



# Turning Point Data from Pesticide Recertification Classes

## *Summary Comparison of 2008-2009 and 2009-2010*

### **Preliminary Comparative Summary**

Data were gathered on knowledge of insecticide use and orchard IPM among 788 participants in Spanish language pesticide license recertification classes in 2009-10. These data are presented in the left hand column of each page of this report, and are compared with similar data gathered in 2008-09 from 982 respondents, as presented in the right column. All data were self-reported using the Turning Point audience response system.

Because each recertification class presentation was allotted a different time slot and was part of a different larger context, some questions were asked in certain sessions but not in others, or in one year but not the next. These differences are noted above each question. Note too that the last two pages of this report focus on the Decision Aid System and on knowledge of beneficial insects, questions asked only in 2009-10 and in particular sessions.

Comparing 2009-10 with 2008-09, responses were similar in many ways. Respondents worked primarily with tree fruit (79% and 73%, respectively), as pesticide applicators (38%, 36%) or supervisors (22%, 33%). Most applied pesticides as part of their jobs (73%, 71%) and many supervised people applying pesticides (43%, 47%). Most had worked with the pesticide Guthion (72%, 70%), and knew that it was being phased out (82%, 79%). Many knew how to manage crop production without Guthion (46%, 40%), a number that rose when including those who knew how to manage it “somewhat” (55%, 52%). When the analysis was restricted to only those who indicated that managing crop production was actually part of their job, the percentage who felt able to do so without Guthion rose (57%, 52%; or 69%, 68% when the “somewhat” respondents were included). Most had worked with pheromones (77%, 74%) and over half knew what IPM was (52%, 54%; this number rose to 68% when those who knew “somewhat” what IPM was were also included).

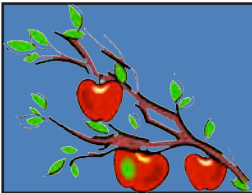
In 2009-10, a larger percentage knew that 2012 was the last year Guthion could be used (69% compared with 52% in 2008-09). In addition, more people had worked with the alternative insecticides Delegate (58%

in 2009-10 compared to 47% in 2008-09), Altacor (42% compared to 25%), and Calypso (33% compared to 24%). The percentage of people who had worked with other new insecticides stayed constant (Assail 49-51%, Intrepid 41%, Rimon 28-29%, and Esteem 19-23%).

Pesticide safety data were fairly consistent from year to year (note that these questions were asked of relatively fewer respondents in 2009-10 than in 2008-09), with a few exceptions. In 2009-10, fewer respondents received pesticide information from their supervisors (31% compared with 49% in 2008-09) or took part in cholinesterase monitoring programs (43% compared with 57% in 2008-09). This may be in part because respondents in 2009-10 held slightly higher-level positions (19% were managers or growers in 2009-10 compared to 8% in 2008-09) in the orchard. Participants from both years' sessions reported finding recertification classes useful and also enjoying using the Turning Point system.

In general, then, there is still room for participants to learn more about how to use IPM strategies to manage crops without Guthion, but this learning process has certainly already begun. Although some respondents didn't know what IPM was, for example, they nevertheless had experience using IPM systems that included pheromones and alternative insecticides.

Note that because of the anonymous methods of data collection used, it is almost certain that some respondents participated in this survey exercise more than once, both from one year to the next and within the same year. As an indication, in 2009-10, 57% of respondents indicated that they had used Turning Point before, compared with 27% in the tail end of 2008-09 session). Nevertheless, data do provide a good sense of what participants in pesticide recertification classes know about the pest management transition and about pesticide safety, and indicate that information on these topics (the uses for which Turning Point has been employed thus far) has at least been reaching pesticide applicators and supervisors over the last two years.



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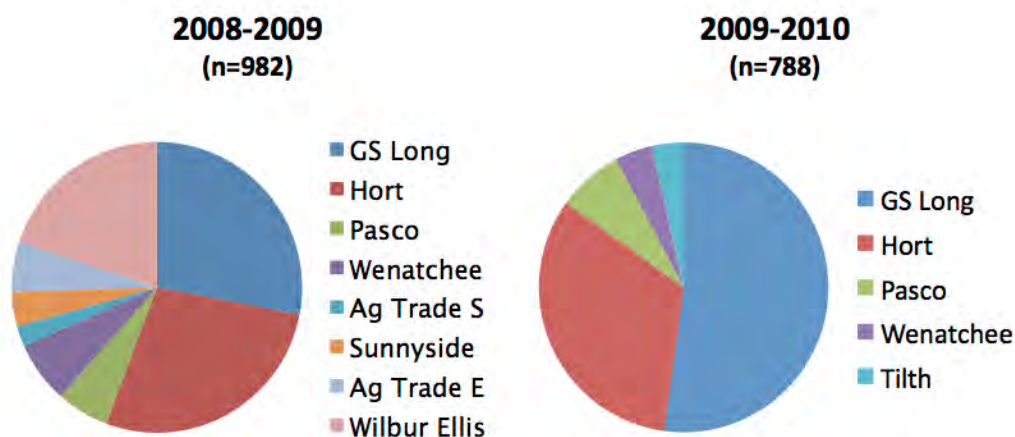
### Background and Demographic Questions

Each survey session began with general questions about the participants' role regarding pesticides and basic demographics. The results of those questions follow. All graphs represent the percent response data for each question.

#### *Number of respondents per meeting session*

Meeting	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2008-2009 Percent
GS Long Yakima	275	28	441	53.3
Horticultural Association Wenatchee (WSHA)	272	27.7	258	32.7
Wilbur Ellis Yakima	196	20.0	*	*
Wenatchee Recertification	68	6.9	33	4.2
Pasco Recertification	57	5.8	58	7.4
Pasco Ag Trade English	54	5.5	*	*
Pasco Ag Trade Spanish	22	2.2	*	*
Sunnyside Recertification	38	3.9	*	*
Tilth Producers Yakima	*	*	28	3.5
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>788</b>	<b>100.0</b>

\* Not all meetings were surveyed both years.





