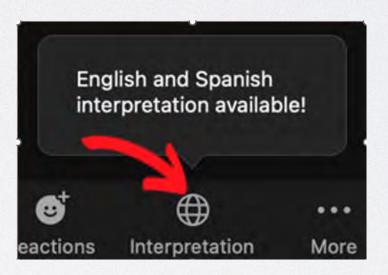


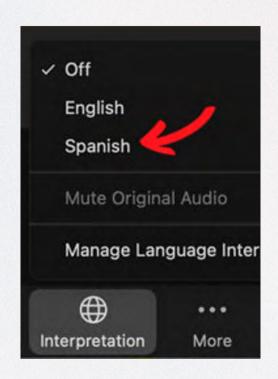
Use of simultaneous interpretation in Zoom

If you want to listen to the presentation in Spanish...

1) Locate the Interpretation Globe icon

2) Click the Interpretation Globe and select "Spanish"





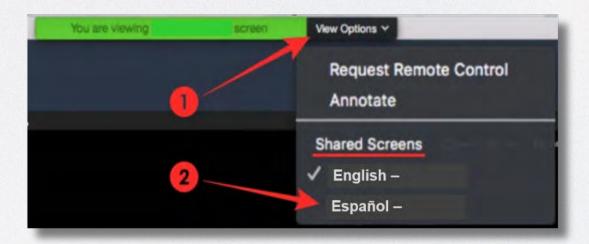
If you want to listen to the presentation in Spanish from a smartphone...

- 1. Touch the three dots that say "More"
- 1.Select "Language Interpretation"
- 1.Select "Spanish"

Selecting your viewing language in Zoom

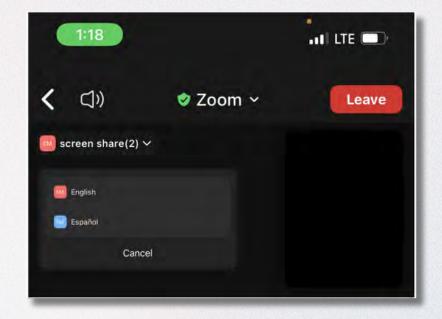
If you want to view the Spanish-language presentation...

- 1) At the top of the screen click on "View Options"
- 2) A dropdown menu will appear
- 3) Select "Español"



If you want to view the Spanish-language presentation from a smartphone...

- 1. Toch the screen to make the options appear
- 2. Touch the three dots that say "More"
- 3. Select "Language Interpretation"
- 4. Select "Español"
- 5. Touch "Done"



Continuing Education



Migrant Clinicians Network is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.



The AAFP has reviewed Culture is key! Prevention of Farmworker Pesticide-Related Illness Using Cultural Contextual Education and deemed it acceptable for up to 1.00 Live AAFP Prescribed credit(s). Term of Approval is from 12/05/2024 to 12/05/2024 Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants completing this educational activity (80% time in session) and completion of the post session evaluation will be awarded 1 Contact hour.

Disclosure of relevant financial relationships

We have no relevant financial relationships that relate to this presentation, nor do we have any relevant financial relationships with ineligible companies whose primary business is producing, marketing, selling, reselling, or distributing healthcare products used by or on patients.

This presentation was supported by an independent medical education grant by University of Illinois - Chicago. No relevant financial relationships were identified for any individuals with the ability to control content of the activity.



Objectives

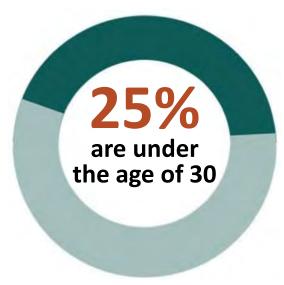
- Describe challenges farmworkers encounter in protecting themselves from pesticide exposure
- Explain appropriate messaging approaches for patients to prevent pesticide exposure at work
- Find training materials and messaging tools for patients on prevention of pesticide exposure



Agricultural Worker Demographics 1,2,3

2.5 million
estimated popluation 2,3





- 1. National Agricultural Workers Survey (NAWS) 2019-2020, https://www.dol.gov/sites/dolgov/files/ETA/naws/pdfs/NAWS%20Research%20Report%2016.pdf
- 2. Kandel W. Profile of Hired Farmworkers, A 2008 Update. Economic Research Service, US Department of Agriculture; Washington, DC; 2008. Economic Research Report No. 60.
- 3. Martin P. Immigration reform: implications for agriculture University of California, Giannini Foundation. Agricultural and Resource Economics Update. 2006;9(4)

Agricultural Worker Demographics 1

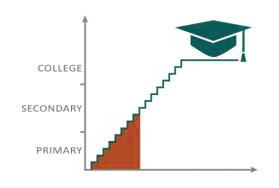




70% foreign born



Agricultural Worker Demographics 1



Foreign born workers, on average, have an 9th grade education



Mean and median individual income range from \$20,000 to \$24,999



20% of agricultural worker families had total family incomes below 100% of the Federal Poverty Level

