Pesticides and English/Spanish pesticide Labels

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Workplace Specialist

PACIFIC NORTHWEST AGRICULTURAL
SAFETY AND HEALTH CENTER
farming • fishing • forestry

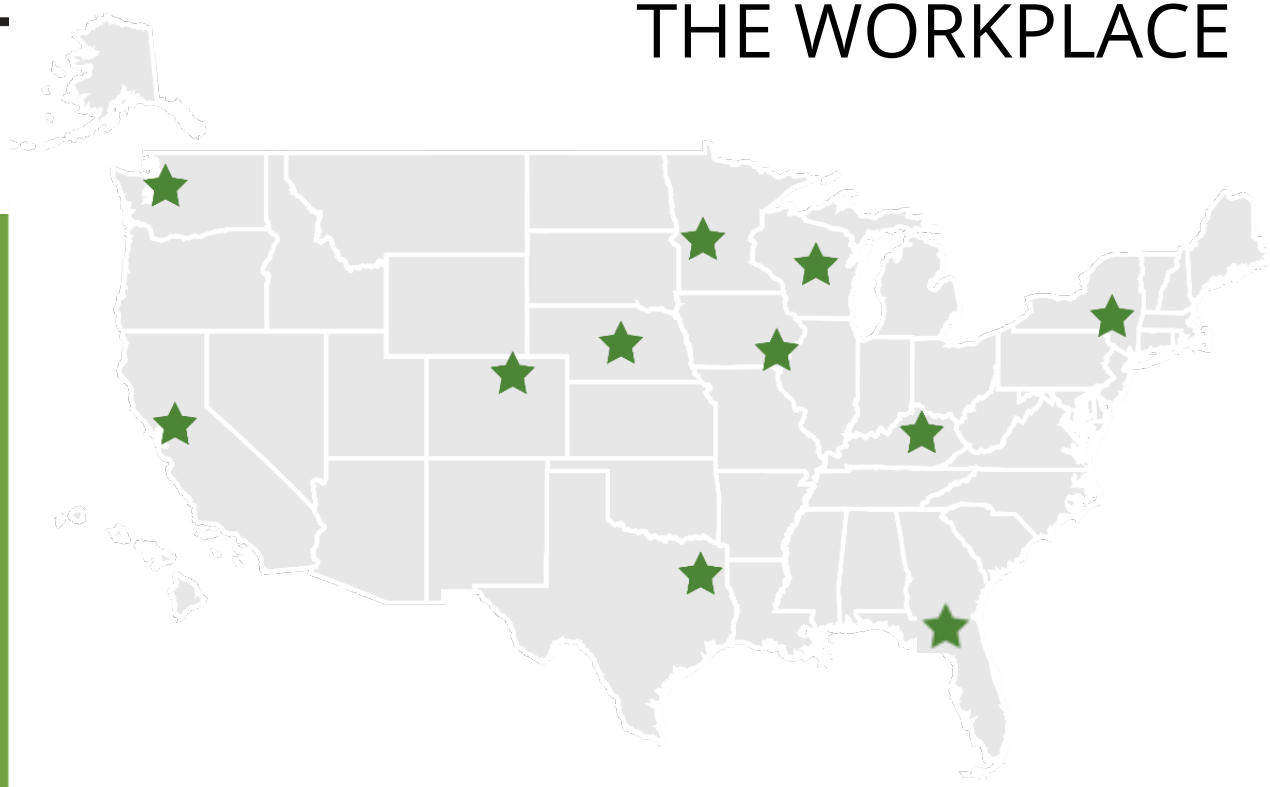
PACIFIC NORTHWEST AGRICULTURAL SAFETY AND HEALTH CENTER

farming • fishing • forestry

PROMOTING **SAFE WORKPLACES**

PARTNERING WITH WORKERS, EMPLOYERS, AND COMMUNITIES

TRANSFERRING **SOLUTIONS** TO THE WORKPLACE



In This Session

Photo by Latinos Northwest Communication
Zirkle Fruit Company, Selah, WA

- Protect yourself from exposure to pesticides
- Possible exposure pathways and potential health effects
- The pesticide label
- PNASH's English/Spanish pesticide apps
- EPA English/Spanish pesticide labels requirement

What are pesticides?

---EPA---

Pesticide law defines a “pesticide” (with certain minor exceptions) as:

- Any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any PEST.

- Any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant.

- **Term** "pesticide" refers to <u>all</u> substances used to control pests:
  - Insecticides
  - Herbicides
  - Rodenticides
  - Fungicides
  - Disinfectants
  - Attractants
  - Etc.

Definitions

Exposure:
Occurs when pesticides get on or into body through the skin, lung, mouth, or eyes.

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Possibility or probability of harm to occur from the combination of product toxicity and the exposure level.

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Possibility or probability of harm to occur from the combination of product toxicity and the exposure level.

Toxicity:
Capacity of the pesticides to cause either short-term or long-term injury or illness.

How do pesticides enter the body?

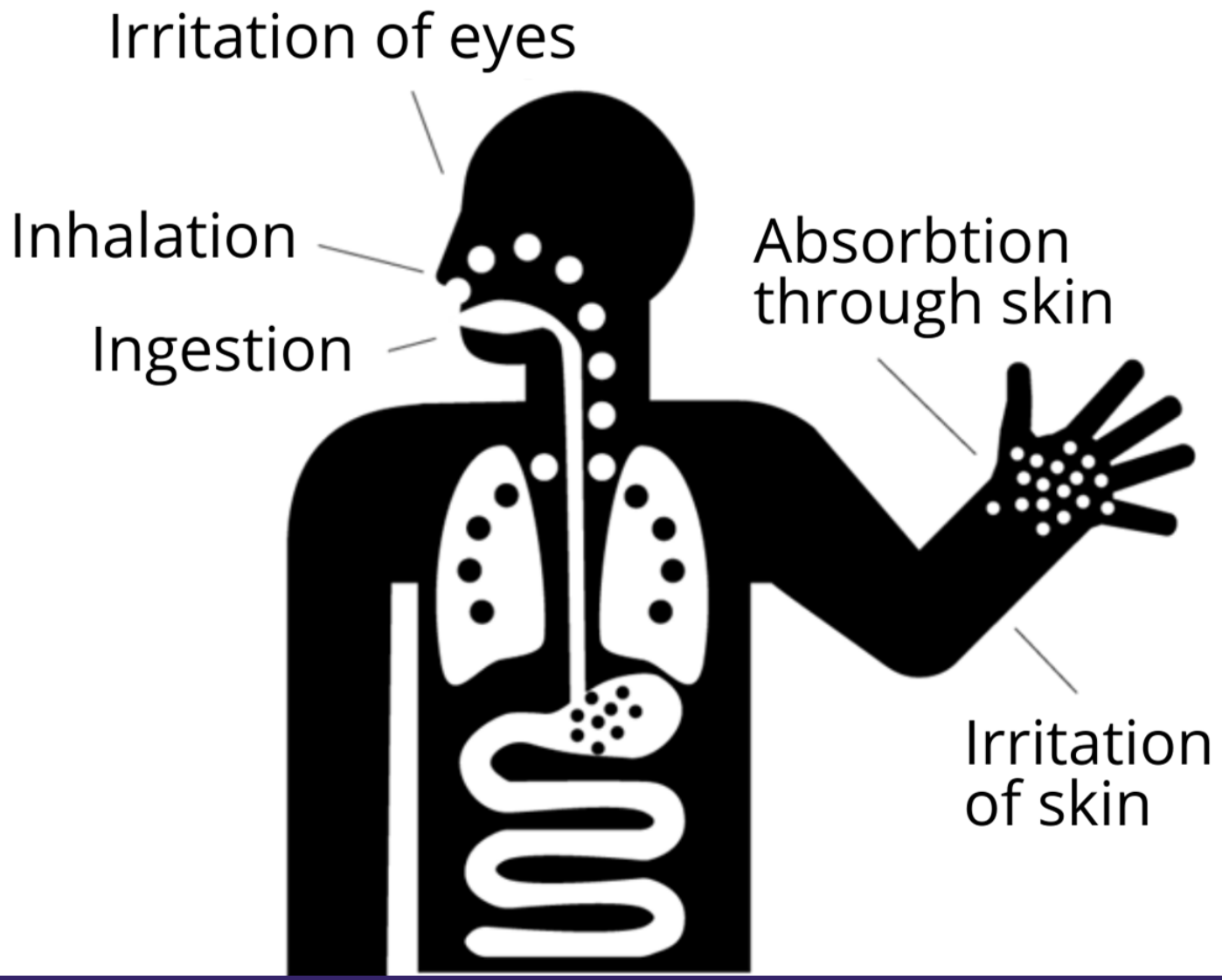
1. Oral

- Not washing hands before eating and drinking.
- Mistaking pesticides for food or drink, a person could accidentally apply pesticides to food.
- Cross contamination on a water bottle
- Accidentally drinking a mislabeled or unlabeled container.

2. Inhalation

3. Eyes

4. Skin



How do pesticides enter the body?

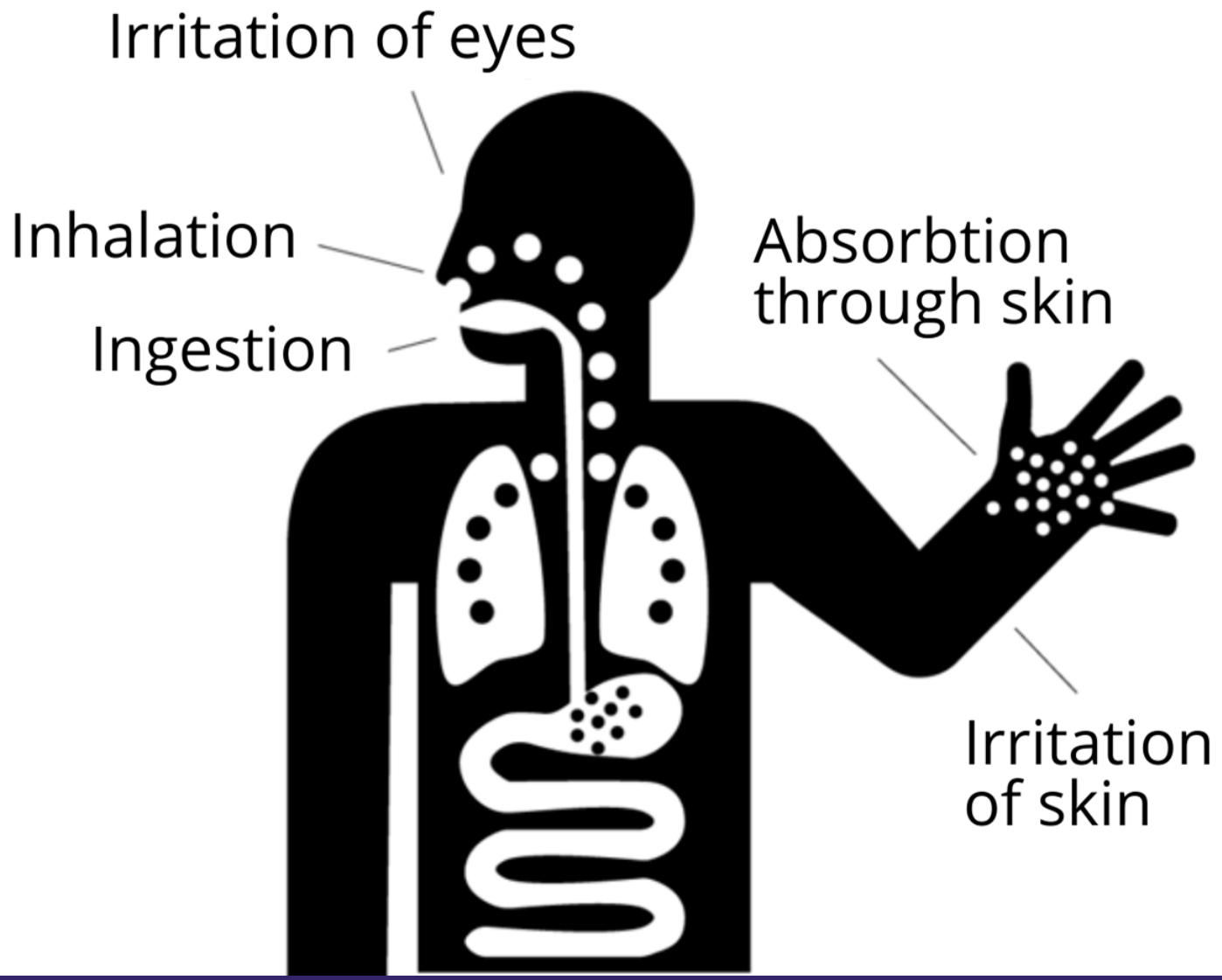
1. Oral

2. Inhalation

- Breathing fume, dust, or mist during applications.
- May occur during an application without protective equipment or a bad seal on your respirator.
- Re-entering a recently sprayed area too soon.