## Turning Point Data from Pesticide Recertification Classes

### *Summary Comparison of 2008-2009 and 2009-2010*

#### Background and Demographic Questions *cont.*

*What is your primary role at work?*

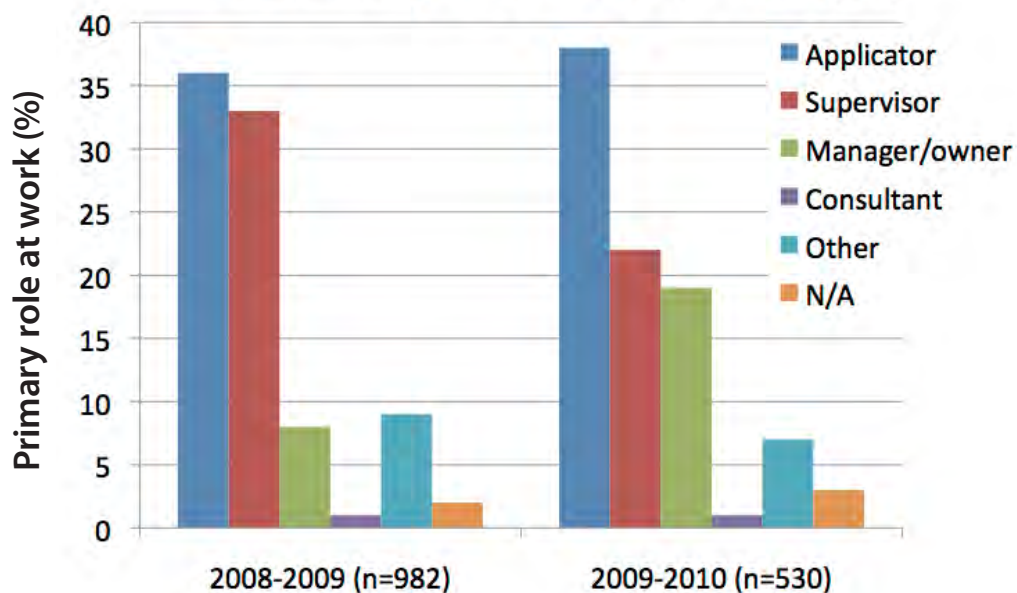
Role	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2008-2009 Percent
Pesticide applicator <sup>1</sup>	335	36.2	202	38.1
Supervisor	319	7.6	118	22.3
Owner/manager <sup>2</sup>	75	32.5	*	*
Manager	*	*	78	14.7
Grower (owner)	*	*	21	4.0
Consultant	7	0.7	5	0.9
Other	89	9.1	39	7.4
I don't work in orchards <sup>3</sup>	24	2.4	17	3.2
Missing (did not answer)	113	11.5	50	9.4
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>530</b>	<b>100.0</b>

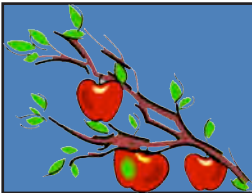
<sup>1</sup> At the 2008 WSHA and Wenatchee Recertification meetings, the option “pesticide applicator” was broken out into licensed and unlicensed pesticide applicators. Data here are combined.

<sup>2</sup> At the 2008 GS Long and Wenatchee Recertification meetings, the option “owner/manager” was broken down into owners and managers. Data here are combined.

<sup>3</sup> The option “I don’t work in orchards” was not available to the 54 respondents in the 2008 Pasco Ag Trade English session.

### Primary role at work (%)





## Turning Point Data from Pesticide Recertification Classes

### *Summary Comparison of 2008-2009 and 2009-2010*

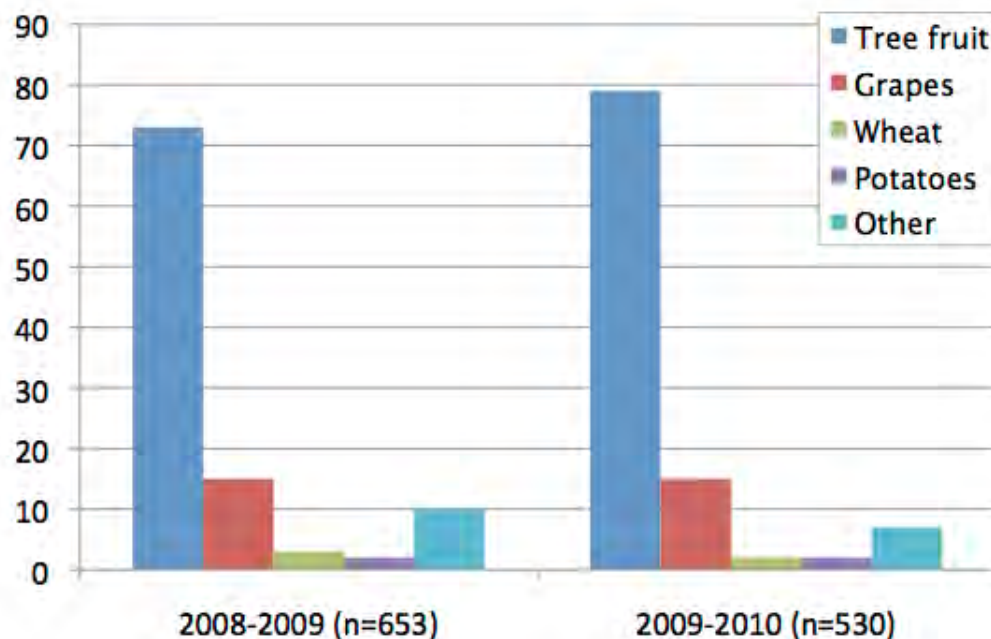
#### Background and Demographic Questions *cont.*

*What crops do you work with? (multiple answers allowed)*

Crop	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Tree fruit	478	73.2	419	79.1
Grapes	99	15.2	80	15.1
Wheat	22	3.4	12	2.3
Potatoes	14	2.1	10	1.9
Other	65	10.0	39	7.4
Missing (did not answer)	74	11.3	36	6.8
<b>Total responses</b>	<b>752<sup>1</sup></b>	<b>100.0</b>	<b>596<sup>2</sup></b>	<b>100.0</b>

<sup>1</sup> This question was not asked at the 2008 WSHA or Pasco recertification classes; total respondents = 653.

