



Minnesota State Patrol Commercial Vehicle Section

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What Will Be Covered: Part 1

- The Driver
- Crash Scenes
- Target Fixation
- Weather
- Equipment
- New Technology
- New Traffic Control

What Will Be Covered: Part 2

- Texting and Cell Phone Use
- Aggressive Driving or Road Rage
- Tunneling
- Disciplined Attention and how to improve your driving skills with your eyes.

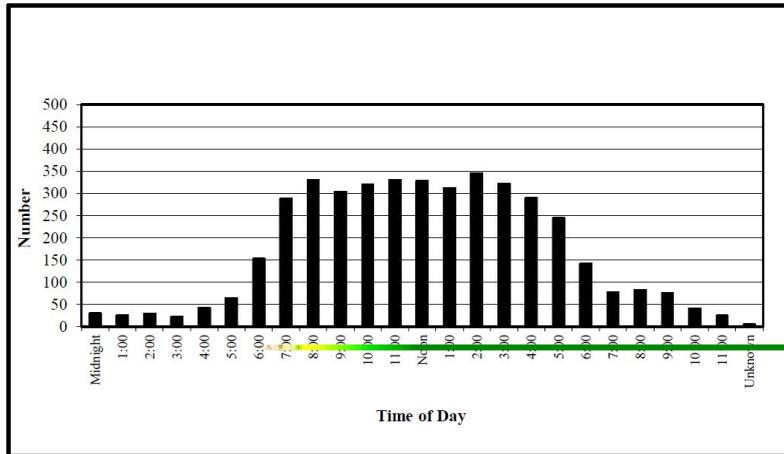
Truck Crash Facts in Minnesota: 2022

- 4,797 crashes
- 65 people killed
- 1,284 people injured
- 18 % driver inattention for trucks



Minnesota
Department of Public Safety

FIGURE 5.01
2015 TRUCK CRASHES BY TIME OF DAY



Minnesota
Department of Public Safety

Truck Crashes: 2022

- Rare for chemical impairment (<1% of truckers, <1.6% of drivers of other vehicles impaired)
 - Driver inattention or distraction most frequently cited for truck drivers
 - Non-truck drivers: driving too fast followed by driver inattention or distraction



