



CMV Crash Investigations

MMTA September 2021

Agenda



- **What does MSP-CVEU Unit do on scene?**
- **What is collected**
- **What does the MSP Recon unit do on scene/post crash**
- **Crash data from 2019/2020 review**

Agenda



- **Crash scene overview**
- **What can we do to mitigate severity?**
- **Questions?**

There has been a Crash



- Once a crash has occurred the priority is always about the people involved first. Once the scene is safe for investigation, by law the MSP CVEU unit must respond.
- The first steps will be to meet with the investigating agency to get a general overview of what “may” have happened and what additional resources are needed.
- The MSP-CVEU unit will then turn its attention to the driver and the commercial MV

What do we look at?



MAINE STATE POLICE COMMERCIAL VEHICLE CRASH DATA COLLECTION

Case Information:

Accident Type: Fatal	Date: Click here to enter a date.
Trooper/Inspector:	SP Case #:
Town/ City:	Route/Street:
Primary Agency/ Troop:	Primary Officer:
Reconstructionist:	Aspen Report#:
MCRS Accident Report completed by:	

Motor Carrier Information:

Carrier Name:	Carrier USDOT #:
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Carrier Identified By:

Vehicle Marking Vehicle Registration Bill of Lading Lease Agreement Driver Interview

Driver Information:

Driver Name:	OLN:
DOB:	Phone/Cell Phone:
Sex: Male	License Class:

Document..

[Detach XML Expansion Pack](#)