<sup>2</sup> This question was not asked at the 2009 WSHA meeting; total respondents = 530.





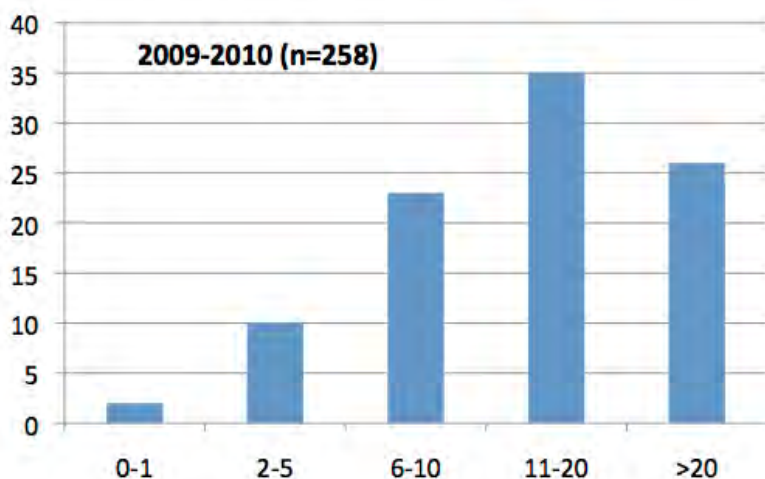
# Turning Point Data from Pesticide Recertification Classes

## *Summary Comparison of 2008-2009 and 2009-2010*

### Background and Demographic Questions *cont.*

*How many years of experience do you have in agriculture? (only asked at the 2009 WSHA meeting)*

Years Experience	2009-2010 Frequency	2009-2010 Percent
0-1	4	1.5
2-5	25	9.7
6-10	58	22.5
11-20	89	34.5
Over 20 years	68	26.4
Missing	14	5.4
<b>Total</b>	<b>258</b>	<b>100</b>



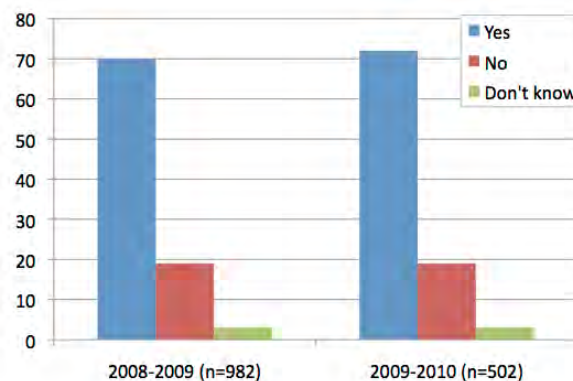
### AZM and Alternatives Questions

The following survey results correspond to the questions related to the participants' experience and understanding of Guthion (AZM) and their knowledge regarding alternatives. All graphs represent the percent response data for each question.

*Have you worked with the pesticide Guthion (AZM)?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	686	69.9	360	71.7
No	188	19.1	97	19.3
I don't know	29	3	17	3.4
Missing	79	8	28	5.6
<b>Total</b>	<b>982</b>	<b>100</b>	<b>502<sup>1</sup></b>	<b>100</b>

<sup>1</sup> Was not asked at the 2009 WSHA or 2010 Tilth meetings.







# Turning Point Data from Pesticide Recertification Classes

## Summary Comparison of 2008-2009 and 2009-2010

### AZM and Alternatives Questions *cont.*

*Did you already know that Guthion (AZM) is being phased out?*

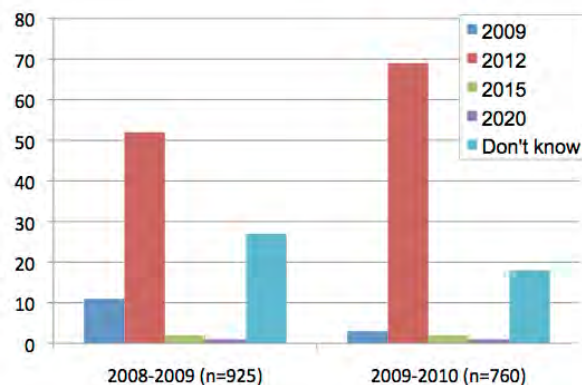
Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	777	79.1	409	81.5
No	144	14.7	55	10.9
Missing	61	6.2	38	7.6
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>502<sup>1</sup></b>	<b>100.0</b>

<sup>1</sup> Was not asked at 2009 WSHA or 2010 Tilth meetings.



*Until what year can you continue to use Guthion (AZM)?*

Final Year	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
2009	98	10.6	26	3.4
2012 *	483	52.2	522	68.7
2015	17	1.8	15	2.0
2020	6	0.7	8	1.0
I don't know	251	27.1	135	17.8
Missing	70	7.6	54	7.1
<b>Total</b>	<b>925<sup>1</sup></b>	<b>100.0</b>	<b>760<sup>2</sup></b>	<b>100.0</b>



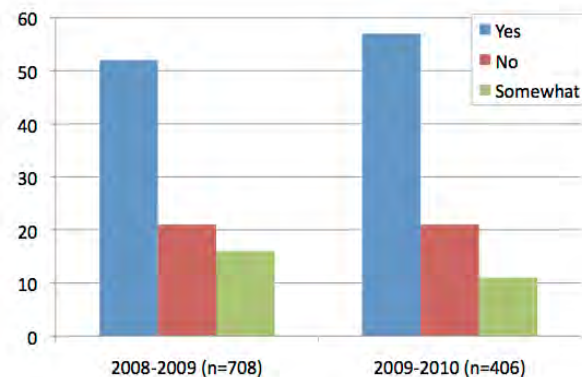
\* Correct answer

<sup>1</sup> Was not asked at the 2008 Pasco recertification meeting.