52% reported not having health insurance

29% had not visited a U.S. healthcare provider in last 2 years







- Inform
- Protect
- Mitigate





Pesticide Safety Training

Content

Health effects of pesticides

How to reduce exposures at work and prevent take-home exposures

Location of detailed information about pesticides recently applied

How to follow directions and/or signs about keeping out of pesticide-treated areas

Decontamination procedures and emergency medical assistance

How to report violations to state enforcement agencies

Anti-retaliation protections



This address is:

6750 Eldorado Road Federalsburg, MD 21632

Nearest intersection:

Bailey Store Road and Eldorado Road

Nearest Hospital:

Nanticoke Memorial Hospital 801 Middleford Road Seaford, DE 19973 302-629-6611

DANGER PELIGRO PESTICIDES PESTICIDAS



KEEP OUT NO ENTRE

THIS PROPERTY TREATED WITH

DATE TREATED

WARNING STAY OUT UNTIL





Notification



Pesticide safety information

Protect Yourself from **Pesticides**



IN AN EMERGENCY:

Get medical help nearby.	•
Address:	
Phone number:	
	_

If you need an ambulance,	
tell them where you are.	

entry need.		
		_
Facility location:		

f you have questions or	-
concerns, call the pesticide	
regulatory agency.	1

_	
Address:	

FOR MEDICAL TREATMENT INFORMATION, 1-800-222-1222







Avoid getting pesticides on your skin or in your body. Pesticides can be in many places. They can be on plants, in plants, in soil, and in irrigation water. Pesticides can drift in the air from nearby applications. They can also be on tractors and other

equipment. Pesticides can also be found on used

goggles, gloves, boots, and other personal



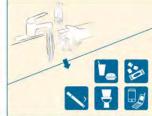




Protect your body from pesticide residue. Wear long- sleeved shirts and long pants when working. Also, wear shoes, socks, and a hat or scarf.



Stay out of treated areas when told, and whenever you see signs like this displayed. When you see a pesticide application taking place, stay back. Applicators must suspend their work if you get too close.



Wash your hands before you eat, drink, or chew gum. Also, wash before smoking, using the toilet, or using your phone.



Wash your body and hair with soap or shampoo right after work; then put on clean clothes.



When pesticides are spilled or sprayed on your body, wash immediately. Water, soap, and towels must be provided nearby. Use the nearest clean water, including springs, streams, and lakes, if they are closer to you. After that, wash your body and hair with soap or shampoo as soon as possible. Put on clean clothes.



Wash your work clothes before wearing them again. Wash them separately from other clothes.



Get medical help as soon as possible if you think pesticides caused an injury or illness.



