

Turning Tragedy Into Advocacy

Coming Together On A Mission
To Make Truck Crashes More
Survivable

Turning Tragedy Into Advocacy

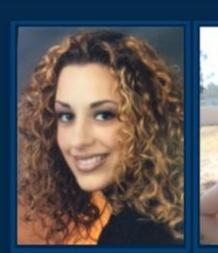
Two Moms On A Mission To Make
Truck Crashes More



Would YOUR car fit under a truck?

STOPunderrides.org









Their deaths were preventable.

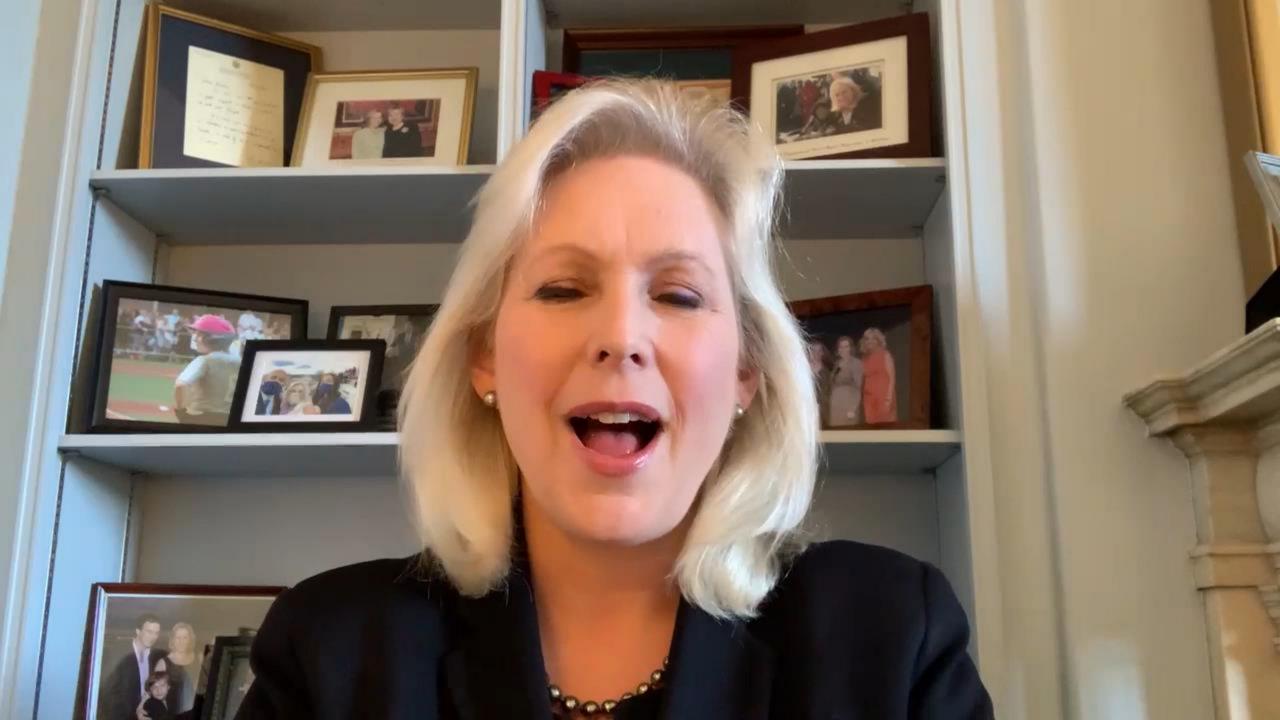
- Please put yourself on Mute & make sure that we can see your name.
- There will be a Q&A near the end.
- The meeting will be recorded & video file made available later.

We will be posting a PowerPoint and video of the news conference on our websites:

- annaleahmary.com
- stopunderrides.org

You can also email marianne@annaleahmary.com and ask for them, as well as contact information for interviewing underride families.

