




DOT HS 811 202 September 2009

Fatalities in Frontal Crashes Despite Seat Belts and Air Bags

Review of All CDS Cases Model and Calendar Years 2000-2007 122 Fatalities

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- and **underrides**. By contrast, few if any of these 122 fatal crashes were fullfrontal
- vehicle-**underride** bin.....33 3.5 The vulnerable-occupant bin.....
- and **underrides**. By contrast, few if any of these 122 fatal crashes were full-
- severe **underride** into the rear of a semi-trailer (primary factor) almost certainly
- severe **underride** with intrusion extending into
- severely **underrides** a heavy trailer, uppercompartment intrusion resulting in fatal head injuries is an
- consequence. **Underride** is the primary factor; upper-compartment intrusion is the secondary factor. The
- Underride**: the primary frontal longitudinal members of the case vehicle did not engage
- vehicle. **Underride** becomes a primary factor if an impact at the same velocity with
- prevent **underride**: The case vehicle hit the rear of a semi-trailer or singleunit
- an **underride** guard. Nevertheless, there was severe underride, presumably because the vehicle ran under
- severe **underride**, presumably because the vehicle ran under the guard or pushed the guard
- prevent **underride** are also crashes with underride. But crashes with underride do not necessarily
- with **underride**. But crashes with underride do not necessarily involve the trailer's guard –
- underride** do not necessarily involve the trailer's guard – e.g., they could
- underride**; corner impact; tall, narrow object). Excessive IP or toe-pan intrusion, or
- Underride**" and the "Trailer's guard did not prevent underride" are captured in
- underride**" are captured in this bin. Generally the subject vehicle also experienced "
- severe. **Underride** of the rear or side of a heavy vehicle was the primary
- bins, **underrides** and vulnerable occupants, follow. 3.2 The corner/oblique-impact bin The team
- Underride**, limited vertical structural engagement 1 10 Excessive IP or toe pan intrusion,
- vehicle-**underride** bin The team identified 17 cases that involved the subject vehicle impacting
- Underride**" and the "Trailer's guard did not prevent underride" are captured in
- prevent **underride**" are captured in this crash-characteristic category. Generally the subject vehicle also
- an **underride** guard was present on the struck vehicle and, if so, how did



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