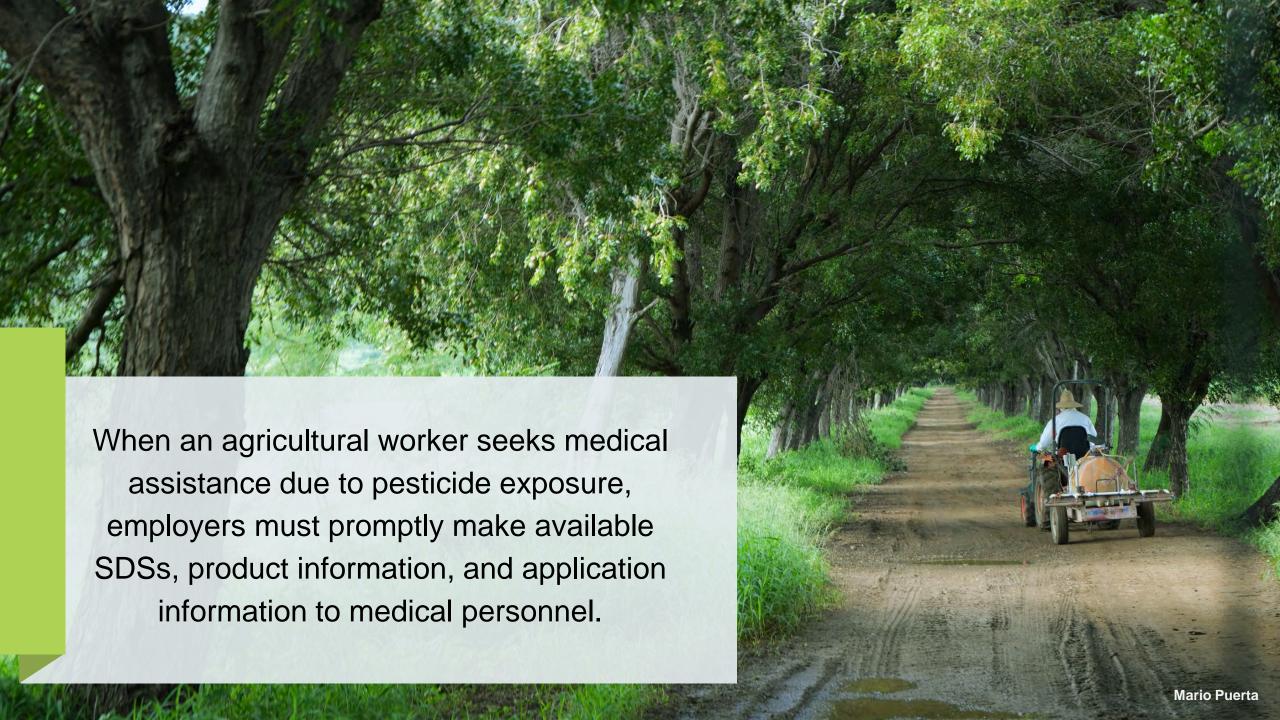
Emergency assistance

N AN EMERGENCY:		
Get medical help nearby.		
Address:		
Phone number:		
If you need an ambulance, tell them where you are.		
Facility name:		
Facility location:		
If you have questions or concerns, call the pesticide regulatory agency. Name of state/tribal pesticide regulatory agency:		
Address:		
Phone number:		



Workers may designate another individual to access information about the pesticides used in their worksites.



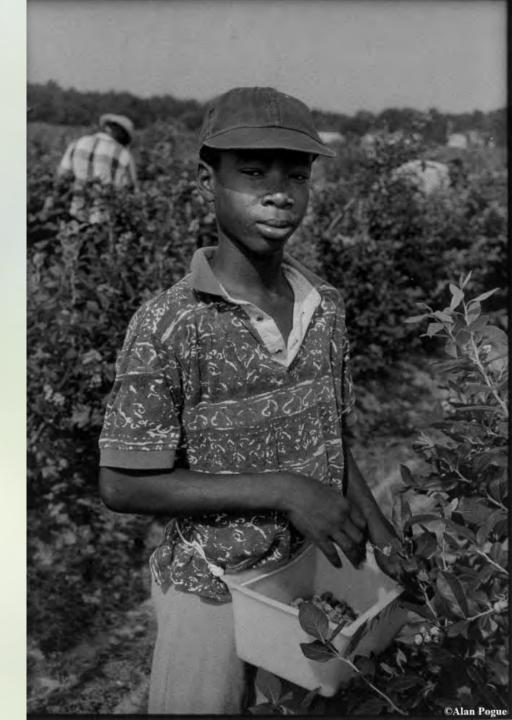






Minimum Age

- Pesticide handlers and early-entry workers (entering during REI) must be at least 18 years old
- Members of owner's immediate family are exempt from this requirement





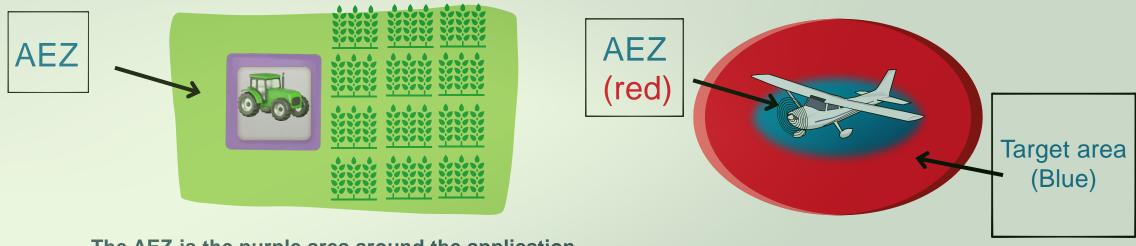


Application Exclusion Zone or AEZ

A small (25-100-foot) area around the pesticide application equipment where no one is permitted to be during a pesticide application. If an applicator sees a non-trained and unprotected person within this zone, they must suspend the application immediately and resume after the person leaves the area.



The AEZ moves with the application equipment like a halo around the application equipment. As the application equipment moves, new areas around the application become part of the AEZ, and areas that were in the AEZ cease to be within the AEZ once the application equipment has moved on.