<sup>2</sup> Was not asked at the 2010 Tilth meeting.

*Do you know how to manage crop production without Guthion (AZM)?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	370	52.3	233	57.4
No	148	20.9	85	20.9
Somewhat	114	16.1	45	11.1
Missing	76	10.7	43	10.6
<b>Total<sup>1</sup></b>	<b>708<sup>2</sup></b>	<b>100.0</b>	<b>502<sup>3</sup></b>	<b>100.0</b>



<sup>1</sup> Response of N/A were eliminated for better comparison.

<sup>2</sup> Was not asked at the 2008 Pasco recertification meeting.

<sup>3</sup> Was not asked at the 2009 WSHA or 2010 Tilth meetings.

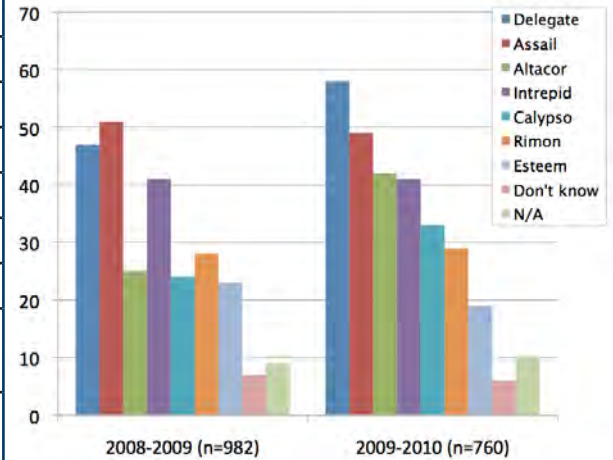


# Turning Point Data from Pesticide Recertification Classes

## Summary Comparison of 2008-2009 and 2009-2010

*Have you worked with any of these pesticides?* (multiple answers allowed)

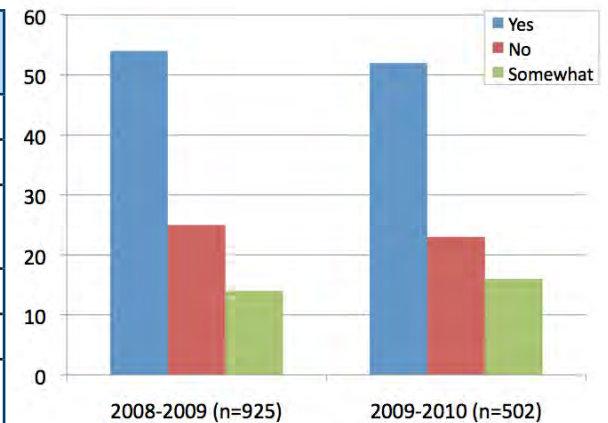
Pesticide	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Delegate	458	46.6	439	57.8
Assail	201	51.0	375	49.3
Altacor	249	25.4	322	42.4
Intrepid	405	41.2	311	40.9
Calypso	237	24.1	253	33.3
Rimon	276	28.1	220	28.9
Esteem	222	22.6	146	19.2
I don't know	72	7.3	44	5.8
I don't work with pesticides	67	8.9	75	9.9
Missing	123	12.5	57	7.5
<b>Total</b>	<b>982</b>		<b>760<sup>1</sup></b>	



<sup>1</sup> Was not asked at the 2010 Tilth meeting.

*Have you used pheromones?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	684	73.9	582	76.6
No	140	15.1	100	13.2
I don't know	32	3.5	24	3.1
Missing	69	7.5	54	7.1
<b>Total</b>	<b>925<sup>1</sup></b>	<b>100.0</b>	<b>760<sup>2</sup></b>	<b>100.0</b>

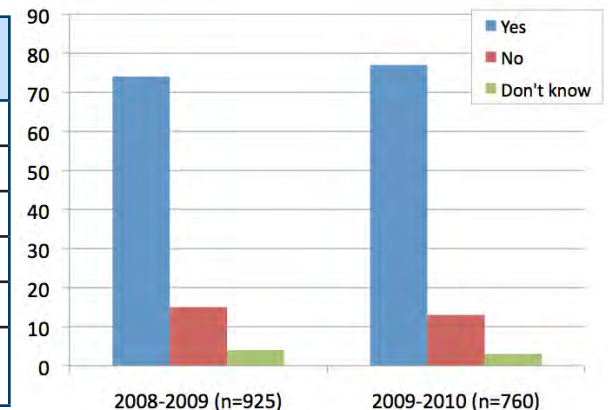


<sup>1</sup> Was not asked at 2008 Pasco recertification meeting.

<sup>2</sup> Was not asked at the 2009 WSHA or 2010 Tilth meetings.

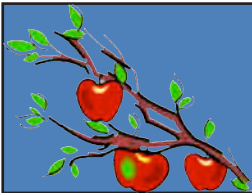
*Do you know what Integrated Pest Management (IPM) is?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	496	53.6	262	52.2
No	227	24.5	116	23.1
Somewhat	133	14.4	81	16.1
Missing	69	7.5	43	8.6
<b>Total</b>	<b>925<sup>1</sup></b>	<b>100.0</b>	<b>502<sup>2</sup></b>	<b>100.0</b>



<sup>1</sup> Was not asked at the 2008 Pasco recertification meeting.

<sup>2</sup> Was not asked at the 2009 WSHA or 2010 Tilth meetings.



