

TRAFFIC SAFETY FACTS Research Note

DOT HS 812 197

Summary of Statistical Findings

September 2015

Driver Electronic Device Use in 2014

Summary

The percentage of drivers text-messaging or visibly manipulating handheld devices increased from 1.7 percent in 2013 to 2.2 percent in 2014; this was a statistically significant increase. Driver handheld cell phone use decreased from 4.6 percent in 2013 to 4.3 percent in 2014 (Figure 1); however, this was not a statistically significant decrease. These results are from the

National Occupant Protection Use Survey (NOPUS), which provides the only nationwide probability-based observed data on driver electronic device use in the United States. The NOPUS is conducted annually by the National Center for Statistics and Analysis of the National Highway Traffic Safety Administration.

Figure 1 Driver Use of Electronic Devices, 2005–2014



Driver Holding Phones to Their Ears While Driving

The percentage of drivers holding cell phones to their ears while driving decreased from 4.6 percent in 2013 to 4.3 percent in 2014 (Table 1). This rate translates into an estimated 587,632 passenger vehicles driven by people using handheld cell phones at a typical daylight moment in 2014. It also translates into an estimated 7.82 percent of the vehicles whose drivers were using some type of phone (either handheld or hands-free) at a typical daylight moment in 2014. Please refer to the section "Estimating Drivers on the Road and Hands-Free Cell Phone Users" for more details on these two estimates.

The 2014 NOPUS found that handheld cell phone use continued to be higher among female drivers than male drivers (Figure 2). It also found that handheld cell phone use continued to be highest among 16- to 24-year-old drivers and lowest among drivers 70 and older (Figure 3).

Drivers Speaking With Visible Headsets on While Driving

Table 2 shows the percentages of drivers speaking with visible headsets on while driving in 2013 and 2014, by major characteristics.

The percentage of drivers speaking with visible headsets while driving decreased from 0.5 percent in 2013 to 0.4 percent in 2014, as shown in Figure 1 and Table 2.

Figure 4 shows that there was no change in visible headset use in any age group from 2013 to 2014.

Drivers Visibly Manipulating Hand-Held Devices While Driving

The percentage of drivers visibly manipulating handheld devices while driving increased from 1.7 percent in 2013 to 2.2 percent in 2014 (Figure 1 and Table 3). The increase was

statistically significant. Table 3 presents the percentages of drivers visibly manipulating handheld devices in 2013 and 2014 by major characteristics.

The 2014 NOPUS observed increased visible manipulation of handheld devices in the following categories: young drivers

Figure 2 Driver Hand-Held Cell Phone Use by Gender, 2005–2014



Figure 4 Drivers Speaking With Visible Headsets on by Age, 2005–2014



Additionally, figure 5 shows that since 2007, young drivers (age 16 to 24) have been observed manipulating electronic devices at higher rates than older drivers.

Figure 3 Driver Hand-Held Cell Phone Use by Age, 2005–2014





Note: Data not sufficient to produce a reliable estimate in 2005, 2012, and 2013 for age 70 and older.





Note: Except in 2007, 2008, and 2011, data not sufficient to produce a reliable estimate for age 70 and older.

Table 1 The Percentage of Drivers Holding Phones to Their Ears While Driving, by Major Characteristics

