

The motorcoach

Motorcoach Fleet SALTE TY

LESSONS LEARNED FROM NTSB CRASH INVESTIGATIONS



### **Fatigue kills!**

Getting less than 5 hours of sleep in a night can lead to a 4x higher crash risk. SOURCE: AAA



**LARGE BUSES**—those transporting nine or more passengers—were involved in

## 261 fatal crashes

in 2015, an increase of 11% over 2014, resulting in **295 FATALITIES.** 

SOURCE: FMCSA

32,925

Number of motorcoaches on U.S. highways

SOURCE: ABA

#### DRIVERS should...

- ✓ Get enough sleep before driving and take plenty of breaks to refresh. Following the HOS requirements is not enough!
- ✓ Manage your customers' expectations about the schedule. Don't be pressured to skip rest.
- Check to see if your meds could be making you sleepy.

#### **OPERATORS** should...

- ✓ Implement a fatigue management program based on the North American Fatigue Management Program.
- Install collision avoidance technologies to mitigate and prevent crashes.

industry is integral to our economy. We must continue to work together to ensure the safe transportation of passengers on our roadways.

# Make this a year of ZERO crashes



|                    | January |                          |                    |                    |               | February          |                |               |               |              |                           | March             |               |               |                 |               |                          |                    |                      | April   |                   |        |                   |                   |                    | May                |               |               |    |              |                     |              |                         | June         |               |              |               |                    |                   |         |         |                    |
|--------------------|---------|--------------------------|--------------------|--------------------|---------------|-------------------|----------------|---------------|---------------|--------------|---------------------------|-------------------|---------------|---------------|-----------------|---------------|--------------------------|--------------------|----------------------|---------|-------------------|--------|-------------------|-------------------|--------------------|--------------------|---------------|---------------|----|--------------|---------------------|--------------|-------------------------|--------------|---------------|--------------|---------------|--------------------|-------------------|---------|---------|--------------------|
| S                  | M       | Т                        | W                  | Т                  | F             | (                 | S              | S             | M             | Т            | W                         | Т                 | F             | S             | S               | M             | Т                        | W                  | Т                    | F       | S                 | S      | M                 | Т                 | W                  | Т                  | F             | S             | S  | M            | Т                   | W            | Т                       | F            | S             | S            | M             | Т                  | · VV              | Т       | F       | S                  |
|                    | 1       | 2                        | 3                  | 4                  | 5             | 6                 | 6              |               |               |              |                           | 1                 | 2             | 3             |                 |               |                          |                    | 1                    | 2       | 3                 | 1      | 2                 | 3                 | 4                  | 5                  | 6             | 7             |    |              | 1                   | 2            | 3                       | 4            | 5             |              |               |                    |                   |         | 1       | 2                  |
| 7                  | 8       | 9                        | 10                 | 11                 | 12            | 1:                | 3              | 4             | 5             | 6            | 7                         | 8                 | 9             | 10            | 4               | 5             | 6                        | 7                  | 8                    | 9       | 10                | 8      | 9                 | 10                | 11                 | 12                 | 13            | 14            | 6  | 7            | 8                   | 9            | 10                      | 11           | 12            | 3            | 4             | 5                  | 6                 | 7       | 8       | 9                  |
| 14                 | 15      | 16                       | 17                 | 18                 | 19            | 2                 | 20             | 11            | 12            | 13           | 14                        | 15                | 16            | 17            | 11              | 12            | 13                       | 14                 | 15                   | 16      | 17                | 15     | 16                | 17                | 18                 | 19                 | 20            | 21            | 13 | 14           | 15                  | 16           | 17                      | 18           | 19            | 10           | 11            | 12                 | 2 13              | 14      | 15      | 16                 |
| 21                 | 22      | 23                       | 24                 | 25                 | 26            | 2                 | 27             | 18            | 19            | 20           | 21                        | 22                | 23            | 24            | 18              | 19            | 20                       | 21                 | 22                   | 23      | 24                | 22     | 23                | 24                | 25                 | 26                 | 27            | 28            | 20 | 21           | 22                  | 23           | 24                      | 25           | 26            | 17           | 18            | 19                 | 9 20              | 21      | 22      | 23                 |
| 28                 | 29      | 30                       | 31                 |                    |               |                   |                | 25            | 26            | 27           | 28                        |                   |               |               | 25              | 26            | 27                       | 28                 | 29                   | 30      | 31                | 29     | 30                |                   |                    |                    |               |               | 27 | 28           | 29                  | 30           | 31                      |              |               | 24           | 25            | 26                 | 6 27              | 28      | 29      | 30                 |
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| 6                  | D/I     | Ţ.                       | July               | _                  | E             |                   | e e            | 6             | B/I           | A            | ugus                      | st                | Ę             | c             | 6               | M             | Se                       | •                  | nber                 |         | 6                 | c      | M                 | Oc                | tobe               | er —               | E             | 6             | c  |              | Nov                 | emb          | er                      | F            | 9             | c            | 1.0           | D                  | Decer             |         |         | -                  |
| S                  | M       | Т                        | W                  | Т                  | F             | 5                 | S<br>7         | S             | M             | A<br>T       | ugu:<br>W                 | Т                 | F             | S             | S               | M             | Se                       | epter<br>W         | nber<br>T            | F       | S                 | S      | M                 | Oc<br>T           | W                  | Т                  | F             | S             | S  | M            | Nov<br>T            | vemb<br>W    | er<br>T                 | F            | S             | S            | M             | D<br>T             | Decer             |         | F       | S                  |
| 1                  | M<br>2  | T<br>3                   | W<br>4             | T<br>5             | 6             | 7                 | 7              |               |               | A<br>T       | W<br>1                    | T<br>2            | 3             | 4             | S               |               | Se<br>T                  | W                  | Т                    |         | 1                 | S      | M<br>1            | T<br>2            | W<br>3             | T 4                | 5             | 6             | S  |              | Т                   |              | T<br>1                  | 2            | 3             | S            | M             | T 4                | W                 |         |         | 1                  |
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#### For additional information:

NTSB Most Wanted List

www.ntsb.gov/safetv/mwl/Pages/default.aspx

Commercial Vehicle Safety Alliance—Resources for Drivers and Fleets www.cvsa.org/program/programs/international-roadcheck/resources-fleets-drivers/

Federal Motorcoach Carrier Safety Administration—Safety Information for Passenger Carriers www.fmcsa.dot.gov/safety/passenger-safety/safety-information-passenger-carriers

The NTSB is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant accidents in other modes of transportation-highway, marine, railroad, and pipeline. The NTSB determines the probable cause of the accidents and issues safety recommendations aimed at preventing future accidents. For more information, visit www.ntsb.gov.

American Bus Association-**Bus Industry Safety Council** www.buses.org/about/councils/BISC

North American Fatique Management Program

www.nafmp.com/index.php?lang=en

United Motorcoach Association www.umadrivermember.org



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www.flickr.com/photos/ntsb