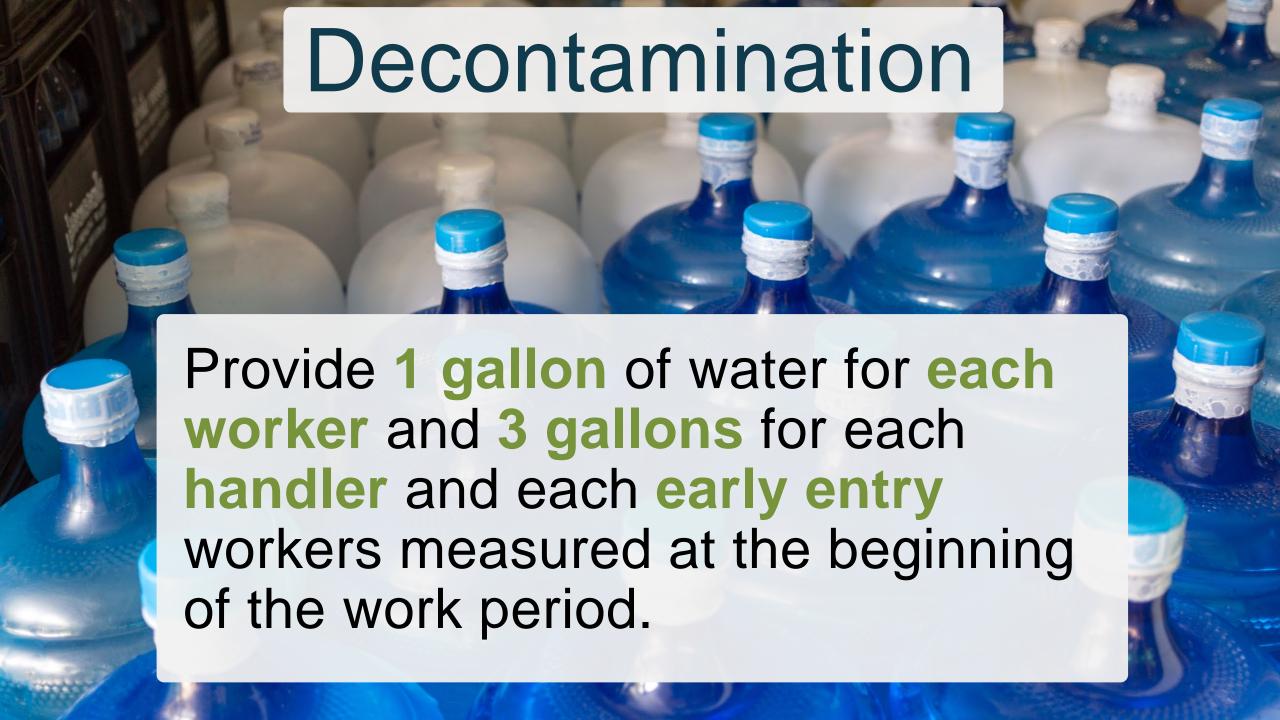
The AEZ is the purple area around the application equipment. It moves with the application equipment as it proceeds





Mitigate















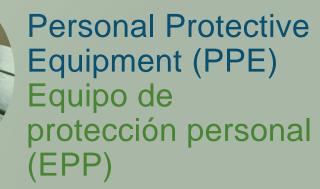
Requires employers to promptly provide the product's Safety Data Sheet (SDS), product information (name, EPA Reg No and active ingredient), as well as the circumstances of the exposure to treating medical personnel

MCN approach Enfoque de MCN

What workers need to protect themselves?

¿Qué necesitan los trabajadores para protegerse?





Know your rights Conocimiento de los derechos

Community resources Recursos de la comunidad



What does this mean for healthcare providers and materials?

¿Qué significa esto para los proveedores de servicios de salud y los materiales? Create culturally appropriate educational materials for workers that consider...

Crear materiales educativos culturalmente apropiados para los trabajadores que consideren...





Language

- An entry point
- Customs and traditions
- Values and anti-values
- Social conditions
- Power dynamics

Lenguaje

- •Una puerta de entrada
- Costumbres y tradiciones
- Valores y antivaloresCondiciones sociales
- •Dinámicas de poder

Literacy - Alfabetización



Health Literacy Alfabetización en salud

Spoken communication

Comunicación verbal

Numbers and math

Números y matemáticas

Written communication

Comunicación escrita

Using health information

Usar la información de salud

Navigating the health system

Navegación del sistema de salud

Whose literacy? ¿De quién?

Yours or theirs? ¿Suya o de ellos?

Health Literacy Alfabetización en salud



The degree to which individuals can find, understand, and use information and services to inform health-related decisions and actions for themselves and others.

Organizational Health Literacy

The degree to which organizations equitably enable individuals to find, understand, and use information and services to inform health-related decisions and actions for themselves and others.

Popular education

A single way of presenting the message, concept, DOES NOT WORK for everyone





Take advantage of CHW's role in promoting and improving health equity

- Customize health education to incorporate culture, values and beliefs systems
- Build networks and coalitions that empower disadvantaged communities