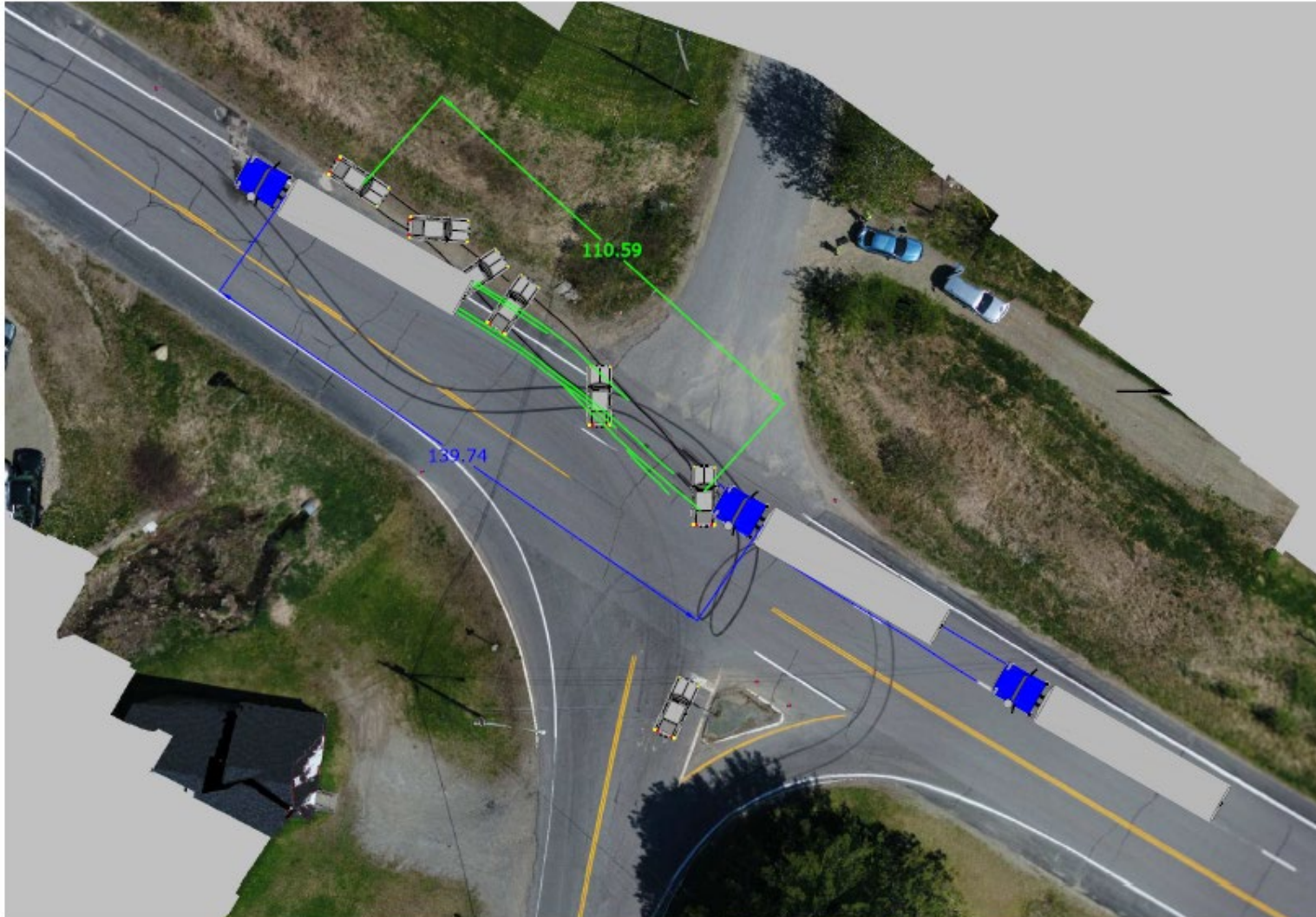
MSP Recon Unit

- What Does a Reconstructionist do?
 - A Reconstructionist will assess the crash scene and document all the physical evidence.
 - Physical Evidence includes:
 - Skid Marks
 - Debris
 - Vehicle damage
 - Road and Weather Condition

MSP Recon Unit

- Evidence and Data Collection Equipment
 - Smart level
 - Total Station
 - UAV (Drone)
 - Evidence Data Recorder Tool
 - ECU Data Collection

Mapping with the UAV



Review of Crash Data

- In reviewing this data only vehicles that are 26,001 pounds or more were considered.

Maine: Summary Report					
Summary	CY 2016	CY 2017	CY 2018	CY 2019	CY 2020*
Number of vehicles involved in fatal & non-fatal crashes	866	873	961	924	522
# in fatal crashes	17	30	19	20	15
# in non-fatal crashes	849	843	942	904	507
Number of fatal & non-fatal Crashes	866	871	958	888	504
# of fatal crashes	17	30	18	20	14
# of non-fatal crashes	849	841	940	868	490
Number of Fatalities as a result of a crash	24	33	18	22	16
Number of Injuries as a result of a crash	560	489	529	498	251

FMCSA Motor Carrier Management Information System (MCMIS) data snapshot as of 01/29/2021, including crash records through 09/30/2020. MCMIS data are considered preliminary for 22 months to allow for changes. The combined large truck and bus counts may not equal the sum of the individual truck and bus counts if some crash events involved both types of vehicles.