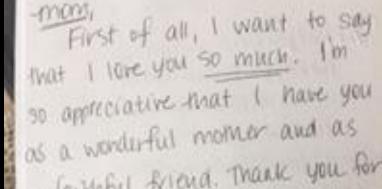
Thank you for coming and for helping to raise awareness about these preventable tragedies and the solutions available to end them.



A Timeline of Underride Safety



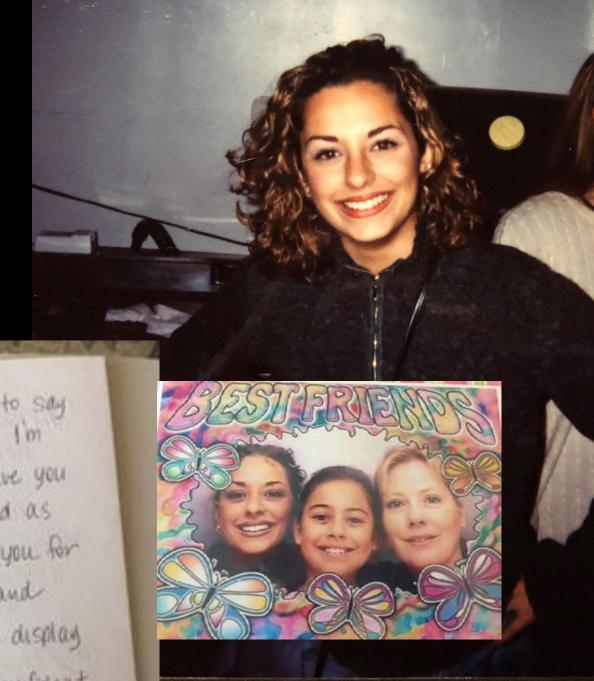




a faithful friend. Thank you for your witegrity, sacrifice and

abundant love which you display







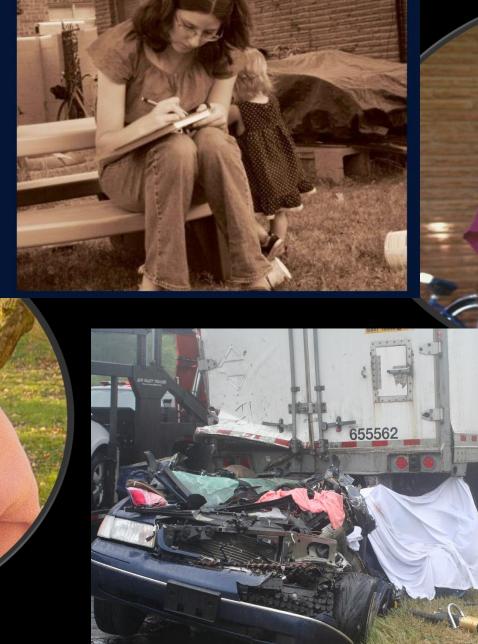
Mary 2013

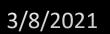
mary

Dear marcus



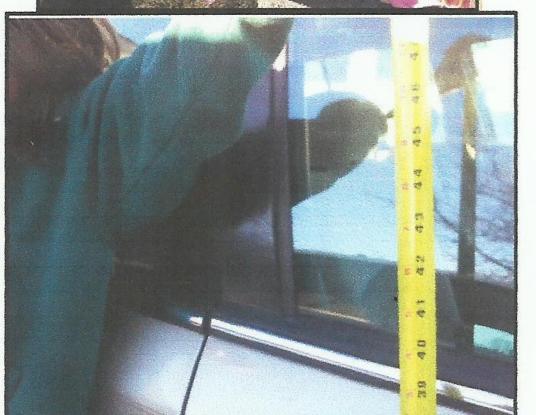
AnnaLeah 2013







The distance from the floor of the trailer to the pavement is 41 inches, and the height of this car's hood is about 33 inches.







Fifty years is too long to wait.

If trucks can be made safer,
what should we do about it?