	2013		2014		2013–2014 Change	
Driver Group ¹	% of Drivers Holding Phone to Ears ²	Confidence That Use Is High or Low in Group ³	% of Drivers Holding Phone to Ears ²	Confidence That Use Is High or Low in Group ³	Difference in Percentage Points	Confidence in a Change in % of Drivers Holding Phone to Ear⁴
All Drivers ⁶	4.6%		4.3%		-0.3	79%
Males	3.6%	100%	3.6%	100%	0.0	1%
Females	6.0%	100%	5.1%	100%	-0.9	93 %
Drivers by Age Group ⁶						
Age 16-24	5.9%	98%	5.8%	100%	-0.1	9%
Age 25-69	4.7%	78%	4.3%	71%	-0.4	81%
Age 70 and Older	0.6%	100%	0.8%	100%	0.2	56%
Drivers by Race ⁶	·			·	·	
White	4.5%	78%	4.2%	73%	-0.3	69%
Black	8.0%	100%	7.4%	100%	-0.6	38%
Other Races	3.0%	100%	2.5%	100%	-0.5	72%
Drivers on						
Expressway Exit Ramps	4.3%	86%	4.4%	70%	0.1	7%
Other Surface Streets	4.8%	86%	4.2%	70%	-0.6	93%
Drivers Traveling Through	<u></u>				<u> </u>	
Light Precipitation	5.6%	91 %	5.0%	86%	-0.6	42%
Fog	2.7%	99%	3.5%	67%	0.8	31%
Clear Weather Conditions	4.5%	81%	4.2%	85%	-0.3	77%
Drivers of						
Passenger Cars	4.4%	91%	4.0%	88%	-0.4	70%
Vans & SUVs	5.1%	100%	4.4%	74%	-0.7	90%
Pickup Trucks	4.3%	82%	4.7%	81%	0.4	45%
Drivers in the	110 / 0	0270	,.	0.70		10 / 0
Northeast	4.0%	84%	3.6%	89%	-0.4	67%
Midwest	5.3%	90%	5.3%	99%	0.0	1%
South	6.2%	100%	5.4%	98%	-0.8	82%
West	3.2%	98%	2.8%	99%	-0.4	76%
Drivers in	0.270	5070	2.070	3370	0.4	1070
Urban Areas	4.4%	69%	5.3%	93%	0.9	72%
Suburban Areas	4.9%	88%	3.9%	98%	-1.0	100%
Rural Areas	4.3%	88%	4.4%	66%	0.1	18%
Drivers Traveling During	4.070	0070	7.770	0070	0.1	1070
Weekdays	5.0%	99%	4.8%	100%	-0.2	45%
Rush Hours	5.2%	80%	5.2%	97%	0.2	7%
Nonrush Hours	4.8%	80%	4.4%	97%	-0.4	72%
Weekends	3.6%	99%	2.8%	100%	-0.4	<u>91%</u>
Drivers With ⁵	5.0 /0	33 /0	2.0 /0	100 /0	-0.0	31 /0
No Passengers	5.8%	100%	5.3%	100%	-0.5	81%
*						52%
At Least One Passenger Drivers With ⁵	2.4%	100%	2.1%	100%	-0.3	JZ 70
	E 00/	1000/	E 00/	1000/	0.5	010/
No Passengers	5.8%	100%	5.3%	100%	-0.5	81%
Passengers All Under Age 8	5.2%	67%	5.3%	83%	0.1	2%
Passengers All 8 and Older	2.1%	100%	1.6%	100%	-0.5	83%
Some Passengers Under 8 and Some 8 or Older	2.3%	100%	3.1%	87%	0.8	49%

¹ Drivers of passenger vehicles with no commercial or government markings stopped at a stop sign or stoplight between the hours of 7 a.m. and 6 p.m.

 ² The percentage of drivers holding a phone to their ears, based on the subjective assessments of roadside observers.
 ³ The statistical confidence that use in the driver group (e.g., white drivers) is higher or lower than use in the corresponding complementary driver group (e.g., combined black or other drivers). Confidences that meet or exceed 90 percent are formatted in boldface type. Confidences are rounded to the nearest percentage point, and so confidences reported as "100 percent" are between 99.5 percent and 100.0 percent.

 ⁴ The degree of statistical confidence that the 2013 use rate is different from the 2012 rate. Confidences that meet or exceed 90 percent are formatted in boldface type.
 ⁵ Among passengers observed in the right-front seat and the second row of seats (but NOPUS only counts up to two passengers in the second row and none in the third row and beyond).

⁶ Age, gender, and racial classifications are based on the subjective assessments of roadside observers.

Data Source: NOPUS, NHTSA's National Center for Statistics and Analysis

Table 2 The Percent of Drivers Speaking With Visible Headsets on While Driving, by Major Characteristics