Review of Crash Data 2019

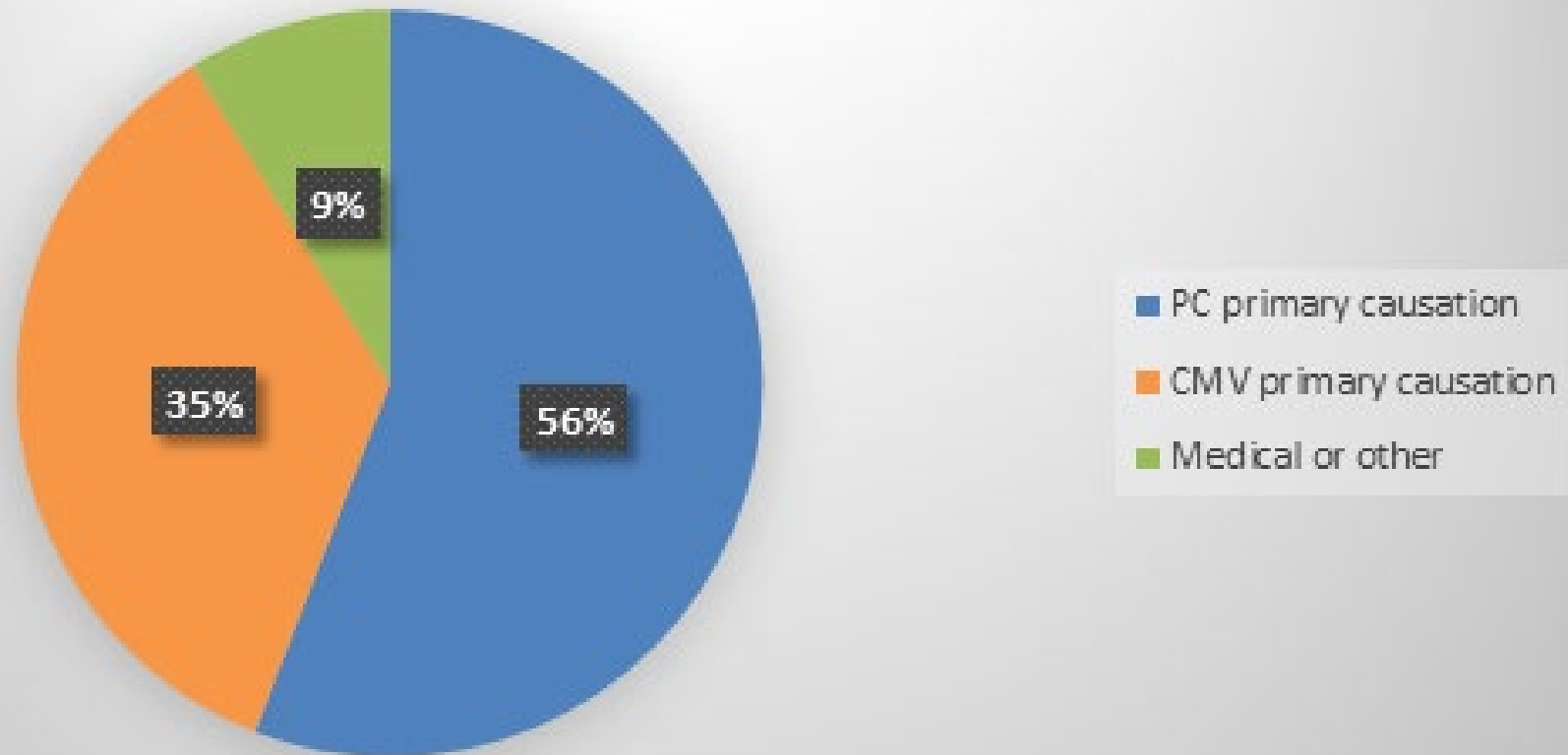
Report Number	Crash Date	City Or Town	Reporting Agency	GVW Ror GCWR	CMV Contrib	PC Contrib	Main Contrib Factor
19S000799	1/3/2019	Orient	MEMSP0F00	Greater than 26-000 lbs.	N	Y	FT Yield ROW
19S004502	#####	Buckfield	MEMSP0B00	10-001 - 26-000 lbs.	N	Y	Left Lane of Travel
19S012622	#####	Portland	MEMSP0G00	Greater than 26-000 lbs.	Y	N	Medical event
19-002525	#####	Portland	ME0030500	Greater than 26-000 lbs.			Driver fell under truck
1908146	#####	Stoneham	ME0090000	Greater than 26-000 lbs.	Y	N	To fast for conditions
19SKO-219-AC	#####	Skowhegan	ME0130200	Greater than 26-000 lbs.	N	Y	Left Lane of Travel
19YSO-32-AC	#####	Waterboro	ME0160000	10-001 - 26-000 lbs.	Y	N	Rearend collision
19-108993	#####	Sabattus	ME0010700	Greater than 26-000 lbs.	N	Y	Left Lane of Travel