Minnesota
Department of Public Safety

BASIC EQUIPMENT AND LOAD SECUREMENT

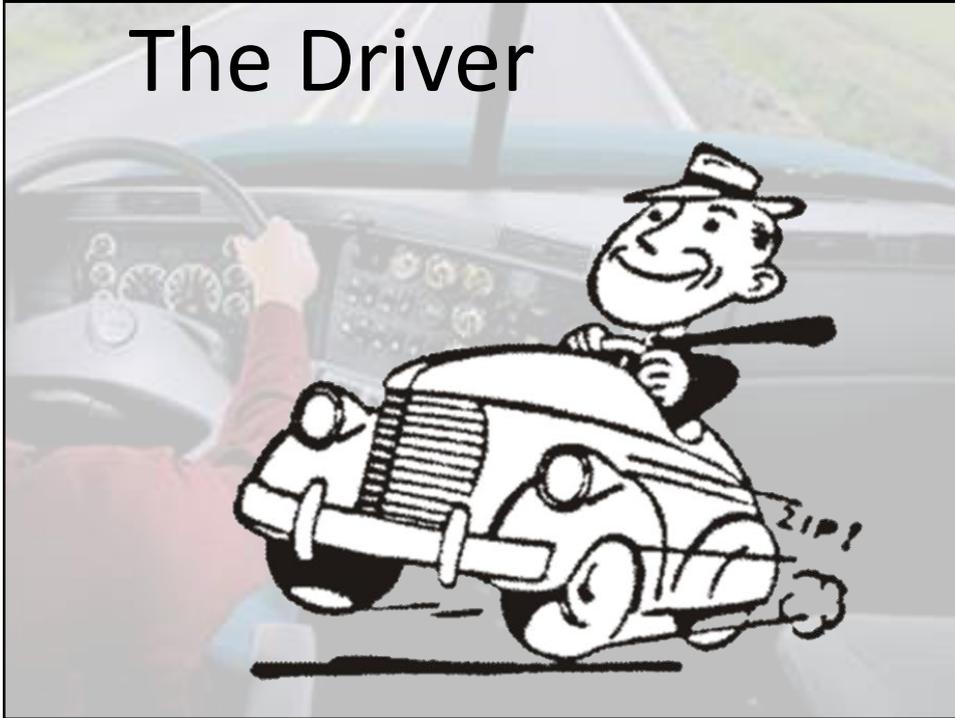








The Driver



NAM/ AAAAAA,AAAAAA,AAAAA.*RECORD DISSEMINATION RESTRICTED*
 SNM/111 00TH AVE NE. CTY/SAINT JOSEPH. STA/MN. ZIP/56374-4629.
 SEX/M. DOB/19861107. HGT/603. WGT/263. EYE/BLU. DISABILITY CERTIFICATES:Y
 OLN/N55525038555. OLT/NORLID.CLS/A. CSC/NOT CERTIFIED. EDR/NM. EXP/110
 STATUS:VALID DONOR:N DESIGNATED CAREGIVER:N
 ISU/032119.DNR TRAINING=FIREARM:Y, SNOWMOBILE:Y.MENTAL]HEALTH:N. AUTISM:N
 *01/09/23 DOWNGRADED - CDL NO MED CERTIFICATE 00302 11/07/23 01/09/23
 01/09/23 CDL MED CERT EXPIRED
 11/09/22 CDL MED CERT 30-DAY EXPIRATION WARNING
 01/08/21 CDL MEDICAL CERTIFICATE
 01/01/21 CDL MEDICAL CERTIFICATE WAIVER ENDING 2/28/2021
 11/25/20 CDL MED CERT 30-DAY EXPIRATION WARNING
 02/14/19 COMMERCIAL DRIVER APPLICATION
 01/24/19 CDL MEDICAL CERTIFICATE
 01/22/19 CDL MED CERT 30-DAY EXPIRATION WARNING

NAM/ AAAAAA,AAAAA,AAAAA.*RECORD DISSEMINATION RESTRICTED*
 SNM/11111 WRONG WAY DR. CTY/SAUK CENTRE. STA/MN. ZIP/56378-4695.
 SEX/M. DOB/19510810. HGT/511. WGT/212. EYE/BRO. DISABILITY CERTIFICATES:N
 OLN/Y555214211555. OLT/NORLID. CLS/A. CSC/VALID. EDR/ X . EXP/081026
 STATUS:VALID DONOR:Y DESIGNATED CAREGIVER:N
 ISU/090722.DNR TRAINING=FIREARM:N, SNOWMOBILE:N. MENTAL HEALTH:N. AUTISM:N
 01/13/23 CDL MED CERT 30-DAY EXPIRATION WARNING
 12/14/22 CDL MEDICAL CERTIFICATE
 10/22/22 CDL MED CERT 30-DAY EXPIRATION WARNING
 08/03/22 COMMERCIAL DRIVER APPLICATION
 12/21/21 CDL MEDICAL CERTIFICATE
 11/08/21 CDL MED CERT 30-DAY EXPIRATION WARNING
 01/01/21 CDL MEDICAL CERTIFICATE WAIVER ENDING 2/28/2021

Most People Believe That:

- I am a good driver.
- I can handle emergencies.
- Accidents happen to others



— *Authorities say an inattentive driver slammed into a trooper's squad Tuesday morning. No one was injured in the crash but officers say it's a good reminder for all drivers to slow down and pay attention.*

The Box

- How do we get in it
- How do we stay out of it
- What to do once we have entered it?

What Is the Box ??

- The situations that get you into an incident
- This includes law enforcement, commercial drivers, pilots and more.
- Did we reach the tipping point?
- The results can be life and career changing.

How Do We Get in the Box?

- Going too fast
- Following too close
- Inattentive driving
- Aggressive driving.
- Fail to yield

How Do We Get Out Of The Box?

- Adjust your speed to a safe level
- Allow a 'cushion of safety' in front of you
- Keep your eyes moving to absorb as much information as possible
- Relax your emotions and be aware of your surroundings.

After the Incident

We should have seen that one coming!



The Emotion Of Stress



Emotions

- Ego
- Pride
- One will get you there and the other will keep you from getting there.

Emotions

- Dim the powers of observation
- Delay or distort the ability to interpret events
- Reduction of power to assess the action of other roadway users
- Production of faulty judgment and high-risk decisions (high risk , low gain)

Avoid Backing Whenever Possible!

