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What Influences Farmers to Use Farm Safety and Health Information?

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What Influences Farmers to Use Farm Safety and Health Information?

Abstract

Farm safety and health outreach professionals can more effectively develop, design, package, and deliver pertinent educational messages if they understand farmers' preferences regarding how such messages are presented. Farmers were surveyed about what influences their use of safety and health educational resources. Responses indicated farmers' preferences and perceptions related to wording, images, elements that encourage or discourage use of materials, and lengths of resources. Among the significant results were findings that images reflective of farm operations similar to their own and nontechnical terminology would increase farmers' use of resources. Results provide Extension educators with research-based data that can guide their preparation of impactful farm safety and health materials.

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Introduction

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The U.S. Cooperative Extension System has adapted to changing times and landscapes, although rural America remains a major focus of the work conducted by Extension professionals. Of course, farmers make up a large proportion of the rural population, and farming has its risks. Examples of agricultural health concerns include lung damage resulting from dust exposures and hearing loss due to exposure to noisy farm equipment. Moreover, agriculture continues to have one of the highest fatal injury rates of any U.S. industry sector, with 22.2 fatal injuries occurring per 100,000 workers in 2013 (U.S. Bureau of Labor Statistics, 2014). These high rates persist as farmer demographics continue to evolve.

As farmer demographics change so do the methods used to relay farm safety and health information. For farmers and their families to use information and adopt safe behavior and attitude changes, they must accept educational resources and materials as useful tools. Researchers have found that various farmer characteristics are associated with preferred information sources. For example, a study of the preferred information sources of cotton farmers revealed that users of Extension resources tended to be younger, have

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larger farms, have higher incomes, and rent larger proportions of land as compared to other groups (Velandia et al., 2010). Other studies have shown that highly educated, younger farmers were more likely to use a variety of information sources (Jensen, English, & Menard, 2009) and that female farmers prefer interactive, hands-on education and educational opportunities in multiple formats (Barbercheck et al., 2009). Farmers' characteristics also are correlated with their perceptions of a particular information source (Ngathou, Bukenya, & Chembezi, 2006). Additionally, when addressing risk and farm injury prevention, it is important to use communication strategies that motivate people to take action (Hutcheson, 1999). For these reasons, farmer perceptions and practices need to be taken into account by those who develop, design, package, and deliver farm safety educational programs (Seiz & Downey, 2001).

We conducted a survey to determine how best to reach farmers with farm safety and health information and to determine whether farmer demographics affect preferences about and use of educational safety resources. The survey results can assist Extension staff and other educators in appropriately selecting, using, and distributing safety and health information for particular end users. Although the survey focused on farm injury prevention and farm health resources, the results may be applicable in addressing other issues with farmers.

Methodology

This article details the results from a cross-sectional study administered via a survey sent electronically and through postal mail to adult midwestern farmers. The target population was selected from the focus regions of the Central States Center for Agricultural Safety and Health (CS-CASH), a center funded by the National Institute for Occupational Safety and Health (NIOSH). Postal addresses were obtained from past program encounters. The email list was obtained from a Twitter feed of midwestern farmers and the Farm Safety for Just Kids email data bank. Several entries came from outside the Midwest. For the electronic surveys, one survey per email address was sent; for the mailed surveys, one per household was sent. The study was given a waiver of consent and exemption determination from Pearl IRB.

The survey was one part of a 5-year NIOSH-funded project that involved a variety of data collection methods comparing various farmer populations to determine what safety and health resources were needed and how best to reach different groups. In particular, the aims included identifying farmer preferences for safety and health material format, type, and length and comparing associated demographic differences. Identified educational resources were to be pilot tested and distributed to various farm audiences.

Our researcher-designed survey instrument addressed educational resource preferences among midwestern farmers. The survey was pilot tested with a small target group, and group members' suggestions were incorporated into the final survey instrument. Dillman techniques, such as including a self-addressed stamped envelope to maximize response rates, were followed (Dillman, Smyth, & Christian, 2014). The 15-question survey included demographic questions related to state of residence, gender, age, number of children in the household, farm work status (full or part time) or retirement status, percentage of income from farming, organic status, and livestock production status. Other survey questions were about preferences and perceptions related to injury prevention information delivery strategies and educational resources and addressed aspects of educational materials such as wording, visual images, presentation of injury prevention strategies, factors that encourage and discourage use of safety and health information, and preferred resource length.