Health promotion strategies

CHW fundamental role in public health

Language justice

Health equity

Popular education

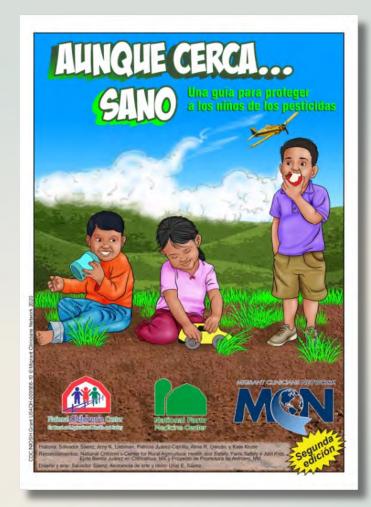
 Community participation/mobilization

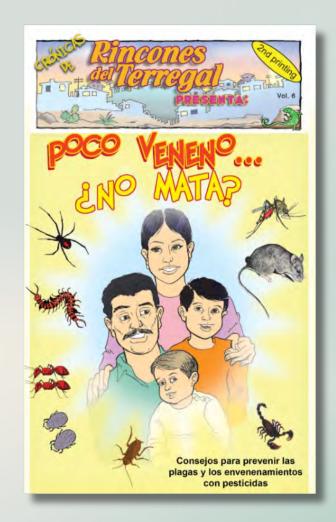


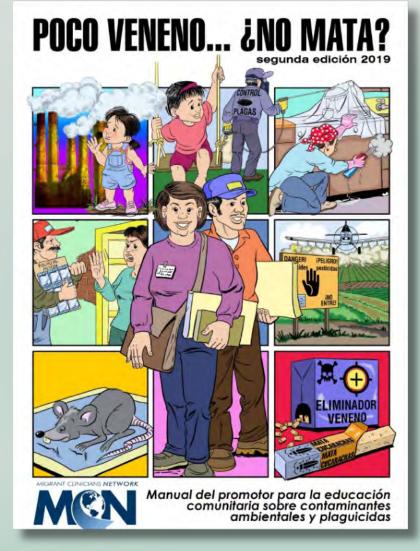




MCN Work







Aunque Cerca... Sano

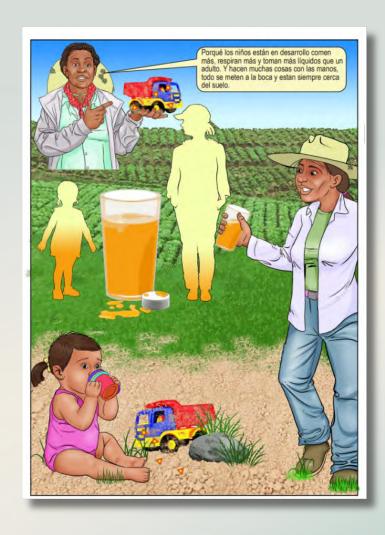


...la exposición a pesticidas tiene mucho que ver con cánceres infantiles como leucemia y problemas de aprendizaje.

Connect with their reality



and what they value...

