
TN Crash Statistics Involving Teen Drivers Aged 14-18 CY 2019-2023

July 2025



In Tennessee, teenaged drivers comprised roughly 7% of all licensed drivers in the state in the years 2019-2023. Of the roughly 29,400 fatal and serious injury crashes in this period, 2,600 involved a teen driver. This study considers “teen drivers” to be aged 14-18. Divided into three sections, this study examines the various trends, related factors, driver demographics, and conditions related to teen driver crashes from 2019-2023. **CRASH** examines the factors of teen driver-involved crashes, such as the types of injury crashes, the number of vehicles involved, and the types of state roads crashes occurred on among other aspects. **DRIVER** considers the conditions, actions, and demographics of the teen drivers themselves, and **SCENARIO** examines factors like day of week, time of day, ambient driving conditions, and more.

Trends in teen driver-involved crashes are largely in line with their non-teen counterparts with some exceptions. For instance, in keeping with crash trends generally, teen driver crashes become less frequent the more severe the injury, but there is a larger disparity between teens and non-teens in seatbelt use. Teen and non-teen driver crashes see roughly the same quarterly frequency, but there is a greater gender-disparity between the two age groups.

This study seeks to examine the causes and factors surrounding teen driver crashes and increase safety education and crash prevention efforts for teen drivers in Tennessee.

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SECTION 1: CRASH

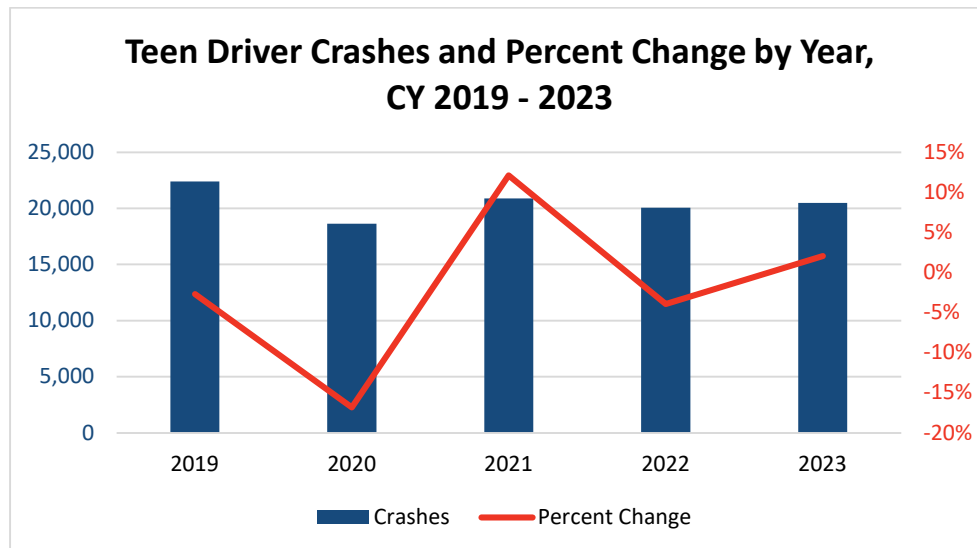
The number of motor-vehicle crashes involving teen drivers (between the ages of 14 and 18) remain somewhat consistent each year. Crashes decreased in the COVID year of 2020 in most categories. As seen in the table below, the number of teen-driver crashes varied more than those of their 'non-teen' counterpart crashes, or crashes that *did not* involve a driver between the ages of 14 and 18:

Table 1: Crashes by Year and Age Group*, CY 2019-2023

Year	Teen		Non-Teen	
	Crashes	Percent Change	Crashes	Percent Change
2019	22,382	-2.7%	182,263	-1.7%
2020	18,624	-16.8%	156,420	-14.2%
2021	20,884	12.1%	171,945	9.9%
2022	20,063	-3.9%	165,494	-3.8%
2023	20,471	2.0%	157,168	-5.0%
TOTAL	102,424	N/A	833,290	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

* Teen Crashes are crashes involving at least one driver between the ages of 14 and 18.
Non-Teen Crashes do not involve any drivers between the ages of 14 and 18.



During 2020, teen-driver crashes decreased by 17%. Similarly, non-teen driver crashes dropped by 14% in the same period. After returning to usual amounts in 2021, teen driver crashes remained at constant levels.

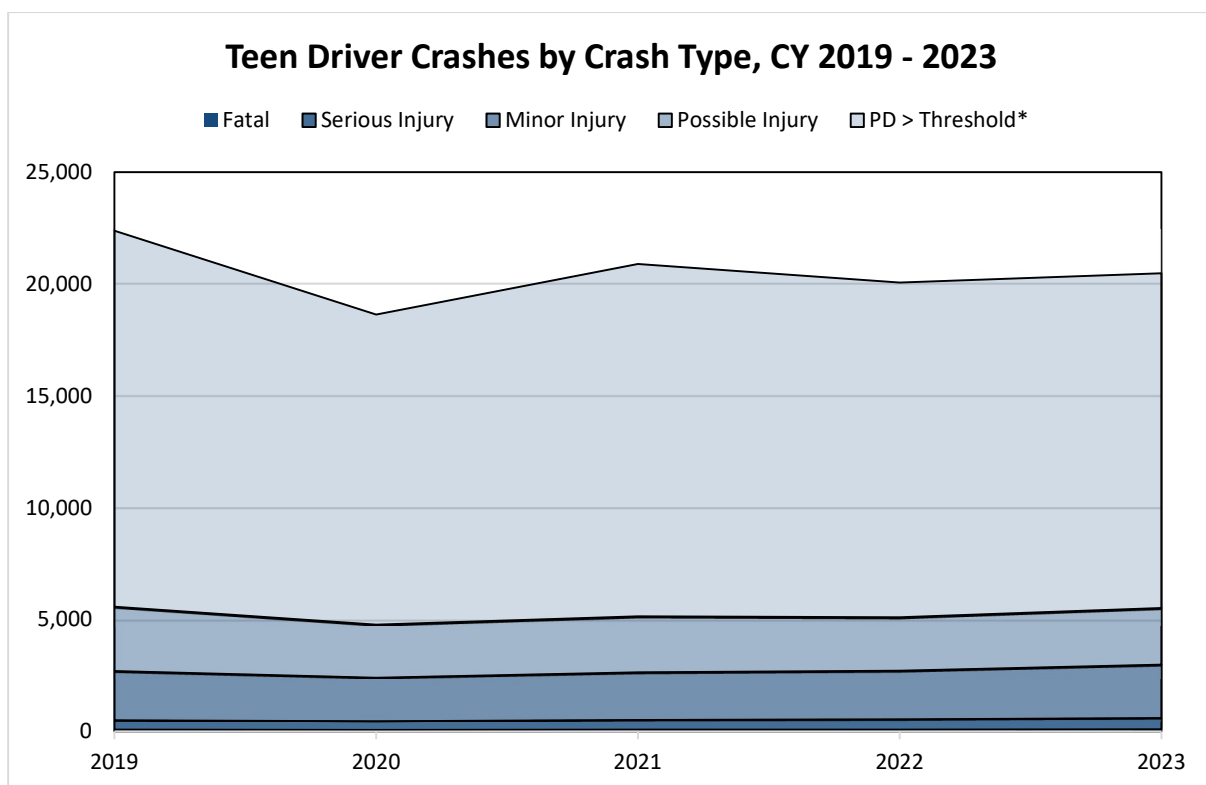
Table 2: Teen Driver Crashes by Crash Type, CY 2019-2023

Year	2019	2020	2021	2022	2023	TOTAL
Fatal Crash	75	69	82	79	98	403
Suspected Serious Injury Crash	416	391	434	458	497	2,196
Suspected Minor Injury Crash	2,209	1,951	2,124	2,178	2,391	10,853
Possible Injury Crash	2,877	2,361	2,508	2,380	2,526	12,652
PD > Threshold* Crash	16,805	13,852	15,736	14,968	14,959	76,320
TOTAL	22,382	18,624	20,884	20,063	20,471	102,424

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

PLEASE NOTE:

- 1) The above table count reflects crashes where a teen driver was involved. The type of crash reflects the most severe injury at the crash, not the injury level of the teen driver.
- 2) * denotes that threshold changed during this period. This definition, PD> Threshold, will be used for the remainder of this document and reflects this change in threshold during the period of CY 2019-2023.

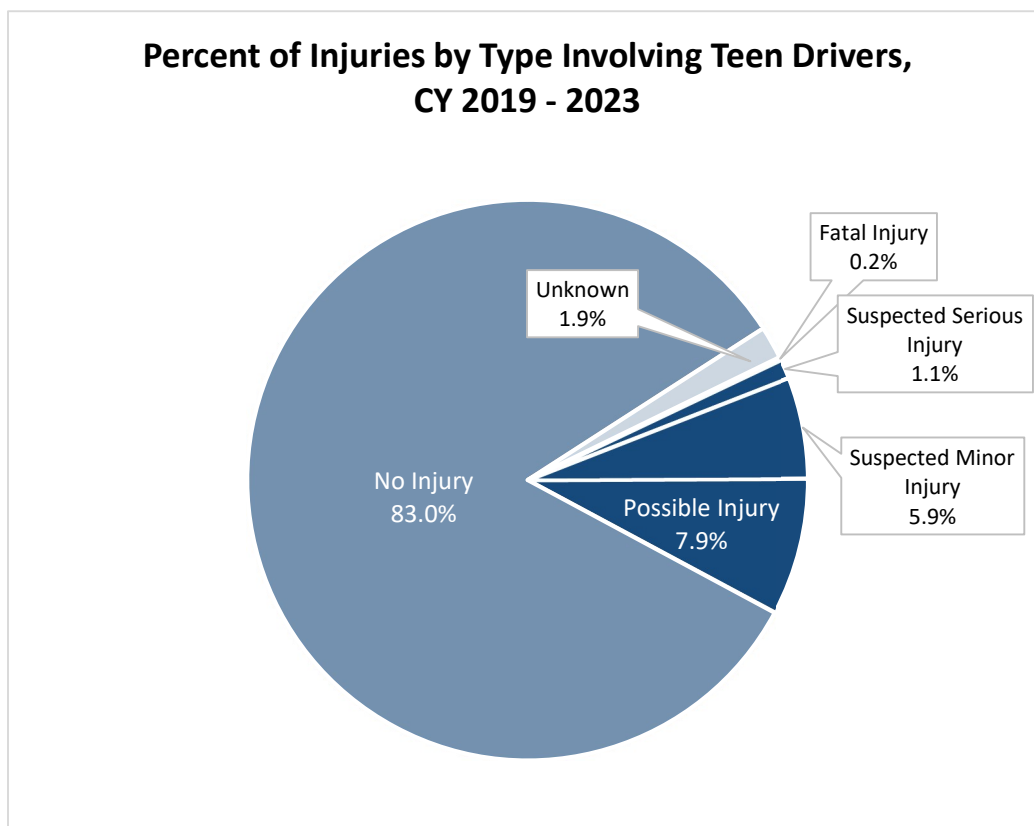


Fatal injuries, while only representing 1.2% of all injuries, did see a 26.5% increase over the five-year period.