# Turning Point Data from Pesticide Recertification Classes

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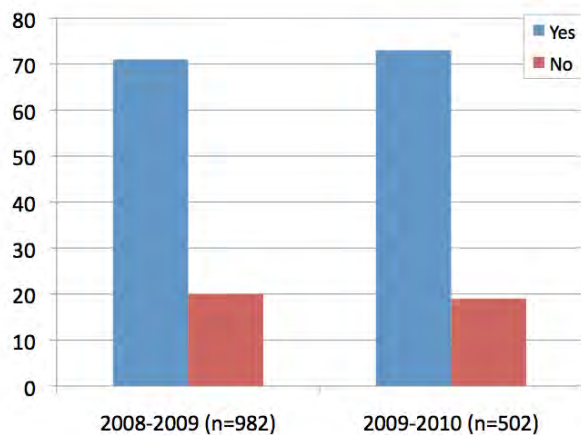
### Pesticide Safety Questions

The following survey results correspond to the questions related to participants' experience and understanding of pesticide safety including handling and labeling. All graphs represent the percent data for each question.

#### *Do you apply pesticides as part of your job?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	693	70.6	365	72.7
No	199	20.3	97	19.3
Missing	90	9.1	40	8.0
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>502<sup>1</sup></b>	<b>100.0</b>

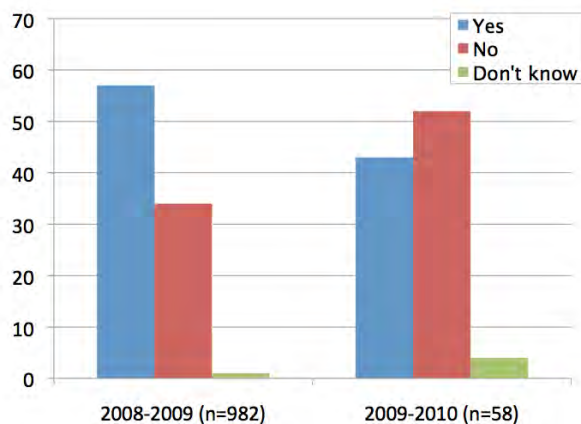
<sup>1</sup> Was not asked at the 2010 Tilth meeting during this survey period.



#### *Have you been part of cholinesterase testing/monitoring program?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	562	57.2	25	43.1
No	329	33.5	30	51.7
I don't know	11	1.1	2	3.5
Missing	80	8.2	1	1.7
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>58<sup>1</sup></b>	<b>100.0</b>

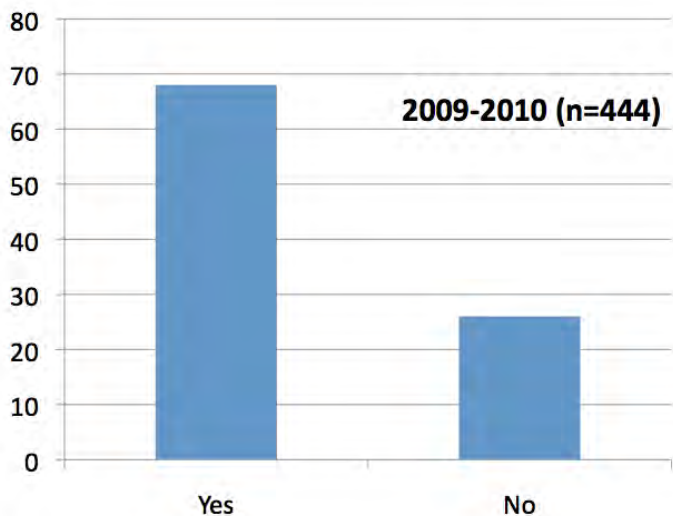
<sup>1</sup> Was only asked at the Pasco recertification meeting during this survey period.



#### *Do you have a pesticide applicators license?*

Response	2009-2010 Frequency	2009-2010 Percent
Yes	302	68.0
No	113	25.5
Missing	29	6.5
<b>Total<sup>1</sup></b>	<b>444</b>	<b>100.0</b>

<sup>1</sup> Was only asked at the 2010 GS Long and Wenatchee recertification meetings..







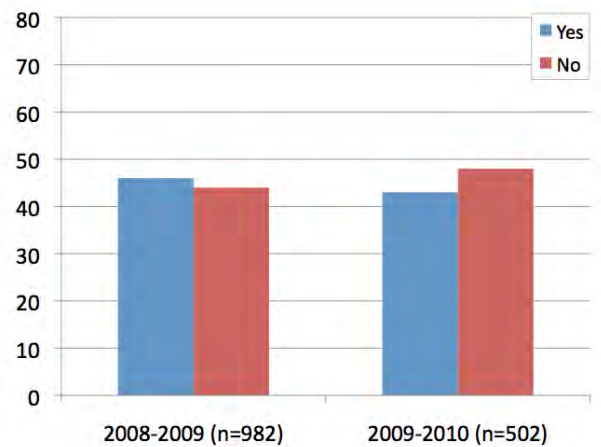
# Turning Point Data from Pesticide Recertification Classes

## Summary Comparison of 2008-2009 and 2009-2010

### Do you supervise people who apply pesticides?

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	447	45.5	214	42.6
No	435	44.3	241	48.0
Missing	100	10.2	47	9.4
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>502<sup>1</sup></b>	<b>100.0</b>

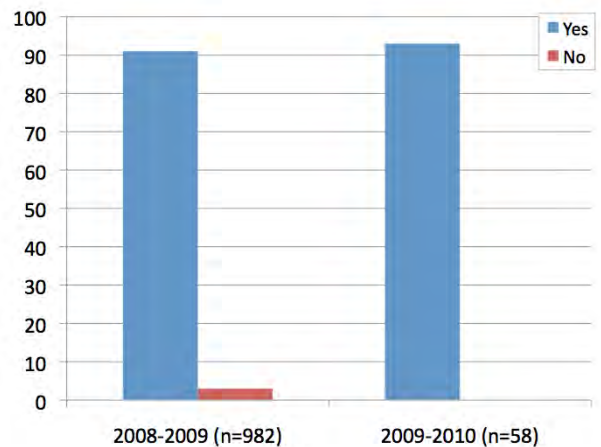
<sup>1</sup> Was not asked at the 2009 WSHA or 2010 Tilth meetings during this survey period.