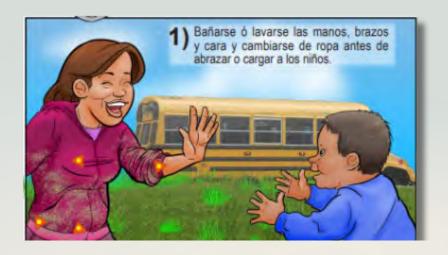




Present practical solutions



Simple and clear





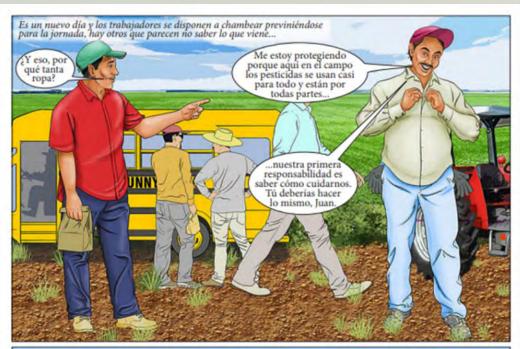




Estandar de protección del trabajador agrícola

Worker Protection Standard











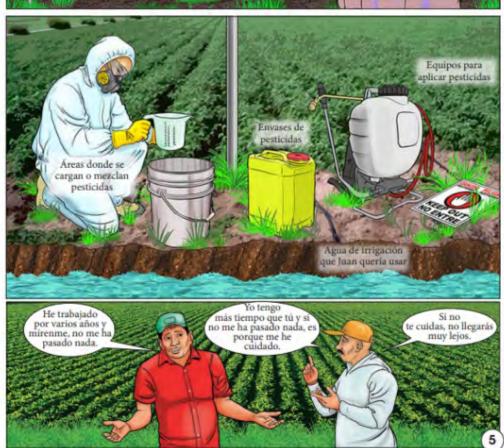






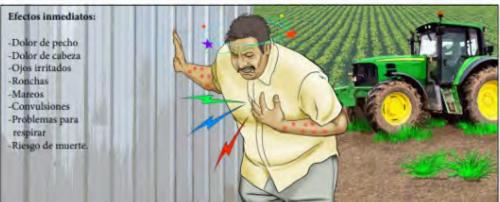




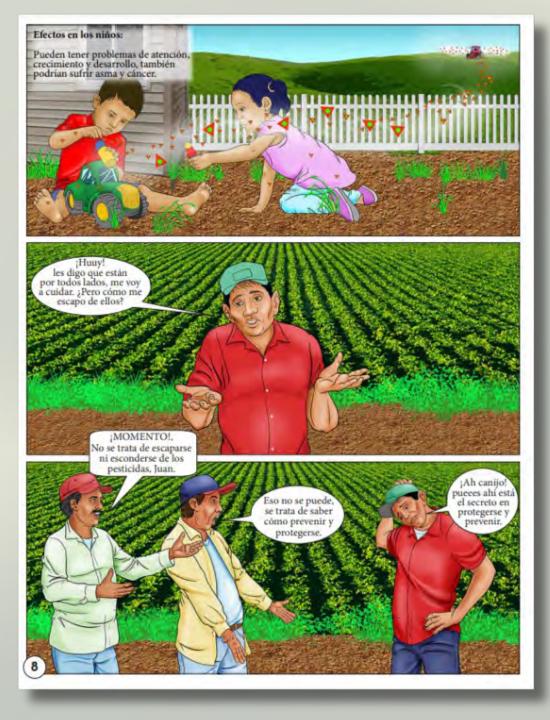


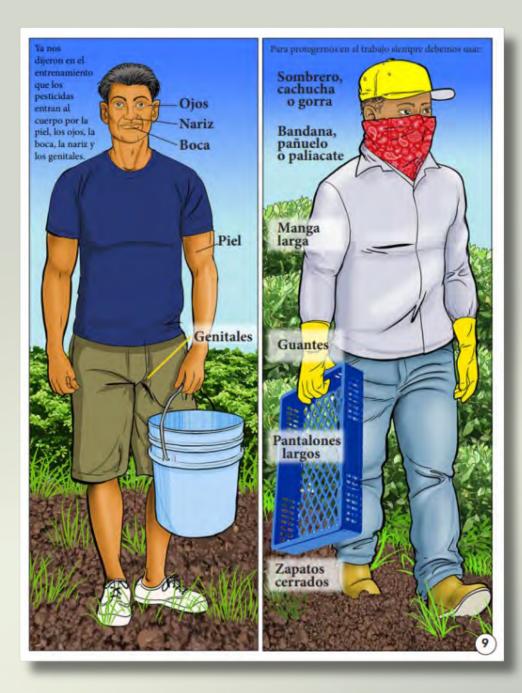
















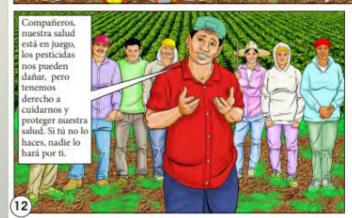
















Agricultural Worker Pesticide
Safety Training

Facilitator Guide



Estándar para la Protección del Trabajador (WPS)





Worker Protection Standard Pesticide Safety Training Curriculum and Resources











Worker Protection Standard Pesticide Safety Training Curriculum - Culturally and linguistically appropriate ourriculum with supporting resources for training workers on the revised Worker Protection Standard. Developed by the Florida State University PISCA Project and Migrant Clinicians Network.

Download Resource

WPS PesticidasEnglishFINAL4 2021Website.pptx (33.52 MB)

WPS PesticidasSpanishFINAL4 2021 Website.ppb: (19.67 MB)

WPS Pesticide - Flip Chart (8.32 MB)

WPS Pesticide - Facilitator Guide (English) (2.03 MB)

WPS Pesticide - Facilitator Guide (Spanish) (1.99 MB)

Comic Book - Juan Abre los Ojos cómo protegerse de los pesticidas (7.25 MB)

Categories Environmental and Occupational Health Pesticides Promotoras

Subscription Interest Environmental/Occupational Health

Related Resources





Darle un Buen Uso a los Pesticidas

A Spanish language trifold with pesticide safety.



OSHA's Campaign to Prevent Heat Illness in Outdoor Workers

HEAT ILLNESS CAN BE DEADLY. Every year, flousands of workers become sick from exposure to heat, and some even die. These Illnesses and deaths are.



Pesticide Educational Materials for Promotoras - Wake Forest University

http://www.svfubmc.edu/Research/Family-Medicine/Pesticide-Promotora.htmPesticide educational materials for promotores and the community. Includes...



Heat Stress Fotonovela

Photonovelas in English and Spanish. Produced by the North Carolina Farmworker Project.



Influenza in Workers and Pigs

OSHA facts sheet and guidance for commercial sine farmers and park producers. Billingual "quick card" to assist with worker protection. ...



Promising practices

- Recognize the process
- Take the time to get to know the language and value system
- Culturally appropriate materials
- Build individual, community and institutional literacy
- Community Health Workers as a public health strategy
- Partner with CBOs and communities themselves
- Hyperlocal campaigns



Developing farmworker-informed infographics

Maggie Acosta Director of Outreach



QUE SON LOS RESIDUOS DE PESTICIDAS?



Pesticidas son químicos que son venenosos a las personas. Muchas pesticidas son invisibles.