Table 3: Injuries by Type Involving Teen Drivers, CY 2019-2023

Year	2019	2020	2021	2022	2023	TOTAL
Fatal Injury	83	86	90	96	105	460
Suspected Serious Injury	577	528	580	604	662	2,951
Suspected Minor Injury	3,111	2,737	3,009	3,206	3,455	15,518
Possible Injury	4,737	3,970	4,149	3,931	4,209	20,996
No Injury	49,045	39,483	45,124	43,297	43,184	220,133
Unknown	1,050	1,030	968	864	1,096	5,008
TOTAL	58,603	47,834	53,920	51,998	52,711	265,066

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 28 May 2024. (Crash)



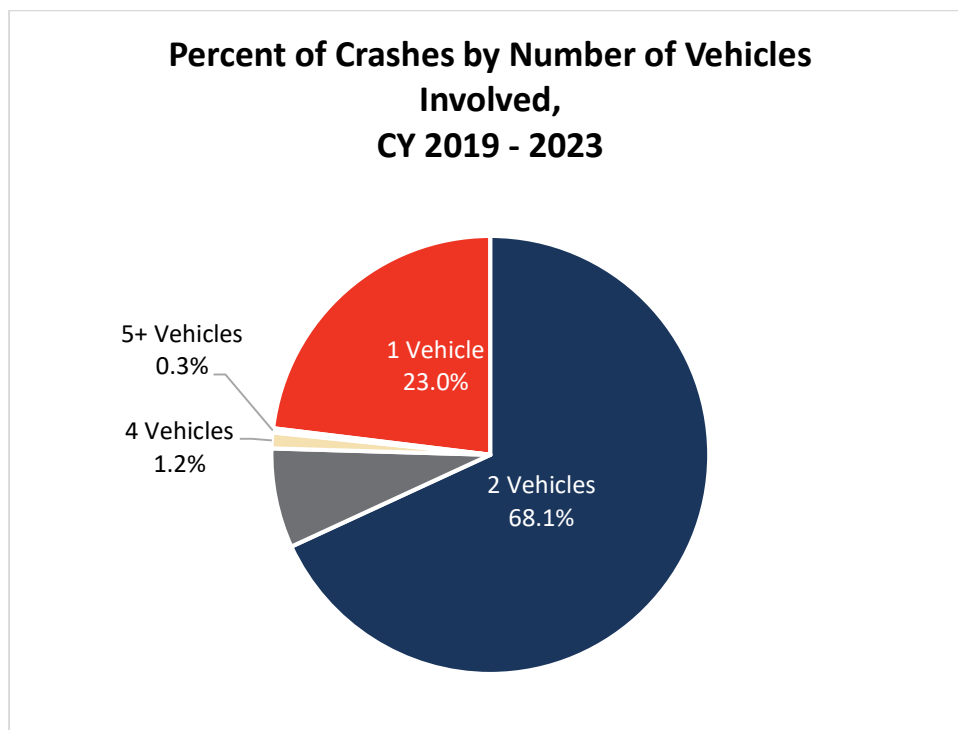
As seen below, crashes involving two vehicles represent nearly 70% of all teen driver-related crashes. As discussed later, the reasons behind this large representation likely relate to operator inexperience and understanding the rules of the road. Below, Table 4 describes teen driver crashes by number of vehicles involved.

Table 4: Teen Driver Crashes by Number of Vehicles Involved, CY 2019-2023

Vehicles Involved	2019	2020	2021	2022	2023	TOTAL	Percent
1	4,852	4,611	4,682	4,640	4,823	23,608	23.0%
2	15,554	12,470	14,322	13,649	13,791	69,786	68.1%
3	1,637	1,312	1,567	1,459	1,553	7,528	7.3%
4	280	193	237	235	238	1,183	1.2%
5	47	25	50	59	47	228	0.2%
6+	12	13	26	21	19	91	0.1%
TOTAL	22,382	18,624	20,884	20,063	20,471	102,424	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

NOTE: This data reflects crashes by number of vehicles involved where at least one driver was aged 14-18.



Given Tennessee's population by county, it is not surprising that those with greater population densities and major metropolitan areas see more teen driver-related crashes comparatively. The five counties with the highest populations (Shelby, Davidson, Knox, Hamilton, and Rutherford in this order) also have the most crashes. Interestingly, Hamilton County just exceeds Knox in teen driver-related crashes over this five-year period. Below is a ranking of teen driver-related crashes by county from 2019-2023.

Table 5: Teen Driver Crashes by County (Top 10), CY 2019 - 2023

County Name	2019	2020	2021	2022	2023	TOTAL	RANK
Shelby	39,419	35,015	38,241	34,872	33,006	180,556	1
Davidson	32,968	23,820	24,857	24,305	24,883	130,883	2
Hamilton	14,077	12,114	13,640	12,658	10,179	62,668	3
Knox	14,514	11,435	12,995	12,605	10,065	61,614	4
Rutherford	10,466	8,901	9,944	10,228	9,856	49,395	5
Montgomery	6,330	5,518	6,220	6,069	5,645	29,782	6
Williamson	5,475	3,847	4,455	4,614	4,665	23,056	7
Sullivan	4,022	3,684	3,878	3,688	3,721	18,993	8
Washington	4,074	3,496	3,936	3,639	3,357	18,502	9
Madison	3,827	3,374	3,966	3,730	3,564	18,461	10

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 7 May 2024. (Crash)

The table below illustrates the types of roads, or route signing, that these types of crashes occur on.

Table 6: Teen Driver Crashes by Route Signing, CY 2019 - 2023

Route Signing	2019	2020	2021	2022	2023	TOTAL	Percent
Municipal Route	6,448	5,189	5,761	5,474	5,211	28,083	27.4%
State Route	3,338	2,903	3,383	3,265	3,352	16,241	15.9%
County Route	3,047	2,666	2,809	2,808	2,991	14,321	14.0%
US Route	1,642	1,424	1,785	1,676	1,589	8,116	7.9%
Interstate	1,200	965	1,201	1,153	1,091	5,610	5.5%
Other	175	148	175	147	176	821	0.8%
Unknown	6,532	5,331	5,770	5,540	6,061	29,234	28.5%
TOTAL	22,382	18,626	20,884	20,063	20,471	102,426	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

It should be noted that the "Unknown" designation usually indicates that law enforcement personnel responding to a crash either failed to include a route signing on a crash report or the circumstances in the crash were unclear.

SECTION 2: DRIVER

The following table includes the injuries of teen drivers in crashes as well as their restraint use. The subsequent table and graph include all vehicle occupants who were fatally injured in crashes (not necessarily crashes involving a teen driver). The greater the injury severity, the less likely these occupants were to be restrained.

Table 7: Teen Driver Injuries by Seatbelt Use and Injury Type, CY 2019-2023

Injury Type	Seatbelt Use	2019	2020	2021	2022	2023	TOTAL	Percent
Fatal Injury	Yes	16	13	17	12	23	81	56%
	No	10	10	12	11	10	53	37%
	Unknown	1	0	4	3	2	10	7%
	TOTAL	27	23	33	26	35	144	N/A
Suspected Serious Injury	Yes	147	113	129	131	143	663	67.4%
	No	48	48	46	47	49	238	24.2%
	Unknown	14	12	19	15	22	82	8.3%
	TOTAL	209	173	194	193	214	983	N/A
Suspected Minor Injury	Yes	1,141	1,026	1,143	1,149	1,282	5,741	89%
	No	63	60	72	93	100	388	6%
	Unknown	58	45	55	65	65	288	4%
	TOTAL	1,262	1,131	1,270	1,307	1,447	6,417	N/A
Possible Injury	Yes	1,563	1,265	1,332	1,236	1,359	6,755	90.4%
	No	30	38	37	55	53	213	2.9%
	Unknown	79	99	108	92	124	502	6.7%
	TOTAL	1,672	1,402	1,477	1,383	1,536	7,470	N/A
No Injury	Yes	19,188	15,416	17,570	16,763	16,891	85,828	94%
	No	160	139	170	163	142	774	1%
	Unknown	866	846	1,013	1,063	1,023	4,811	5%
	TOTAL	20,214	16,401	18,753	17,989	18,056	91,413	N/A
Unknown	Yes	40	41	37	22	81	221	26.5%
	No	13	28	23	24	17	105	12.6%
	Unknown	97	114	86	113	97	507	60.9%
	TOTAL	150	183	146	159	195	833	N/A

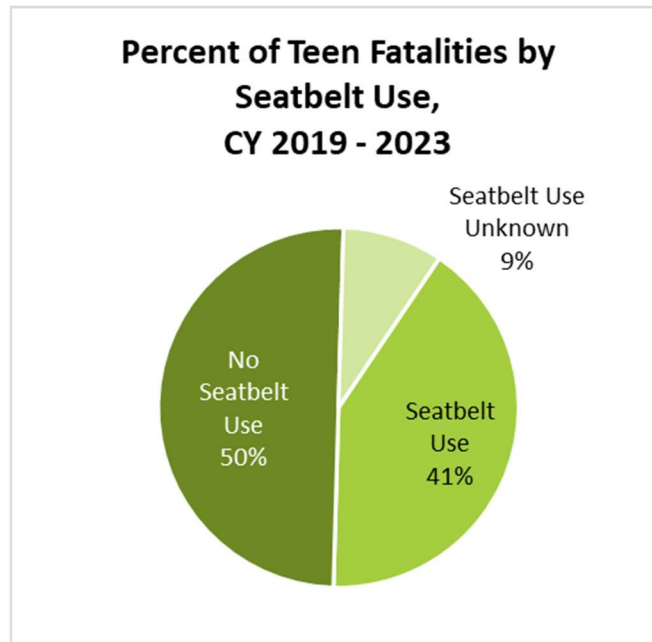
Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 19 Sept 2024. (FTS)

Table 8: Vehicle Occupant Fatalities by Seatbelt Usage and Victim Age Group, CY 2019-2023

Age Group	Seatbelt Use	2019	2020	2021	2022	2023	TOTAL	Percent
Teen	Yes	26	18	24	15	25	108	41%
	No	18	29	26	31	26	130	50%
	Unknown	2	2	5	6	9	24	9%
	TOTAL	46	49	55	52	60	262	N/A
Non-Teen	Yes	371	351	395	383	385	1,885	45.1%
	No	336	377	385	421	334	1,853	44.3%
	Unknown	63	83	110	68	117	441	10.6%
	TOTAL	770	811	890	872	836	4,179	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 19 Sept. 2024. (FTS)

Nearly half of all fatally injured occupants in teen crashes were reported to be unrestrained.