	2013		2014		2013–2014 Change	
Driver Group ¹	% of Drivers Speaking with Headsets ²	Confidence That Use Is High or Low in Group ³	% of Drivers Speaking with Headsets ²	Confidence That Use Is High or Low in Group ³	Difference in Percentage Point Tenths	Confidence in a Change in % of Drivers Speaking With Headsets ⁴
All Drivers ⁶	0.5%		0.4%		-0.1	15%
Males	0.4%	76%	0.4%	78%	0.0	24%
Females	0.5%	76%	0.5%	78%	0.0	7%
Drivers by Age Group ⁶						
Age 16–24	0.7%	96 %	0.8%	98%	0.1	2%
Age 25–69	0.4%	77%	0.4%	79%	0.0	13%
Age 70 and Older	NA	NA	0.1%	100%	NA	NA
Drivers by Race ⁶						
White	0.3%	99%	0.3%	100%	0.0	37%
Black	0.7%	83%	1.4%	100%	0.7	87%
Other Races	1.2%	95%	0.7%	93%	-0.5	72%
Drivers on						
Expressway Exit Ramps	0.5%	80%	0.6%	96%	0.1	34%
Other Surface Streets	0.4%	80%	0.3%	96%	-0.1	82%
Drivers Traveling Through	<u> </u>	·				
Light Precipitation	0.4%	78%	0.5%	61%	0.1	35%
Fog	NA	NA	0.9%	67%	NA	NA
Clear Weather Conditions	0.5%	91%	0.4%	64%	-0.1	51%
Drivers of					-	
Passenger Cars	0.6%	99%	0.5%	82%	-0.1	42%
Vans and SUVs	0.5%	63%	0.4%	60%	-0.1	37%
Pickup Trucks	0.1%	100%	0.3%	94%	0.2	98%
Drivers in the			,.			
Northeast	0.5%	66%	0.5%	58%	0.0	7%
Midwest	0.2%	100%	0.2%	99%	0.0	2%
South	0.3%	91%	0.4%	67%	0.1	35%
West	0.7%	97%	0.7%	94%	0.0	48%
Drivers in	0.1 /0	01/0	0.170	0470	0.0	10 / 0
Urban Areas	0.7%	89%	1.0%	99%	0.3	45%
Suburban Areas	0.5%	80%	0.4%	78%	-0.1	80%
Rural Areas	0.2%	100%	0.2%	98%	0.0	6%
Drivers Traveling During	0.270	100/0	0.270	3070	0.0	070
Weekdays	0.5%	99%	0.5%	100%	0.0	4%
Rush Hours	0.5%	94%	0.3 %	95%	-0.1	25%
Nonrush Hours	0.6%	94%	0.7%	95%	0.1	13%
Weekends	0.0%	99%	0.2%	100%	0.1	10%
Drivers With ⁵	0.2 /0	99/0	0.2 /0	100 /0	0.0	10 /0
	0.6%	1009/	0.6%	1000/	0.0	17%
No Passengers	0.6%	100% 100%	0.6%	100% 100%	0.0	5%
At Least One Passenger	U.170	100%	U.170	10070	0.0	J70
Drivers With ⁵	0.00/	1000/	0.6%	1000/	0.0	170/
No Passengers	0.6%	100%	0.6%	100%	0.0	17%
Passengers All Under Age 8	0.9%	80%	0.1%	100%	-0.8	89%
Passengers All 8 and Older	0.0%	100%	0.1%	100%	0.1	52%
Some Passengers Under 8 and Some 8 or Older	NA	NA	0.6%	60%	NA	NA

¹ Drivers of passenger vehicles with no commercial or government markings stopped at a stop sign or stoplight between the hours of 7 a.m. and 6 p.m.

² The percent of drivers wearing a headset with a microphone and speaking, based on the subjective assessments of roadside observers.

³ The statistical confidence that use in the driver group (e.g., white drivers) is higher or lower than use in the corresponding complementary driver group (e.g., combined black or other drivers). Confidences that meet or exceed 90 percent are formatted in boldface type. Confidences are rounded to the nearest percentage point, and so confidences reported as "100 percent" are between 99.5 percent and 100.0 percent.

⁴ The degree of statistical confidence that the 2013 use rate is different from the 2012 rate. Confidences that meet or exceed 90 percent are formatted in boldface type.

⁵ Among passengers observed in the right front seat and the second row of seats (but NOPUS only counts up to two passengers in the second row and none in the third row and beyond).

⁶ Age, gender, and racial classifications are based on the subjective assessments of roadside observers.

NA: Data not sufficient to produce a reliable estimate.