### Do you know how to check what kinds of personal protective equipment (PPE) you need to use with a pesticide?

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	895	91.1	54	93.1
No	30	3.1	0	0
Missing	57	5.8	4	6.9
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>58<sup>1</sup></b>	<b>100.0</b>

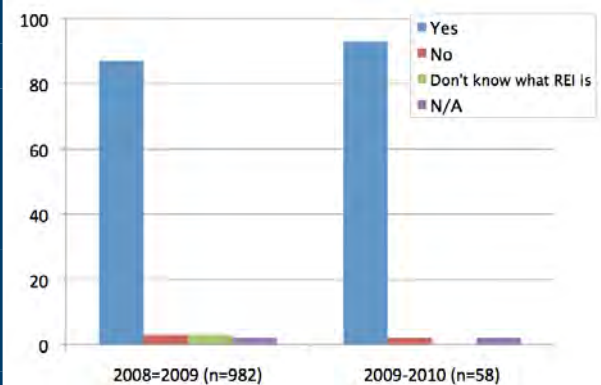
<sup>1</sup> Was only asked at the Pasco recertification meeting during this survey period.



### When you work with pesticides, do you know the re-entry interval (REI) for the product?

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	849	86.5	54	93.1
No	27	2.75	1	1.7
I don't know what REI means	27	2.75	0	0
I don't work with pesticides	22	2.2	1	1.7
Missing	57	5.8	2	3.5
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>58<sup>1</sup></b>	<b>100.0</b>

<sup>1</sup> Was only asked at the Pasco recertification meeting during this survey period.





## Turning Point Data from Pesticide Recertification Classes

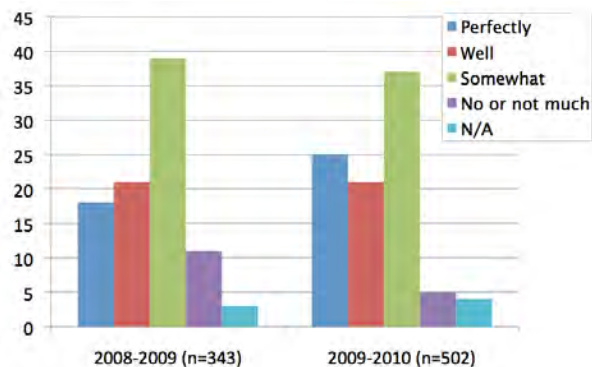
### *Summary Comparison of 2008-2009 and 2009-2010*

#### **Pesticide Safety Questions *cont.***

*When you work with pesticides, how well do you understand the labels?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Perfectly	60	17.5	126	25.1
Well	73	21.3	104	20.7
Somewhat	134	39	187	37.2
Not much	39	11.4	27	5.4
N/A (don't work with pesticides)	10	2.9	19	3.8
Missing	27	7.9	39	7.8
<b>Total</b>	<b>343<sup>1</sup></b>	<b>100.0</b>	<b>502<sup>2</sup></b>	<b>100.0</b>

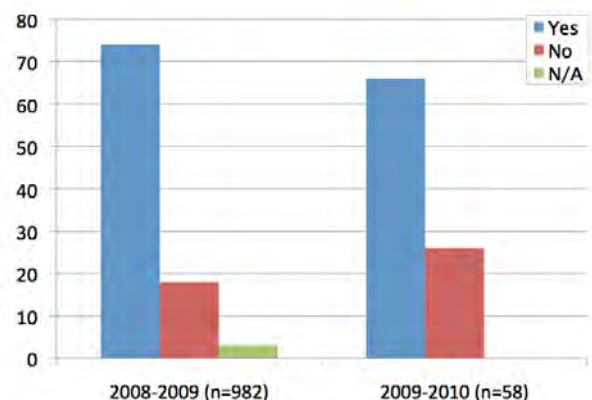
<sup>1</sup> Was only asked at the 2008 WSHA and 2009 GSL meetings during this survey period.  
<sup>2</sup> Was not asked at the 2009 WSHA or 2010 Tilth meetings during this survey period.



*Do you get asked questions at work about the pesticides that are being used?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	772	73.5	38	65.5
No	178	18.1	15	25.9
I don't work with pesticides	25	2.6	0	0
Missing	57	5.8	5	8.6
<b>Total</b>	<b>982</b>	<b>100</b>	<b>58<sup>1</sup></b>	<b>100</b>

<sup>1</sup> Was only asked at the 2010 Pasco recertification meeting during this survey period.





# Turning Point Data from Pesticide Recertification Classes

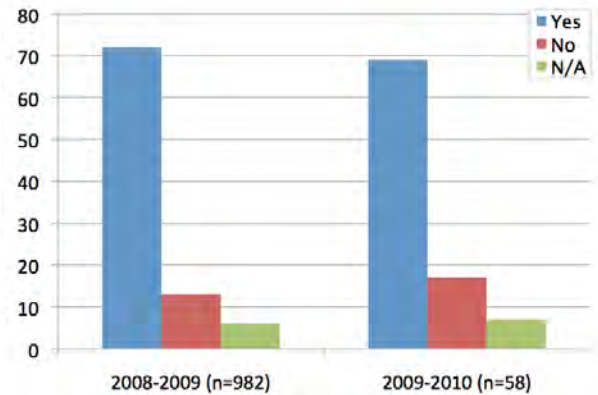
## Summary Comparison of 2008-2009 and 2009-2010

### Pesticide Safety Questions *cont.*

*If you get asked questions at work, do you have enough information to answer them?*