Tocando las plantas se puede contaminar las manos.



Algunos trabajadores ponen pesticidas a las plantas. Ellos necesitan protección especial.



Si no se lava bien las manos, los químicos pueden afectar sus ojos, piel y boca.



El residuo de pesticida es lo que queda en la planta o en el suelo después de la fumigación.



Caminando en la tierra también les puede contaminar los zapatos.



Todos los que trabajan con plantas tienen riesgo de contaminación.



Los zapatos pueden contaminar la casa y los que viven adentro.

Great Lakes Center for Farmworker Health and Wellbeing

1 of 12 Centers for Agricultural Health funded by the National Institute for Occupational Safety and Health (NIOSH)





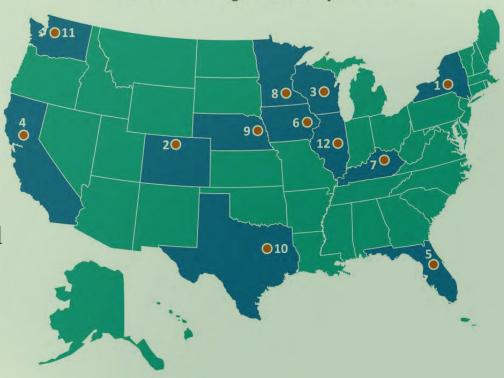












- Northeast Center for Occupational Health and Safety (Bassett Healthcare Network)
- High Plains Intermountain Center for Agricultural Health and Safety (Colorado State University)
- National Children's Center for Rural and Agricultural Health and Safety (National Farm Medicine Center)
- Western Center for Agricultural Health and Safety (University of California, Davis)
- Southeastern Coastal Center for Agricultural Health and Safety (University of Florida)
- 6. Great Plains Center for Agricultural Health (University of Iowa)
- 7. Southeast Center for Agricultural Health and Injury Prevention (University of Kentucky)

- 8. Upper Midwest Agricultural Safety and Health Center (University of Minnesota)
- Central States Center for Agricultural Safety and Health (University of Nebraska Medical Center)
- Southwest Center for Agricultural Health, Injury Prevention and Education (University of Texas Health Science Center at Houston)
- Pacific Northwest Agricultural Safety and Health Center (University of Washington)
- Great Lakes Center for Farmworker Health and Well-being (University of Illinois Chicago)

Our Approach to Community Engagement

Increasing Level of Community Involvement, Impact, Trust, and Communication Flow

Outreach

Some Community Involvement

Communication flows from one to the other, to inform

Provides community with information.

Entities coexist.

Outcomes: Optimally, establishes communication channels and channels for outreach.

Consult

More Community Involvement

Communication flows to the community and then back, answer seeking

Gets information or feedback from the community.

Entities share information.

Outcomes: Develops connections.

Involve

Better Community Involvement

Communication flows both ways, participatory form of communication

Involves more participation with community on issues.

Entities cooperate with each other.

Outcomes: Visibility of partnership established with increased cooperation.

Collaborate

Community Involvement

Communication flow is bidirectional

Forms partnerships with community on each aspect of project from development to solution.

Entities form bidirectional communication channels.

Outcomes: Partnership building, trust building.

Shared Leadership

Strong Bidirectional Relationship

Final decision making is at community level.

Entities have formed strong partnership structures.

Outcomes: Broader health outcomes affecting broader community. Strong bidirectional trust built.

Reference: Modified by the authors from the International Association for Public Participation.

Figure 1.1. Community Engagement Continuum

Tailoring resources to farmworkers (FWs)

- Necessary to tailor materials
 - Literacy levels vary
 - Languages: Spanish, French, Indigenous dialects, more
- Yet only up to 42% of materials are developed specifically for FWs, even within agricultural and FW-focused organizations (Harwell et al, 2023)