"It is anticipated that the proposed Standard will be amended, after technical studies have been completed, to extend the requirement for underride protection to the <u>sides</u> of large vehicles."

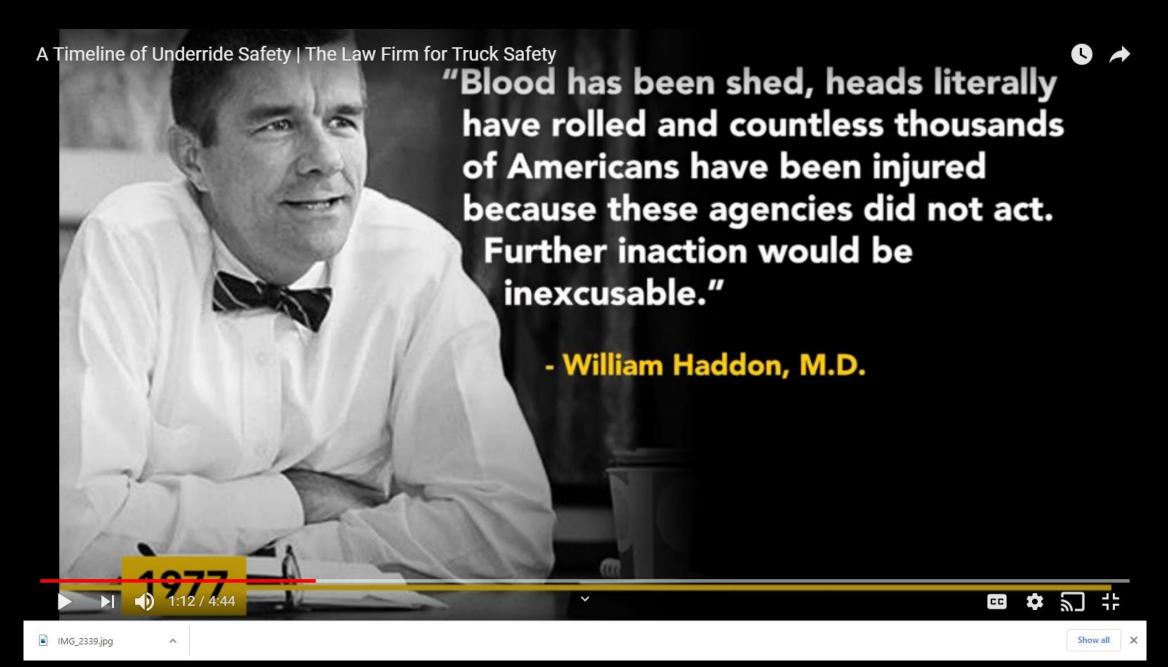
Federal Register, Vol. 34, No. 53 — Wednesday, **March 19, 1969**

Act now to

STOP Underrides!





















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The **STOP** Underrides Act

- Strengthen the requirements for rear underride guards, add the requirement to single unit trucks and ensure that these standards are based off of crash testing
- Require all new trailers, semi-trailers, and single unit trucks are equipped with side guards
- Require all new truck-tractors and single unit trucks are equipped with front guards