Data Source: NOPUS, NHTSA's National Center for Statistics and Analysis

Table 3 The Percent of Drivers Visibly Manipulating Hand-Held Devices While Driving, by Major Characteristics

	2013		2014		2013–2014 Change	
Driver Group ¹	% of Drivers Manipulating Hand- Held Devices ²	Confidence That Use Is High or Low in Group ³	% of Drivers Manipulating Hand- Held Devices ²	Confidence That Use Is High or Low in Group ³	Difference in Percentage Point Tenths	Confidence in a Change in % of Drivers Manipulating Hand-Held Devices ⁴
All Drivers ⁶	1.7%		2.2%		0.5	97 %
Males	1.3%	100%	1.8%	100%	0.5	96%
Females	2.2%	100%	2.8%	100%	0.6	94%
Drivers by Age Group ⁶						·
Age 16-24	2.9%	100%	4.8%	100%	1.9	99%
Age 25-69	1.6%	95%	2.0%	99%	0.4	92%
Age 70 and Older	NA	NA	0.1%	100%	NA	NA
Drivers by Race ⁶						
White	1.5%	100%	1.8%	100%	0.3	87%
Black	3.2%	100%	4.2%	100%	1.0	67%
Other Races	1.7%	52%	3.7%	100%	2.0	100%
Drivers on	•					
Expressway Exit Ramps	1.5%	91 %	2.2%	59%	0.7	97%
Other Surface Streets	1.8%	91%	2.2%	59%	0.4	93%
Drivers Traveling Through	I			1		1
Light Precipitation	1.5%	67%	1.8%	89%	0.3	41%
Fog	NA	NA	4.4%	80%	NA	NA
Clear Weather Conditions	1.7%	81%	2.3%	78%	0.6	94%
Drivers of	,.					
Passenger Cars	1.6%	66%	2.6%	100%	1.0	100%
Vans and SUVs	1.9%	90%	2.2%	68%	0.3	65%
Pickup Trucks	1.4%	86%	1.3%	100%	-0.1	4%
Drivers in the						
Northeast	1.9%	75%	1.7%	87%	-0.2	29%
Midwest	0.7%	100%	1.0%	100%	0.3	63%
South	2.0%	75%	2.8%	83%	0.8	90%
West	2.0%	78%	3.2%	96%	1.2	99%
Drivers in	2.070	10/0	0.270	00/0	1.2	00/0
Urban Areas	2.5%	95%	3.9%	100%	1.4	91%
Suburban Areas	2.0%	100%	2.5%	94%	0.5	86%
Rural Areas	0.5%	100%	0.7%	100%	0.0	92%
Drivers Traveling During	0.070	100 /0	0.770	100 /0	0.2	JZ /0
Weekdays	1.8%	92%	2.6%	100%	0.8	99%
Rush Hours	2.0%	88%	2.3%	92%	0.3	60%
Nonrush Hours	1.6%	88%	2.9%	92%	1.3	100%
Weekends	1.3%	92%	1.2%	100%	-0.1	28%
Drivers With ⁵	1.3 /0	92 /0	1.2/0	100 /0	-0.1	20 /0
	2.2%	1000/	3.0%	1000/	0.9	98%
No Passengers At Least One Passenger	0.7%	100%	0.7%	100%	0.8	
• •	U.1 %	100%	U.1 %	100%	0.0	25%
Drivers With ⁵	0.00/	1000/	0.00/	1000/	0.0	000/
No Passengers	2.2%	100%	3.0%	100%	0.8	98%
Passengers All Under Age 8		66%	3.1%	88%	1.3	93%
Passengers All 8 and Older	0.5%	100%	0.5%	100%	0.0	27%
Some Passengers Under 8 and Some 8 or Older	1.1%	84%	0.7%	100%	-0.4	42%

¹ Drivers of passenger vehicles with no commercial or government markings stopped at a stop sign or stoplight between the hours of 7 a.m. and 6 p.m.

² The percent of drivers manipulating hand-held devices, based on the subjective assessments of roadside observers.

³ The statistical confidence that use in the driver group (e.g., white drivers) is higher or lower than use in the corresponding complementary driver group (e.g., combined black or other drivers). Confidences that meet or exceed 90 percent are formatted in boldface type. Confidences are rounded to the nearest percentage point, and so confidences reported as "100 percent" are between 99.5 percent and 100.0 percent. ⁴ The degree of statistical confidence that the 2011 use rate is different from the 2010 rate. Confidences that meet or exceed 90 percent are formatted in boldface type.

