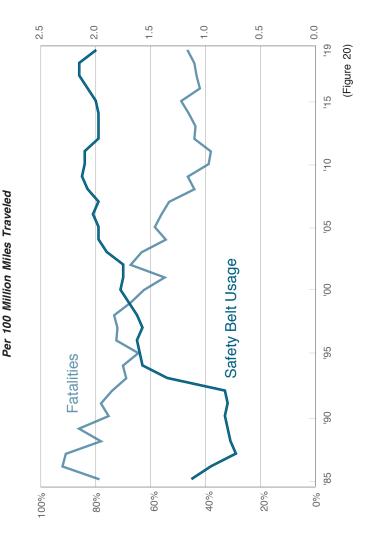
38%

1988

33% 32%

33% 54% 63% 64% 65%

63%

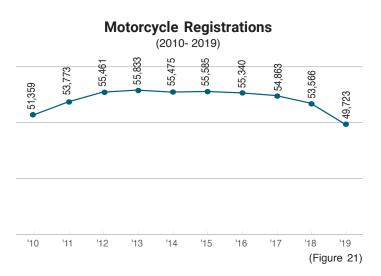


2013 2014 2015

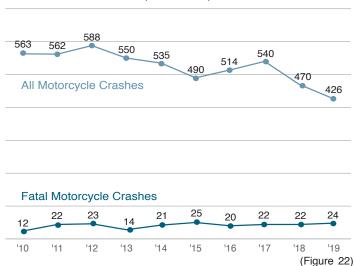
2016 2017 2018 2019

Motorcycle Crashes

After trending sharply upwards earlier in the decade, motorcycle registrations plateaued during the last few years. Total motorcycle crashes decreased to 426 in 2019, while fatal crashes increased to 24.





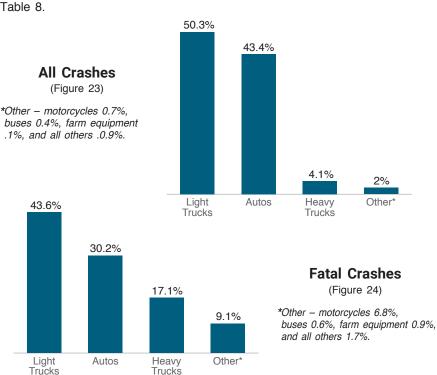


Vehicle Body Style

The major vehicle body styles involved in all crashes and fatal crashes are displayed in Figures 23 and 24. Compared to their involvement in all crashes, motorcycles and heavy trucks are overrepresented in fatal crashes. Motorcycles offer little protection to riders involved in crashes, and heavy trucks tend to be involved in more severe crashes due to their large size. The number of vehicles in each body style group which were involved in crashes is provided in Table 8.

BODY STYLE OF CRASH VEHICLES	TOTAL	FATAL	INJURY	PDO
Bus	247	2	69	176
Semi-trailer truck	1506	34	411	1061
Other heavy truck	1192	26	331	835
Automobile	28489	106	9945	18438
Van	3482	13	1190	2276
Utility vehicle	18368	81	6464	11823
Pickup truck	11019	59	3482	7478
Motorcycle	441	24	359	58
Motorhome	27	1	5	21
Farm equipment	67	3	26	38
Other	493	2	174	317
Unknown	1990	2	328	1660
- TOTALS -	67321	353	22784	44184

(Table 8)



Intersection Crashes

2019
Type of Multi-Vehicle Collisions at Intersections*

Total Crashes: 18,166

	NUMBER OF CRASHES	% OF TOTAL INTERSECTION CRASHES	% resulting in injury
Angle	7,443	41.0	40.4
Rear-end	5,844	32.2	39.8
Sideswipe	1,741	9.6	20.3
Sideswipe	163	0.9	32.5
Left Turn Leaving	2,463	13.5	48.8
Head-on	64	0.4	50.0
Backing	444	2.4	11.3
Unknown	4	0	50.0
Total	18,166	100%	

^{*} Multi-vehicle crashes at intersections comprise 49.5% of all crashes.

