

Lighting and Marking Legislation to Prevent Farm Equipment Crashes on the Road

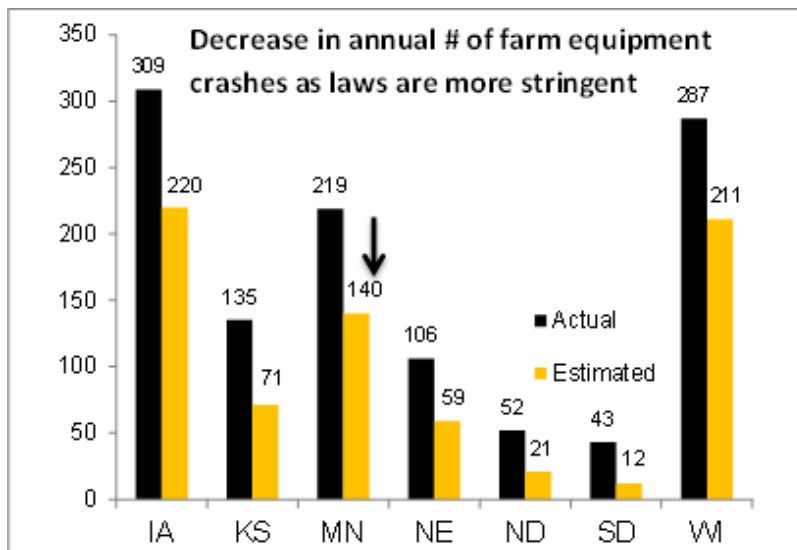
The problem:

- There were over 7000 roadway crashes involving farm vehicles in 9 Midwest states during 2005 - 2010.
- These crashes affect farm operators and workers as well as occupants of other, non-farm vehicles.
- Each state regulates lighting and marking of farm equipment operated on its public roadways.
- **Do stricter laws on lighting and marking of farm equipment lead to lower crash rates?**

Findings:

- State lighting and marking policies were compared to standards offered by the American Society for Agricultural and Biological Engineers (ASABE).
- Laws on lighting and marking of farm equipment were collected from KS, IL, IA, MN, MO, ND, NE, SD, and WI.
- Illinois's law was most compliant with ASABE standards, while Missouri's law was least compliant.
- ASABE standards have been adopted for use on new equipment by agricultural equipment manufacturers, despite no federal requirement.

State	Compliance w/ ASABE Standards (higher score is more compliant)
Illinois	30
Kansas	28
South Dakota	26
North Dakota	23
Minnesota	20
Wisconsin	19
Iowa	18
Nebraska	17
Missouri	5



Lighting and Marking Policies are associated with lower crash rates

- States with more compliant laws had lower crash rates.
- Aligning state lighting and marking laws with ASABE standards can prevent crashes

Safety Tips:

- Farm vehicle drivers, be sure lighting and marking is compliant with ASABE standards
- All drivers, be aware of farm equipment on roads and the speed differential with passenger vehicles

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