⁵ Among passengers observed in the right front seat and the second row of seats (but NOPUS only counts up to two passengers in the second row and none in the third row and beyond).

⁶ Age, gender, and racial classifications are based on the subjective assessments of roadside observers.

NA: Data not sufficient to produce a reliable estimate.

Data Source: NOPUS, NHTSA's National Center for Statistics and Analysis

NOPUS Data Collection and Estimation

NOPUS is the only nationwide probability-based observational survey of driver electronic device use in the United States. The survey observes usage as it actually occurs at randomly selected roadway sites and thus provides the best tracking of the extent to which people in the United States use cell phones and other electronic devices while driving.

The survey data is collected by trained data collectors at probabilistically sampled intersections controlled by stop signs or stoplights, where data collectors observe, from the roadside, drivers and other occupants of passenger vehicles having no commercial or government markings. Data is collected between 7 a.m. and 6 p.m. Only stopped vehicles are observed to allow time to collect the variety of information required by the survey, including subjective assessments of occupants' age and race. Observers collect data on the driver, right-front passenger, and up to two passengers in the second row of seats. Observers do not interview occupants, so that NOPUS can capture the untainted behavior of occupants. The 2014 NOPUS data was collected from June 2 to June 27, while the 2013 data was collected from June 3 to June 13.

Statistically significant increases in the use of handheld phones, headset use, and manipulation of handheld devices between 2013 and 2014 are shown, respectively, in Table 1,Table 2, and Table 3 by having a result that is 90 percent or greater in column 7. Statistical confidences that handheld cell phone use, headset use, or the manipulation of handheld devices in a given driver group, e.g., drivers in the Northeast, is higher or lower than in the complementary driver group, e.g., combined drivers in the Midwest, in the South and in the West, are provided in columns 3 and 5. Such comparisons are made within categories delineated by changes in row shading in the tables. The exception to this is the grouping "Drivers Traveling During …," in which weekdays are compared to weekends, and weekday rush hour to weekday non-rush hour.

Table 4 shows the observed sample sizes of the 2014 NOPUS. A total of 35,992 vehicles were observed at the 1,379 data collection sites. Due to ineligibility, construction, danger in the area, or road closure, the observations could not be completed at some of the sampled observation sites.

Table 4Sites and Vehicles Observed in the 2013 NOPUS

Number of	2013	2014	Percentage Change
Sites Observed	1,382	1,379	-0.22%
Vehicles Observed	37,428	35,992	-3.84%

NOPUS uses a complex multistage probability sample, statistical data editing, imputation of unknown values, and complex variance estimation procedures. Data collection, estimation, and variance estimation for NOPUS are conducted by Westat, Inc., under the direction of NHTSA's National Center for Statistics and Analysis under Federal contract number DTNH22-13-D-00284.

NOPUS Categories and Definitions

NOPUS observes three types of driver electronic device use while driving: "holding phones to their ears," "speaking with visible headsets on," and "visibly manipulating handheld devices."

Drivers are counted as "holding phones to their ears" if they are holding to their ears what appear to the data collectors to be phones. This would include behaviors such as drivers engaging in conversation, listening to messages, or conducting voice-activated dialing while holding phones to their ears. However, a data collector may not have knowledge of various types of wireless phones. Thus, the device that has been identified as a "phone" may only reflect his/her conception of what constitutes a "phone." Also, the corded car phones and satellite phones may or may not have been identified as "phones."

Drivers are counted as "speaking with visible headsets on" if they appear to be speaking and wearing a headset with a microphone. This would include behaviors such as talking, engaging in conversation, or conducting voice-activated dialing via a wireless earpiece on the driver's right ear or via an ear bud connected by wire to a cell phone. Talking via a visible Bluetooth headset (usually on the driver's right ear) would also be included in this category. However, it would not include drivers using headsets that do not involve cell phones (e.g., iPods), since these headsets do not involve microphones. Note that the wireless earpieces that are obscured by hair or clothing or are on the driver's left ear would not be included because they would not be visible to the roadside observer. In addition, some wireless ear buds would not be included as they are too small to be observed from the roadside. The drivers with headsets who are not speaking at the time of observation are not included because they might have recently completed a call or be waiting for an expected call. Each driver in the survey is observed for about 10 seconds before the data collector decides whether or not the driver is speaking. Also, note that the drivers counted as speaking through a visible headset might have been talking to a passenger or using voiceactivated computer software rather than using a phone.