Non-Intersection Crashes

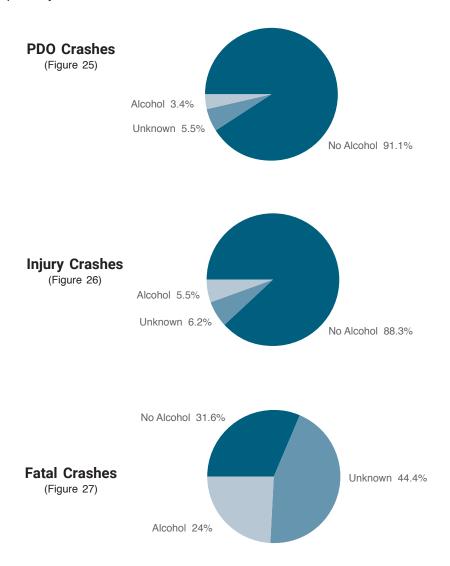
2019
Type of Multi-Vehicle Collisions Not at Intersections*
Total Crashes: 5,884

	NUMBER OF CRASHES	% OF TOTAL NON-INTERSECTION CRASHES	% RESULTING IN INJURY
Rear-end	3,169	53.9	38.8
Head-on	107	1.8	58.9
Angle	174	3.0	37.4
Sideswipe	1,643	27.9	17.4
Sideswipe	447	7.6	47.9
Left Turn Leaving	36	0.6	38.9
Backing	302	5.1	8.9
Unknown	6	0.1	16.7
Total	5,884	100%	

^{*}Multi-vehicle crashes not at intersections comprise 16% of all crashes.

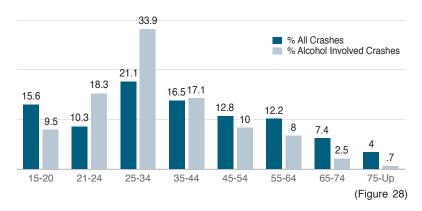
Alcohol Involvement

Figures 25, 26 and 27 show the relationship between alcohol involvement and crash severity. As crash severity increased, so did alcohol involvement. In 2019, 24% of Nebraska's fatal crashes were alcohol-involved, a decrease from the 32.8% recorded in 2018. Since alcohol testing is only required in fatal crashes, the alcohol involvement listed for injury and PDO crashes is probably understated.



Driver Age and Alcohol Involvement

The relationship between driver age and alcohol involvement in motor vehicle crashes is illustrated in Figure 28. Compared to their involvement in all crashes, drivers aged 21-34 are overrepresented in alcohol related crashes. In fact, these drivers are in 52.2% of alcohol involved crashes. By comparison, these drivers are only involved in 31.4% of total crashes. Note that drivers between the ages of 15 and 20 are in 9.5% of alcohol-related crashes, despite the fact that the legal drinking age in Nebraska is 21.



	TOTAL		FA	TAL	INJURY		
AGE OF DRIVER	ALL CRASHES	ALCOHOL INVOLVED	ALL CRASHES	ALCOHOL INVOLVED	ALL CRASHES	ALCOHOL INVOLVED	
15 and younger	469	2	2	0	182	1	
16	1757	14	7	1	680	9	
17	1842	20	1	0	661	8	
18	1816	16	4	0	673	9	
19	1819	41	11	2	687	19	
20	1713	48	7	0	627	16	
21	1650	67	8	1	604	21	
22	1610	67	9	2	561	20	
23	1508	74	6	1	538	29	
24	1421	65	8	2	510	26	
25 to 34	12734	506	81	22	4696	224	
35 to 44	9957	255	52	6	3633	102	
45 to 54	7721	149	49	3	2781	77	
55 to 64	7382	119	58	6	2588	50	
65 to 74	4460	38	32	1	1529	20	
75 and older	2425	11	17	1	844	6	
Not stated	338	3	0	0	68	0	
- TOTALS -	60622	1495	352	48	21862	637	

(Table 9)

Driver Contributing Circumstances

In 2019, there were 36,706 reportable motor vehicle traffic crashes in Nebraska involving 60,622 drivers. The table below lists the driver contributing circumstances and the number of drivers involved in fatal, injury and property damage only crashes.