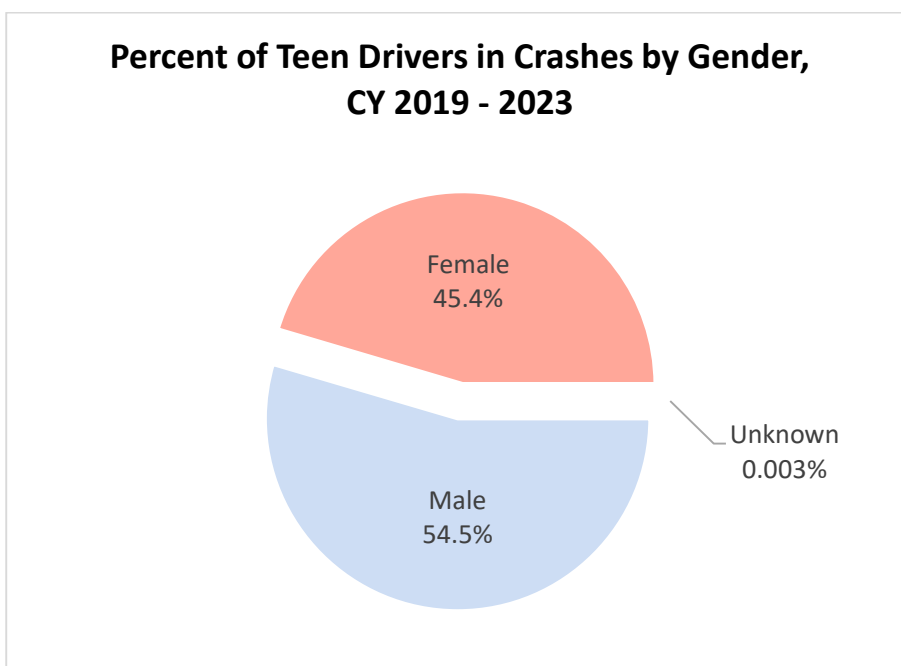


This section includes percentages of crashes by gender and age of the teen driver over the same period. Male teen drivers represented 54.6% of the total for the teenaged group, and female teen drivers represented 45.4%. Over this same period, males represented a similar 53.3% of non-teen drivers while females accounted for 39.6% of the total. The frequency of teen drivers in crashes appears to increase with the age of the teen driver.

Table 9: Teen Drivers in Crashes by Age and Gender, CY 2019-2023

Gender	Age	2019	2020	2021	2022	2023	TOTAL	Percent
Male	14	45	65	69	65	71	315	0.3%
	15	272	285	288	348	345	1,538	1.4%
	16	3,057	2,449	2,789	2,869	3,252	14,416	13.4%
	17	3,856	3,291	3,771	3,690	3,834	18,442	17.1%
	18	5,256	4,566	4,845	4,794	4,736	24,197	22.4%
	TOTAL	12,486	10,656	11,762	11,766	12,238	58,908	54.6%
Female	14	13	38	25	30	26	132	0.1%
	15	205	187	207	217	236	1,052	1.0%
	16	2,849	2,196	2,589	2,432	2,565	12,631	11.7%
	17	3,596	2,759	3,328	3,086	3,107	15,876	14.7%
	18	4,502	3,602	4,104	3,648	3,502	19,358	17.9%
	TOTAL	11,165	8,782	10,253	9,413	9,436	49,049	45.4%
Unknown	TOTAL	2	0	0	0	1	3	0.003%
TOTAL Teen Drivers		23,653	19,438	22,015	21,179	21,675	107,960	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)



Of teen drivers in crashes, over 97% were aged 16-18:

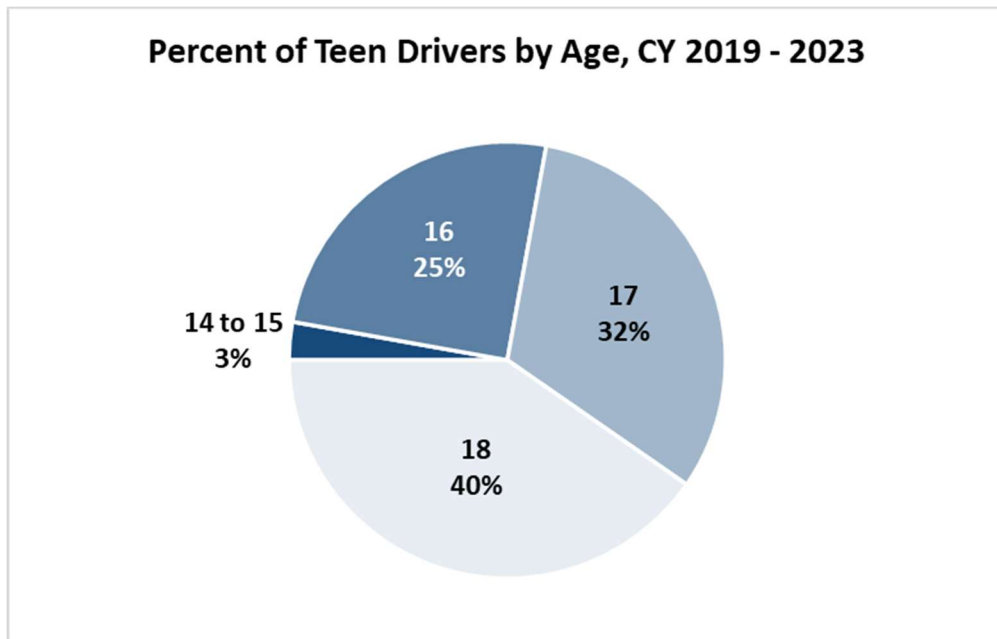
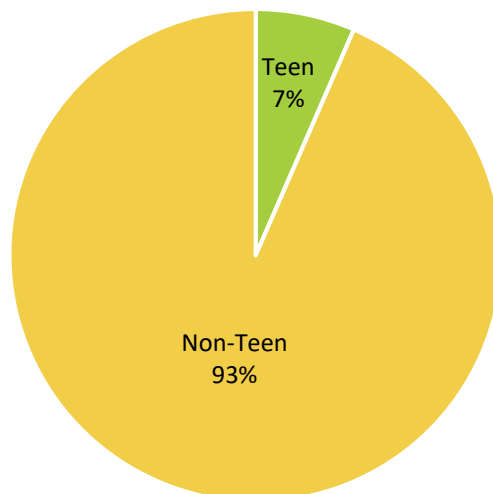


Table 10: All Drivers in Crashes by Age Group and Gender, CY 2019-2023

Age Group	Gender	2019	2020	2021	2022	2023	TOTAL	Percent
Teen	Male	12,486	10,656	11,762	11,766	12,238	58,908	3.6%
	Female	11,165	8,782	10,253	9,413	9,436	49,049	3.0%
	Unknown	2	0	0	0	1	3	0.0%
	TOTAL	23,653	19,438	22,015	21,179	21,675	107,960	6.5%
Non-Teen	Male	178,472	153,578	170,723	165,310	157,343	825,426	49.8%
	Female	143,410	110,898	124,829	120,030	114,065	613,232	37.0%
	Unknown	20,967	20,791	23,674	22,233	22,035	109,700	6.6%
	TOTAL	342,849	285,267	319,226	307,573	293,443	1,548,358	93.5%
ALL Drivers	TOTAL	366,502	304,705	341,241	328,752	315,118	1,656,318	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

Drivers in Crashes by Age Group, CY 2019 - 2023



Fortunately, most teen drivers involved in crashes were licensed properly (nearly 90%), the next greatest category being listed as “not licensed” on the crash report at 9%. The remaining license statuses observed (suspended, expired, revoked, etc.) represented less than two percent of the total but still accounted for a significant number of crashes.

Table 11: Teen Drivers by License Status, CY 2019-2023

License Status	2019	2020	2021	2022	2023	TOTAL	Percent
Valid	21,771	17,191	19,699	18,846	19,334	96,841	89.7%
Not Licensed	1,567	1,952	2,049	2,065	2,086	9,719	9.0%
Suspended	165	138	131	133	113	680	0.63%
Expired	34	32	36	36	26	164	0.15%
Revoked	21	17	11	17	13	79	0.07%
Canceled/Denied	9	11	5	15	7	47	0.04%
Disqualified	4	5	10	8	5	32	0.03%
Unknown	82	92	74	59	91	398	0.37%
TOTAL	23,653	19,438	22,015	21,179	21,675	107,960	N/A

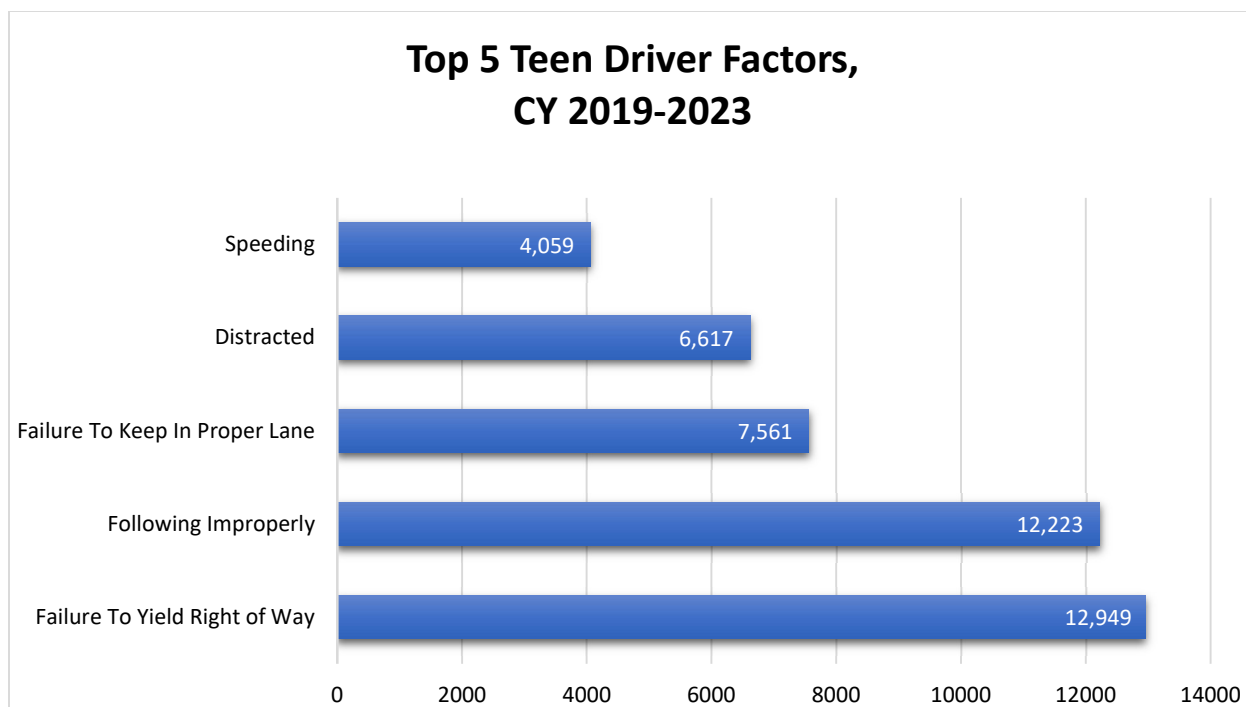
Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 18 Jun 2024. (Crash)