Drivers are counted as "visibly manipulating handheld devices" if they appear to be manipulating some type of electronic device such as a cell phone, a smart phone, PDA, video game, or some other device. This would include behaviors such as text messaging, using a Web-capable smart phone (e.g., an iPhone) or a PDA (e.g., a BlackBerry phone) to view travel directions, check e-mails or calendar appointments, or surf the Internet, manual dialing, playing handheld games, and holding phones in front of their faces to converse or check messages via speakerphone or use voice-activated dialing. Manipulation of the non-handheld devices (adjusting volume on stereos, pressing buttons on a dashboard GPS unit, etc.) is not included in this category. Also, note that a driver characterized by the survey as "manipulating handheld device" may or may not have been speaking.

There are means by which the drivers can use cell phones that would neither be recorded as "holding phones to their ears" nor as "speaking with visible headsets on" or as "visibly manipulating handheld devices" in the NOPUS. These would include: (1) a driver using a cell phone headset but is not speaking during the approximately 10-second period when he/she is being observed, and (2) a driver using technologies that cannot be observed from the roadside. The unobservable technologies would include: a wireless earpiece obscured by hair or clothing or on the left ear, a driver conversing via a speakerphone with the phone on the passenger seat or in a cell phone holder on the vehicle dashboard, a driver using a phone that is built into the vehicle (e.g., OnStar), and a driver using the cell phone hands-free via a Bluetooth car kit or via a Bluetooth system that is built into the vehicle (e.g., Sync). It is possible that at some point in the future, NOPUS may be able to capture such behaviors by directing a device that can detect cell phones in-use in the passing vehicles.

The racial categories "Black," "White," and "Members of Other Races" appearing in the tables reflect subjective characterizations by roadside observers regarding the race of occupants. Likewise observers record the age group (8-15; 16-24; 25-69; and 70 or older) that best fits their visual assessment of each observed occupant.

"Expressway Exit Ramps" are defined as the access roads from roadways with limited access, while "Other Surface Streets" comprise all other roadways.

"Weekday Rush Hours" are defined to be from 7 a.m. to 9:30 a.m. and from 3:30 p.m. to 5 p.m. on weekdays, while "Weekday Nonrush Hours" comprise all other weekday hours (9:30 a.m. to 3:30 p.m. and 5 p.m. to 6 p.m.).

Since NOPUS is not a census and is based on a probability sample, it is impossible to produce State-by-State driver electronic device use results. However NOPUS produces regional estimates of the use rates based on the following categories.

- Northeast: ME, VT, NH, MA, RI, CT, NY, PA, NJ
- Midwest: MI, OH, IN, IL, WI, MN, IA, MO, KS, NE, SD, ND
- South: WV, MD, DE, VA, KY, TN, NC, SC, GA, FL, AL, MS, AR, LA, OK, TX, DC
- West: AK, WA, OR, CA, NV, ID, UT, AZ, NM, CO, WY, MT, HI

Estimating Drivers on Road and Hands-Free Cell Phone Users

NHTSA used the 2009 National Household Travel Survey (NHTS) data to derive the total number of vehicles (drivers) on the road at a typical daylight moment in the United States in 2009. Since the NHTS was not conducted from 2010 to 2014, the following estimate based on the published 2009 NHTS estimate was used to derive the total number of drivers on the road at a typical daylight moment in 2014.

The published 2009 estimate: 13,399,139 drivers on road at a given daylight moment.