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Surveys were first disseminated via postal mail (n = 366), with a low response rate, and then electronically (n = 11,507). The surveys distributed via the two types of delivery modes had the same questions and format.

Data were analyzed through the use of SPSS (IBM, Armonk, NY). Descriptive statistics were used for summarizing the characteristics of respondents and examining the distribution of responses. Responses were coded, and analysis of variance was performed. Post hoc comparisons were completed for groups with significant analysis of variance *F* values.

Results

The overall survey response rate was 1.5% (178/11,873), resulting in 178 surveys with usable data. The response rates corresponding to the different delivery modes were 11.2% (41/366) for the mailed surveys and 1.2% (137/11,507) for surveys sent electronically.

Survey respondent demographic information is shown in Table 1.

Characteristic	No. (%)
State of residence	
Iowa	32 (18.0)
Minnesota	30 (16.9)
Nebraska	27 (15.2)
North Dakota	20 (11.2)
South Dakota	20 (11.2)
Missouri	16 (9.0)
Kansas	14 (7.9)
Non-midwestern state	19 (10.7)
Gender	
Male	83 (46.6)
Female	95 (53.4)
Age range (years)	
≤35	23 (13.0) ^a
36–55	72 (40.4) ^b
≥56	83 (46.6) ^b
At least one person with off-the-farm employment	107 (60.1)

Table 1.

Survey Respondent Demographics (n = 178)

Research In Brie	f What Influences Farmers to Us	What Influences Farmers to Use Farm Safety and Health Information?						
Retired from farming		16 (9.0)						
	Full-time farmer	75 (42.1)						
	Livestock producer	117 (65.7)						
	Note. a is significantly different from b (,	<i>b</i> ≤ .03).						

Table 2 summarizes the responses from farmers regarding their preferences related to wording and images in safety and health educational resources, their perceptions about understandability of injury prevention strategies presented, and factors that encourage or discourage their use of safety and health educational resources.

Table 2.Influences on Farmers' Use of Farm Safety and Health Resources (n = 178)

			Full-time	e or part-								
	Gender ti		time f	time farmer		Retirement status		Income % from farming			Livestock farmer	
			Full-	Part-			1%–	26%-	76%-			
Factor/element	Male	Female	time	time	Yes	No	25%	75%	100%	Yes	No	
What wording sho	gning safety	and health	resources?	' (Participan	ts were ask	ked to mark	their top c	hoice.)				
Technical	2	3	2	3	1	4	2	1	1	4	1	
terms so it is	(2.4%)	(3.2%)	(2.7%)	(2.9%)	(6.3%)	(2.5%)	(8.3%)	(1.3%)	(1.3%)	(3.4%)	(1.6%)	
accurate												
General terms	43	52	40	58	6	91	11	48	37	70	27	
so it's easy to	(51.8%)	(54.7%)	(54.8%)	(55.2%)	(37.5%)	(56.2%)	(45.8%)	(60.8%)	(49.3%)	(59.8%) ^C	(44.3%) ^d	
understand												
Simple terms	38	40	31	44	9	67	11	30	37	43	33	
so even youth	(45.8%)	(42.1%)	(42.5%)	(41.9%)	(56.3%)	(41.4%)	(45.8%)	(38.0%)	(49.3%)	(36.8%)	(54.1%)	
can												
understand												
What visual image	s are best v	when desigr	ning safety	and health	resources?	(Participants	s were aske	ed to mark a	all that appl	y.)		
Photographs	38	46	37	45	8	75	7	36	40	58	26	
	(29.0%)	(32.9%)	(31.6%)	(29.2%)	(29.6%)	(30.7%)	(23.3%)	(28.3%)	(35.1%)	(33.1%)	(27.1%)	
Drawings	19	17	19	19	4	33	5	19	14	24	14	
	(14.5%)	(12.1%)	(16.2%)	(12.3%)	(14.8%)	(13.5%)	(16.7%)	(15.0%)	(12.3%)	(13.7%)	(14.6%)	
Cartoons	9	11	11	11	2	19	1	11	10	13	7	
Guitoons	(6.9%)	(7.9%)	(9.4%)	(7.1%)	(7.4%)	(7.8%)	(3.3%)	(8.7%)	(8.8%)	(7.4%)	, (7.3%)	
	(0.770)	(7.770)	(7.470)	(7.170)	(7.470)	(7.070)	(3.370)	(0.770)	(0.070)	(7.470)	(7.370)	
Combination	65	66	50	79	13	117	17	61	50	80	49	
of photos,	(49.6%)	(47.1%)	(42.7%)	(51.3%)	(48.1%)	(48.0%)	(56.7%)	(48.0%)	(43.9%)	(45.7%)	(51.0%)	
drawings, and												
cartoons												