DRIVER CONTRIBUTING CIRCUMSTANCES	TOTAL	FATAL	INJURY	PDO
No improper driving	29532	130	10676	18726
Failed to yield right-of-way	5844	24	2421	3399
Disregarded traffic controls	2003	9	985	1009
Exceeded speed limit	113	9	56	48
Speed too fast for conditions	1954	21	601	1332
Made an improper turn	667	1	148	518
Followed too closely	4644	4	1687	2953
Leave lane/run off road	2148	38	676	1434
Operating in erratic manner	2275	24	993	1258
Swerving or avoiding	548	3	174	371
Visibility obstructed	403	0	122	281
Inattention	3763	5	1191	2567
Mobile phone distraction	134	0	54	80
Distracted - other	669	6	250	413
Fatigued/asleep	289	3	121	165
Defective equipment	226	0	69	157
Other improper action	1395	12	425	958
Unknown	4015	63	1213	2739
- TOTALS -	60622	352	21862	38408

(Table 10)

While "Failed to yield right-of-way" was the most common contributing circumstance in all crashes, in fatal crashes "Leave lane/run off road" was the most frequent.

Part III Crash Trends

Motor Vehicle Traffic Crash Data

The crash rate on Nebraska roads has remained fairly steady over the last few years. Although, the state's fatality rate increased 5.5% from 1.10 in 2018 to 1.16 in 2019.

Year	Total Crashes	Persons Injured	Persons Killed	Crash Rate (per MVM)	Fatality Rate (per HMVM)	National Fatality Rate (per HMVM)
'01	47,894	26,751	246	2.67	1.37	1.51
'02	46,238	23,379	307	2.51	1.67	1.51
'03	46,602	21,984	293	2.51	1.58	1.48
'04	37,227	21,315	254	1.98	1.35	1.44
'05	35,739	19,827	276	1.89	1.46	1.46
'06	32,780	18,424	269	1.71	1.40	1.42
'07	35,875	18,983	256	1.87	1.33	1.36
'08	34,604	17,799	208	1.83	1.10	1.26
'09	34,665	17,775	223	1.81	1.17	1.15
'10	33,212	16,712	190	1.70	0.97	1.11
'11	32,302	16,108	181	1.69	0.95	1.10
'12	30,443	15,872	212	1.58	1.10	1.14
'13	31,377	16,083	211	1.62	1.09	1.10
'14	32,318	15,871	225	1.65	1.15	1.08
'15	33,988	16,806	246	1.68	1.22	1.15
'16	34,890	17,962	218	1.68	1.05	1.18
'17	34,999	17,691	228	1.67	1.09	1.17
'18	36,117	17,726	230	1.72	1.10	1.13
'19	36,706	17,198	248	1.72	1.16	1.10*
	Million Vehicle Miles (MVM) *NHTSA estimate Hundred Million Vehicle Miles (HMVM)					TSA estimate

(Table 11)

Body Style

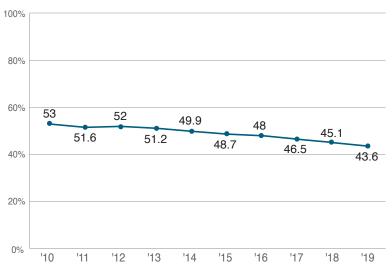
More passenger cars are involved in crashes than any other body style of vehicle. The percentage of automobiles in the total mix of vehicles in crashes, however, has been generally declining over the last decade. Figure 30 displays this trend.

Utility vehicles have been the fastest growing segment of the vehicle mix, surpassing pickup trucks and vans. The percentage of heavy trucks involved in crashes, on the other hand, has remained relatively steady. Figure 31 shows the trends in the percentage of various truck types involved in crashes during the last decade.

Note: In any one year, the combined percentages of passenger cars, light trucks, heavy trucks and motorcycles will not total 100%. The percentage of "other" body styles, like buses, is not shown.