The actions taken by teen drivers leading to motor vehicle crashes are myriad and may be reflective of learning the rules of the road or becoming more experienced over time, although the most prevalent actions by teen drivers are not so dissimilar from drivers in all age groups. As “failure to yield right of way” leads this category, it is reasonable to suggest this action is related to Table 4’s observation that most teen driver-related crashes involve another motor vehicle. The items below describe the most prevalent Driver Actions and Driver Conditions noted on police crash reports over the 5-year period.

Table 12: Teen Driver Crashes by Driver Action, CY 2019 – 2023

Driver Action	2019	2020	2021	2022	2023	TOTAL
Failure To Yield Right of Way	2,715	2,235	2,793	2,598	2,608	12,949
Following Improperly	3,043	2,054	2,463	2,373	2,290	12,223
Failure To Keep In Proper Lane	1,519	1,522	1,434	1,486	1,600	7,561
Distracted	1,844	1,307	1,262	1,160	1,044	6,617
Speeding	847	817	829	763	803	4,059
Operator Inexperience	790	692	756	805	803	3,846
Careless Erratic Driving	456	438	532	434	417	2,277
Swerved or Avoided	393	437	410	429	393	2,062
Improper Lane Changing	414	350	422	391	424	2,001
Failure To Obey Traffic Controls	392	349	383	360	368	1,852
Over Correcting	340	354	348	347	365	1,754
Improper Turn	313	242	328	367	326	1,576
Reckless Negligent Driving	179	208	187	159	184	917
Improper Backing	200	139	112	122	135	708
Improper Passing	106	108	110	83	92	499
Vision Obstructed	82	51	94	90	74	391
Driving On Wrong Side Of Road	68	50	59	61	58	296
Failure To Observe Warnings Or Instructions	39	33	34	32	50	188
Failure To Comply With License Restrictions	28	27	36	29	29	149
Aggressive Driving / Road Rage	20	18	31	25	28	122
Operating Without Required Equipment	14	13	14	12	26	79
Failure To Use Lights	18	10	20	15	10	73
Failure To Signal Intentions	11	13	5	6	7	42
Driving Wrong Way On One Way Roadway	8	9	4	8	10	39
Speed Too Slow	7	3	5	2	5	22
Improper Loading Vehicle Cargo Or Passengers	5	2	4	3	1	15
Improperly Towing Or Pushing Vehicle	2	2	1	2	1	8
Improperly Carrying Hazardous Cargo	1	2	0	0	0	3
Other	1,147	966	1,129	1,006	874	5,122

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 13 Jun 2024. (Crash)



**NOTE: More than one "Driver Action" can be ascribed to a driver, and law enforcement officers are not required to denote any action/condition if none apply.*

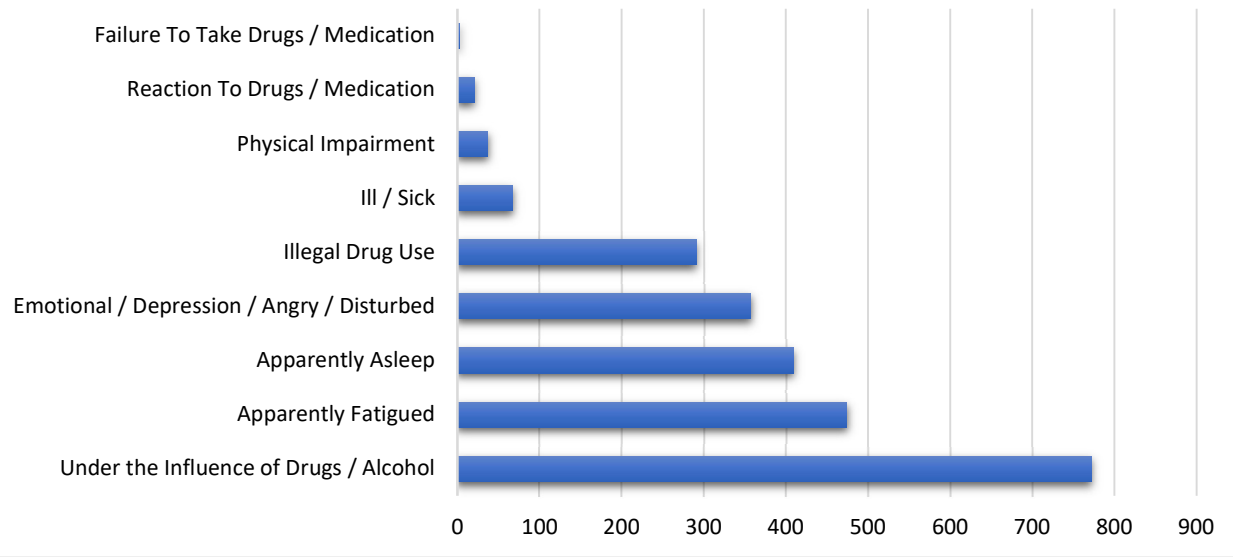
Regarding the conditions of teen drivers below, the leading category, "Under the Influence of Drugs/Alcohol," here suggests the driver may have been under the influence of one, the other, or both.

Table 13: Teen Drivers in Crashes by Driver Condition, CY 2019 – 2023

Driver Condition	2019	2020	2021	2022	2023	TOTAL
Under the Influence of Drugs / Alcohol	133	139	158	151	191	772
Apparently Fatigued	124	82	82	92	94	474
Apparently Asleep	91	89	63	78	88	409
Emotional / Depression / Angry / Disturbed	64	65	80	76	72	357
Illegal Drug Use	79	71	62	43	36	291
Ill / Sick	20	11	13	11	12	67
Physical Impairment	5	7	10	11	4	37
Reaction To Drugs / Medication	5	3	6	5	1	20
Failure To Take Drugs / Medication	1	1	0	1	0	3

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 13 Jun 2024. (Crash)

Teen Drivers in Crashes by Driver Condition, CY 2019-2023

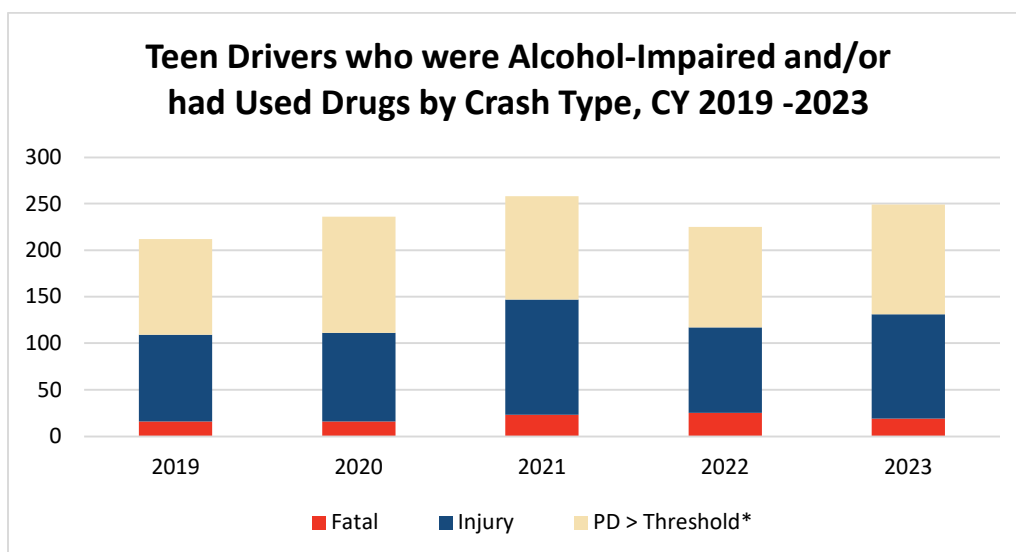
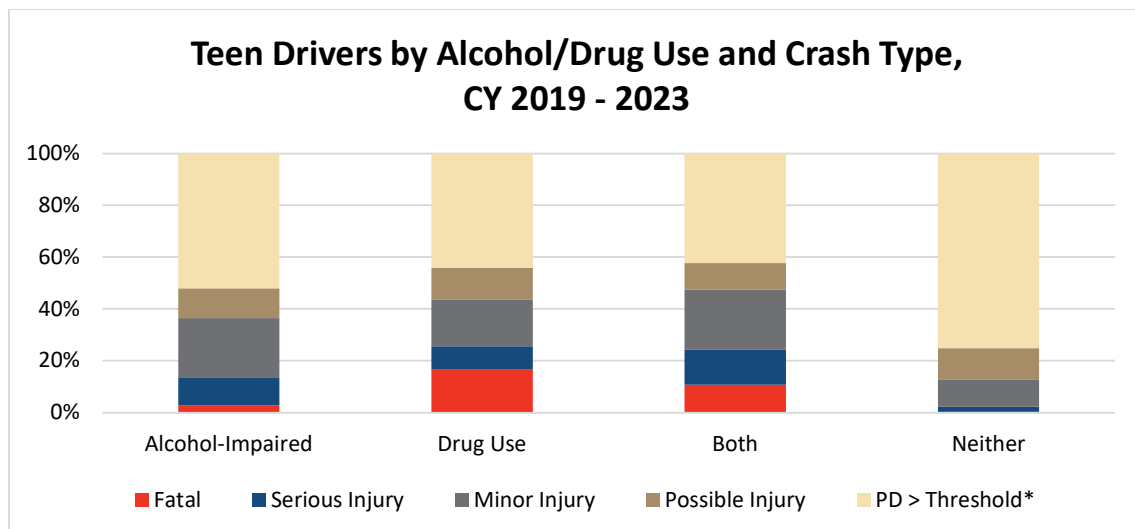


Furthering the observation of impairment among teen drivers in crashes, the following tables and charts describe the crash types of teen driver-involved crashes where alcohol impairment, drug use, both, or neither were noted, as well as the types of drugs involved when drug use was indicated. It should be noted that more than one substance or means of impairment may apply to a single driver. As observed below, alcohol impairment is the leading factor in all crash types except fatal injury crashes, where drug use accounts for roughly triple the amount of crashes involving other categories of substance use. Fortunately, most crashes do not involve alcohol or drug impairment.