3. Eyes

4. Skin



How do pesticides enter the body?

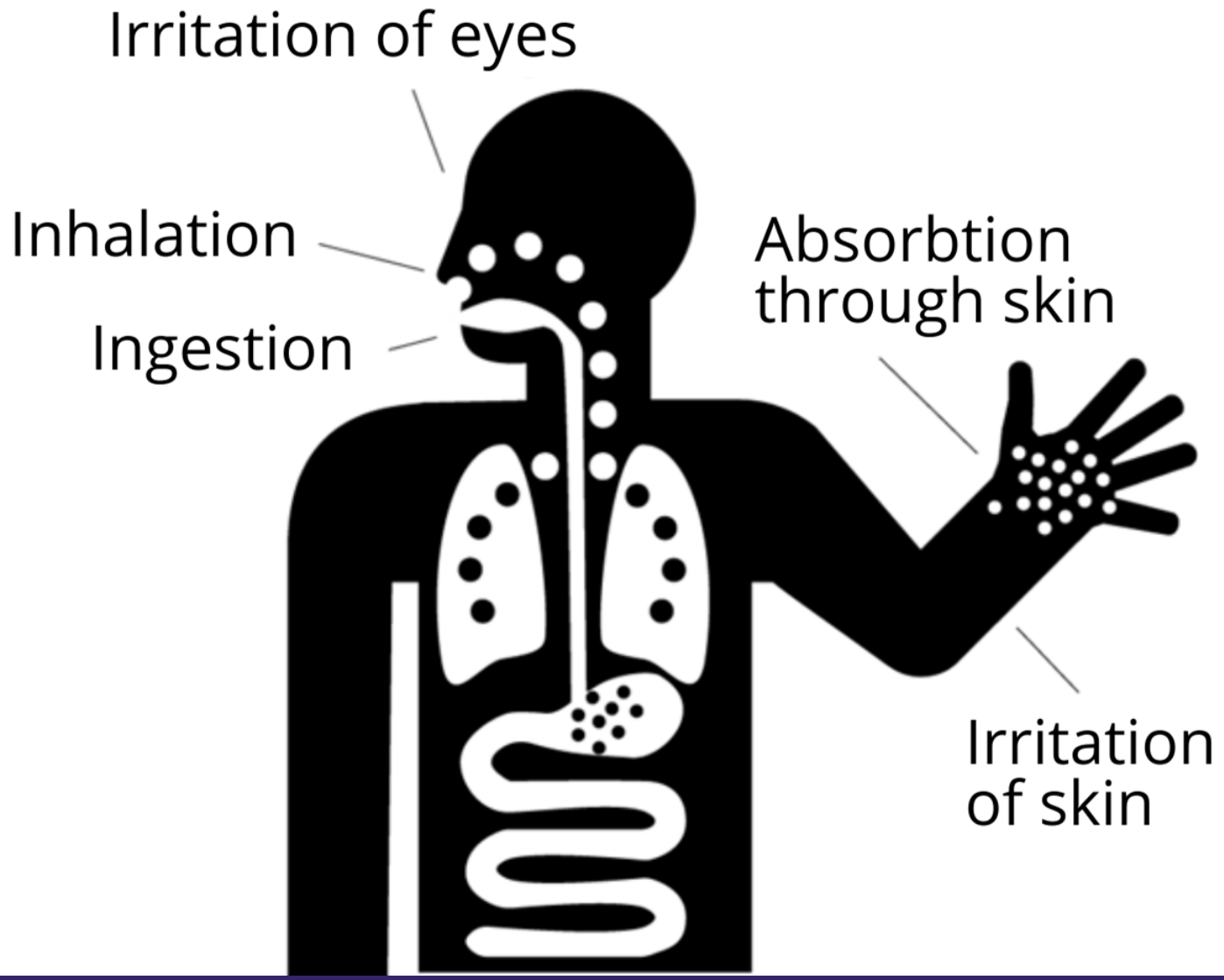
1. Oral

2. Inhalation

3. Eyes

- Pesticides can absorb quick and easy into the blood vessels of the eyes.
- Pesticides can enter your eyes as airborne dust or particles, splashes or spills, spray mists
- Rubbing your eyes with contaminated hands or clothing.

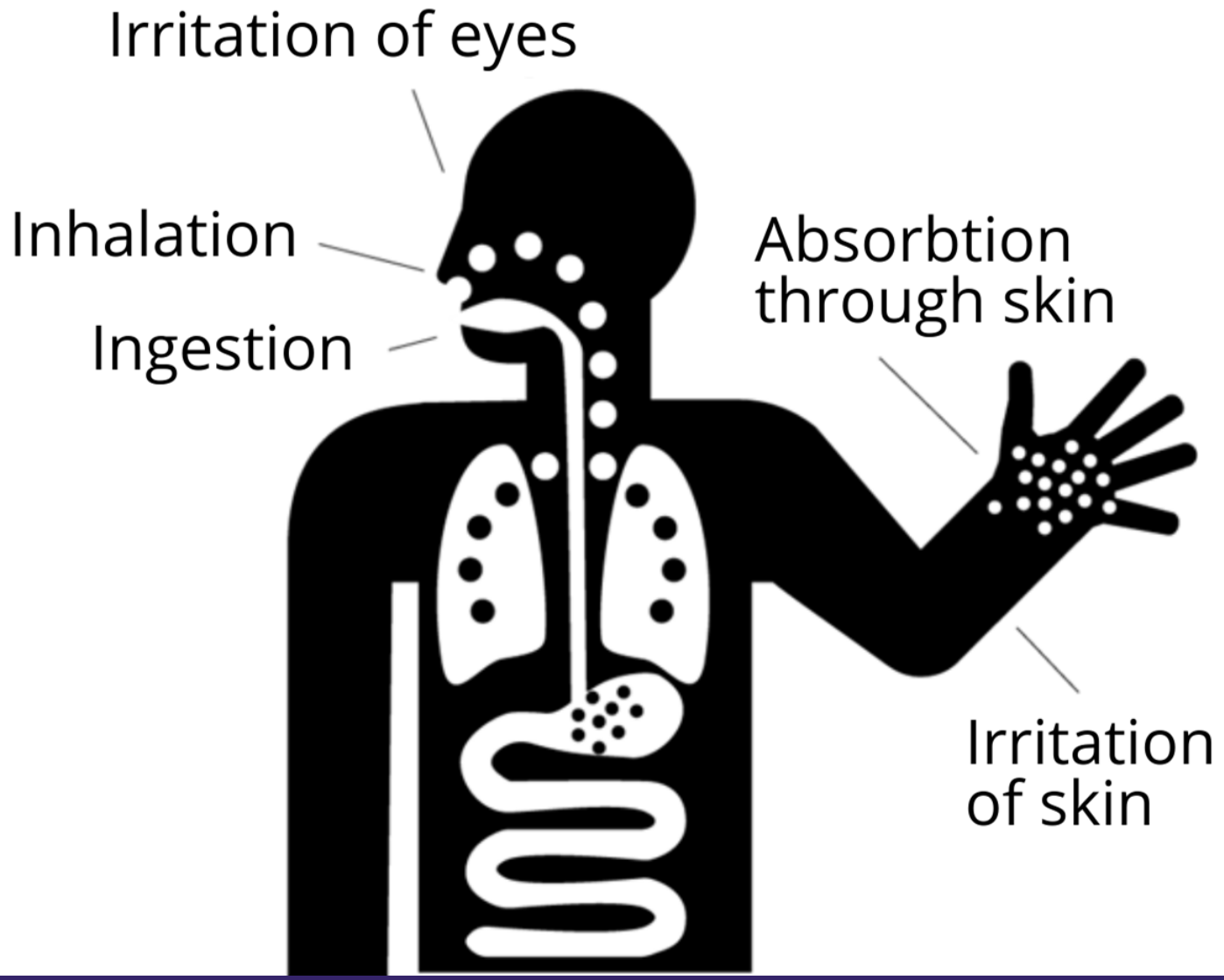
4. Skin



How do pesticides enter the body?

1. Oral
2. Inhalation
3. Eyes
4. Skin

- Not washing hands after handling pesticides, or containers.
- Splashing or spraying pesticides on unprotected skin or eyes.
- Wearing pesticide contaminated clothing, or inadequate protective equipment during mixing and application.