Single unit trucks are not required to follow the Federal standard



New York Garbage Truck Underride

Ford

Windstar

The front of a truck can go over a car

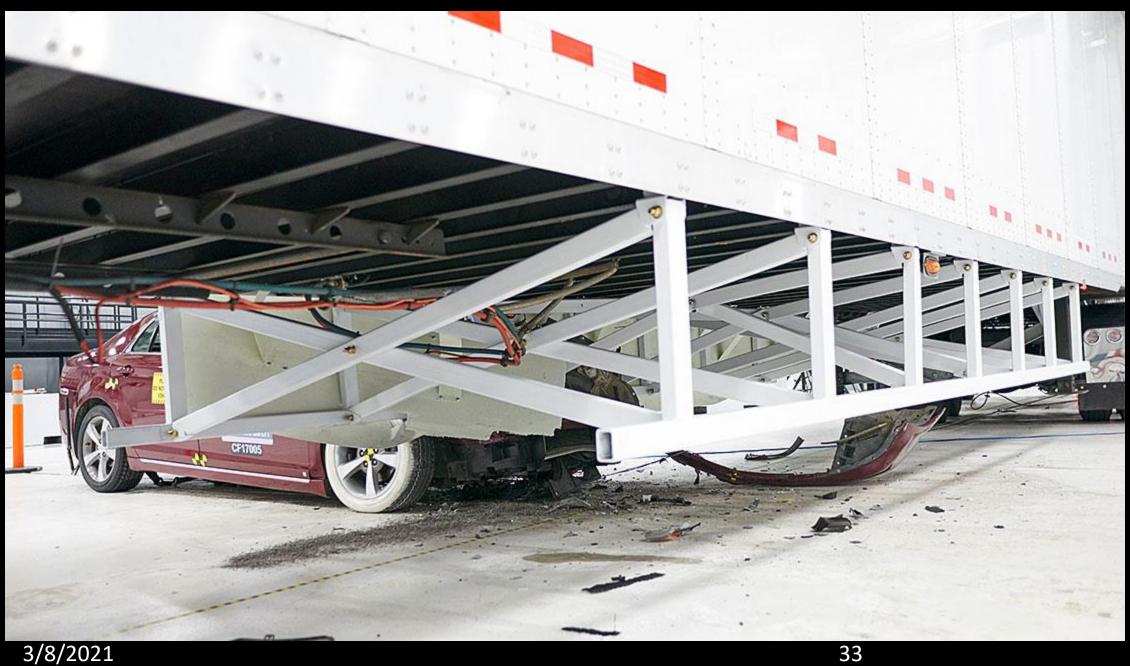
Hyundai Sonata

Kia Spectra

urce: Oklahoma State Police



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Vulnerable Road Users are also at risk

Motorcyclist suffers garbage truck

28 Shares







Pedestrian Hospitalized After Tractor Trailer In West Melbou

By Space Coast Daily // July 18, 2019

INCIDENT HAPPENED ON WEST HAV



UPDATE: bicyclist (

July 17, 2019 by Sarah Ash





artment of Labor said.