Table 14: Teen Drivers by Alcohol/Drug Use and Crash Type, CY 2019 – 2023

Crash Type	Alcohol/Drug Use	2019	2020	2021	2022	2023	TOTAL	Percent
Fatal	Alcohol-Impaired	3	4	2	3	5	17	4.2%
	Drug Use	12	8	16	15	8	59	14.5%
	Both	1	4	5	7	6	23	5.7%
	Neither	59	53	60	56	80	308	75.7%
Suspected Serious Injury	Alcohol-Impaired	10	12	19	10	13	64	2.8%
	Drug Use	7	9	10	3	3	32	1.4%
	Both	6	3	8	3	9	29	1.3%
	Neither	404	374	410	457	481	2,126	94.4%
Suspected Minor Injury	Alcohol-Impaired	17	20	32	30	42	141	1.2%
	Drug Use	16	13	17	9	9	64	0.6%
	Both	10	11	6	9	14	50	0.4%
	Neither	2,257	1,967	2,151	2,220	2,434	11,029	97.7%
Possible Injury	Alcohol-Impaired	13	12	16	17	12	70	0.5%
	Drug Use	9	13	9	8	5	44	0.3%
	Both	5	2	7	3	5	22	0.2%
	Neither	2,988	2,438	2,571	2,437	2,642	13,076	99.0%
PD > Threshold*	Alcohol-Impaired	43	59	58	68	89	317	0.4%
	Drug Use	40	47	29	26	15	157	0.2%
	Both	20	19	24	14	14	91	0.1%
	Neither	17,733	14,370	16,565	15,784	15,789	80,241	99.3%

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 11 Jun 2024. (Crash)



Marijuana use was indicated for the majority (59%) of teen drivers who had used drugs in crashes. This is trailed by methamphetamines and other amphetamines, representing 9.5% and 6.5% respectively.

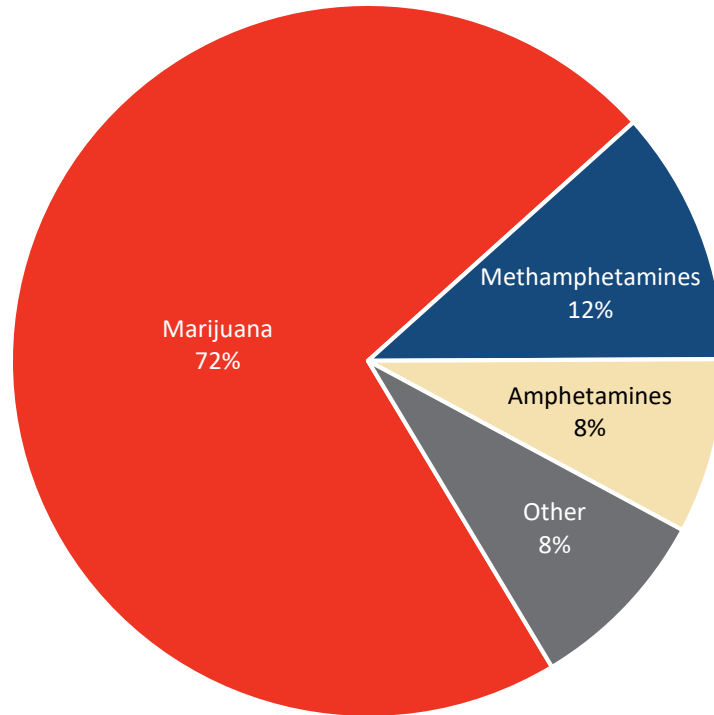
There are some important distinctions to note: below, “Other Controlled Substance” refers to substances regulated by the FDA among the various schedules established by the Controlled Substances Act (CSA). In the consideration below, the major and more prevalent categories are listed individually (marijuana, opiates, PCP, etc.), with a more encompassing “Other Controlled Substances” category. “Other Drug” here refers to substances that may be prescribed or generally available, such as caffeine or other substances that may not be regulated. “No Drug Reported” describes a scenario where drug use was suspected, but the toxicology screen yielded a negative result after the crash incident.

Table 15: Teen Driver Drug Use by Drug Type, CY 2019 – 2023

Drug Type	2019	2020	2021	2022	2023	TOTAL
Marijuana	20	22	30	26	20	118
Methamphetamines	6	3	7	2	1	19
Amphetamines	5	0	5	2	1	13
Opiates	1	1	3	1	0	6
Cocaine	1	0	2	0	1	4
Fentanyl	1	0	0	2	0	3
PCP	0	0	1	0	0	1
Other Drug	5	4	4	4	5	22
Other Controlled Substance	3	4	5	2	0	14
No Drug Reported	10	7	12	10	14	53
Unknown	39	45	49	35	32	200
TOTAL	91	86	118	84	74	453

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 11 Jun 2024. (Crash)

**Percent of Teen Driver Known Drug Use by Top 3 Types,
CY 2019 - 2023**



A large source of distraction for a teen driver is the presence of one or more passengers in the vehicle. The following charts examine the crash injury severity of passengers in vehicles with teen drivers by age group. These passengers do not include the teen drivers, therefore crashes in which the teen driver was driving alone are not included. Subsequently, Table 17 notes the number of passengers (when one or more were present) in each teen driver's vehicle.

Table 16: Passengers of Teen Drivers by Injury Type and Passenger Age Group, CY 2019 - 2023

Injury Type	Teen Passengers	Non-Teen Passengers	TOTAL	Percent
Fatal	73	27	100	0.2%
Suspected Serious Injury	509	221	730	1.7%
Suspected Minor Injury	1,826	911	2,737	6.4%
Possible Injury	2,388	1,336	3,724	8.7%
No Injury	22,560	12,462	35,022	82.2%
Unknown	126	152	278	0.7%
TOTAL	27,482	15,109	42,591	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 18 Jun 2024. (Crash)

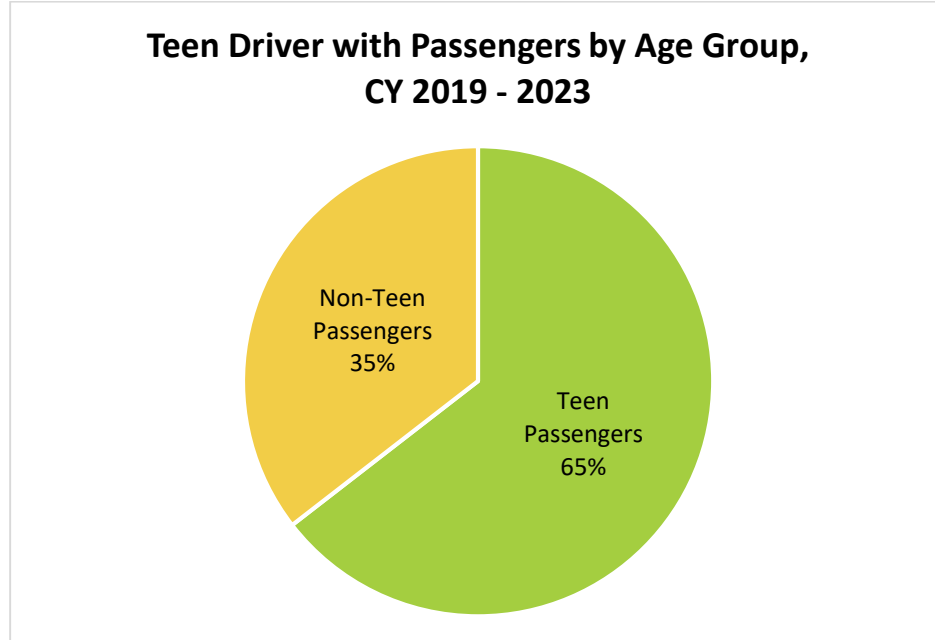


Table 17: Teen Driver Passengers by Number of Passengers and Passenger Age Group, CY 2019 – 2023

Passenger Count	Number of Vehicles	Teen Passengers	Non-Teen Passengers	Percent
1	24,958	16,173	8,743	77.0%
2	5,269	6,797	3,708	16.2%
3	1,711	3,288	1,819	5.3%
4	406	994	625	1.3%
5	62	172	134	0.2%
6	17	37	65	0.05%
7	4	18	10	0.01%
8	1	3	5	0.003%
TOTAL	32,428	27,482	15,109	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 18 Jun 2024. (Crash)

Teen Drivers with One or More Passengers, CY 2019 - 2023

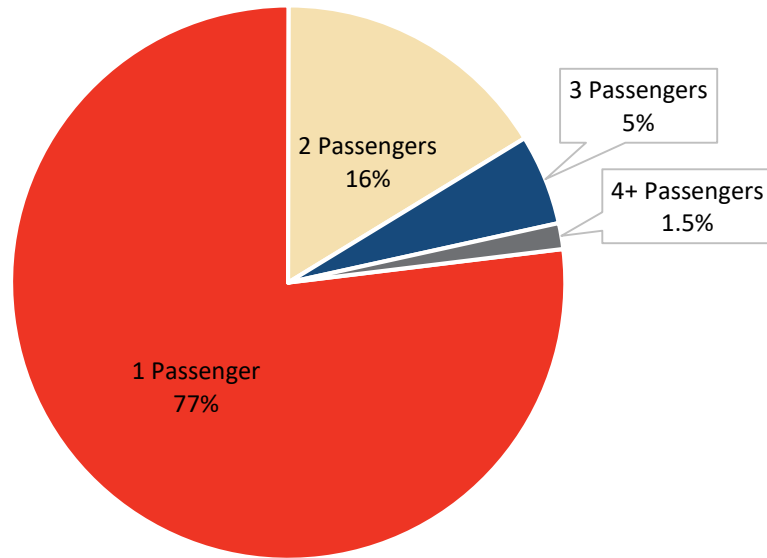


Table 18: Occupants in Crashes Involving a Teen Driver by Vehicle Class and Injury Type, CY 2019 –2023

