

Is Pest Management Possible in the Post-FQPA Era ?

Food Processing Industry's Perspectives

Jerry Heaps

THE PILLSBURY COMPANY
MINNEAPOLIS, MN

Production of Unadulterated Food

- ◆ No changes as far as our legal need to protect food produced from being adulterated, according to the Food, Drug and Cosmetic Act of 1938
- ◆ Food should also be free from adulteration in distribution channels

Understand Pests

- ◆ Think like a pest, be it an insect, rodent, bird or microbe
- ◆ A thorough knowledge of their biology, ecology and behavior is important for their management

Use Integrated Pest Management

- ◆ Targeted pest management
- ◆ Food, harborage, warmth and water
- ◆ Don't just treat or remedy problems, eliminate underlying root causes



Monitor Pests Outdoors

- ◆ Intercept them before they enter the food plant

Documentation

- ◆ Keep records of all work done and all pesticides used
- ◆ Few EPA labeled pesticides will be available; however, they may be strictly controlled and monitored
- ◆ More paperwork



Fulfill Emotional Needs of the Public

- ◆ More educated about pesticides
- ◆ Need to be well informed



Use Non-Chemicals

- ◆ All non-Chemicals must be the first choice

Training

- ◆ Pesticide applicators must be licensed/certified/trained
- ◆ Pre-notification/posting **BEFORE** pesticide applications

Time and Effort

- ◆ Pest management is time consuming.
- ◆ Greater documentation
- ◆ Greater costs
- ◆ Can PMPs survive?



Back to the Basics

- ◆ Sanitary design
- ◆ GMPs
- ◆ Prevention is the key!

Consequences

- ◆ Bad news travels faster than good news.
- ◆ Use the public relation tools to promote good pesticide or environmental stewardship.

Technological Advancements

- ◆ Pheromone trapping will become better and more precise.
- ◆ Pesticide formulators will use less percentage of active ingredients.
- ◆ Greater use of baits
- ◆ Habitat modification

Methyl Bromide Survey

- ◆ Total number of companies surveyed: 77
- ◆ Total number of returned questionnaires: 44
(55.9% return rate)

The withdrawal of methyl bromide is progressing as planned

- ◆ **Which of the following responses best describes your likely use of methyl bromide in the next 12 months?**

Responses	Percentage of total respondents
a) Will use no methyl bromide	25.0
b) Will likely use at least some methyl bromide, and we are satisfied with it	61.4
c) Will likely use some methyl bromide, but we would prefer to use alternatives	13.6

Regardless of whether or not you rely on methyl bromide currently, which of the following statements best describes your opinion about the current status of potential?

Responses	Percentage of total respondents
a) Satisfactory alternative options exist today	6.8
b) Some potential alternatives have been identified, but they are not viable at this time	68.2
c) No potential alternatives have been identified	25.0

Regardless of whether or not you rely on methyl bromide currently, which of the following statements best describes your opinion about the need for identifying additional treatment options?

Responses	Percentage of total respondents
a) Additional alternatives are need to replace methyl bromide	88.6
b) Additional alternatives are not required to get by, but finding more options is important	9.1
c) No potential alternatives have been identified	2.3

How valuable would each of the below areas of research would be to you and your operation?

Responses	Critical (1)	Very Valuable (2)	Somewhat Valuable (3)	Not Very Valuable (4)	Not AT All Willing (5)
a) Treatment efficacy	61.4	29.5	6.8	0.0	0.0
b) Insect population rebound	20.5	52.3	22.7	2.3	0.0
c) Insect species susceptibility to treatments	29.5	45.5	18.2	2.3	0.0
d) Monitoring to predict pest problems, Required level of control	6.8	43.2	34.1	9.1	2.3
e) Insect activity level required to trigger a large scale treatment	11.4	34.1	31.8	15.9	4.5

In the absence of methyl bromide, what pest management techniques and methods would you use?

	Phostoxin	Vikane	CO2	Sanitation	Heat
%	50.0	9.1	13.6	43.2	54.5
	Fumigation	Vapona (DDVP)	IGRs	IPM	Fogging
%	18.2	13.6	2.3	18.2	18.2
	Inspection	DE	Tempo	Pest proofing bldg.	Precision targeting
%	22.7	2.3	2.3	4.5	2.3

In the absence of methyl bromide, what pest management techniques and methods would you use? (cont.)

	GMO	Impact machines	Existing pesticides	Short-term storage
%	2.3	2.3	18.2	2.3
	Traps	EcoFume	Cooling	Receiving insect free
%	9.1	4.5	4.5	4.5

Thanks !

Questions ?