Potential Harmful Effects of Pesticides

Local Effects

- May occur to the area of contact with skin, eyes, or respiratory system

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- May occur to the area of contact with skin, eyes, or respiratory system

Systemic Effects

- May occur once the substance is absorbed and distributed throughout the body.
- Acute (short-term) or chronic (long-term)

Potential Harmful Effects of Pesticides

Local Effects

- May occur to the area of contact with skin, eyes, or respiratory system

Systemic Effects

- May occur once the substance is absorbed and distributed throughout the body.
- Acute (short-term) or chronic (long-term)

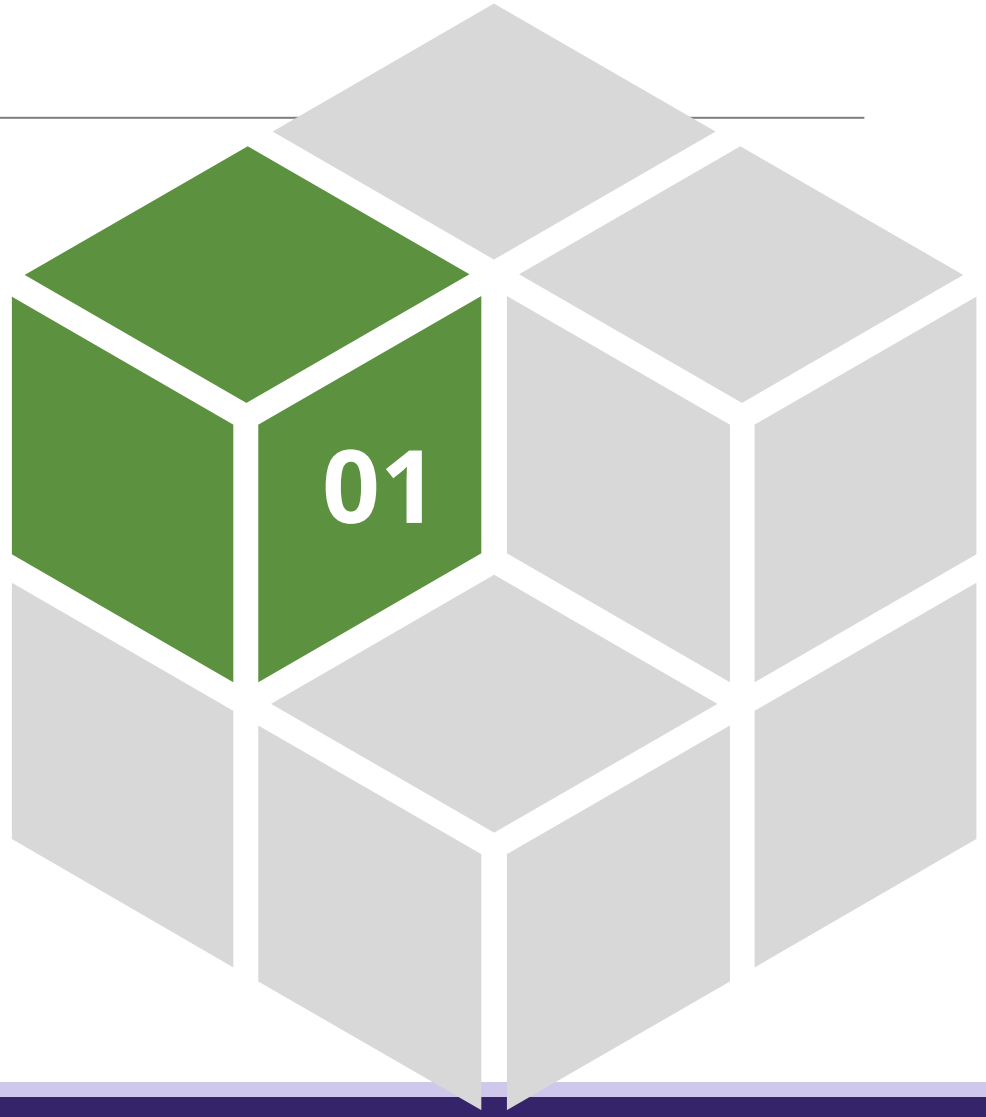
Allergic Effects

- Can occur after exposure to certain substances.

Pesticide Poisoning Symptoms

Mild symptoms

- fatigue
- headache
- nausea
- dizziness



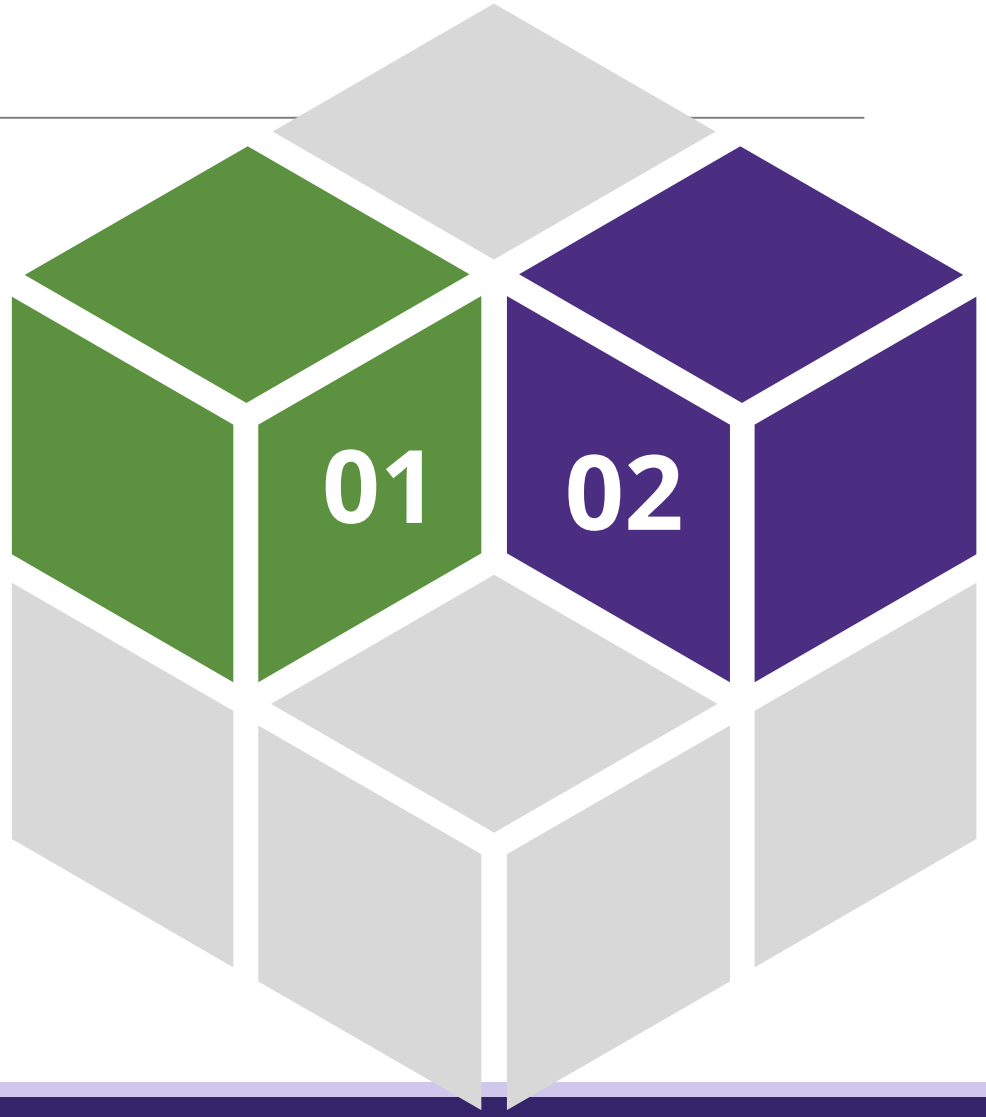
Pesticide Poisoning Symptoms

Mild symptoms

- fatigue
- headache
- nausea
- dizziness

Moderate symptoms

- excessive saliva or drool
- blurry vision
- shortness of breath

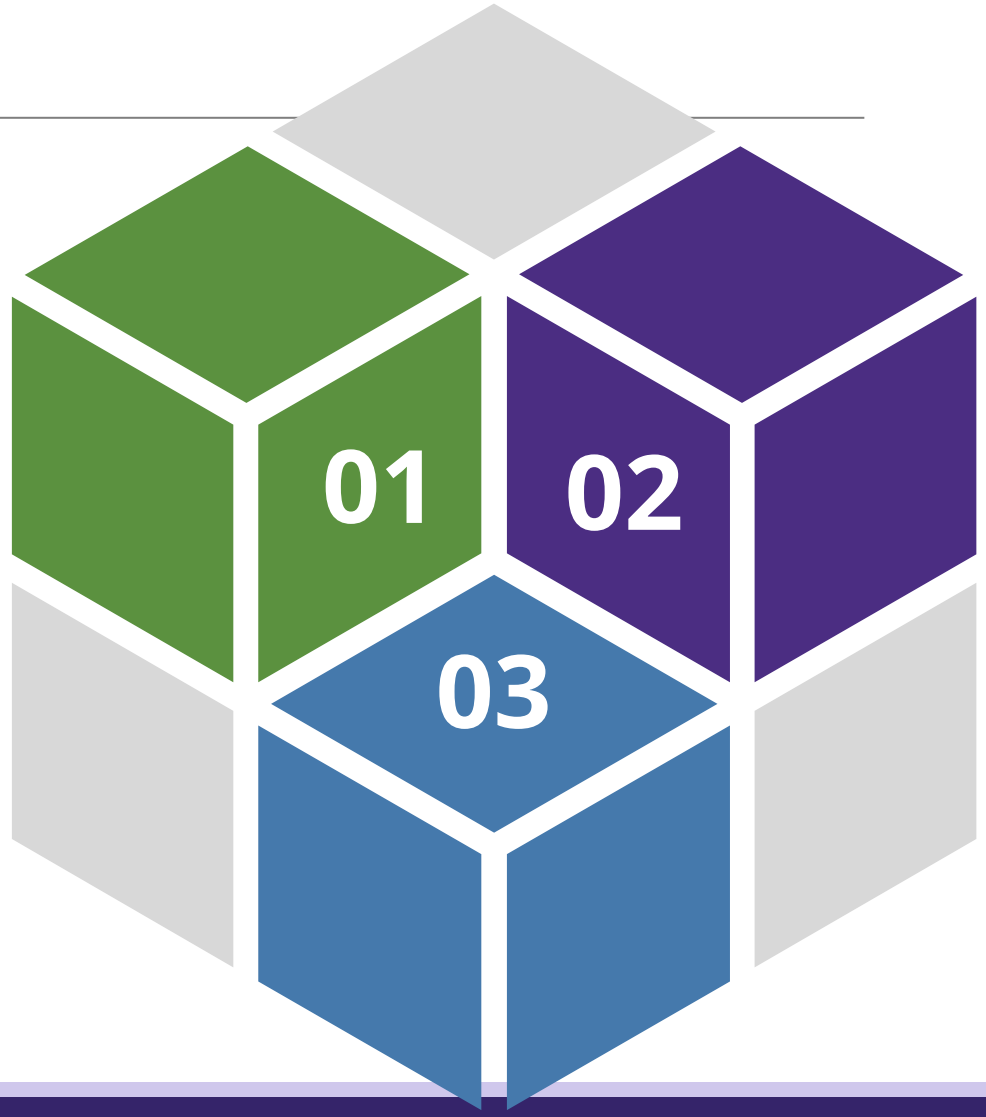


Pesticide Poisoning Symptoms

Mild symptoms
- fatigue
- headache
- nausea
- dizziness

Moderate symptoms
- excessive saliva or drool
- blurry vision
- shortness of breath