Vehicle Class	Fatal Injury	Suspected Serious Injury	Suspected Minor Injury	Possible Injury	No Injury	Unknown	TOTAL
Bus	0	1	28	96	790	5	920
Large Truck (10,000+ lbs.)	11	10	58	82	2,752	130	3,043
Light Truck Or Van	150	1,032	5,787	7,415	94,449	1,406	110,239
Motorcycle	41	231	282	185	214	11	964
Passenger Car	210	1,499	9,090	13,018	120,969	2,286	147,072
Other/Unknown Type	6	95	132	84	748	1,167	2,232
TOTAL	418	2,868	15,377	20,880	219,922	5,005	264,470

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 20 Feb 2025. (Crash)

Table 19: Percent of Occupants in Crashes Involving a Teen Driver by Vehicle Class and Injury Type, CY 2019 - 2023

Vehicle Class	Fatal Injury	Suspected Serious Injury	Suspected Minor Injury	Possible Injury	No Injury	Unknown
Bus	0.0%	0.1%	3.0%	10.4%	85.9%	0.5%
Large Truck (10,000+ lbs.)	0.4%	0.3%	1.9%	2.7%	90.4%	4.3%
Light Truck Or Van	0.1%	0.9%	5.2%	6.7%	85.7%	1.3%
Motorcycle	4.3%	24.0%	29.3%	19.2%	22.2%	1.1%
Passenger Car	0.1%	1.0%	6.2%	8.9%	82.3%	1.6%
Other/Unknown Type	0.3%	4.3%	5.9%	3.8%	33.5%	52.3%
TOTAL	418	2,868	15,377	20,880	219,922	5,005

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 20 Feb 2025. (TITAN, FTS)

SECTION 3: SCENARIO

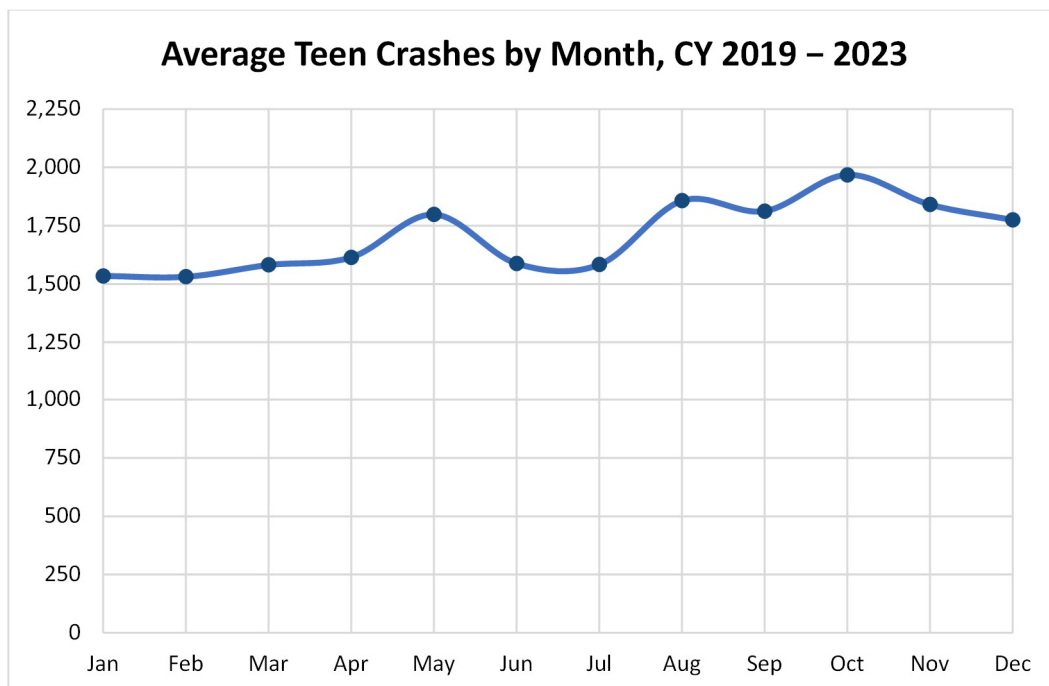
The following tables examine the teen-driver crashes by month, day of week, and hour of day. As expected, more crashes occurred during months of the school year and the fair-weather summer months. There was a noticeable decrease in crashes in April of 2020 during the Stay at Home Order*.

Table 20: Teen Driver Crashes by Month, CY 2019 – 2023

Month	2019	2020	2021	2022	2023	TOTAL	Average
January	1,645	1,727	1,389	1,339	1,574	7,674	1,535
February	1,749	1,753	1,201	1,510	1,442	7,655	1,531
March	1,738	1,400	1,587	1,576	1,607	7,908	1,582
April	1,990	750	1,801	1,734	1,797	8,072	1,614
May	2,081	1,277	1,919	1,897	1,818	8,992	1,798
June	1,668	1,468	1,812	1,396	1,596	7,940	1,588
July	1,614	1,603	1,692	1,491	1,515	7,915	1,583
August	1,929	1,803	1,941	1,753	1,860	9,286	1,857
September	1,812	1,764	1,858	1,847	1,782	9,063	1,813
October	2,222	1,849	2,016	1,846	1,908	9,841	1,968
November	2,072	1,617	1,856	1,842	1,816	9,203	1,841
December	1,862	1,613	1,812	1,832	1,756	8,875	1,775
TOTAL	22,382	18,624	20,884	20,063	20,471	102,424	20,485

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

*<https://www.tn.gov/governor/covid-19/covid19timeline.html>



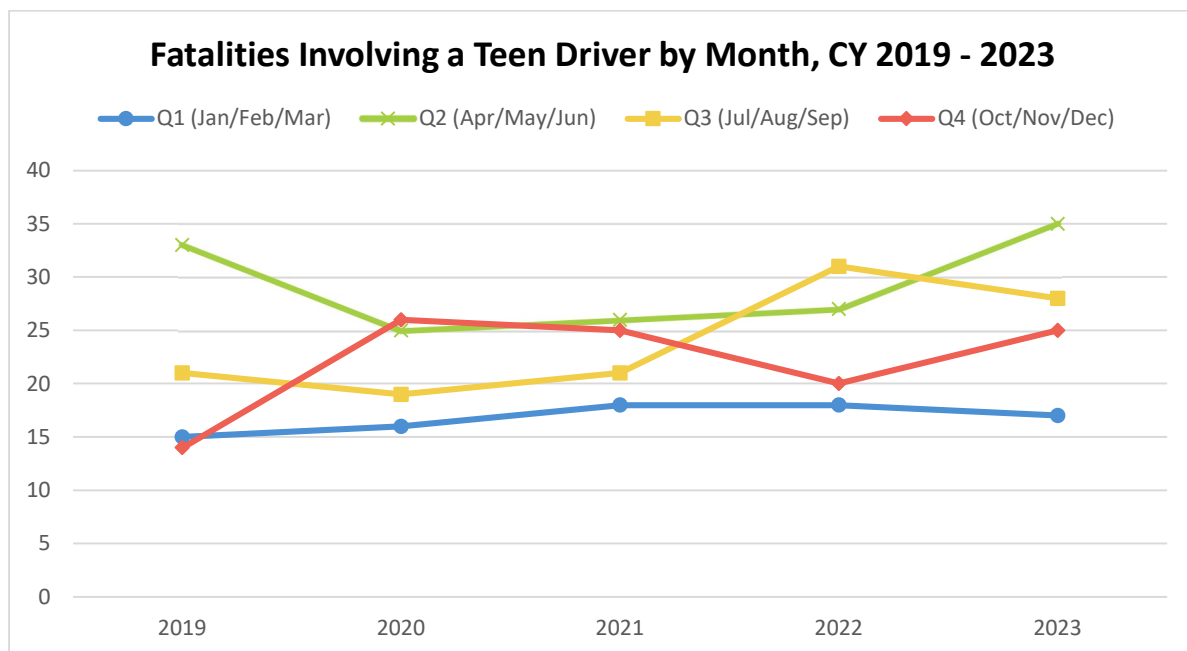
Naturally, fatalities followed a similar trend. Of note, a sharp increase in fatalities can be observed in May of 2020; considering the “Covid Timeline”* in Tennessee, it was around this time that the state began to re-allow access to businesses and entertainment venues. This brief reopening period may account for the abnormal “jump” in fatalities.

Table 21: Fatalities Involving a Teen Driver by Month, CY 2019 – 2023

Month	2019	2020	2021	2022	2023	TOTAL
January	5	2	4	6	5	22
February	4	8	8	6	8	34
March	6	6	6	6	4	28
April	14	3	8	10	12	47
May	11	18	9	8	8	54
June	8	4	9	9	15	45
July	5	10	6	12	14	47
August	8	6	9	7	4	34
September	8	3	6	12	10	39
October	6	6	10	6	8	36
November	3	8	4	7	12	34
December	5	12	11	7	5	40
TOTAL	83	86	90	96	105	460

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 2 May 2024. (FTS)

*<https://www.tn.gov/governor/covid-19/covid19timeline.html>



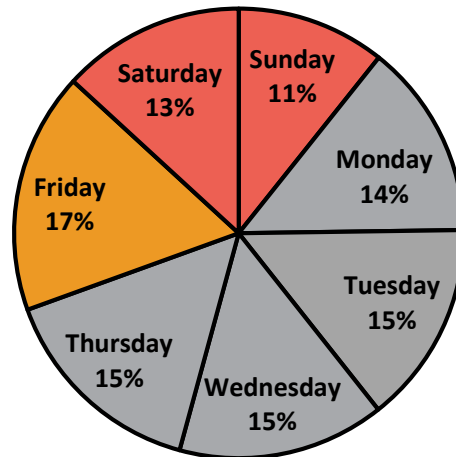
As the week progresses from Sunday, teen-driver crashes gradually increase day-to-day and result in the greatest percentage occurring on Friday at 17%, then falling back to Sunday's 11% over the weekend.