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What visual images are best when designing safety and health resources? (Participants were asked to mark all that apply.)

Comment	- 7	50	47	70	10	107	4 -	F 4	47	0.2	24
Suggest	57	59	47	70	10	107	15	54	47	83	34
realistic	(27.9%)	(26.5%)	(28.0%)	(27.0%)	(23.3%)	(27.9%)	(25.4%)	(27.1%)	(27.8%)	(28.9%)	(26.4%)
strategies											
Suggest easy-	57	59	42	74	11	105	15	53	48	80	36
to-use	(27.9%)	(26.5%)	(25.0%)	(28.6%)	(25.6%)	(27.3%)	(25.4%)	(26.6%)	(28.4%)	(27.9%)	(25.7%)
strategies											
Directed	50	58	44	64	12	96	17	49	42	68	40
toward youth	(24.5%)	(26.0%)	(26.2%)	(24.7%)	(27.9%)	(25.0%)	(28.8%)	(24.6%)	(24.8%)	(23.7%)	(28.6%)
and children											
List protective	40	47	35	51	10	76	12	43	32	56	30
equipment	(19.6%)	(21.1%)	(20.8%)	(19.7%)	(23.3%)	(19.8%)	(20.3%)	(21.6%)	(18.9%)	(19.5%)	(21.4%)
related to	. ,			. ,	. ,	. ,		. ,	、	· · ·	. ,
activity											
-	vou to road	form cofot	wand health		or recomm	and them to	a other form	aara2 (Darti	inante wor	acked to p	oork all that
What encourages	you to read	iann salet	y anu nearri	Tresources	or recomm				sipants were		
Graphically	31	47	26	51	10	69	11	39	29	53	26
attractive	(17.7%)	(23.3%)	(18.6%)	(21.5%)	(31.3%)	(20.0%)	(23.0%)	(21.5%)	(19.6%)	(21.2%)	(20.5%)
Images similar	59	72	50	80	12	118	15	62	54	87	43
to farming	(33.7%)	(35.6%)	(35.7%)	(33.8%)	(37.5%)	(34.2%)	(31.3%)	(34.3%)	(36.5%)	(34.8%)	(33.9%)
practices											
Credible	27	26	20	34	2	51	9	25	20	37	16
author/sources	(15.4%)	(12.9%)	(14.3%)	(14.3%)	(6.3%)	(14.8%)	(18.8%)	(13.8%)	(13.5%)	(14.8%)	(12.6%)
Useful	58	57	44	72	8	107	13	55	45	73	42
prevention	(33.1%)	(28.2%)	(31.4%)	(30.4%)	(25.0%)	(31.0%)	(27.1%)	(30.4%)	(30.4%)	(29.2%)	(33.1%)
strategies											
What reasons are	most likely	to discoura	ide vou fror	n using farr	n safety an	d health res	ources? (Pa	articinants w	vere asked t	to mark all t	hat apply)
	-			-	-						
Already have	29	27	25	31	5	53	5	32	22	35	21
information	(14.5%)	(12.6%)	(14.4%)	(12.9%)	(14.3%)	(13.9%)	(7.9%)	(17.8%)	(12.8%)	(12.7%)	(15.1%)
Would not use	12	11	14	10	2	22	5	6	14	13	9
information	(6.0%)	(5.1%)	(8.0%)	(4.1%)	(5.7%)	(5.8%)	(7.9%)	(3.3%) ⁰	(8.1%) ^p	(4.7%)	(6.5%)
Too technical	54	62	45	70	13	102	16	50	50	73	40
	(27.0%)	(28.8%)	(26.0%)	(29.0%)	(37.1%)	(26.8%)	(25.4%)	(27.8%)	(29.1%)	(26.4%)	(28.8%)
Not technical	8	9	9	10	2	17	3	6	10	15	4
enough	(4.0%)	,(4.2%)	, (5.2%)	(4.1%)	2 (5.7%)	(4.5%)	(4.8%)	(3.3%)	(5.8%)	(5.4%)	4 (2.9%)
Shough	(1.570)	(1.270)	(0.270)	(,)	(0.770)	(1.570)	(1.570)	(0.070)	(0.070)	(0.170)	(2.770)
Juvenile	24	23	16	30	3	41	9	16	18	34	12
images	(12.0%)	(10.7%)	(9.2%)	(12.4%)	(8.6%)	(10.8%)	(14.3%)	(8.9%)	(10.5%)	(12.3%)	(8.6%)
Offensive	24	35	22	37	4	55	9	29	20	41	20