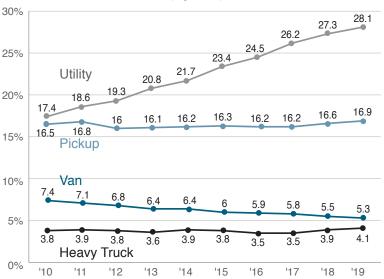
Passenger Cars in All Crashes

(Figure 29)



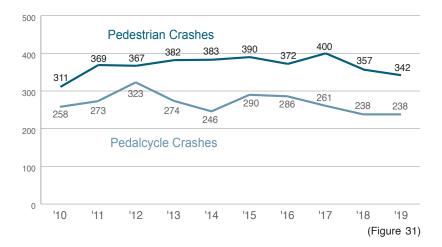
Truck Types in All Crashes

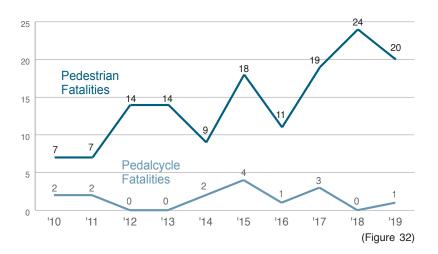
(Figure 30)



Pedestrian and Pedalcycle Crashes

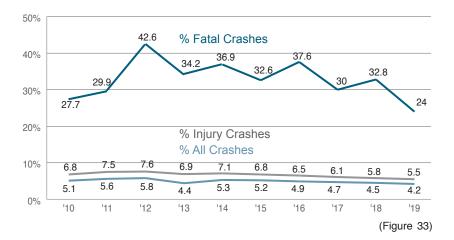
Both pedestrian and pedalcyclist crashes remained steady from 2018 to 2019. Pedestrian crashes fell from 357 to 342 and pedalcyclist crashes stayed the same at 238. Pedestrian fatalities dropped to 20 in 2019, a decline from 23 in 2018 which was the highest number of fatalities in the past decade. There was one pedalcyclist fatallity in 2019.





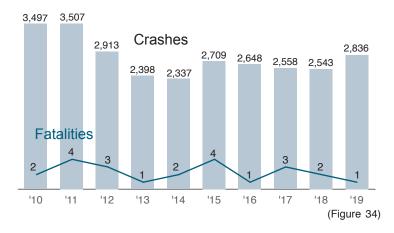
Alcohol Involvement in Crashes

Figure 33 shows the percentage of alcohol involvement by crash severity type. Alcohol testing is mandatory in fatal crashes, but optional for injury and property damage only crashes. Thus the extent of alcohol's role in non-fatal crashes is likely understated. Alcohol involvement in fatal crashes decreased from 32.8% in 2018 to 24% in 2019.



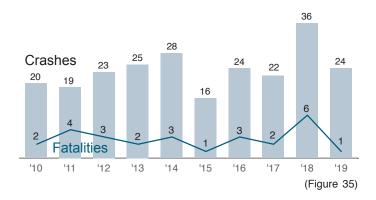
Animal Crashes

The number of crashes involving animals, over the last 10 years, is depicted in Figure 34. In 2019, animal crashes increased from 2,543 to 2,836. Deer are the most frequently involved animals in motor vehicle/animal crashes. Animal crashes resulted in one fatality during 2019.



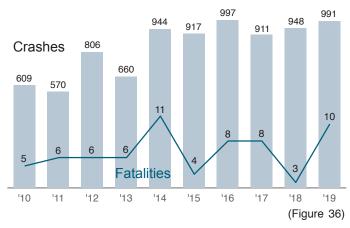
Railroad Crashes

The number of motor vehicle/railroad crashes decreased in 2019, from 37 to 24. Railroad fatalities also decreased, from six to one.



Work Zone Crashes

Drivers need to be particularly alert when going through highway work zones. When a road is not in its usual condition due to construction, it is a good idea to slow down. Fines for speeding are double in work zones when workers are present. Work zone crashes are dangerous to both highway workers and motorists. Most work zone crashes are rear-end collisions, resulting from speeding or inattentive driving. Work zone crashes increased in 2019, from 948 to 991. In addition to the usual factors, the annual number of work zone crashes is also highly dependent on the amount and location of construction.





Additional information about the material contained in this publication may be obtained from:

Nebraska Department of Transportation Traffic Engineering Division Highway Safety/Accident Records Section PO BOX 94759 LINCOLN NE 68509-4759 402-479-4645

This report is also available on the NDOT website dot.nebraska.gov

Nebraska Department of Transportation Highway Safety/Accident Records Section PO Box 94759 Lincoln NE 68509-4759

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