Table 22: Teen Driver Crashes by Day of Week, CY 2019 - 2023

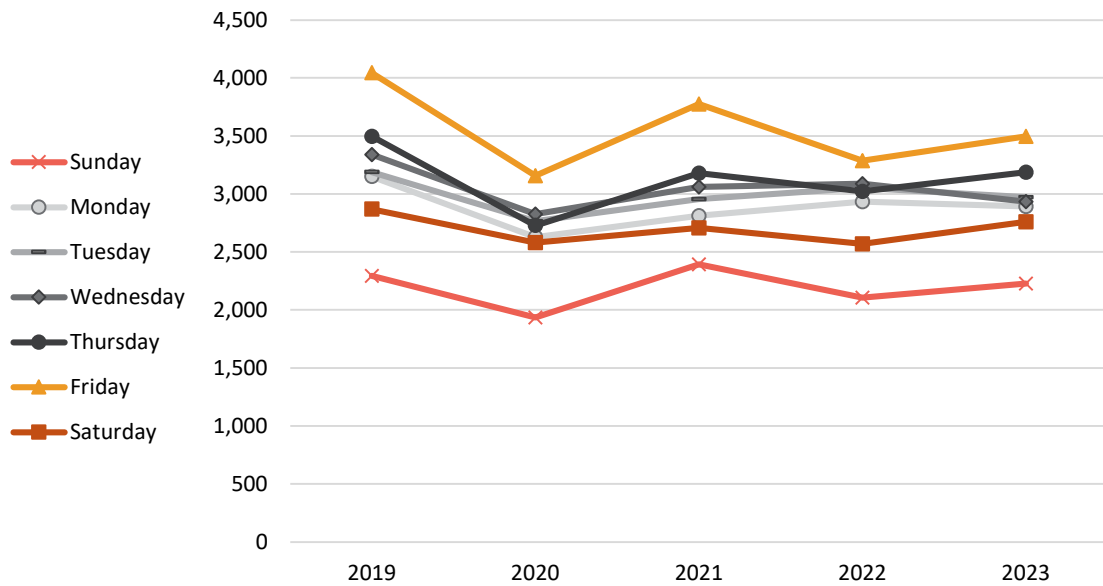
Day of the Week	2019	2020	2021	2022	2023	TOTAL	Percent
Sunday	2,293	1,936	2,393	2,107	2,228	10,957	11%
Monday	3,150	2,629	2,813	2,934	2,893	14,419	14%
Tuesday	3,189	2,766	2,956	3,053	2,972	14,936	15%
Wednesday	3,340	2,826	3,061	3,089	2,933	15,249	15%
Thursday	3,497	2,729	3,179	3,023	3,187	15,615	15%
Friday	4,044	3,158	3,776	3,287	3,497	17,762	17%
Saturday	2,869	2,580	2,706	2,570	2,761	13,486	13%

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

Percent of Teen Driver Crashes by Day of Week, CY 2019 - 2023



Teen Driver Crashes by Day of Week, CY 2019 - 2023



Days of the Week are grouped into three color coded groups:

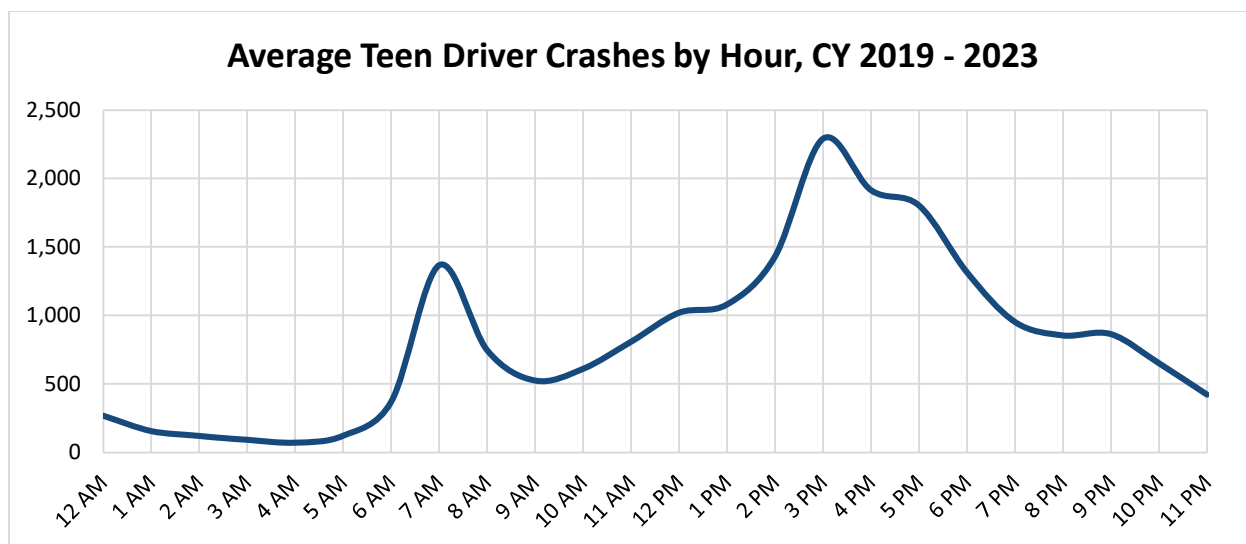
- Saturday and Sunday are RED.
- Friday is ORANGE.
- Weekdays (Monday – Thursday) are GRAY.

Crashes throughout the day by hour have similarly predictable trends: a higher frequency during the hours commuting to and from school, slowly decreasing into the evening hours.

Table 23: Teen Driver Crashes by Hour, CY 2019 - 2023

Hour of the Day	2019	2020	2021	2022	2023	Average
12 AM	284	257	259	276	258	266.8
1 AM	141	165	167	154	153	156.0
2 AM	112	111	129	124	128	120.8
3 AM	104	98	99	71	89	92.2
4 AM	69	68	72	75	76	72.0
5 AM	123	119	129	116	125	122.4
6 AM	461	292	313	391	403	372.0
7 AM	1,698	879	1,291	1,487	1,483	1,367.6
8 AM	814	538	790	778	801	744.2
9 AM	563	474	536	532	518	524.6
10 AM	689	575	603	614	580	612.2
11 AM	855	796	865	758	780	810.8
12 PM	1,068	1,039	1,092	931	971	1,020.2
1 PM	1,115	1,157	1,076	1,064	989	1,080.2
2 PM	1,564	1,380	1,526	1,317	1,375	1,432.4
3 PM	2,596	2,002	2,325	2,285	2,245	2,290.6
4 PM	2,192	1,648	1,975	1,826	1,930	1,914.2
5 PM	2,118	1,670	1,823	1,698	1,707	1,803.2
6 PM	1,461	1,238	1,317	1,246	1,312	1,314.8
7 PM	998	915	998	946	903	952.0
8 PM	882	797	901	835	861	855.2
9 PM	844	791	861	867	955	863.6
10 PM	635	597	682	677	663	650.8
11 PM	426	439	406	413	432	423.2
Unknown	570	579	649	582	734	622.8
TOTAL	22,382	18,624	20,884	20,063	20,471	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)



Considering the above observation regarding crashes occurring more frequently around school day-related congestion, the following two tables examine crashes in school zones including teen and non-teen drivers alike. In both cases, the number of crashes decrease with increased severity of crash type.

Table 24: School Zone Teen Driver Crashes by Type, CY 2019 - 2023

Year	2019	2020	2021	2022	2023	TOTAL	Percent
Fatal Crash	0	0	0	0	0	0	0.0%
Suspected Serious Injury Crash	2	1	0	2	3	8	0.7%
Suspected Minor Injury Crash	18	16	15	19	9	77	6.5%
Possible Injury Crash	29	14	13	18	14	88	7.5%
PD > Threshold* Crash	266	140	176	208	214	1,004	85.3%
TOTAL	315	171	204	247	240	1,177	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

Table 25: School Zone Non-Teen Driver Crashes by Type, CY 2019 - 2023

Year	2019	2020	2021	2022	2023	TOTAL	Percent
Fatal Crash	0	0	3	0	1	4	0.1%
Suspected Serious Injury Crash	16	7	9	13	14	59	1.5%
Suspected Minor Injury Crash	66	41	60	56	56	279	7.1%
Possible Injury Crash	121	49	70	81	89	410	10.4%
PD > Threshold* Crash	802	451	622	660	667	3,202	81.0%
TOTAL	1,005	548	764	810	827	3,954	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

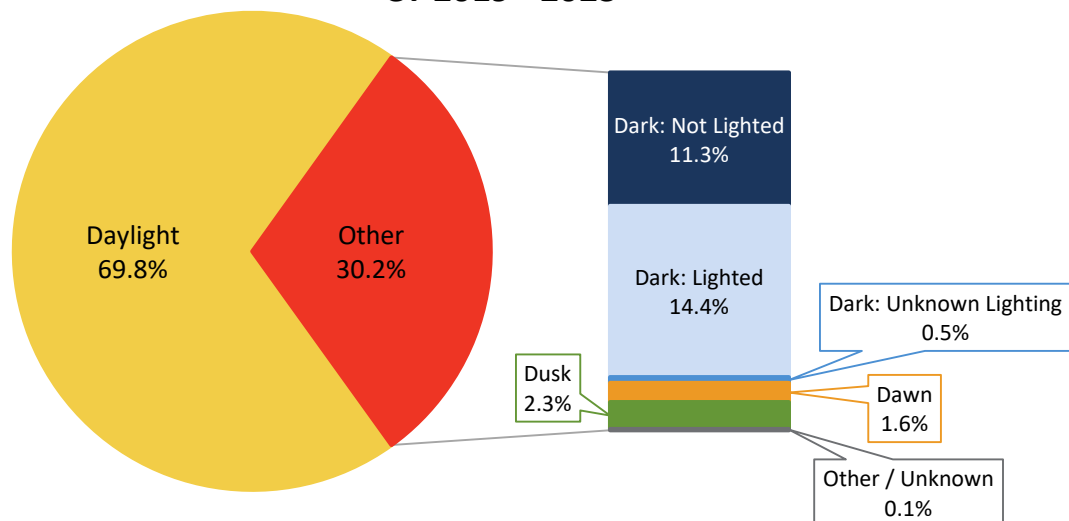
Light condition is an important consideration regarding teen driver crashes. For instance, as noted above, there are restrictions regarding driving at night as a teen driver works towards earning a graduated driver license and gains experience behind the wheel. As noted by Table 23 above (“Crashes by Hour”), teen-driver crashes occur mostly during daylight hours. The following charts show light condition at the time of crash.