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images	(12.0%)	(16.3%)	(12.6%)	(15.4%)	(11.4%)	(14.5%)	(14.3%)	(16.1%)	(11.6%)	(14.9%)	(14.4%)
Juvenile	23	14	16	20	2	34	6	13	17	27	11
terminology	(11.5%)	(6.5%)	(9.2%)	(8.3%)	(5.7%)	(8.9%)	(9.5%)	(7.2%)	(9.9%)	(9.8%)	(7.9%)
Offensive	26	34	27	33	4	56	10	28	21	38	22
terminology	(13.0%)	(15.8%)	(15.5%)	(13.7%)	(11.4%)	(14.7%)	(15.9%)	(15.6%)	(12.2%)	(13.8%)	(15.8%)
<i>Note. a</i> is significantly different from <i>b</i> ($p < .001$); <i>c</i> is significantly different from <i>d</i> ($p = .03$); <i>e</i> is significantly different from <i>f</i> , <i>g</i> ($p \le .001$); significantly different from <i>e</i> , <i>f</i> , <i>g</i> ($p \le .01$); <i>i</i> is significantly different from <i>j</i> ($p = .02$); <i>k</i> is significantly different from <i>I</i> , <i>m</i> , <i>n</i> ($p \le .01$); <i>l</i> is significantly different from <i>f</i> , <i>g</i> ($p \le .01$); <i>l</i> is significantly different from <i>f</i> .											

different from p, r, g ($p \le .01$); r is significantly different from n (p < .001); r is significantly different from p (p = .01); q is significantly different from p (p = .01); q is significantly different from p (p = .01); q is significantly different from v, w, x, y, z (p < .001); r is significantly different from u, w, x, y, z ($p \le .04$); u is significantly different from v, w, x, y, z (p < .001); r is significantly different from w, x, y, z (p < .001); r is significantly different from w, x, y, z (p < .001); r is significantly different from w, x, y, z (p < .001); r is significantly different from w (p = .01).

Table 2 indicates that very few significant differences were found when the demographic categories were compared for preferences or perceptions related to wording, images, understandability of strategies presented, and reasons for using or not using educational materials. Among others, the following statistically significant differences were found:

- Livestock farmers were significantly more likely to want materials that were produced using general terms as compared to those who were not livestock farmers.
- Farmers who received 76%–100% of their incomes from farming were more likely not to use information from the educational resources as compared to farmers who received 26%–75% of their incomes from farming.

A number of significant differences were observed when the aggregate (all group) data were analyzed by individual question. When farmers were asked about using farm safety and health educational resources, they expressed the following preferences and perceptions:

- Materials that contained general or simple terminology were preferred over those that contained technical terms.
- Photographs or a combination of photos, drawings, and cartoons were preferred visual images.
- Materials suggesting realistic, easy-to-use strategies and materials directed at youths and children were preferred over materials listing appropriate protective equipment.
- Images depicting familiar farming practices and useful prevention strategies encourage use of resources.
- Content that is too technical, information farmers have received previously, offensive images, and offensive terminology discourage use of resources.

Table 3 shows preferences regarding the lengths of educational materials.

Table 3.