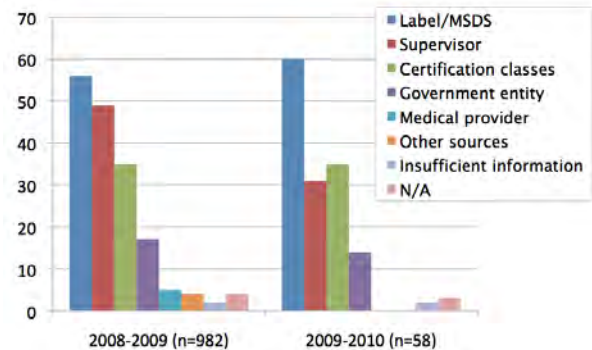
Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	705	71.5	40	69.0
No	130	13.2	10	17.2
I don't answer such questions	62	6.3	4	6.9
Missing	85	8.7	4	6.9
<b>Total</b>	<b>982</b>	<b>100.0</b>	<b>58<sup>1</sup></b>	<b>100.0</b>

<sup>1</sup> Was only asked at the 2010 Pasco recertification meeting during this survey period.



*If you get asked questions at work, do you have enough information to answer them?*

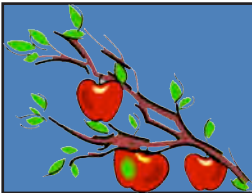
Information Source	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Label/MSDS	548	55.8	35	60.3
My supervisor	479	48.8	18	31.0
Certification classes	339	34.5	20	34.5
Gov. entity <sup>1</sup>	169	17.2	8	13.8
Medical provider	49	5.0	0	0
Other	38	3.9	0	0
I don't receive the info I need	22	2.2	1	1.7
I don't work with pesticides <sup>2</sup>	38	3.9	2	3.4
Missing	70	7.1	4	6.9
<b>Total</b>	<b>982</b>		<b>58<sup>3</sup></b>	



<sup>1</sup> Gov entity = DOH, WSDA, L&I, WSU, UW, etc.

<sup>2</sup> The option "I don't work with pesticides" was not offered at the 2009 Sunnyside and 2010 Pasco recertification meetings.

<sup>3</sup> Was only asked at the Pasco recertification meeting during this survey period.



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### *Summary Comparison of 2008-2009 and 2009-2010*

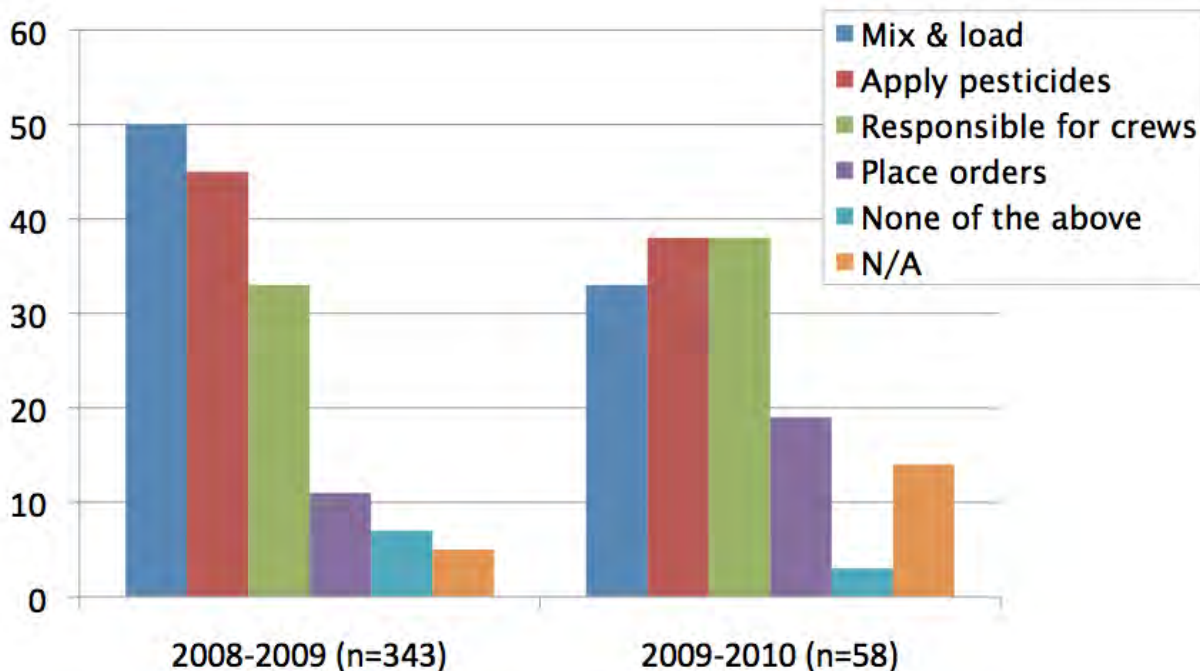
#### Pesticide Safety Questions *cont.*

*How do you interact with pesticides at work?* (multiple answers allowed)

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
I mix and load	172	50.1	19	32.8
I apply pesticides	155	45.2	22	37.9
I mix, load and apply	142	41.4	*	*
I'm responsible for spray crews & applications	113	23.9	22	37.9
I order pesticides	39	11.4	11	19.0
None of the above	25	7.3	2	3.4
I don't work with pesticides	17	5.0	8	13.8
Missing	32	9.3	2	3.4
<b>Total Respondents</b>	<b>343</b>		<b>58<sup>1</sup></b>	

\* The answer choice "I mix, load and apply" was not available during this survey period.

<sup>1</sup> Was only asked at the 2010 Pasco recertification meeting during this survey period.