Table 26: Teen Driver Crashes by Light Condition, CY 2019 - 2023

Light Condition	2019	2020	2021	2022	2023	TOTAL	Percent
Daylight	15,891	12,653	14,643	13,978	14,048	71,213	69.5%
Dark: Not Lighted	2,314	2,236	2,236	2,263	2,445	11,494	11.2%
Dark: Lighted	3,086	2,833	3,038	2,845	2,929	14,731	14.4%
Dark: Unknown Lighting	100	72	100	111	120	503	0.5%
Dawn	375	269	325	309	360	1,638	1.6%
Dusk	517	478	434	442	442	2,313	2.3%
Other / Unknown	99	83	108	115	127	107	0.1%
TOTAL	22,382	18,624	20,884	20,063	20,471	102,424	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)

**Percent of Teen Driver Crashes by Light Condition,
CY 2019 - 2023**

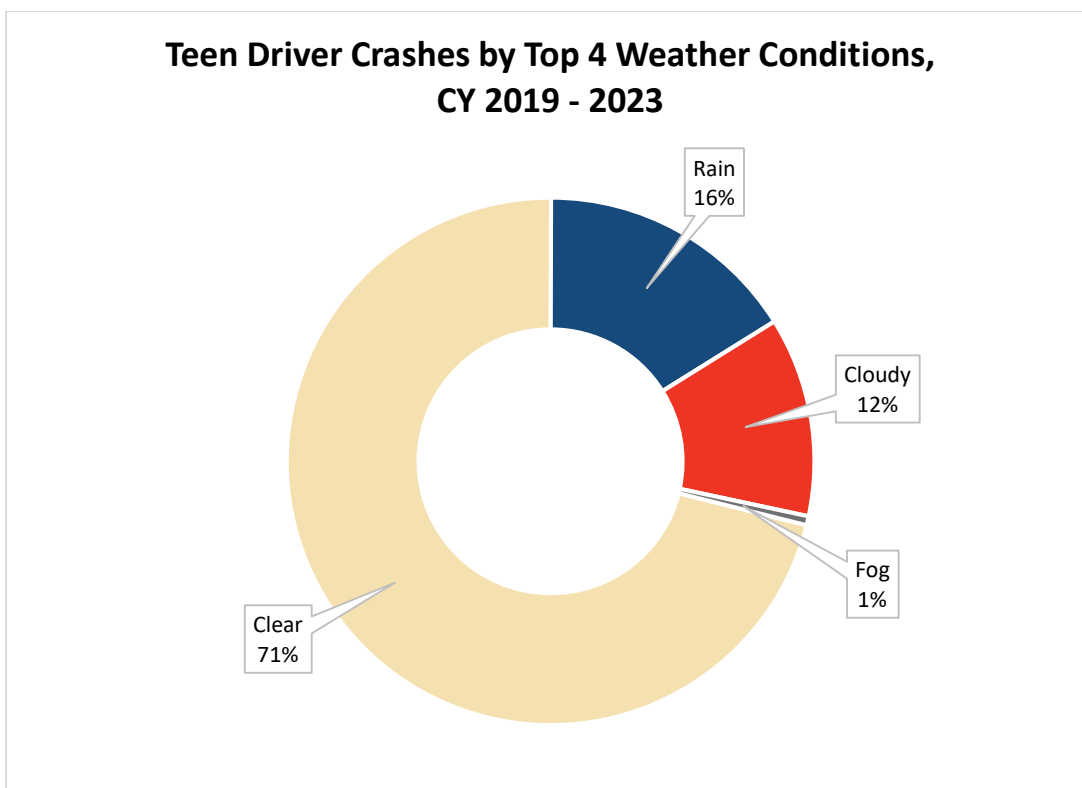


Similarly, weather condition is an important component to a teen driver's experience. Although one might expect to see more teen driver crashes during inclement weather, nearly three quarters of teen driver crashes occurred under clear conditions. Crashes in rainy conditions are much less frequent at 16%. The following describes weather condition in teen-driver crashes at the time of crash.

Table 27: Teen Driver Crashes by Weather Conditions, CY 2019 - 2023

Weather Conditions	2019	2020	2021	2022	2023	TOTAL	Average	Percent
Clear	16,187	12,617	15,205	15,112	15,101	74,222	14,844.4	69.05%
Rain	4,361	3,553	3,115	2,870	2,872	16,771	3,354.2	15.60%
Cloudy	2,335	2,222	2,821	2,594	2,803	12,775	2,555.0	11.88%
Fog	80	82	132	121	151	566	113.2	0.53%
Snow	50	105	112	211	17	495	99.0	0.46%
Sleet/Hail	31	12	30	34	11	118	23.6	0.11%
Freezing Rain/Freezing Drizzle	0	4	48	24	18	94	18.8	0.09%
Blowing Snow	0	14	4	30	5	53	10.6	0.05%
Severe Cross-Winds	5	5	7	8	13	38	7.6	0.04%
Blowing Sand/Soil/Dirt	2	4	2	2	4	14	2.8	0.01%
Smog/Smoke	1	3	3	2	4	13	2.6	0.01%
Other	19	23	23	28	21	114	22.8	0.11%
Unknown	57	576	611	240	732	2,216	443.2	2.06%

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 24 Apr 2024. (Crash)



Appendix

Appendix 1: Teen Driver Crashes by County, CY 2019-2023

County Name	2019	2020	2021	2022	2023	TOTAL	RANK
Anderson	1,892	1,722	1,919	1,881	1,819	9,233	19
Bedford	1,236	1,113	1,224	1,192	1,189	5,954	28
Benton	350	344	353	310	358	1,715	64
Bledsoe	85	79	82	71	86	403	90
Blount	3,248	2,816	3,221	3,047	3,048	15,380	14
Bradley	3,098	2,890	3,237	2,909	2,928	15,062	15
Campbell	998	947	1,040	955	897	4,837	32
Cannon	266	235	258	272	253	1,284	74
Carroll	407	434	415	422	407	2,085	60
Carter	1,106	1,133	1,154	1,227	1,102	5,722	30
Cheatham	900	816	856	906	862	4,340	34
Chester	334	320	334	325	336	1,649	65
Claiborne	520	477	427	426	454	2,304	57
Clay	71	60	54	77	62	324	93
Cocke	963	993	933	991	1,010	4,890	31
Coffee	1,519	1,486	1,587	1,431	1,511	7,534	22
Crockett	197	190	215	198	186	986	80
Cumberland	1,378	1,264	1,332	1,376	1,246	6,596	26
Davidson	32,968	23,820	24,857	24,305	24,883	130,833	2
Decatur	227	195	234	246	277	1,179	78
DeKalb	321	303	332	328	341	1,625	66
Dickson	1,368	1,266	1,449	1,412	1,380	6,875	23
Dyer	732	678	793	788	728	3,719	42
Fayette	603	638	695	700	689	3,325	45
Fentress	299	299	331	261	323	1,513	69
Franklin	601	508	656	640	674	3,079	50
Gibson	675	641	783	712	775	3,586	44
Giles	848	792	843	842	857	4,182	36
Grainger	259	314	318	328	290	1,509	70
Greene	1,749	1,518	1,658	1,470	1,532	7,927	20
Grundy	287	230	304	229	212	1,262	75
Hamblen	1,662	1,503	1,610	1,525	1,605	7,905	21

Hamilton	14,077	12,114	13,640	12,658	10,179	62,668	3
Hancock	98	80	80	74	65	397	91
Hardeman	464	414	422	374	408	2,082	61
Hardin	681	632	637	614	603	3,167	46
Hawkins	718	821	857	933	869	4,198	35
Haywood	507	527	603	592	639	2,868	51
Henderson	786	820	762	810	809	3,987	38
Henry	472	399	502	495	481	2,349	56
Hickman	498	508	496	537	417	2,456	53
Houston	142	105	111	77	98	533	86
Humphreys	291	365	368	363	360	1,747	63
Jackson	87	57	101	101	101	447	88
Jefferson	1,122	1,114	1,206	1,149	1,194	5,785	29
Johnson	327	311	381	264	330	1,613	67
Knox	14,514	11,435	12,995	12,605	10,065	61,614	4
Lake	52	38	54	59	32	235	95
Lauderdale	432	459	455	428	458	2,232	58
Lawrence	794	691	813	793	831	3,922	39
Lewis	191	164	181	209	191	936	82
Lincoln	780	738	804	774	730	3,826	41
Loudon	1,339	1,201	1,449	1,312	1,303	6,604	25
Macon	300	258	340	339	371	1,608	68
Madison	3,827	3,374	3,966	3,730	3,564	18,461	10
Marion	686	585	656	638	586	3,151	48
Marshall	746	650	737	751	722	3,606	43
Maury	2,513	2,306	2,523	2,771	2,687	12,800	16
McMinn	1,440	1,290	1,436	1,326	1,367	6,859	24
McNairy	508	469	467	495	475	2,414	55
Meigs	140	163	146	120	145	714	85
Monroe	859	777	840	840	814	4,130	37
Montgomery	6,330	5,518	6,220	6,069	5,645	29,782	6
Moore	83	76	88	95	89	431	89
Morgan	162	163	150	144	163	782	84
Obion	679	594	644	613	568	3,098	49
Overton	420	324	366	400	424	1,934	62
Perry	90	69	57	61	84	361	92
Pickett	47	50	45	48	49	239	94
Polk	283	322	325	274	288	1,492	72
Putnam	2,348	2,130	2,426	2,274	2,337	11,515	17
Rhea	656	614	661	607	616	3,154	47

Roane	1,245	1,158	1,276	1,271	1,157	6,107	27
Robertson	1,926	1,669	2,047	2,243	2,069	9,954	18
Rutherford	10,466	8,901	9,944	10,228	9,856	49,395	5
Scott	150	91	113	107	322	783	83
Sequatchie	235	248	274	275	276	1,308	73
Sevier	3,503	3,003	3,861	3,634	3,584	17,585	12
Shelby	39,419	35,018	38,241	34,872	33,006	180,556	1
Smith	537	487	596	602	595	2,817	52
Stewart	257	193	163	180	145	938	81
Sullivan	4,022	3,684	3,878	3,688	3,721	18,993	8
Sumner	3,548	2,927	3,288	3,511	3,504	16,778	13
Tipton	993	948	946	983	822	4,692	33
Trousdale	232	235	268	250	234	1,219	77
Unicoi	309	287	293	317	298	1,504	71
Union	208	211	189	221	213	1,042	79
Van Buren	109	86	126	89	103	513	87
Warren	771	724	770	747	846	3,858	40
Washington	4,074	3,496	3,936	3,639	3,357	18,502	9
Wayne	294	247	219	216	259	1,235	76
Weakley	456	431	452	449	403	2,191	59
White	475	422	496	518	515	2,426	54
Williamson	5,475	3,847	4,455	4,614	4,665	23,056	7
Wilson	3,631	3,248	3,884	3,730	3,708	18,201	11
Unknown	0	0	0	0	1	1	96
TOTAL	203,991	174,310	192,229	185,002	177,136	932,668	N/A

Source: TN Dept. of Safety and Homeland Security, TITAN Business Unit, 7 May 2024. (Crash)