

RESPIRATOR FIT-TEST TRAINING

A PILOT PROGRAM IN SMALL STATES

NH, CT AND DE

THE PESTICIDE STEWARDSHIP ALLIANCE

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Why are we
doing this?



How to Comply With the 2015 Revised Worker Protection Standard For Agricultural Pesticides

What Owners and Employers Need To Know



RESPIRATOR REQUIREMENTS IN REVISED RULE: 170.507(B)(10)

- When a respirator is required by the labeling, handler employer must provide handlers with the following before the handler performs any activity requiring the respirator:
 - Medical evaluation
 - Fit test
 - Respirator training
- Handler employer must maintain records for 2 years documenting completion of these.

IT ALL STARTED WITH...

- A request from growers after Worker Protection Standard workshop (WPS) in New Hampshire.
- A subsequent informal survey of growers conducted by Extension Educators in NH, it was determined that respirator training was desired and necessary for growers to know how to comply with the WPS respiratory requirements for pesticide handlers.
- **Growers wanted more training on respirators.**

THIS IS WHAT WE DID...

At the risk of being glib,
I'm calling this the
Respirator Road-Trip



ROAD TRIP PURPOSE

- Medical Evaluation:

Train growers who need to comply with the WPS how to have medical evaluations done, what's required.

Fit-Testing:

Qualitative or Quantitative fit testing must be conducted to meet WPS requirements and record keeping.

- Respirator Training:

Pesticide handlers need to be trained to conduct the positive and negative pressure tests every time they don a respirator and know how to properly clean/maintain and store a respirator.

THE RESPIRATOR ROAD TRIP TRAINERS

- The Experts:

- Jessica Wilburn, North Carolina, Agromedicine Institute,
Agrisafe-NC Nurse Coordinator



- Cynthia Smith, North Carolina, Agromedicine Institute, Agrisafe Nurse



THE RESPIRATOR ROAD TRIP

- The Passengers:
- Rachel Maccini, Univ. of NH
- Kerry Richards Univ. of DL
- Candace Bartholomew, Univ. of CT
- Jan Hygnstrom, Univ. of NB
- Michael Weirda, Univ. of AZ

Photos withheld to protect the **Collaboration Team**.

THE RESPIRATOR ROAD TRIP

- The Route:

First Stop: Concord, New Hampshire, 22 Attendees, 0 with medical evaluations

Overnight in Cromwell, CT

Second Stop: Haddam, Connecticut, 11 Attendees, 7 with medical evaluations

Overnight in NYC

Third Stop: Philadelphia Airport, pick up collaborators from AZ and NB

Overnight in Georgetown, DE

Fourth Stop: Georgetown, Delaware, 16 Attendees, 3 with medical evaluations

Reverse:



WHAT WE DID...

One, 4 hour workshop in each state.

Learning Objectives:

- ❖ Understand EPA & OSHA medical evaluation & respirator fit test now required under new WPS regulations
- ❖ Selection of respirator & cartridge
- ❖ Understand differences in respirators & cartridges

WHAT WE DID...

Learning Objectives continued:

- ❖ Learn how to correctly select & fit respirators for yourself and employees
- ❖ Have your respirator fit tested**
- ❖ Know how to correctly clean & store respirators
- ❖ Deliver & document employee training on respirator use & care
- ❖ Prepare for pesticide inspections
- ❖ Video tape training for future use

Blood Pressure - we don't want you to faint on us!



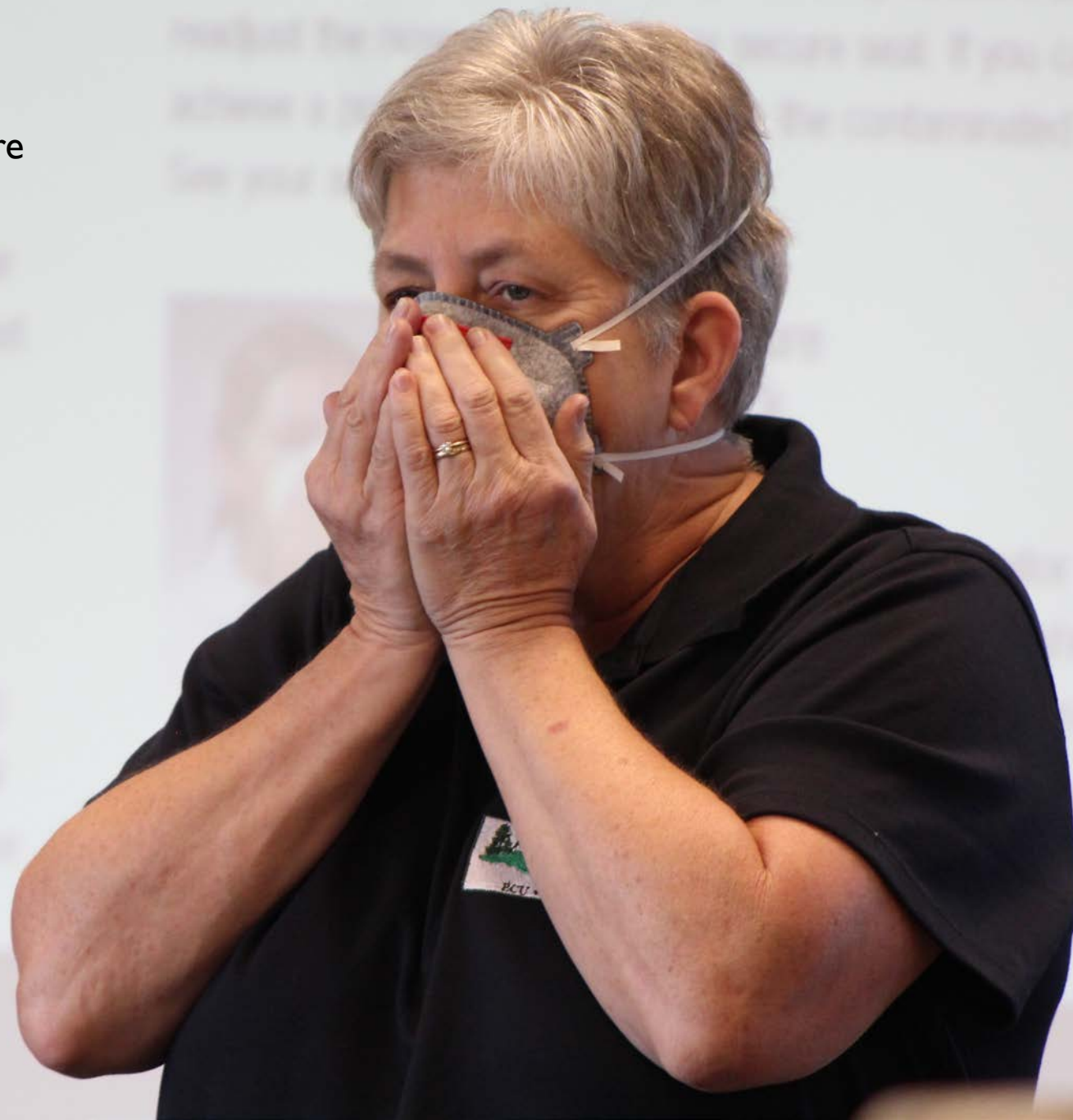
Blood Sugar – finger prick, we don't want you to faint on us!