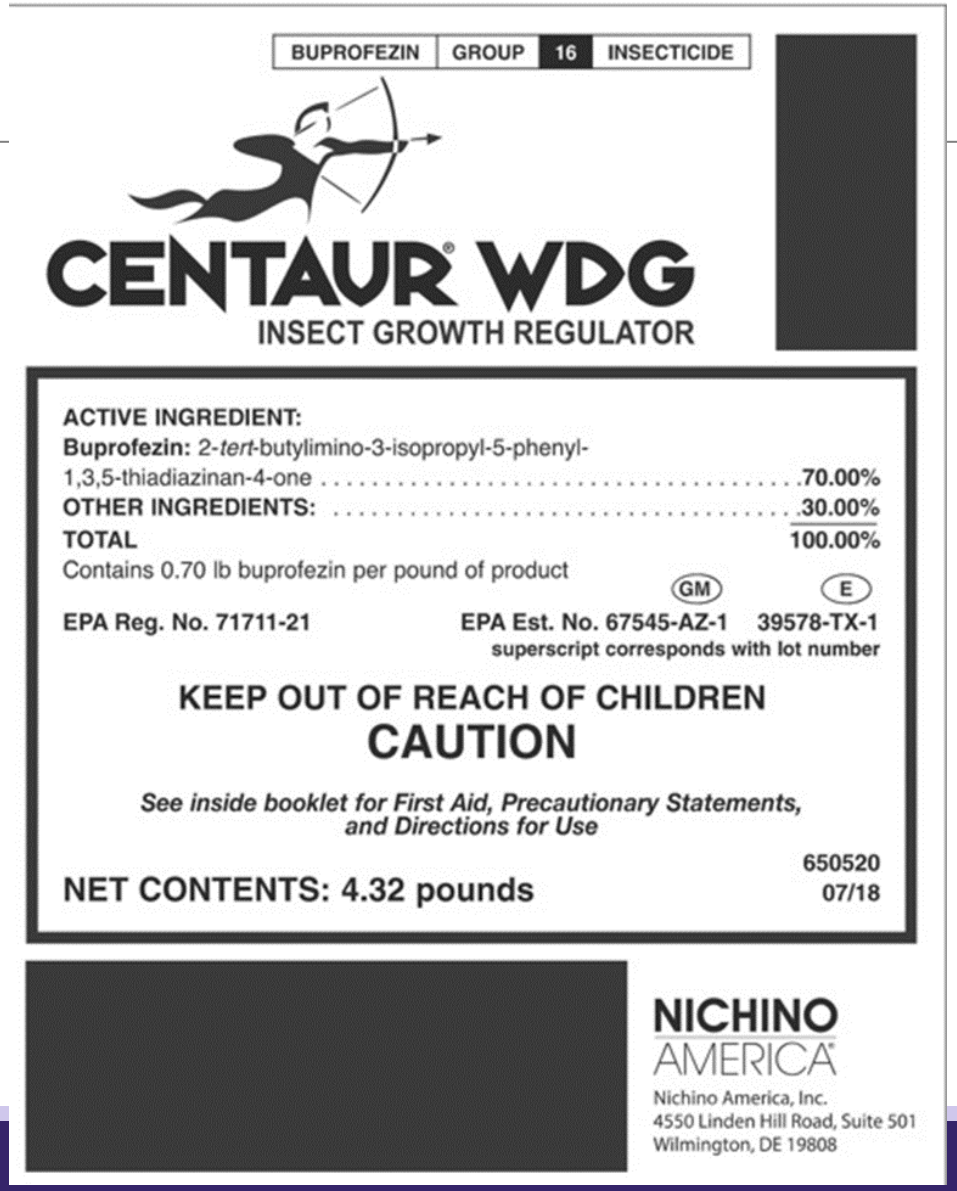
Severe symptoms
- pinpoint pupils
- trembling
- lack of muscle control
- violent convulsions or seizures
- unconsciousness



Pesticide Poisoning Symptoms

Pesticide Product Label

Pesticide product labels provide critical information about how to safely, legally handle pesticide products and are legally enforceable.



BUPROFEZIN | GROUP 16 | INSECTICIDE

CENTAUR® WDG

INSECT GROWTH REGULATOR

ACTIVE INGREDIENT:
Buprofezin: 2-*tert*-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one 70.00%
OTHER INGREDIENTS: 30.00%
TOTAL 100.00%
Contains 0.70 lb buprofezin per pound of product

EPA Reg. No. 71711-21 EPA Est. No. 67545-AZ-1 (GM) 39578-TX-1 (E)
superscript corresponds with lot number

KEEP OUT OF REACH OF CHILDREN
CAUTION

See inside booklet for First Aid, Precautionary Statements, and Directions for Use

NET CONTENTS: 4.32 pounds

650520
07/18

NICHINO AMERICA®
Nichino America, Inc.
4550 Linden Hill Road, Suite 501
Wilmington, DE 19808

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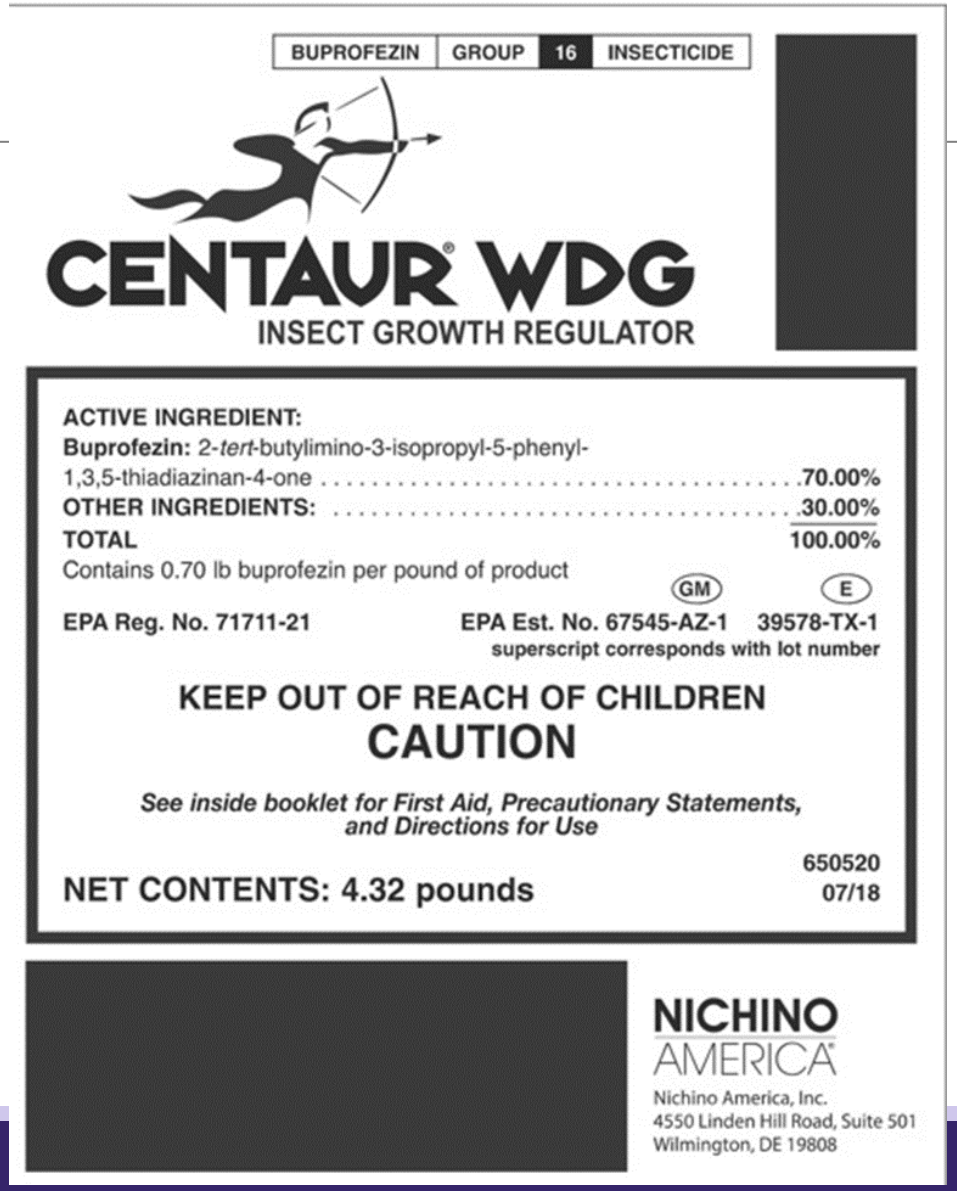

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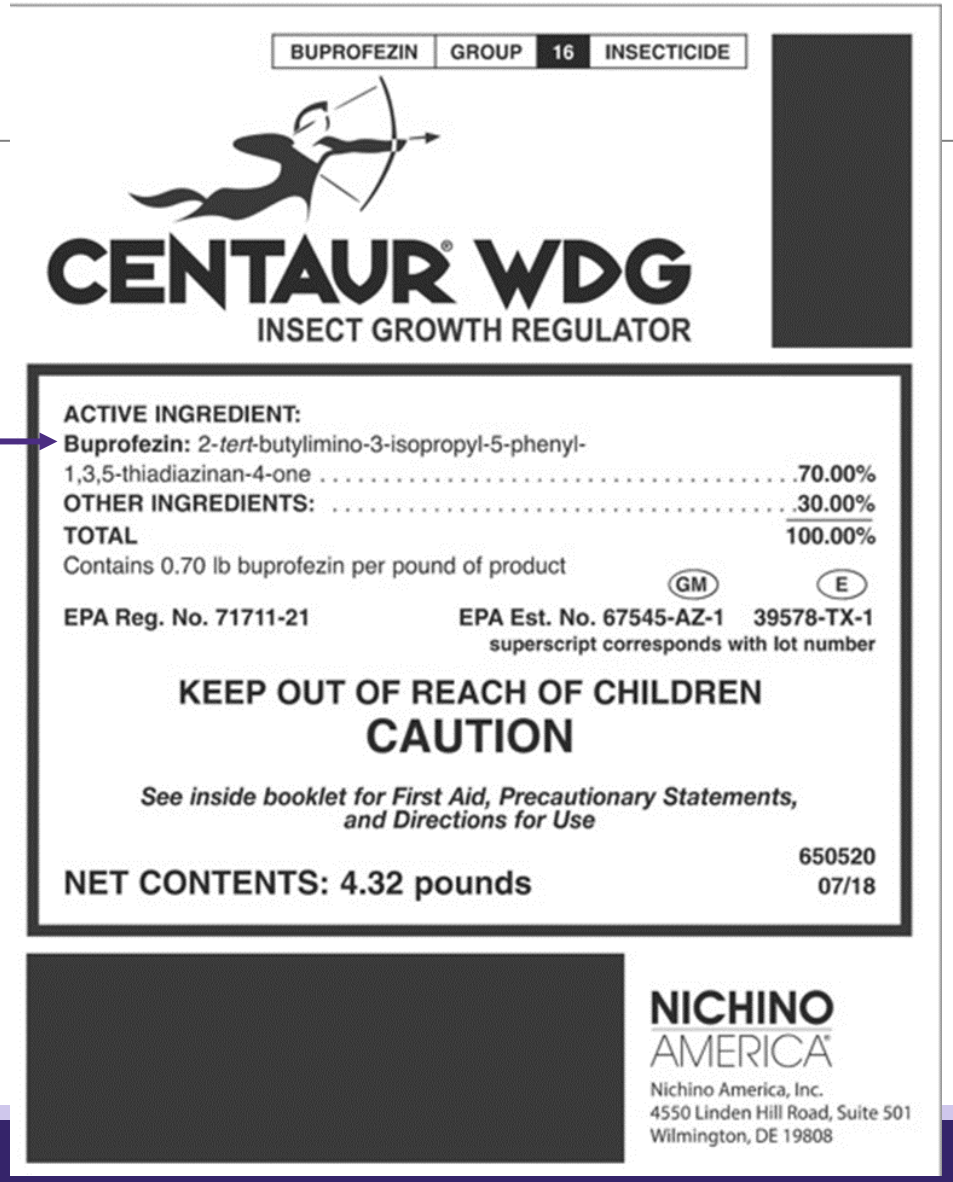
It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Pesticide Product Label

Active ingredient
The chemical that kills the pests.