19RAN-27-AC	7/2/2019	Rangeley	ME0040400	Greater than 26-000 lbs.	N	Y	Rearend collision
E19-03149	#####	Ellsworth	ME0050200	10-001 - 26-000 lbs.	N	Y	Left Lane of Travel
19-086911	#####	Milford	ME0100000	Greater than 26-000 lbs.	Y	N	Back over pedestrain
19S025646	4/3/2019	Hampden	MEMSP0D00	Greater than 26-000 lbs.	N	Y	Left Lane of Travel
19SOM-493-AC	7/4/2019	Madison	ME0130000	Greater than 26-000 lbs.	Y	N	Speed
19SW-0688	#####	Southwest Harbor	ME0050800	Greater than 26-000 lbs.	N		Pedestrian fell under truck
19SAN-665-AC	#####	Sanford	ME0160500	10-001 - 26-000 lbs.	Y	N	Driver fell under truck
19200-54-AC	7/8/2019	Damariscotta	ME0080200	Greater than 26-000 lbs.	N	Y	FT Yield ROW
RP191630	5/1/2019	Rumford	ME0090100	10-001 - 26-000 lbs.	N		Pedestrian fell under truck
19S016293	3/1/2019	Arundel	MEMSP0G00	10-001 - 26-000 lbs.	Y		Left Lane of Travel

