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JA:2021-8. Evaluating the SAY National Clearinghouse

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enrolled 31 row crop farms in Iowa between August and October, 2019. Data collection included an interview with the farm owner or operator and an environmental assessment of safety hazards. We graded various hazards associated with tractors, entanglements, and falls using measures of compliance to recommended safety standards. We also examined the prevalence of injury to owners or operators, family members, contract farmworkers, and hired farm hands.

Results/Findings: More than half (52%) of the farm workers experienced an injury that resulted in medical attention. Among the 31 farms enrolled, there were three fatalities related to farm work, all of which occurred among owners or operators. We found that 87% of farms were compliant with roll-over protective structures (ROPS), and 71% of farms had a seatbelt in good working condition. For power take-off (PTO) powered implements, 16% of farms were compliant with PTO guards. For fixed implements, such as augers, grain dryers, and bench grinders, 48% of farms were compliant with recommended safety standards. Approximately two-thirds of farms were compliant with ladder safety, and 45% were compliant with having handrails at working elevations.

Practical Application: Many of the tractors and other hazardous equipment were present and mostly compliant with recommended safety standards. However, there is clearly a need for improved compliance with recommended safety standards among specific hazardous equipment on the farm. Our hazard assessment tool provides farmers and other stakeholders with an opportunity to systematically and comprehensively evaluate compliance to recommended safety standards.

Disclosure statement

There are no conflict of interests.

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ABSTRACT

Purpose: The purpose of this study was to conduct a formative evaluation to improve the functionality and usability of the Safety in Agriculture for Youth (SAY) Project National Clearinghouse. The SAY Project is a USDA-NIFA grant, and the evaluation is being conducted through a grant through the National Children's Center.

Methods: A quarterly SAY Clearinghouse eNews is sent to FFA and 4-H educators in Pennsylvania and Utah as well as people who have signed up for the eNews at the National FFA Convention. Four online surveys were conducted between April 2017 and December 2019 to examine the usability, structure, and available content of the Clearinghouse. This information will be a formative evaluation to make improvements to the Clearinghouse.

Results/Findings: The survey results reflect responses from those affiliated with FFA and provides pertinent information about the type and topics of educational resources that they utilize in their program. This type of information is useful when looking at material to include in the SAY Clearinghouse and the promotion. The alignment of the SAY Clearinghouse contents to the AFNR standards was seen positively by the majority of the respondents. Marketing continues to be a challenge for the SAY Clearinghouse because only a small percentage was

already familiar with the Clearinghouse. Those individuals familiar with the Clearinghouse learned about it through professional meetings and promotional material. Respondents indicated their likelihood of using SAY materials and positively rated the organization, usability, and range of topics covered by the Clearinghouse.

Practical Application: Our overall goal is to reduce the number of injuries and fatalities associated with agricultural operations. SAY National Clearinghouse provides access to agricultural safety and health curriculums and improved safety and health of youth working in agriculture.

KEYWORDS

Youth; education; resources; injury-prevention

Disclosure statement

Indicate any personal or financial conflicts of interest.

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JA:2021-9. Pesticide Label Safety Information in Spanish and English: In Your Hand, Anytime & Anywhere

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ABSTRACT

Purpose: The Etiquetas bilingües de pesticidas, or Bilingual Pesticide Safety project, aims to put pesticide label health, safety, and environmental protection information directly into the hands of end-users – pesticide handlers and managers. These mobile applications provide producers a risk management tool for minimizing health, safety, environmental, fiscal, and reputational risks associated with pesticide use. The initial spark for the project occurred in 2006 when formative research on pesticide safety needs for Washington State (WA) identified a significant safety barrier: pesticide labels are in English, while Spanish is the primary language of most agricultural workers.

Methods: As smart phones and mobile devices have become essential work and personal tools, they were selected as the delivery platform to put this safety information into the hands of end-users. This bilingual app features the English label content and true, accessible Spanish translations; easy iaccess through a menu; and full-function offline for use on remote farms lacking connectivity. Research for this translation project has three phases. Phase 1 (2016): First generation pilot app (pome fruit) for proof-of-concept. Phase 2 (2018): Second generation β-app for expansion (tree fruit). Phase 3 (2020–2022): Product upgrades (WA specialty crops), added features, and distribution through app stores. Each phase includes end users evaluating app function, usability, and translations.

Results: The pilot and ß-apps demonstrated that the design and user-friendly interface was appropriate, the translations were excellent ("[They're] like the translations I use"), and stakeholders were eager for full product availability. Similar results were obtained from the first user tests for Phase 3. Stakeholders, including producers, industry organizations, state agencies, and end-users, are now partners in support of Phase 3 currently underway.

Discussion and Conclusion: With strong industry support, two apps are now funded for WA. ¡Etiquetas de pesticides, ahora!/Pesticide Labels, Now! with safety information from 40 labels used in apple and pear production will be released in Winter 2020. The PestiSeguro™/PestiSafe™ app covers labels for WA specialty crops with a 3-year staged release starting in 2020. Initially this app will be available without charge