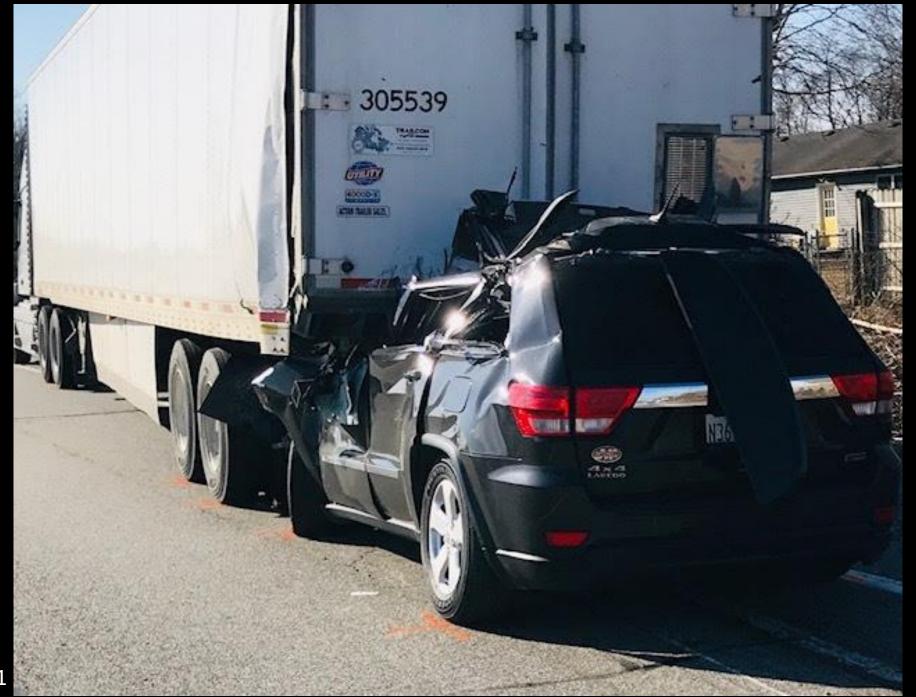
drum accident

FEATURES ON YOUR SIDE CHIME IN WATCH

e woman killed by tractor-trailer in ified

iday, July 19th 2019





The **STOP** Underrides Act

would establish a committee, to monitor the underride rulemaking process, that is composed of: manufacturers, road inspectors, motor vehicle engineers/technicians, motor vehicle crash reconstructionist specialists, traffic safety organizations, truck and auto insurance industry representatives, law enforcement crash investigators, emergency medical service providers, public health/injury prevention professionals, and families who have been impacted by underride crashes.

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In Summary, the Trucking Industry & the Federal Government Can Advance Underride Protection On a Fast Track By Adopting & Implementing:

- The IIHS TOUGHGuard Standard for rear underride guards
- The Consensus Side Guard Standard
- The UNECE-93 Front Underride Protection Standard

Thanks to IIHS tests, trailer manufacturers have improved their underride guards.

Consensus Side Guard Standard

A side underride guard shall be considered to meet the performance standard if it is able to provide vehicle crash compatibility with a midsize car, to prevent intrusion into the occupant survival space, when it is struck at any location, at any angle, and at any speed up to and including 40 mph.



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Front Underride Protection Crash Test

Hurdles to Reach Comprehensive Underride Protection RAMCUP

How often coes uncerrice happen?

STATUS

INSURANCE INSTITUTE FOR HIGHWAY

July 11, 1992

Death Count May Be Too Low

How often do cars and other passenger vehicles slide into and under the rear of big truck rigs, killing the people in the passenger vehicles? Underride crashes may happen more than twice as often as the National Highway Traffic Safety Administration (NHTSA) recognizes.

Institute researchers analyzing NHTSA data files have discovered that many states don't identify any fatal rear-end truck crashes as involving underride. These omissions lead researchers to conclude that many more deaths may be occurring in underrides than the average of 72 annually that NHTSA recognizes.

In California, for example, 24 percent of all 1989 passenger vehicle occupant deaths that occurred in rear-end truck and parked vehicle crashes are identified in NHTSA data files as involving underride. But, in 36 states and the District of Columbia, not a single one of the 400 passenger vehicle occupant deaths in such crashes is identified as involving underride. (See table on page 2.)

Institute researchers scrutinized police reports for the 1989 California crashes identified as underrides and verified them as such. "It's more than likely a coding problem that's keeping more crashes nationwide from being properly identified as underrides," says Institute President Brian O'Neill. Police reports don't always include enough information to determine whether individual crashes involve underride, so the crashes don't get coded as such in NHTSA's data system.

As many as 151 deaths in underride crashes may be occurring each year not the 72 NHTSA recognizes - if the proportion of underride crashes in California holds true for the nation as a whole.

"If underrides are underreported, and it appears they are, then it's all the more reason to get on with federal rulemaking for improved underride guards," O'Neill says. NHTSA's recent proposal to require lower, stronger guards on truck trailers is the agency's sixth announced plan to upgrade a 1953 underride regulation that's still in force. Proposals were issued then abandoned - in 1967, 1969, 1970, 1977, and 1981. (See Status Report, Vol. 27, No. 2, Feb. 8, 1992.)