2014 VMT: The data source for the 2014 VMT used here is the Traffic Volume Trends reports by the Federal Highway Administration. The December 2014 version of the "Traffic Volume Trends" (available at www.fhwa.dot.gov/policyinformation/travel monitoring/-14dectvt/14dectvt.pdf) shows that the year to date VMT (preliminary number, for all vehicles) in 2014 is 3,015,620 million miles as compared to 2,956,762 million miles in 2009. NHTSA's calculations assume that this all-vehicle VMT is an acceptable estimate for passenger vehicle VMT, especially when using a ratio estimate. Therefore, the number of drivers in 2014 at a given daylight moment = 2009 Driver #* (2014 VMT / 2009 VMT) = 13,399,139 * (3,015,620 / 2,956,762) = 13,665,865. Given the handheld cell phone use rate for 2014 is 4.3 percent, the numbers of drivers of privately owned vehicles on the road at a typical daylight moment who were holding cell phones to their ears in 2014: 13,665,865*.043 ≈ 587,632. NHTSA's 2007 Motor Vehicle Occupant Safety Survey (MVOSS) estimated that, for drivers using cell phones while driving, 55 percent tended to use handheld cell phones and 45 percent tended to use handsfree phones. Applying the proportion 0.8182 (=45/55) of these percentages to the 4.3 percent estimate of drivers using handheld cell phones in 2014 from NOPUS shows an estimated 3.52 percent of drivers using hands-free cell phones. Thus, 7.82 percent of drivers are estimated to be using either handheld or a hands-free cell phones while driving at a typical daylight moment in the United States in 2014. Please note that MVOSS cell phone use pattern (handheld versus handsfree) reflects general times (daytime and nighttime) whereas the NOPUS estimates reflect daytime use only.

State Laws on Driver Electronic Device Use (Enacted As of August 2015)

Many States restrict cell phone use by drivers. As of January 2015, no State completely bans all forms of cell phone use by drivers. However, a ban on driving while talking on a handheld cell phone was in place in 14 States (California, Connecticut, Delaware, Hawaii, Illinois, Maryland, Nevada, New Jersey, New Hampshire, New York, Oregon, Washington, Vermont, and West Virginia), the District of Columbia, Guam, and the Virgin Islands (Table 5). All of these laws are primary enforcement—an officer may cite a driver for using a handheld cell phone without any other traffic offense taking place.

Table 5

States and U.S. Territories With Laws[†] Banning Hand-Held Cell Phone Use While Driving

California	Connecticut	Delaware	Hawaii	Illinois
Maryland	Nevada	New Hampshire	New Jersey	New York
Oregon	Vermont	Washington	West Virginia	District of Columbia
Virgin Islands	Guam			

[†]States and the District of Columbia with laws in effect as of January, 2015

Forty-four States, the District of Columbia, Guam, and the Virgin Islands ban text messaging for all drivers (Table 6). In 39 States, the District of Columbia, Guam, and the Virgin Islands texting laws are primary enforcement, and the other States have secondary enforcement of texting for drivers. Many States also ban cell phone use and/or texting by novice drivers or school bus drivers.

Some States such as New Hampshire and Utah treat cell phone use and texting as part of a larger distracted driving issue. In Utah, cell phone use is an offense only if a driver is also committing some other moving violation (other than speeding).

Table 6States and U.S. Territories With Laws[†] Banning Text-Messaging While Driving

Alabama	Alaska	Arkansas	California	Colorado
Connecticut	Delaware	Florida	Georgia	Hawaii
Idaho	Illinois	Indiana	Iowa	Kansas
Kentucky	Louisiana	Maine	Maryland	Massachusetts
Michigan	Minnesota	Nebraska	Nevada	New Hampshire
New Jersey	New Mexico	New York	North Carolina	North Dakota
Ohio	Oregon	Pennsylvania	Rhode Island	South Carolina
South Dakota	Tennessee	Utah	Vermont	Virginia
Virgin Islands	Washington	West Virginia	Wisconsin	Wyoming
District of Columbia	Guam			

[†]States and the District of Columbia with laws in effect as of January, 2015

For More Information

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Additional data and information on the survey design and analysis procedures will be available in upcoming publications to be posted on the Web site www.nhtsa.gov/NCSA.

For more information on NHTSA's policy on distracted driving, please visit www.nhtsa.gov or www.distraction.gov.

Suggested APA format citation:

Pickrell, T. M., & KC, S. (2015, September). Driver electronic device use in 2014. (Traffic Safety Facts Research Note. Report No. DOT HS 812 197). Washington, DC: National Highway Traffic Safety Administration.

This research note and other general information on highway traffic safety may be accessed by Internet users at: www-nrd.nhtsa.dot.gov/CATS/index.aspx



U.S. Department of Transportation

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