Crush Protection Device (CPD) as a Strategy to Prevent ATV Fatalities and Injuries

The Ag Health and Safety Alliance’s Gear Up for Ag Health and Safety™ program focuses on educating the next generation of agriculture by interacting with students at Ag colleges and high schools. Data from the Ag Health and Safety Alliance’s standardized survey indicates there is a need for increased attention to ATV Safety.

**Student Pre Surveys**

Questions related to ATVs are part of the standardized Gear Up for Ag™ pre and post survey.

- 1574 of 2252 international students took the pre survey
- 56% have rolled an ATV/Quad
- 13% never | 59% sometimes | 19% always allow extra riders when operating an ATV/Quad
- 35% never | 38% sometimes | 18% always wear a helmet when operating or riding an ATV/Quad

![Pie charts showing survey results]

Pre Survey Data provides understanding on how students are doing prior to the delivery of the program.

Sharing real data with students gives us the opportunity to open up discussions about the students who are in the program.

**Student Post Surveys**

264 students completed the post survey. Since the Gear Up for Ag™ program students reported the following:

- 20% never | 49% sometimes | 17% always allow extra riders when operating an ATV/Quad
- 16% never | 64% sometimes | 24% always wear a helmet when operating or riding an ATV/Quad

Starting in October 2018, additional education and a post survey question related to the use of a Crush Protection Device was included in the Gear Up for Ag™ program.

How likely are you to get a Crush Protection Device for your ATV? Of the 106 students who took the updated post survey, 6% stated they are very likely to get a CPD, and 26% somewhat likely get a CPD.

**Ag Health and Safety Objectives:**

1. Agricultural and Occupational Health and Safety organizations support the use of CPDs on ATVs through safety education and awareness.
2. Health and safety messages and campaigns show the use of CPDs on ATVs.
3. ATV industry installs CPDs on ATVs similar to ROPS on tractors.

![Hierarchy of Controls diagram]

Traditionally, a hierarchy of controls has been used as a means of determining how to implement feasible and effective control solutions. The Crush Protection Device (CPD) is an engineering control for ATVs that is used as a prevention strategy to reduce and prevent injuries and fatalities for ATV riders similar to the use of ROPS on tractors. Currently safety education focuses primarily on the use of helmets, PPE and not allowing extra riders.

**Resources**

Addition of CPD to educational displays and materials