Farmer Preferences Regarding Lengths of Farm Safety and Health Resources

Length of resource	No. (%)
Fact sheet	
1 page or less	117 (65.7%) ^a
1–2 pages	54 (30.3%) ^b
3-4 pages	5 (2.8%) ^c
5 pages or more	2 (1.1%) ^c
Written article or publication	
1 page or less	75 (42.1%) ^d
1–2 pages	83 (46.6%) ^d
3-4 pages	14 (7.9%) ^e
5 pages or more	6 (3.4%) ^e
Videos	
Less than 5 min	85 (47.7%) ^f
Less than 10 min	74 (41.6%) ^f
Any length	19 (10.7%) ^g

Note. a is significantly different from *b* (p = .01); *a* and *b* are significantly different from *c* ($p \le .001$); *d* is significantly different from *e* ($p \le .01$); *f* is significantly different from *g* ($p \le .02$).

Table 3 indicates the following preferences related to lengths of educational materials:

- One-page fact sheets were preferred, although two-page fact sheets were also acceptable.
- One- to two-page articles and publications were preferred.
- Videos lasting less than 5 or 10 min were preferred.

Discussion/Recommendations

Our mixed-collection-method study of primarily midwestern farmers yielded a response rate of 11.2% for mailed surveys and 1.2% for emailed surveys. Response rates from electronic surveys are typically quite low as a result of survey fatigue caused by competitive uses of the Internet, possible low interest in a topic, and technology knowledge levels of the recipients (Couper, 2000; Dillman et al., 2014; Petchenik & Watermolen, 2011). Although the overall response rate for our survey was low, results were beneficial in meeting the goal of determining ways to reach farmers in general.

The data indicated that images in resources are better accepted if they portray farming practices typical of a

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region and useful prevention strategies. This finding is corroborated by results of a study examining the effectiveness of education directed at a medical intervention, which suggested that the most effective visual images are designed in collaboration with the target population and take into consideration the audience's literacy skills and culture (Dowse, Ramela, Barford, & Browne, 2010). A surprising finding in our study was that few farmers were concerned with the credibility of the author of educational resources, indicating that the characteristics of the message were more important than the authority of the messager.

The results clearly indicated respondents' preference for nontechnical farm safety and health resources. This is a salient point for safety and health professionals to consider as they produce educational materials. Literacy levels and educationally appropriate communication schemes should be considered when producing materials for a wide range of recipients. A fifth- to sixth-grade reading comprehension level is recommended for health-care patient education materials (Cotugna, Vickery, & Carpenter-Haefele, 2005). Testing to ensure that materials are produced at appropriate comprehension levels for the majority of recipients will result in the greatest usage and acceptance.

Pictures can markedly increase attention paid to health education information, and emotional responses to the pictures affect whether targeted health behavior is increased or decreased (Houts, Doak, Doak, & Loscalzo, 2006). Communicating health literacy information, which has become an important mission, must involve including meaningful visuals and clear actionable messages (Niebaum, Cunningham-Sabo, & Bellows, 2015). One survey question asked about elements or factors that discouraged respondents from using farm safety and health resources. Response options included "offensive images" and "offensive terminology." "Offensive images" referred to negative depictions or stereotypical images. "Offensive terminology" referred to wording that was demeaning or condescending. Effective delivery of safety and health information can require a delicate balance of producing a message that will resonate with the intended audience and not offend any segment of that audience. Additional pilot testing of materials with a target audience could alleviate some of the concern about what is or is not offensive messaging.

Nearly a third of survey respondents indicated that they already had the farm safety and health information they needed. Given this finding, highlighting new concepts and emerging issues may be one way to encourage farmers to use a resource.

Understanding the likes and dislikes of farmers will assist Extension personnel and other injury prevention professionals by increasing their effectiveness in reaching intended farmer audiences. Results from our survey clearly indicated that farmers prefer to receive short and concise written resources and videos. These are important factors to consider when developing educational resources for farmers.

Conclusion

Farmers' opinions related to reading and using farm safety and health resources should be taken into account when producing educational materials. Ways of motivating farmers to use educational resources include using images that closely resemble a target group's farming practices, avoiding terminology that is overly technical, and keeping resources short and concise. Such strategies may work with varied farmer populations as we found few significant differences associated with respondents' preferences when we examined the demographic characteristics of gender, part-time/full-time farmer status, retirement status, percentage of income from farming, and having livestock as a commodity.

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