Review of Crash Data 2020

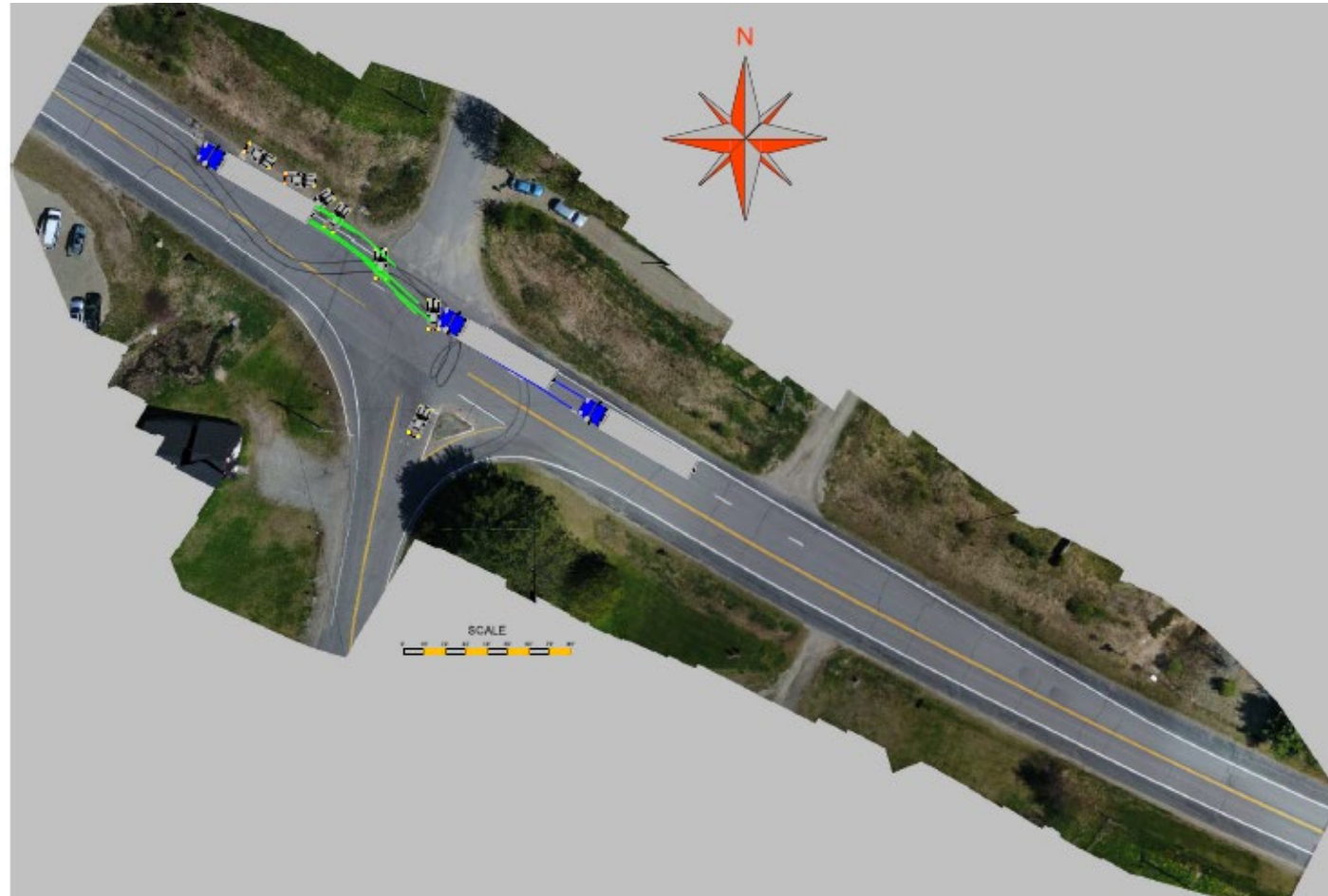
Report Number	Crash Date	City Or Town	Reporting Agency	GVW Ror GCWR	CMV Contrib	PC Contrib	Main Contrib Factor
20S052077	#####	Chester	MEMSP0E00	10-001 - 26-000 lbs.	N	Y	FT Yield ROW
20S041310	8/5/2020	Morrill	MEMSP0D00	Greater than 26-000 lbs.	N	Y	Left lane of Travel
20-004115	#####	Gray	ME0030000	Greater than 26-000 lbs.	N	Y	Left lane of Travel
2006768	#####	Bethel	ME0090000	Greater than 26-000 lbs.	Y	N	Rearend Collision
K20-04327	#####	Union	ME0070000	Greater than 26-000 lbs.	N	Y	FT Yield ROW
20S033809	7/3/2020	Topsham	MEMSP0D00	10-001 - 26-000 lbs.	Y	N	Left lane of Travel
20-102	6/5/2020	Caribou	ME0020100	10-001 - 26-000 lbs.	N		Medical
20S063556	#####	T7 SD	MEMSP0J00	10-001 - 26-000 lbs.	Y	N	Left lane of Travel
20-14002	#####	Falmouth	ME0030300	Greater than 26-000 lbs.	N	Y	Left lane of Travel
20-019615	#####	New Gloucester	ME0030000	10-001 - 26-000 lbs.	Y	N	Left lane of Travel
T20-02641	#####	Thomaston	ME0070300	Greater than 26-000 lbs.	N	Y	Left lane of Travel
20SOM-64-AC	#####	Canaan	ME0130000	Greater than 26-000 lbs.	N	Y	Left lane of Travel
20S061789	#####	Crawford	MEMSP0J00	Greater than 26-000 lbs.	Y	N	Left lane of Travel
20ASO-394-AC	#####	Wales	ME0010000	Greater than 26-000 lbs.	Y	N	Left lane of Travel
W20-5895	#####	Freedom	ME0140000	10-001 - 26-000 lbs.	N	Y	FT Yield ROW
W20-1587	#####	Liberty	ME0140000	Greater than 26-000 lbs.	N	N	Hit pedestrain lying in roadway