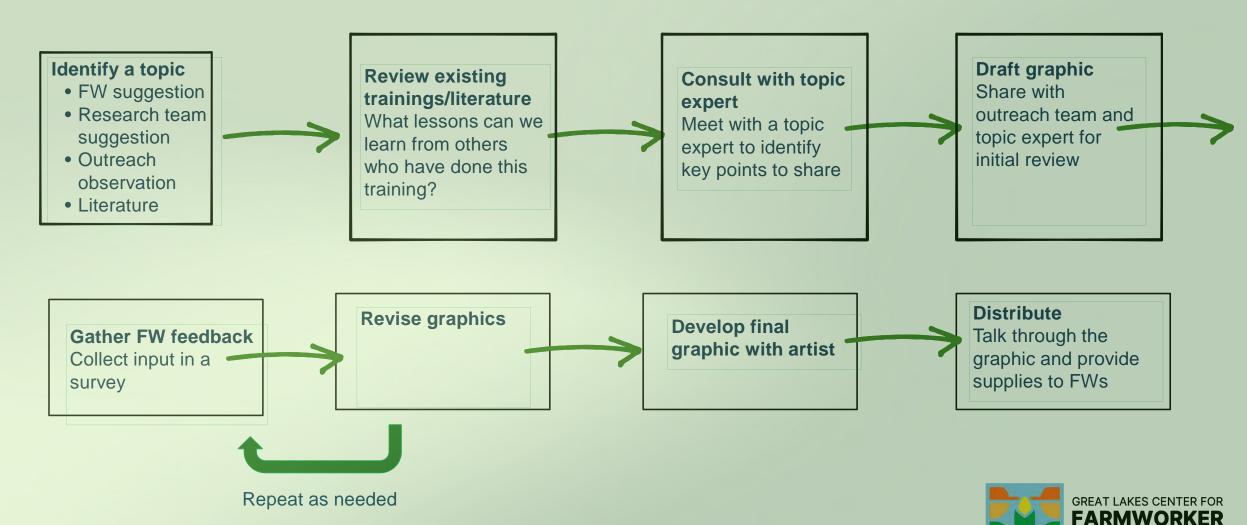


Infographic on highly hazardous pesticides. Strategic Approach to International Chemical Management. UN Environment Program.



Process for developing and testing graphics

We develop graphic-based trainings to communicate information to FWs.



HEALTH AND WELLBEING

Version 1 Jan 2024



Feedback:

- Keep pesticide color consistent
- Add prevention recommendations



Version 2 April 2024

Feedback:

 Change pesticide color to orange to indicate toxicity

Use green check marks

Version 3- July 2024

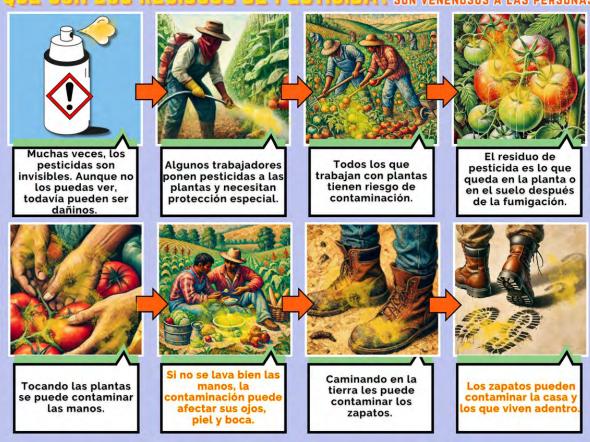




Many
workers use
trash bags
for laundry
and
reported
difficulty
separating
clothes.

Final product

QUE SON LOS RESIDUOS DE PESTICIDA? PESTICIDAS SON QUÍMICOS QUE



127 farmworkers gave input to develop this graphic

- Images of daily life used to convey health information
- Familiar art style
- Text is complementary, but not the focal point



Also provide laundry bags to workers

Final product

COMO PREVENIR LA CONTAMINACION DE PESTICIDAS



Quítese el guante agarrándolo desde adentro para no tocar con su mano expuesta.



Deje sus zapatos de trabajo afuera de la casa o en un solo cuarto.



Lave sus manos frecuentemente y báñese tan pronto al regresar a su casa.



Lave su ropa de trabajo separado de su otra ropa.

127 farmworkers gave input to develop this graphic

- Images of daily life used to convey health information
- Familiar art style
- Text is complementary, but not the focal point



Also provide laundry bags to workers

Benefits of collaborating with workers



Improves Comprehension

- Conducted post-assessment with 33 workers
 - Could explain what pesticide residue is
 - Recognized that any farmworker can be at risk of poisoning
 - Could name at least 2 ways to prevent poisoning



Facilitates Dialogue

• Allows outreach staff to understand the working and living conditions of workers and to discuss ways they can practice prevention



Enhances outreach

- Builds relationships so that FWs are more comfortable in asking for additional resources
- Increases workers' interest in collaborating with us

Thank you! Connect with us

- NIOSH Center for Agricultural Safety & Health
- Based at the University of Illinois Chicago
- Comprised of partner organizations across Illinois



farmworkerhealth.uic.edu



linktr.ee/glcfhw



farmworkerhealth@uic.edu





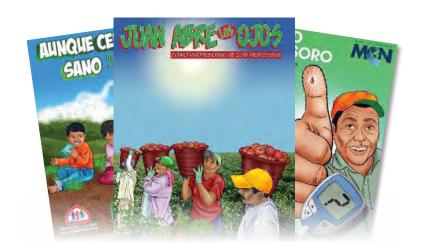








Connect with MCN!



Access our latest resources



Get updates from the field



Attend our virtual

and a lot more at

www.migrantclinician.









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What has been the most useful?

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https://greatnonprofits.org/reviews/write/m igrant-clinicians-network-inc



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Please take a few minutes to submit the evaluation for this webinar. If you would like to receive a Certificate of Attendance, Continuing Nursing Education, or Continuing Medical Education, submission of the evaluation is required.