Lung function test with Spirometer, we don't want you to faint on us!



Fit check N 95
Negative pressure



Practice



Fit check half face
Positive pressure



Fit check half face
Negative pressure



Fit check full face
Positive pressure



Fit check full face
Negative pressure



ng,
nance,
e



Fit Test by the Experts.
Insert nebulizer here.



How many
puffs did
you say
that was?



Let me know when
you smell something.



Let's try that again with a half face respirator.



Now tell me when
you smell something.



Yes, even with a beard
he passed the fit test!



WHAT WE LEARNED...

Evaluations:

Satisfaction:

N=48

	Not Satisfied	Somewhat Satisfied	Satisfied	Very Satisfied
The relevance of information to your needs?		1	15	30
Presentation quality of instructor (s)?		1	7	39
Subject matter knowledge of instructor (s)?			6	41
Training facilities		1	9	37
Overall quality of the training workshop?			7	40

Was the information easy to understand?

Yes = 44

No =

WHAT WE LEARNED...

BEFORE AND AFTER TRAINING PARTICIPANTS SAID...

1=VERY LOW 2= LOW 3= MODERATE 4 = HIGH 5=VERY HIGH

N=48	Mean before	Mean after	Difference
OSHA/WPS regulations related to respiratory protection	2.5	3.9	1.4
How to determine what personal protective equip. is needed for different chemicals	3.3	3.9	1.2
Different types of respirators/cartridges & what they protect from	2.8	4.5	1.5
Cleaning, storing, & maintaining a respirator	2.9	4.3	1.6
Obtaining Medical Clearance	2.5	4.3	2.0
Conduct a respirator fit test	2.1	4.3	2.2



WHAT WE LEARNED...

Taking Charge: Do you intend to do the following?

N=48

	No	Maybe	Yes	Already doing this
Develop a personal protective equipment protocol?	3	3	34	5
Complete medical clearance prior to using a respirator?	2	7	30	6
Clean & store respirators after ea. use	1	1	25	13
Conduct training on respirator use & care for employees?	2	4	23	3
Conduct respirator fit tests for employees?	7	11	27	3

Did the training workshop meet your expectation?

Yes = 48

No =

Would you recommend this training workshop to others? If not, why?

Yes = 47

No =

Comment : Excellent

A FEW COMMENTS FROM PARTICIPANTS

- Everything, especially the Southern Accent
- Fitting & medical evaluation, Depth of information, hands on approach, Very detailed training and excellent knowledgeable instructors
- Great presentation, interaction, small group with a lot of information, hands-on
- Presenters adapted to needs & questions of participants
- Organized, Everything was spelled out easy to understand/Very informative, small groups
- Very practical, hands-on approach, excellent presenters
- I like the entire workshop because I was not aware about most things discussed
- Resources given

WHAT WE LEARNED...

DEMOGRAPHICS:

What is your gender?

Male = 37

Female = 11

How do you identify yourself?

African American___ American Indian/Alaskan___ aAsian___ Hispanic/Latino 1 White 44

Native Hawaiian/Pacific Islander___ Other___

Which of the following commodities can be found on your farm? Check all that apply

10 Fruit

8 Row Crops

16 Ornamentals/nursery

9 Vegetables

2 Poultry

1 Christmas Trees

3 Cattle

14 Other



WHAT WE LEARNED...

- Concern about low attendance and some thoughts about why:
 - Didn't get notice of workshops out with enough time for growers to plan to attend? Maybe.
 - Cost? Don't think so.
 - Location? Don't think so.
- After talking with several growers I learned that they feel there is less risk of a problem if they send their pesticide handlers to a doctor for fit testing.
- They only have 1 or 2 people who will need fit testing, no big deal, just another hassle.
- Question: What does this mean for larger states?

Worker Protection
Standard (WPS)
Respiratory
Protection Guide



Requirements for Employers of
Pesticide Handlers