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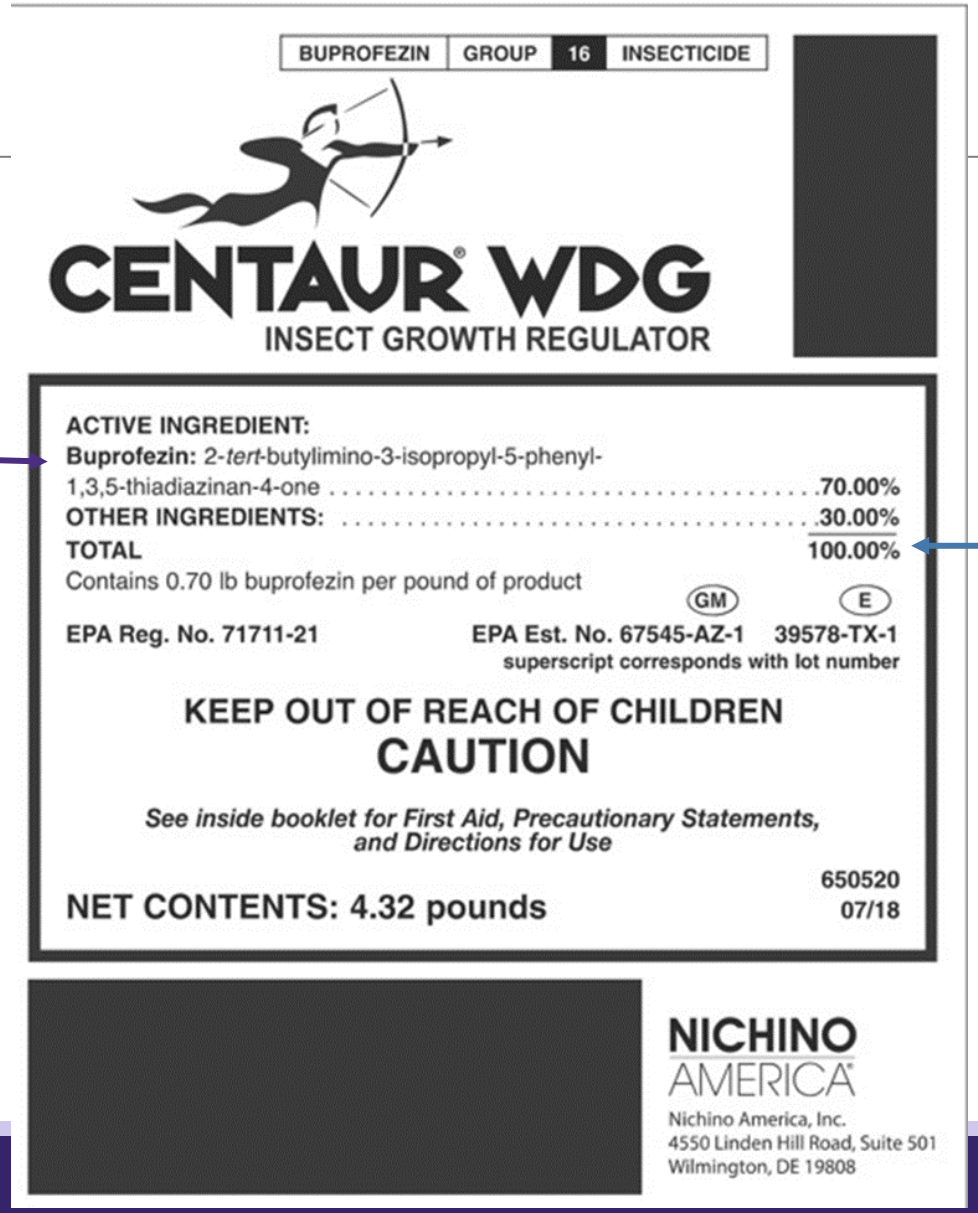

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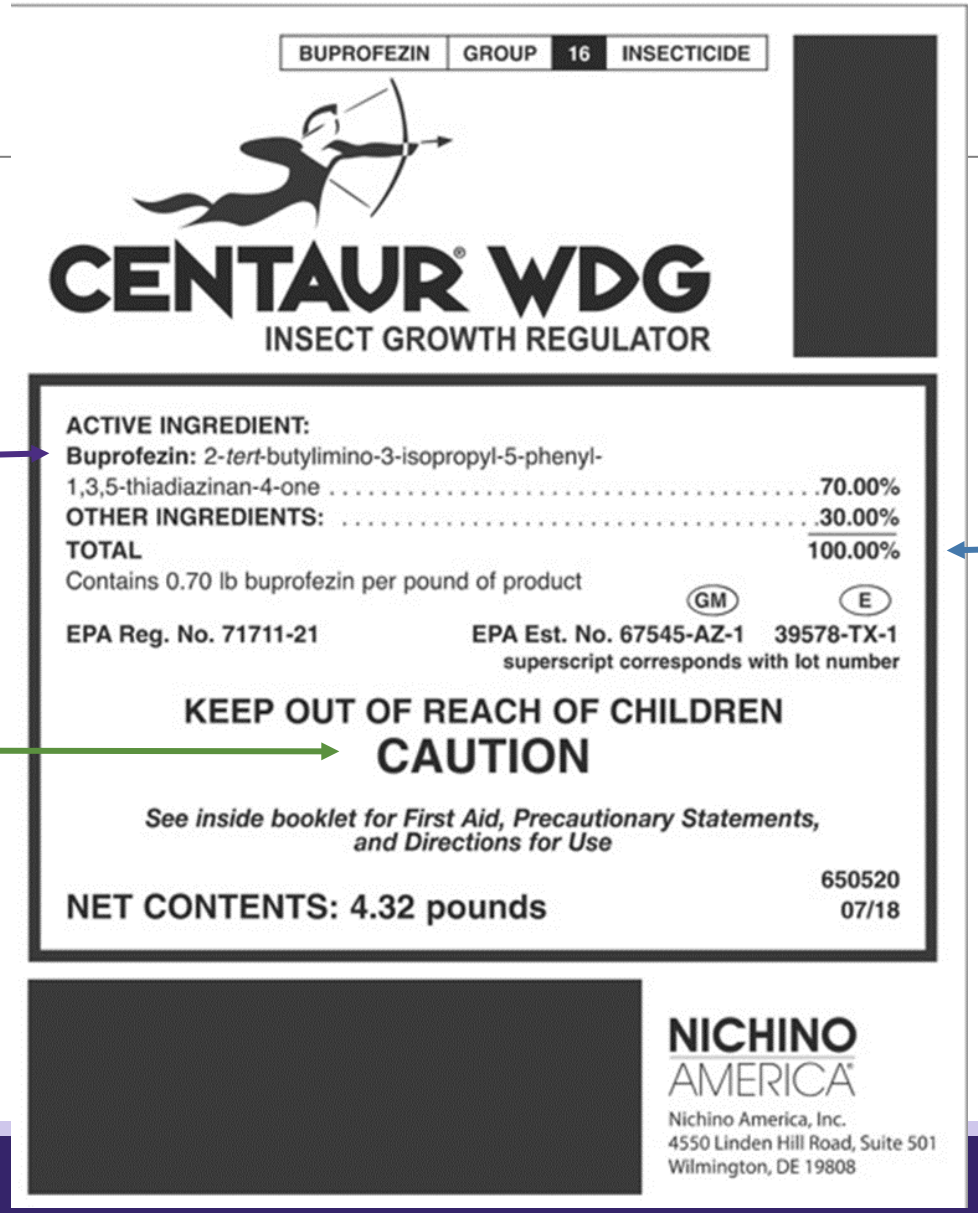
Inert or other ingredients
Helps active ingredient work, but may be harmful

Pesticide Product Label

Active ingredient
The chemical that kills the pests.

Signal word
Short term or acute effect of the active ingredient. It's the toxicity indicator of the product.



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Signal Words & Symbols

Toxicity	More toxicity ←			
	I	II	III	IV
	Signal Word			
Exposure route Inhalation Dermal Ingestion Eye irritant Skin irritant	 **Danger-Poison** **Danger**			

Signal Words & Symbols

Toxicity	More toxicity ←			
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Exposure route Inhalation Dermal Ingestion Eye irritant Skin irritant	 Danger-Poison Danger	**Warning**		

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Signal Words & Symbols

Toxicity	More toxicity ←			
	I	II	III	IV
	Signal Word			
Exposure route Inhalation Dermal Ingestion Eye irritant Skin irritant	 Danger-Poison Danger	Warning	Caution	**Not required**

Pesticide Product Label

FIRST AID	
If swallowed	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information on this pesticide product, including human health concerns and medical emergencies, call 1-800-348-5832.	
NOTE TO PHYSICIAN: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

STATEMENTS FOR CONTAMINATED PPE

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

2

First Aid

What to do if product is swallowed, inhaled, or if it crosses other membranes of the body.

Note to Physician

Imidan – *Phosmet* - Organophospate

0798 for emergency medical treatment information.
NOTE TO PHYSICIAN
This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

PRECAUTIONARY STATEMENTS

Pesticide Product Label

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First Aid

What to do if product is swallowed, inhaled, or if it crosses other membranes of the body.

Note to Physician

PPE

Varies with toxicity category and signal words.

Pesticide Product Label

142992 Centaur WDG 4_32lbs BK 7/23/18 1:33 PM Page 2

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2

First Aid

Note to Physician

PPE

142992 Centaur WDG 4_32lbs BK 7/23/18 1:33 PM Page 7

Ground Applications
Wind speed must be measured adjacent to the application site on the upwind side immediately prior to application. For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two (2) rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Aerial Applications
The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Wind Speed Restrictions
Drift potential increases at wind velocities of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors including droplet size, canopy, and equipment specifications determine drift potential at any given wind speed. Only apply this product if the wind direction favors on-target deposition. Do not apply when wind velocity exceeds 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions
Do not make ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by stable air and increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by mist or ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally near the ground surface in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

7

Application Information
Specific information about how to apply the pesticide and when to apply the pesticide

How to prevent exposures to pesticides

1. Read the product label. "The label is the law."
2. Wear personal protective equipment as listed on the product label.
3. Wash hands.
4. Stay out of treated (posted) areas.

Accidental exposure

1. Remove any PPE or contaminated clothing as quickly as possible. Keep contaminated clothing in sealed plastic bag.

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2. Rinse the pesticides from skin or eyes immediately with clean water.

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1. Remove any PPE or contaminated clothing as quickly as possible. Keep contaminated clothing in sealed plastic bag.
2. Rinse the pesticides from skin or eyes immediately with clean water.
3. Wash with soap and water, shampoo hair as soon as possible.

Accidental exposure

1. Remove any PPE or contaminated clothing as quickly as possible. Keep contaminated clothing in sealed plastic bag.
2. Rinse the pesticides from skin or eyes immediately with clean water.
3. Wash with soap and water, shampoo hair as soon as possible.
4. Put on clean, uncontaminated clothes.

Accidental exposure

1. Remove any PPE or contaminated clothing as quickly as possible. Keep contaminated clothing in sealed plastic bag.
2. Rinse the pesticides from skin or eyes immediately with clean water.
3. Wash with soap and water, shampoo hair as soon as possible.
4. Put on clean, uncontaminated clothes.
5. Report to a supervisor or person in charge.