Referring to the likely underreporting of underrides, the Institute says NHTSA should amend its data-gathering processes to more accurately identify such crashes. Plus, Institute researchers have identified the following shortcomings in NHTSA's proposed underride guard requirements:

Guards Too High The proposed 22inch maximum ground clearance for rear underride guards is preferable to the 30 inches now allowed, but it's still way too high. It'll fail to prevent many underrides and won't take full advantage of automobile safety technology like air bags, the Institute says. A 20-year-old NHTSA

SAS Output

GEORGIA

Page 41 of 150

	Passenger Vehi	cle Compart	ment Intrusion?	Total
Crash Year by Initial Impact	Compartment	No	Compartment	

2011

2012

VARIABLE LISTING OF CASE # 130366 VEHICLE DATA FILE

FATAL MOTOR VEHICLE TRAFFIC CRASH ON MAY 4, 2013 IN GREENSBORO, GA

FATALITY ANALYSIS REPORTING SYSTEM(FARS) 2013 ARF

2013	
2014	
2015	
1994- 2015	
	ľ

Extent of	Vehicle		Related Factors-	Related Factors-	
Damage	Removal	Most Harmful Event	Vehicle Level	Vehicle Level 2	Fire Occurrence
Disabling	Towed Due to	Motor Vehicle In-			No or Not
Damage	Disabling Damage	Transport	None	None	Reported
Disabling	Towed Due to	Motor Vehicle In-			No or Not
Damage	Disabling Damage	Transport	None	None	Reported
Disabling	Towed Due to	Motor Vehicle In-			No or Not
Damage	Disabling Damage	Transport	None	None	Reported
Emergency				Location of	Initial Contact
Use	Travel Speed	Underride/Override	Rollover	Rollover	Point
Not Applicable	Not Reported	No Underride or Override Noted	No Rollover	No Rollover	1 Clock Point
Not Applicable	Not Reported	Underriding a Motor Vehicle In-Transport, Underride, Compartment Intrusion Unknown	No Rollover	No Rollover	11 Clock Point
Not Applicable	Not Reported	No Underride or Override Noted	No Rollover	No Rollover	6 Clock Point
Driver Presence	Driver's License State (FARS Only)	Driver's ZIP Code	Non-CDL License Status	Non-CDL License Type	Commercial Motor Vehicle License Status
Yes	California	90025	Valid	Full Driver License	Valid
Yes	North Carolina	27804	Valid	Full Driver License	No (CDL)
Yes	Florida	34420	Valid	Full Driver License	Valid

This report was gen



Under-reporting: a major problem

Crash Y

lehicle Compartment In

FULL FIELD DATA DUMP OF 2004 FARS CASE 180748 - VEHICLE FILE FATAL MOTOR VEHICLE TRAFFIC CRASH OCCURRING ON NOVEMBER 24, 2004 IN INDIANA THE CRASH INVOLVED A BMW AND A TRUCK TRACTOR 2004 FATALITY ANALYSIS REPORTING SYSTEM (FARS) - FINAL

	VEHICLE											-							
ST_CASE	#	VIN	VIN_1	VIN_2	VIN_3	VIN_4	VIN_5	VIN_6	VIN_7	VIN_8	VIN_9	VIN_10	VIN_11	VIN_12	STATE	OCCUPANTS	MAKE	MODEL	BODY TYPE
180748	1	WBABN33441JW	W	В	A	В	N	3	3	4	4	1	J	W	Indiana	2	BMW	34	2dr Sedan/HT/Coupe
180748	2	1FUJBBCK94LN	1	F	U	1	В	В	С	K	9	4	L	N	Indiana	1	Freightliner	883	Truck/Tractor

ST_CASE		REGISTRATION STATE			JÁCKKNIFE		HAZARDOUS CARGO		VEHICLE CONFIGURATION	NUMBER OF AXLES	CARGO BODY TYPE	SPECIAL USE	EMERGENCY USE	
180748	1	Illinois	Driver Not Owner	No Rollover	Not Articulated	Unknown	No	No	Not Applicable	Not Applicable	Not Applicable	No Special Use	No	CI
180748	2	Multi-In State	Business or Govt	No Rollover	No	Unknown	No	Yes/1 Unit	Tractor/Semi	5	Van/Enclosed Box	No Special Use	No	(