- There is an increased risk of crash event when backing.
- Annually, backing crashes result in about 13,000 injuries and 200 deaths.
- Large trucks, vans and SUV's are involved in more than 60% of these events.

If You Have To Back Up....

- Check your surroundings.
- Do a “walk-around” prior to backing.
- Have a “guide” or “watch” if possible.



Peripheral Vision

The two primary causes of loss of peripheral vision are:

- Stress
- Speed

How Cell Phones Distract

- Visual – Eyes off road
- Mechanical – Hands off wheel
- Cognitive – Mind off driving

CHALLENGE: Drivers don't understand or realize that talking on a cell phone distracts the brain and takes focus away from the primary task of driving.



Should have seen it coming....

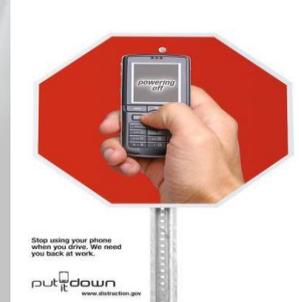


Who's paying attention....?



What Type of Complex Secondary Task Increase Risk?

- Dialing a hand held device
- Locating/reaching/answering hand held
- Reading
- Animal or object in vehicle
- Reaching for an object
- Applying makeup

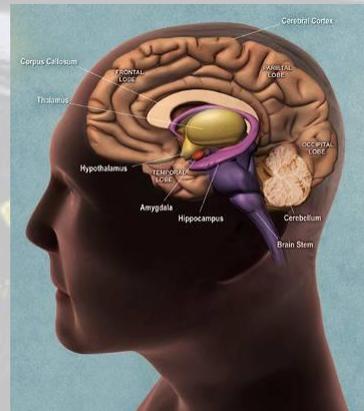


2 second rule

Drivers and Cellphones

Multitasking: A Brain Drain

- Multitasking for the brain is a myth
- Human brains do not perform two tasks at same time
 - Brain handles tasks sequentially
 - Brain switches between one task and another



The four lobes of the brain.

Source: National Institutes of Health

The Wide View

- Quickly detects threats
- Is faster than the detailed view
- Detects new hazards
- Helps us notice what else, where else and when else

Crash Scenes

- If you are able, get out of the mainline!
- Old urban lore “don’t move the vehicles”
- You are a target waiting for the next crash
- Warning flashers both on crashed vehicles and moving down the mainline
- Find something to protect you

Crash Scenes



Albertville Crash

- The Pelican Rapids High School Band planned a trip to Chicago
- They chartered two motor coaches from Richard's Transportation Service, Moorhead, MN
 - 49 people on board, consisting of 5 adult chaperones and one driver
 - Students ages from 15-17





Driver

- The Driver 69 years old driver was hired by bus company as a part-time gravel hauler and coach driver
- Employed since January 2008 (Approx. 3.5 months)
- Had only six charter trips before crash
- First night trip
- Normally went to bed at 0900-0930
- After interviews it was determined driver slept approx. 3 hours in the prior 24 hours