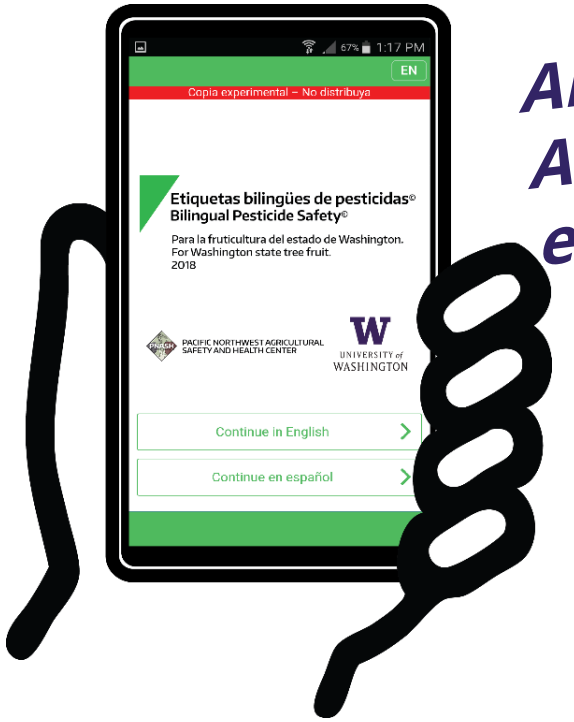
Accidental exposure

1. Remove any PPE or contaminated clothing as quickly as possible. Keep contaminated clothing in sealed plastic bag.
2. Rinse the pesticides from skin or eyes immediately with clean water.
3. Wash with soap and water, shampoo hair as soon as possible.
4. Put on clean, uncontaminated clothes.
5. Report to a supervisor or person in charge.
6. Get medical care immediately if symptoms of pesticide poisoning develop or are suspected. Take the product label to a doctor.

Pacific Northwest Agricultural Safety & Health Bilingual Pesticide Safety™ Project

Bilingual risk management tools

- Complete English labels and user friendly searches labels in PICOL
- Spanish and English label information for health, safety, and environmental protection
- WPS & pesticide safety resources



Anytime Anywhere

picol.cahnrs.wsu.edu

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- Help
- Privacy Policy
- Open Source

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CAHNRS Home ↗

Pesticide Information Center OnLine (PICOL) Database

Note to Users: Not all PICOL features may be compatible with your browser. We recommend using Chrome, Firefox, or Edge for the best experience. Known issues: PICOL Advanced Search features are not compatible with the Mac version of the Safari browser.

Welcome to the Washington State University's Pesticide Resources and Education Program (PREP) pesticide label database. This free, searchable database is operated by Washington State University through funding provided from the Washington State Department of Agriculture, the Oregon Department of Agriculture, Oregon State University, and WSU.

PICOL contains selected information from pesticide products registered in either Oregon, Washington, or in both states. Washington data includes Section 3, Section 25b, Section 24c, Section 18, adjuvants, and federal supplemental labels. It does not include EUPs. Oregon data includes Section 3, Section 25b, Section 24c, and federal supplemental labels. It does not include EUPs or Section 18 labels.

PICOL provides electronic copies (i.e., PDFs) of most Washington and many Oregon registered labels. PDFs are only accepted directly from WSDA and ODA. NOTE: WEB LABELS ARE FOR INFORMATIONAL PURPOSES ONLY. THIS DATABASE IS NOT A SUBSTITUTE FOR OBTAINING, READING, AND FOLLOWING PESTICIDE LABEL DIRECTIONS. PICOL INFORMATION HAS NO LEGAL STATUS, WHEREAS THE CONTAINER LABEL IS A LEGAL DOCUMENT.

This site offers three search options: Express and Quick Searches are available for current-year data only, while the Advanced Search allows users to search either for current records or for recently cancelled products. Search results can be exported to Excel® manually and APIs can be created for automated searches.

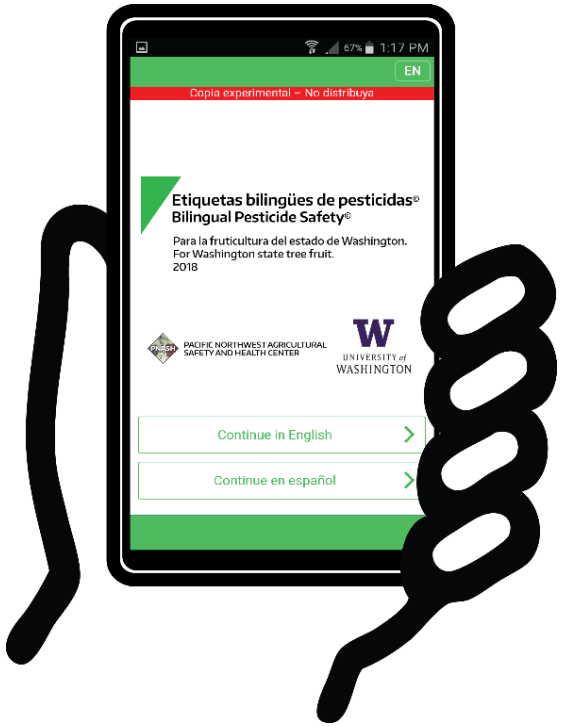
PICOL does not include tolerance information or maximum residue limits. WSPRS' staff recommend users access either EPA's instructional page on searching the Code of Federal Regulations or the Global MRL database.

Etiquetas bilingües de pesticidas™
Bilingual Pesticide Safety™

- Access Anytime, Anywhere
- Pesticide label HS&E information in English and Spanish
- Washington State approved labels

Download a bilingual pesticide label app

- Go to your phone's App Store or Google Play Store
- Type PestiSeguro
- Download the PestiSeguro/PestiSafe App

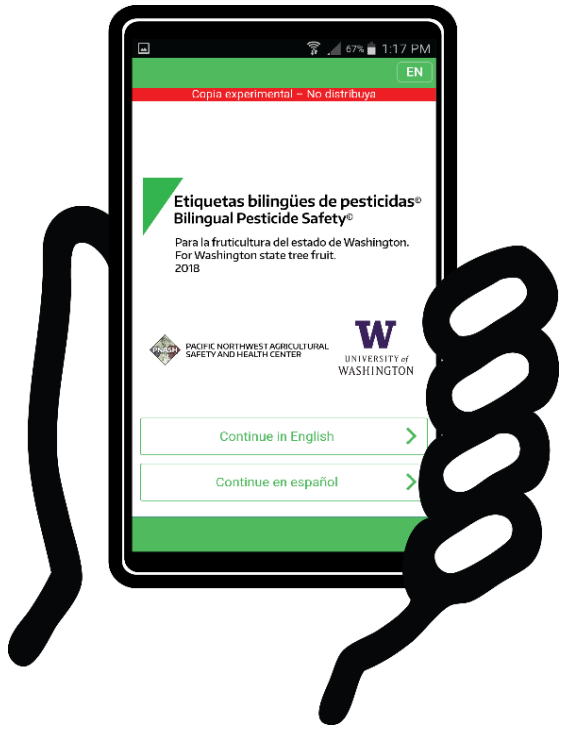


Download on the App Store

GET IT ON Google Play

App #1: Etiquetas de pesticidas, ahora!™ Pesticide Labels, Now!™

- **Bilingual user interface**
  - 40 Labels for apples/pear
  - Pesticide safety information and WPS training
  - Bilingual search tool for WA State Label Database (PICOL)
- **Stakeholder Advisory Group**



Download on the App Store

GET IT ON Google Play

App #2: PestiSeguro™ PestiSafe™

1. Scale up crops and label updates
2. Labels for WA State crops
3. Business development consultant
4. Technical Advisory Group

Premium-Subscription

Industry Collaborators

- Grapes
- Tree fruit
- Hops

PestiSeguro™
PestiSafe™

A Mobile App and Service for Specialty Crops in Washington State

Pesticide safety information right on your phone -- with both the English and contextual Spanish translations.

- Anytime, anywhere access
- Direct access to pesticide labels approved for use in WA*
- User friendly interface & easy navigation
- Pesticide safety and WPS resources

Download the App for Free

Access to **40 pesticide labels** used in WA State apple & pear production

Download on the App Store | GET IT ON Google Play

Subscribe to Service

Access to **300 pesticide labels** used in WA State Specialty Crops

Apples, pears, cherries, other tree fruit, hops, grapes, and also blueberries, potatoes, and asparagus.

Apples
Pears
Cherries
Stone Fruit
Grapes
Blueberries
Hops
Potatoes
Asparagus
Forestry Herbicides

*Direct access to pesticide labels approved for use in Washington from the Pesticide Information Center Online (PICOL) website at Washington State University.

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Disclaimer

The label is the law.

The apps developed by this project are for information purposes only. When there is a difference between the app contents and the pesticide product label, the product label prevails. The label that comes with the pesticide product is the legal document. These apps are NOT a substitute for obtaining and reading the pesticide product label.

EPA English/Spanish pesticide labels requirement

PRIA:
Pesticide Registration Improvement Act of 2022

TITLE VI—PESTICIDES

Subtitle A—Pesticide Registration Improvement Act of 2022

SEC. 701. SHORT TITLE.

This title may be cited as the "Pesticide Registration Improvement Act of 2022".

SEC. 702. BILINGUAL LABELING.

Section 3(f) of the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. 136a(f)) is amended by adding at the end the following:

"(5) BILINGUAL LABELING.—

"(A) REQUIREMENT.—

"(i) IN GENERAL.—Subject to clause (ii), not later than the applicable deadline described in subparagraph (B), each registered pesticide product released for shipment shall include—

"(I) the translation of the parts of the labeling contained in the Spanish Translation Guide described in

PRIA 5 requires that the Spanish language translation for sections of the end-use pesticide product labels (where translation is available in the EPA Spanish Translation Guide) must appear on the pesticide product container or a link to such translation via scannable technology or other electronic methods readily accessible on the product label. These translations are required on a rolling schedule from December 2025 to December 2030 depending on the type of pesticide product and the toxicity category.