ST_CASE	September 1997	PRINCIPAL IMPACT	UNDERRIDE/OVERRIDE	DEFORMATION	VEHICLE ROLE	MANNER LEAVING SCENE		RELATED FACTOR 1	FACTOR	VEHICLE	CRASH AVOIDANCE MANEUVER	HARMFUL	FATALS IN VEHICLE	EVENT 1
180748	1	Clock 12	No Under/Override	Disabling	Striking	Towed Away	No Fire	None	None	Going Straight	No Maneuver	Veh in Transp	1	Veh in Transp
180748	2	Clock 3	No Under/Override	Disabling	Struck	Towed Away	No Fire	None	None	Going Straight	No Maneuver	Veh in Transp	0	Veh in Transp

ST_CASE	VEHICLE #	EVENT 2	EVENT 3	EVENT 4	EVENT 5	EVENT 6	VIN LENGTH	BUS USE	GVW RATING	VEHICLE MODEL		1.000	VIN SERIES TRUCK	VIN_BT		TRUCK FUEL CODE	WHLBASE SHORT-AUTO	WHLI LONG-A
180748	1	Unknown	Unknown	Unknown	Unknown	Unknown	17	Not Used a Bus	Not Applicable	BMW 3-series	2001	5CI	***	СР	00000000000	*	1073	
180748	2	Unknown	Unknown	Unknown	Unknown	Unknown	17	Not Used a Bus	26,001 or more	FRHT COE hi ent	2004	ST2	CON	DS	5780806	D	9999	

ST_CASE	VEHICLE #	CC DISPLACEMENT	75.555	TRUCK WEIGHT CODE	DRIVER PRESENCE		LICENSE STATE			LICENCE	COMPLIANCE W/LIC ENDORSEMENTS	LICENCE TYPE		VIOLATION
180748	1	0	3252	0	Driver Operated	No Drinking	Illinois	Full License	Valid	No (CDL)	No Endorsements	Valid	No Restrict, N/A	None
180748	2	0	0	8	Driver Operated	No Drinking	Michigan	Full License	Valid	Valid	No Endorsements	Valid	Complied	Non



nder-reporting: major problem FIELD DATA DUMP OF 2016 FARS CASE 120918 - VEHICLE FILE L MOTOR VEHICLE TRAFFIC CRASH OCCURRING ON MAY 7, 2016 AT 4:40PM IN CRASH INVOLVED A TESLA AND A TRUCK TRACTOR FATALITY ANALYSIS REPORTING SYSTEM (FARS) - FINAL

cutive umber 20918	Number		Underride/Override No Underride or Override Noted	No	Rollover	Impact - Initial Contact Point 9 Clock Point	Extent of Damage	7						The state of the s		9	1
120918	2	065 MPH	No Underride or Override Noted	No Rollover	No Rollover	ACTION ASSESSMENT AND ASSESSMENT ASSESSMENT AND ASSESSMENT ASSESSMEN	Disabling Damage	Due to	In-Transport	None	None	No or Not Reported	Yes	Ohio	44705	Valid	Fu

Joshua Brown Tesla Side Underride Crash

Under-counted and under-reported

- Inconsistency in police reports
- No checkbox for underride in police reports
- Poorly understood by law enforcement
- Looking for reason for crash not reason for fatalities.
- Looking at driver behavior instead of dangerous design of trailer.
- Lack of awareness
- Well-documented inaccuracy of data

How Reporters Can Help To Improve Underride Reporting

- When reporting on a truck crash, ask the investigating officer underride-related questions.
- Find out the manufacturer & year of both the truck-tractor and the trailer (VIN).
- Find out if there was any Passenger Compartment Intrusion (PCI) which often occurs with underride, i.e., were doors, windshields, or the roof caved-in or sheared off?
- Was there entrapment?
- Were the car's crashworthy features triggered, e.g., crumple zone, airbags, seatbelt tensioners?
- Use the term underride, as well as phrases like "car crashes into trailer, "goes underneath the trailer," or "directly into and underneath."
- If there are multiple occupants in the passenger vehicle, indicate where they each were sitting and whether they were trapped or injured or killed.
- Follow-up to see if people, who are transported to the hospital, died or were left with debilitating injuries.

