



# Crashes Involving Farm Tractors and Other Farm Vehicles/Equipment in North Carolina: An Update April 8, 2010

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# Crash Year by Type of Farm Vehicle Involved in Crash (Vehicle Counts)

Year	Other	Tractors	
2003	47	194	241
2004	42	179	221
2005	41	162	203
2006	37	191	228
2007	58	180	238
2008	46	186	232
Total	271	1092	1363

# Report Type of Crash by Crash Year (Crash Counts)

	2003	2004	2005	2006	2007	2008	Total
PDO	116	113	105	125	123	130	712
Fatal	6	0	5	5	3	3	22
Injury	92	81	76	77	78	73	477
Non-reportbl	22	14	12	12	25	12	97
Private Prpty	1	2	3	2	3	3	14
PVA - PDO	1	11	2	6	5	10	35
PVA - Injury	2	0	0	0	0	1	3
Total	240	221	203	227	237	232	1360



# Roadway Class where Crash Occurred

Roadway Class	Freq	Percent	Cum Freq	Cum Per
Interstate	18	1.35	18	1.35
US Route	176	13.15	194	14.50
NC Route	274	20.48	468	34.98
State Secondary Route	659	49.25	1127	84.23
Local Street	139	10.39	1266	94.62
PVA	50	3.74	1316	98.36
Private Road, Drway	16	1.20	1332	99.55
Other	6	0.45	1338	100.00

# Farm Vehicle Driver / Operator Age By Type of Farm Vehicle Driven

	Farm Equip ment	Farm Tractors	Total
Under 14	3	8	11
15 to 20	8	48	56
21 to 30	49	115	164
31 to 60	122	472	594
61+	28	151	179
Total	210	794	1004

# Posted Speed Limit for Other Vehicle Involved

Posted Speed Limit	Freq	Percent	Cum Freq	Cum Per
• 20 MPH Speed or Less	11	0.86	11	0.86
• 25 to 35 MPH	159	12.42	170	13.28
• 45 & 50 MPH	219	17.11	389	30.39
• 55 MPH +	891	69.61	1280	100.00

# Vehicle Type by Driver Speeding Involved

	No	Yes	Total
Farm Vehicle	979	25	1004
	41.98	1.07	43.05
	97.51	2.49	
	49.92	6.74	
Other Vehicle	982	346	1328
	42.11	14.84	56.95
	73.95	26.05	
	50.08	93.26	
Total	1961	371	2332
	84.09	15.91	100.00

# First Harmful Event in Crash

Type	Freq	Percent
#1 Left Turn, same rdwy	359	26.40
#2 Rearend Slow/stop	349	25.66
#3 Sideswipe, same dir	129	9.49
#4 Angle	103	7.57

# Other Vehicle Driver Contributing Circumstance

Type	Freq
#1 Fail to reduce Speed	321
#2 Other improper pass	231
#3 Inattention	153

# Farm Vehicle Driver / Operator Contributing Circumstance

Type	Freq
#1 FTY	124
#2 Inattention	101
#3 Crossed center line/ wrong way	63
#4 Improper turn	52

# Conclusions

- Other Vehicle Drivers: Speeding / Inattention
- Farm Vehicle Drivers: FTY / Inattention
- State Secondary Roads
- Posted Speed Limit 55 MPH
- Piedmont / Eastern NC
- Summer Months / Day Time

# Recommendations

- Work with the NC Farming Community
- Work with Law Enforcement
- Farm Equipment Visibility
- SSR Warning Signs
- PSAs
- Safety Community Work Together

- UNC Highway Safety Research Center
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- Thanks.