ALERT Projects

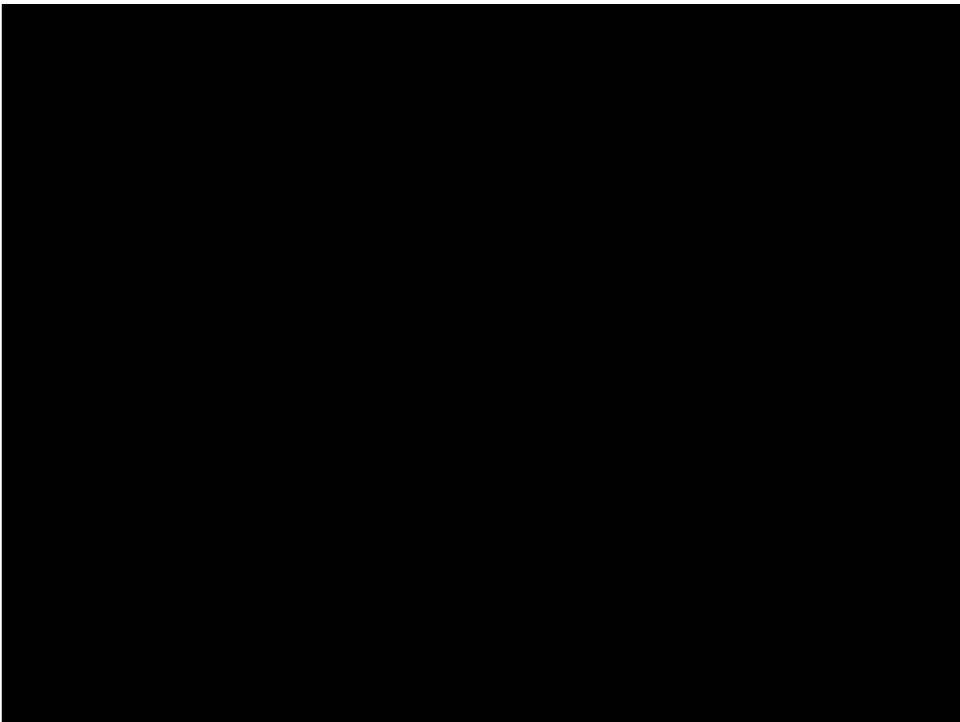


ALERT Projects



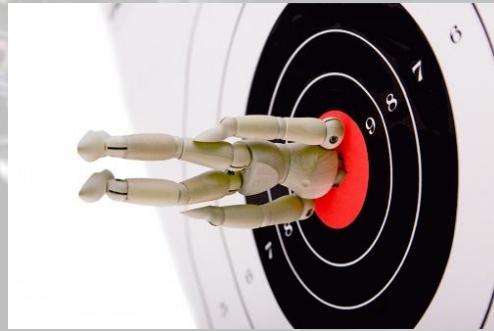
Target Fixation

- You go where you look
- You number 10 brake your vehicle
- You fixate on the danger (instinct)
- You steer towards it (you fixate)
- Your brain is focused so intently on the danger awareness of escape routes completely diminish



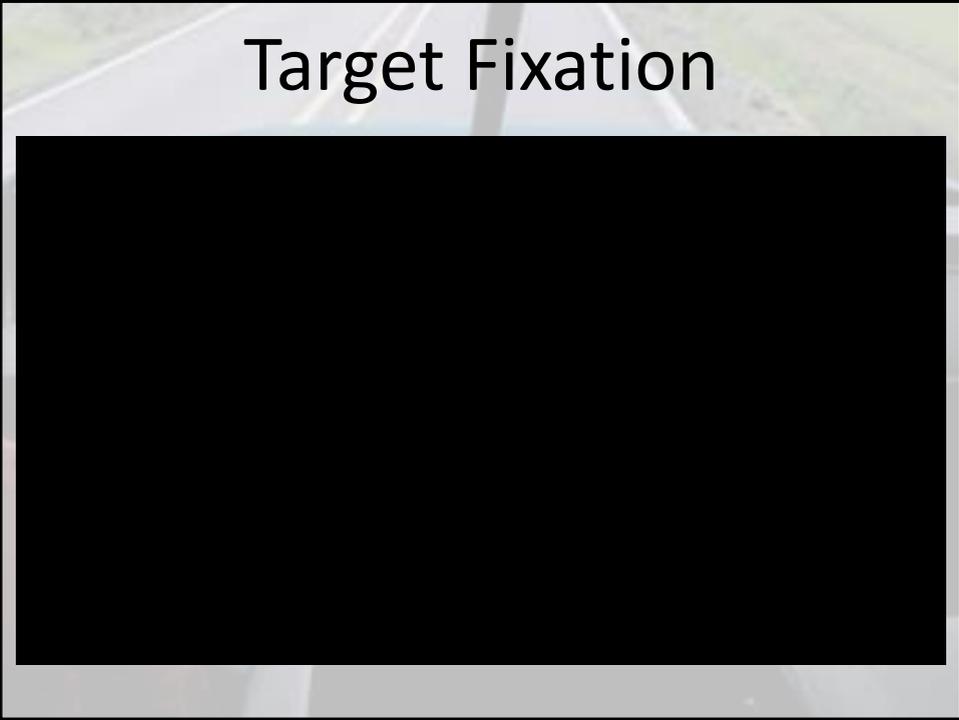
Target Fixation

- Rear- end accidents
- This error is repeated in a multi-vehicle pile up
- Head on collisions



Wrong Way Driver (Steer Where the Vehicle Just Was)





Perfect example of T.F.C.



Weather



Wrong Way Driver / Fatality Crash



SEATBELTS!!!

- They only affect me.....
Right...?
- **WRONG!!!!**

Seat Belt Usage



Can't stay in your seat....