Pesticide Registration Improvement Act

https://www.appropriations.senate.gov/imo/media/doc/JRQ121922.PDF

Search for page 3980

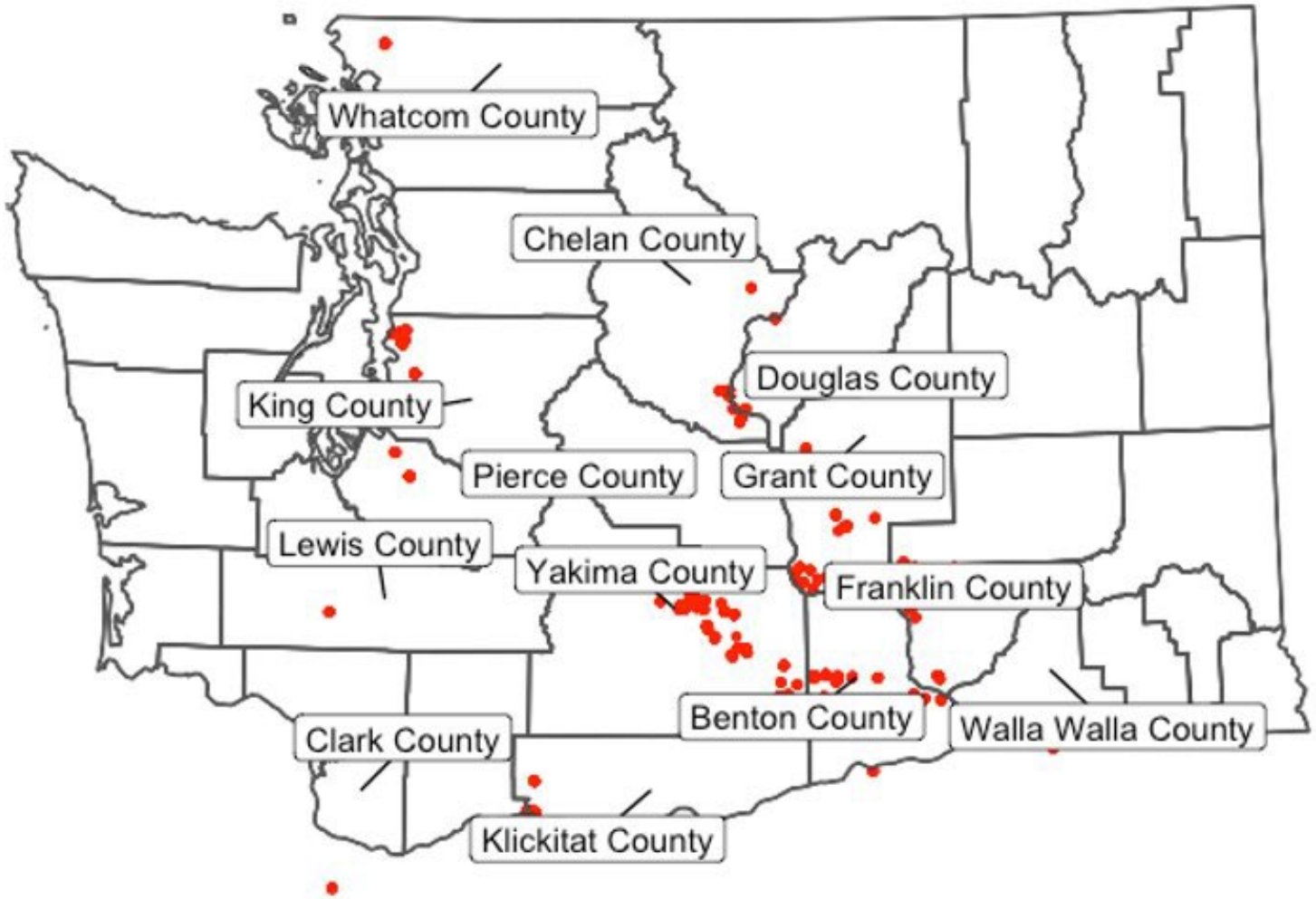
B. What action is the Agency taking?

The Pesticide Registration Improvement Act of 2022 (PRIA 5), enacted on December 29, 2022, amended FIFRA requiring Spanish language translation for sections of the end-use pesticide product labels where translation is available in the EPA *Spanish Translation Guide for Pesticide Labeling*. The Spanish Translation Guide is located at: *https://www.epa.gov/pesticide-labels/spanish-translation-guide-pesticide-labeling*. It contains translations of the health and safety portions of pesticide product labels. Specifically, it has Spanish translations of the "keep out of reach of children" statement, the restricted use pesticide statement for restricted use products, the signal word, the first aid section, the precautionary statement section, the personal protective equipment section, the misuse statement, and the storage and disposal statements. It also has examples of pesticide product label language for the agricultural use requirements section (including restricted entry interval information) and precautionary statements.

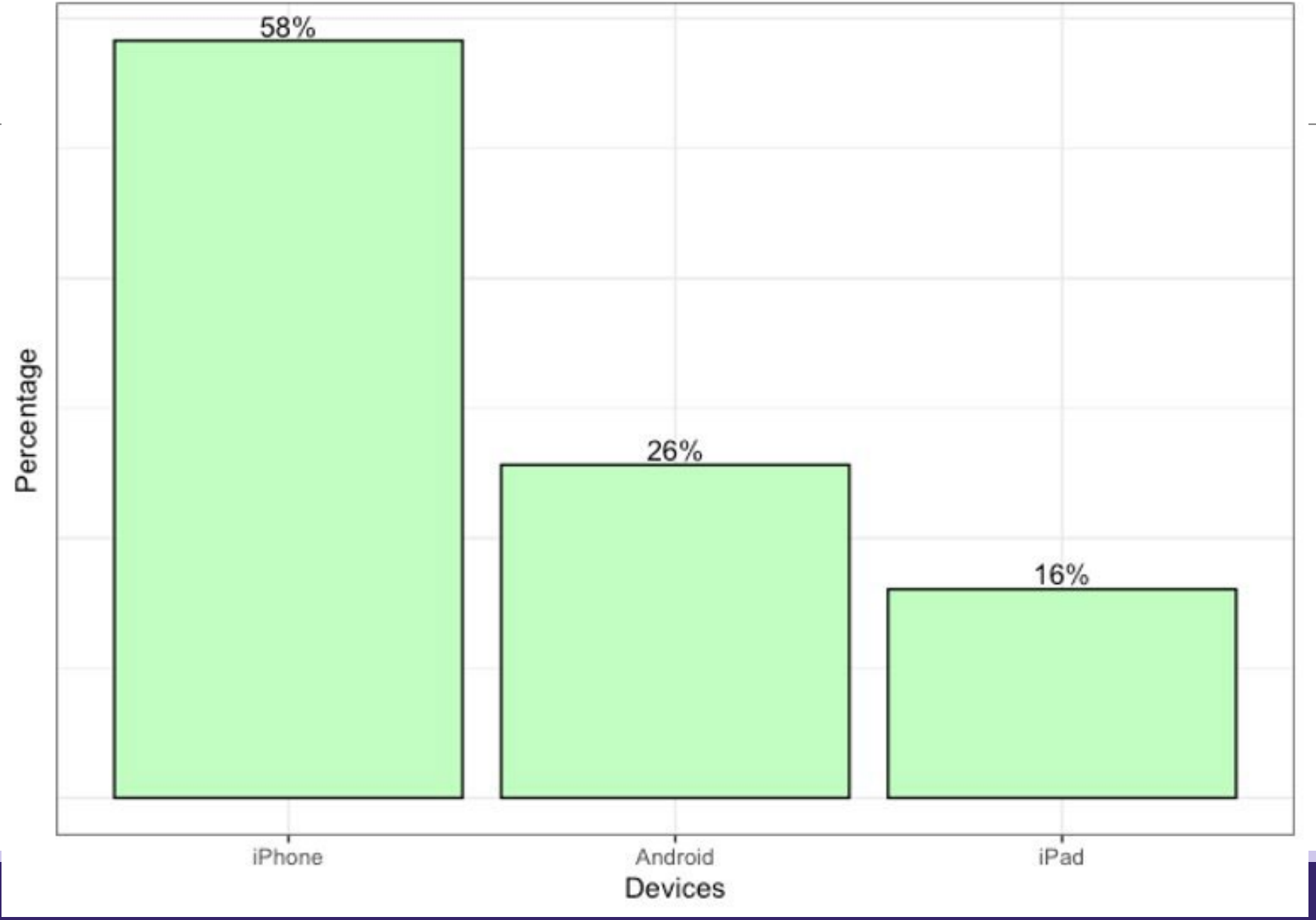
¡Etiquetas de Pesticidas Ahora!/Pesticides Labels Now! user data from August 2020 to August 2021