Potential Side Guard Operational Issues

Weight of Side Guards:

- Effect on fuel cost
- Effect on trailer's frame

Road Clearance:

- Ability to navigate loading docks
- Ability to clear rail grade crossing

Effects on Under-Trailer Equipment/Access:

- Do side underride guards limit access to or displace equipment?
- Do side underride guards inhibit inspection of vehicle

Cost Benefit Analysis



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Riley 2015

2015

Forever Loved, Always Missed RILEY ERIC HEIN 1999-2015

"We didn't realize we were making memories,

Manzano student identified as person killed in I-40 crash

BY NICOLE PEREZ / JOURNAL STAFF WRITER

Monday, November 16th, 2015 at 6:46pm

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in LINKEDIN

EMAIL

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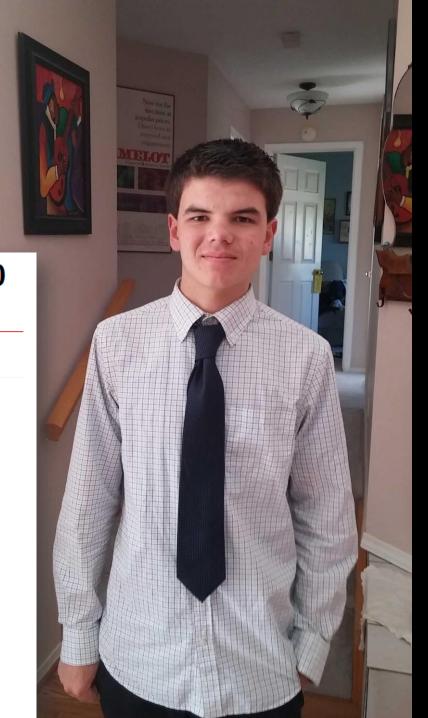
SUBSCRIBE

ALBUQUERQUE, N.M. — The person killed in a fiery crash that closed I-40 Friday morning is Manzano High School junior Riley Hein, school officials confirmed Monday.

Bernalillo County Sheriff's Office deputies were called to westbound I-40 near the Tijeras exit around 6:30 a.m. for a crash between a car and a semi-trailer. Authorities closed westbound lanes of traffic all morning while they investigated.

Sheriff's Office spokesman Aaron Williamson said a passenger car and a semitrailer that were both driving on westbound I-40 collided with one another at a curve, and the passenger car got trapped underneath the semi.

The semi dragged the car for a quarter mile, and when authorities arrived, the truck was on fire. The driver of the passenger car, whom school officials identified as Hein, was pronounced dead at the scene of the crash.



Leslie & Sophie 2018

Family petitions for more lights, no 'dark colors' on big rigs following fatal crash

By Ashley - October 13, 2020



From Cathy Forman's Change.org petition

A new petition is asking transportation officials to require several changes to commercial motor vehicles to make them more visible at night in hopes of saving lives.

The <u>Change.org petition</u> was created by Cathy Forman and is addressed to the National Highway Traffic Safety Administration and state transportation departments.

The petition describes an October 2018 crash at Highway 21 and FM 1362 in Burleson

County, Texas, that left Forman's sister Leslie Rosenberg, 62, and niece Sophie, 19. dead.

Students, community remembering Aggie sophomore killed in car crash



(KBTX)
By Erika Fernandez
Published: Oct. 17, 2018 at 5:36 PM EDT

0 × 4 0 m

Michael

2014





Mike









Trucking Companies

Trailer Manufacturers The Government

















We will be posting a PowerPoint and video of the news conference on our websites:

- annaleahmary.com
- stopunderrides.org

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