Review of Crash Data

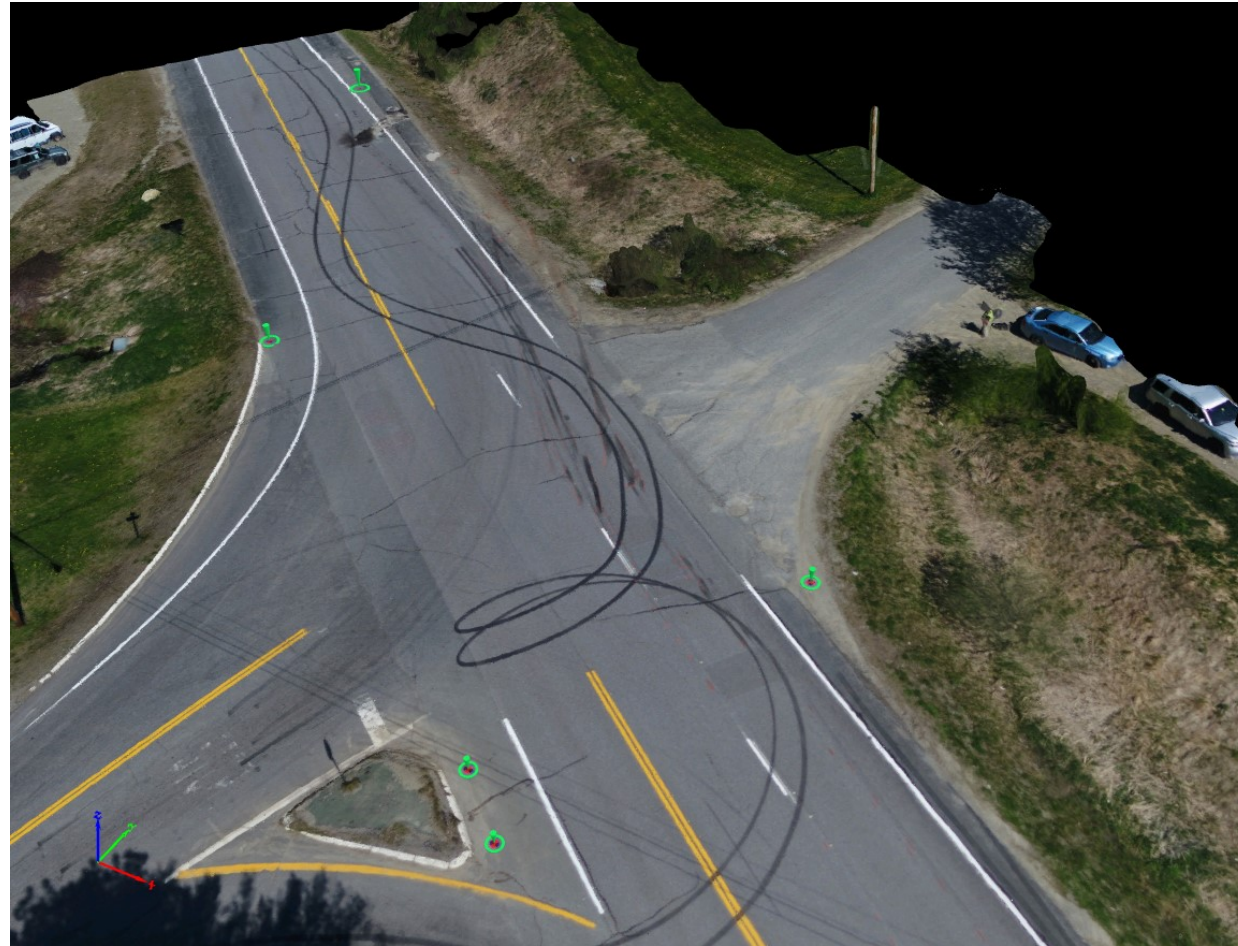
Total Crashes



Crash Scene Overview



Crash Scene Overview



What steps can we take?

- Crash Severity Mitigation steps
- Vehicle Maintenance ?
- New technologies to assist with driver behaviors?
- New Driver training?

Questions ?



Maine State Police Contacts

- Lt. Aaron Hayden- Commander of CVEU Maine State Police
- Specialist Patrick Munzing –Motor State Police Traffic Safety Unit