App use by location

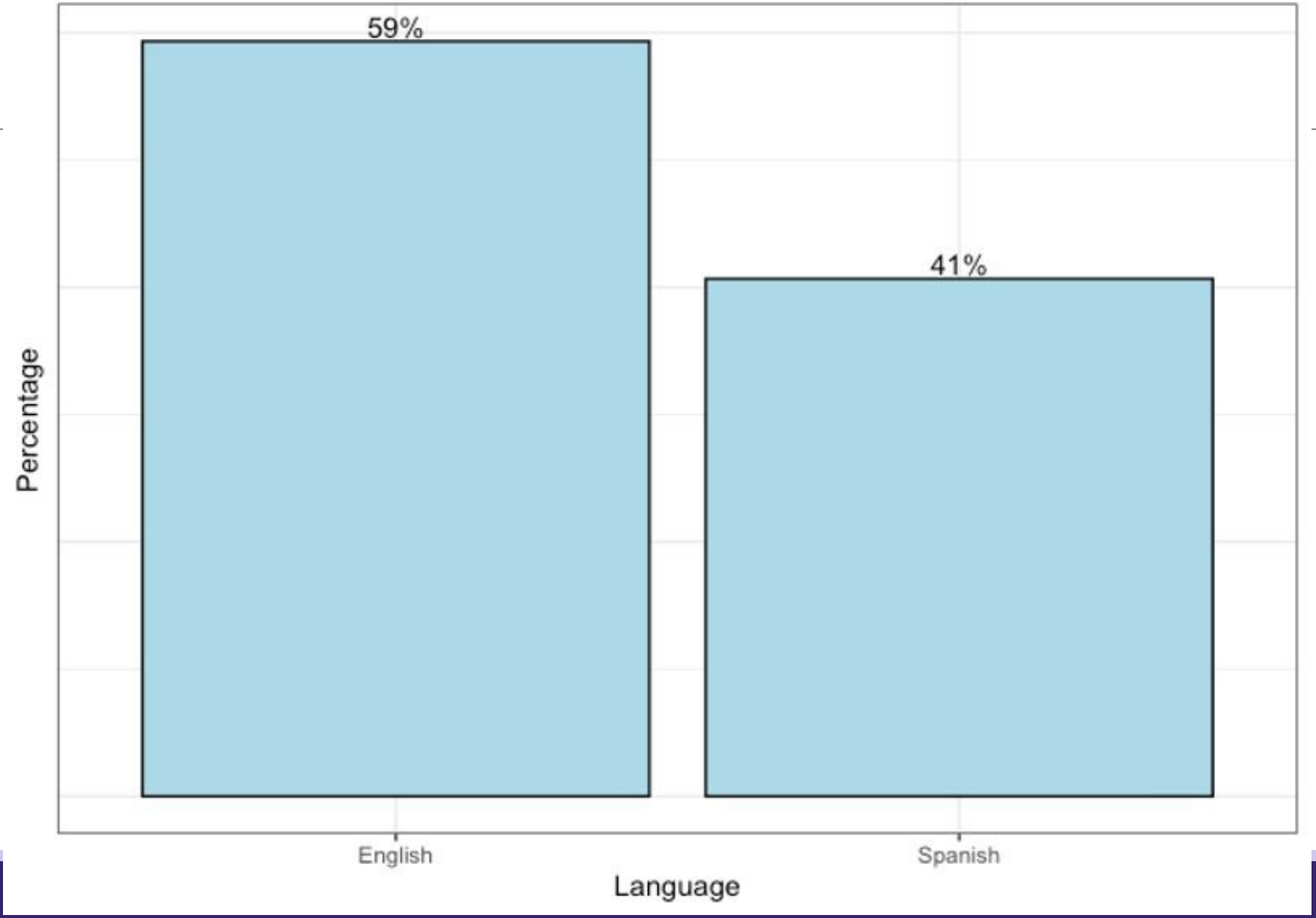
App use in Wasington



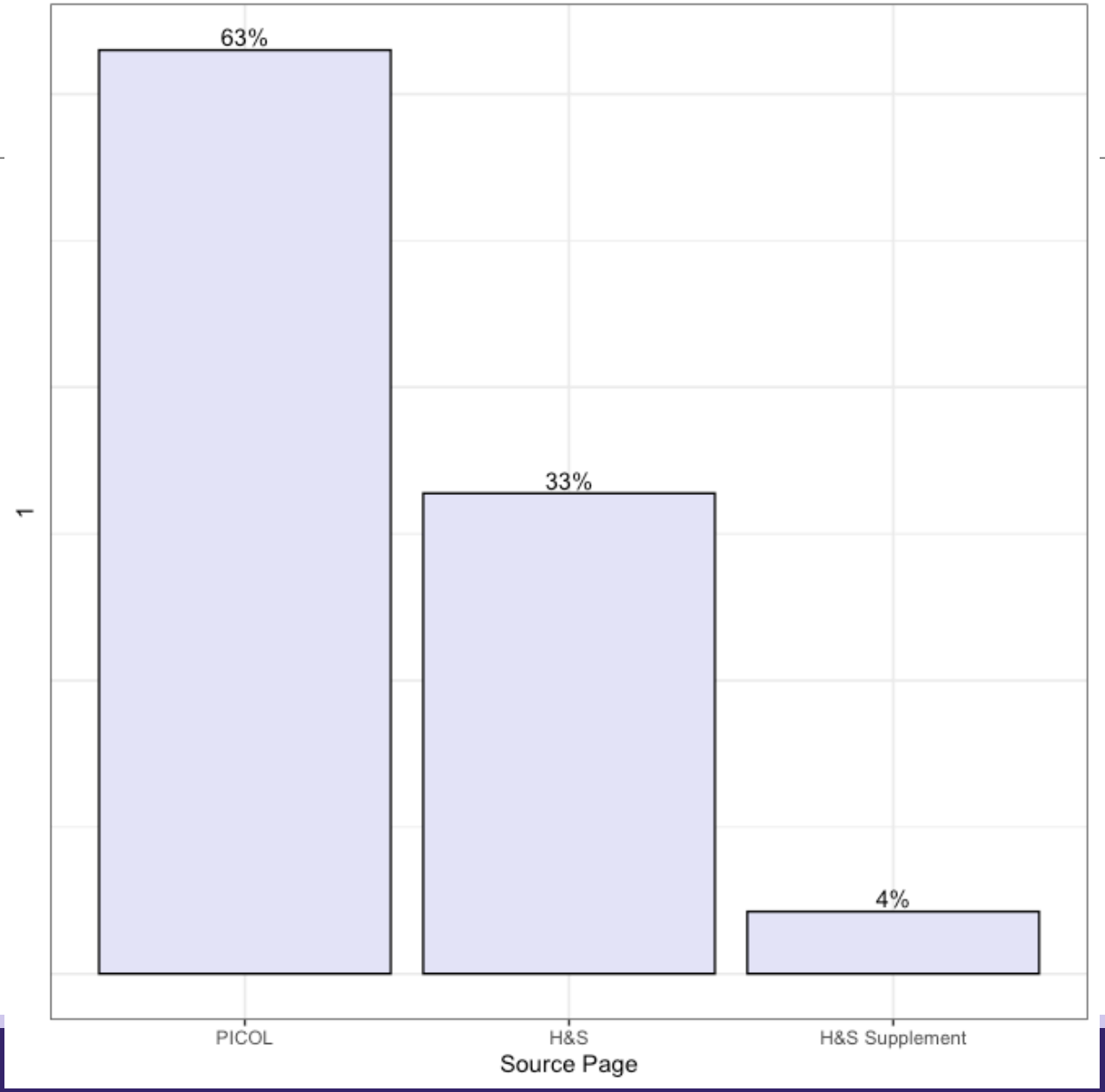
App use by device



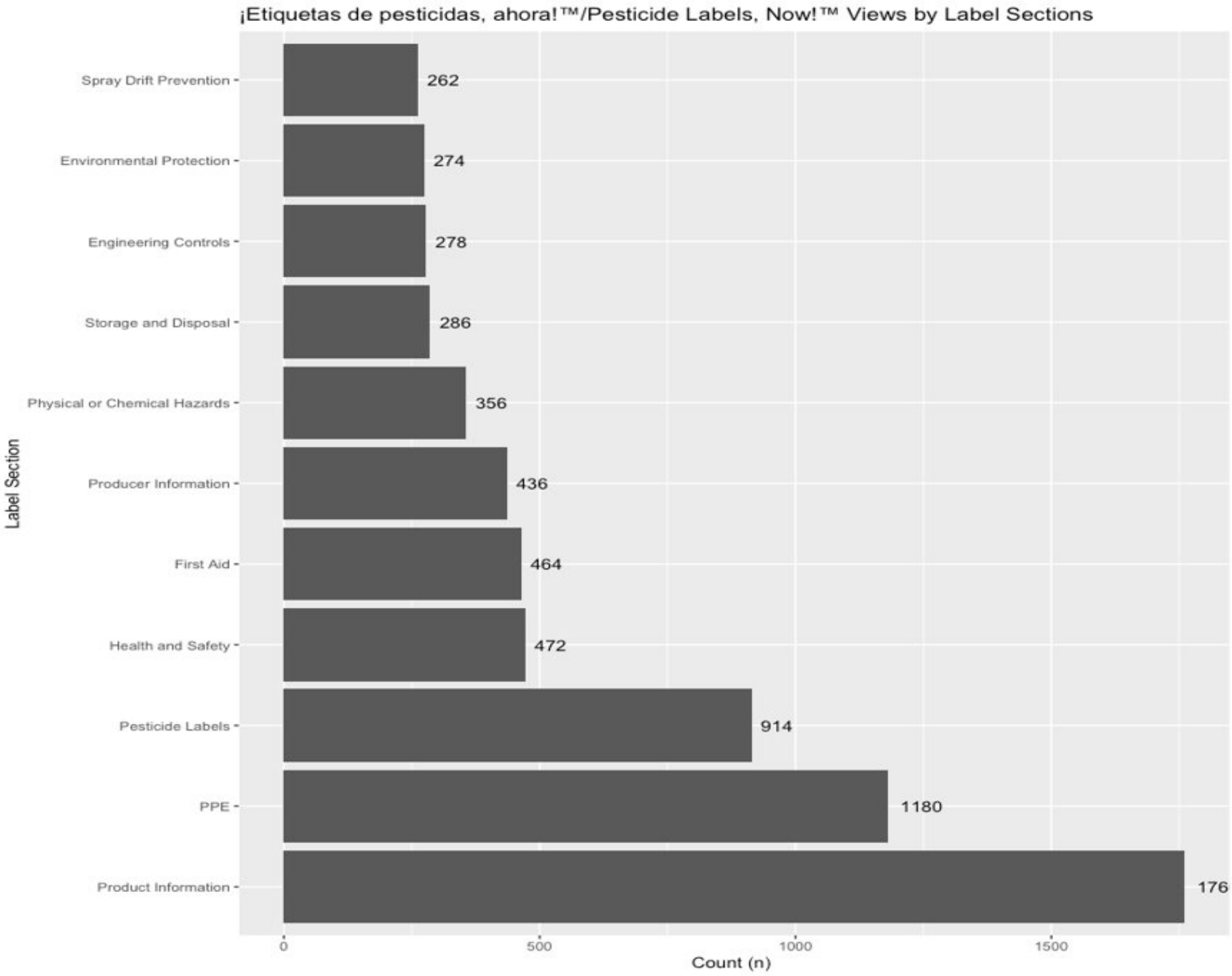
App use by language



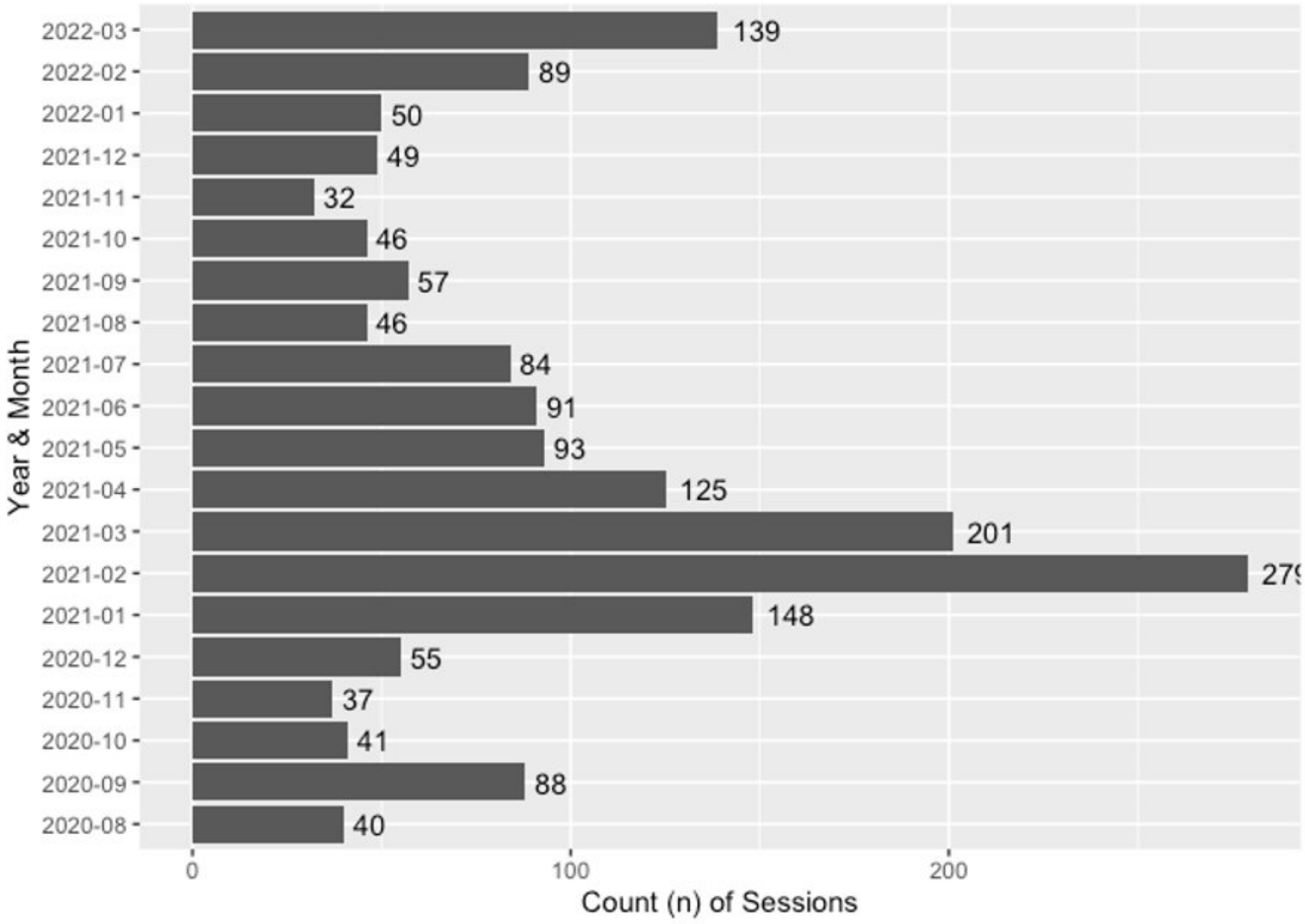
App use by activity



Activity in sections of the label



Sessions each month



Top 8 searched pesticides

Lorsban® Advanced

PARAQUAT 43.2% SL

2,4-D AMINE 4 HERBICIDE

Lorsban®-4E Insecticide

440 SUPERIOR SPRAY OIL

Delegate® WG

Carbaryl 4L

ABBA ULTRA MITICIDE/INSECTICIDE

Usage of the app was from noon to 3 pm

For more information about the project, please visit:

deohs.washington.edu/pnash/bilingual-pesticide-safety-project

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OCCUPATIONAL HEALTH AND SAFETY
ENVIRONMENTAL & OCCUPATIONAL HEALTH SCIENCES | SCHOOL OF PUBLIC HEALTH

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¡Gracias!
Thank you!

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