# Turning Point Data from Pesticide Recertification Classes

## *Summary Comparison of 2008-2009 and 2009-2010*

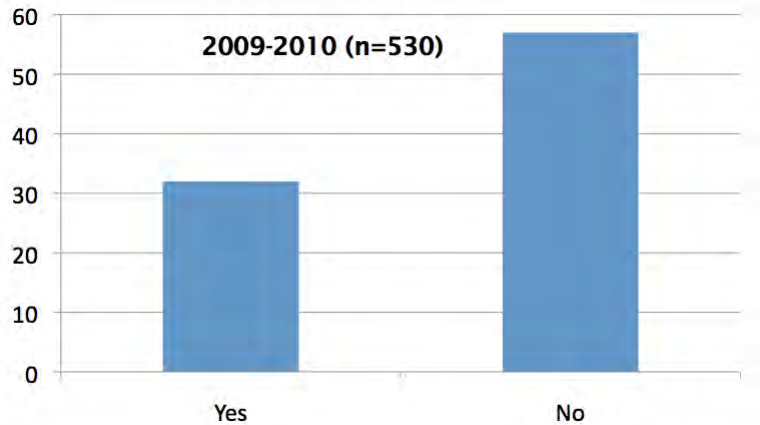
### Decision Aid System (DAS) Usage Questions

The following survey results correspond to the questions related to participants' experience and understanding of the WSU Decision Aid System (DAS). This question set was not asked during the 2008-2009 Audience Survey period nor at the 2009 WSHA meeting. All graphs represent the percent data for each question.

#### *Had you heard about the WSU Decision Aid System (DAS) before today?*

Response	2009-2010 Frequency	2009-2010 Percent
Yes	169	31.9
No	302	57.0
Missing	59	11.1
<b>Total</b>	<b>530<sup>1</sup></b>	<b>100.0</b>

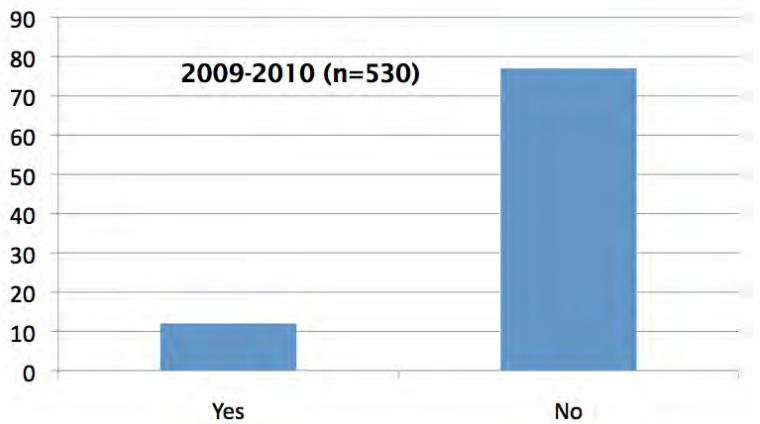
<sup>1</sup> Was not asked at the 2009 WSHA meeting nor during the 2008-2009 survey period.



#### *Do you use DAS?*

Response	2009-2010 Frequency	2009-2010 Percent
Yes	61	11.5
No	410	77.4
Missing	59	11.1
<b>Total</b>	<b>530<sup>1</sup></b>	<b>100.0</b>

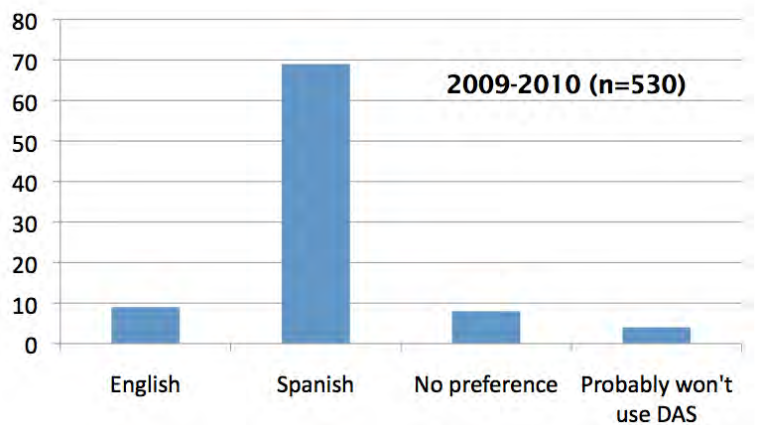
<sup>1</sup> Was not asked at the 2009 WSHA meeting nor during the 2008-2009 survey period.



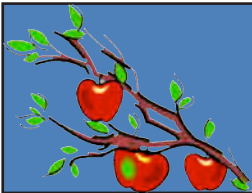
#### *Would you prefer to use DAS in English or Spanish?*

Preference	2009-2010 Frequency	2009-2010 Percent
In English	48	9.1
In Spanish	366	69.0
No preference	42	7.9
I don't think I will use DAS	20	3.8
Missing	54	10.2
<b>Total</b>	<b>530<sup>1</sup></b>	<b>100.0</b>

<sup>1</sup> Was not asked at the 2009 WSHA meeting nor during the 2008-2009 survey period.







# Turning Point Data from Pesticide Recertification Classes

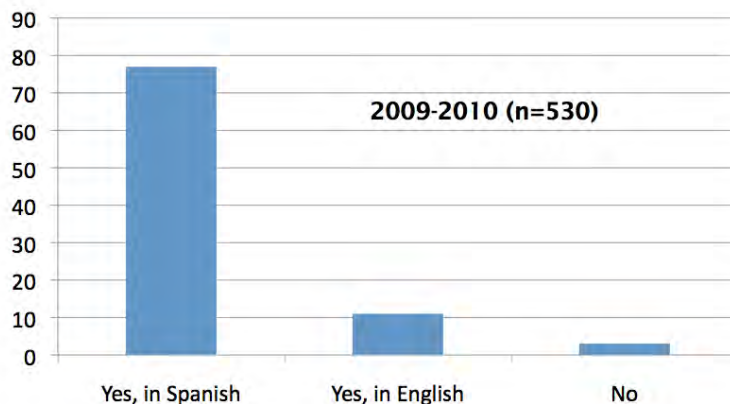
## Summary Comparison of 2008-2009 and 2009-2010

### Decision Aid System (DAS) Usage Questions *cont.*

*Would you like to learn DAS in a workshop?*

Preference	2009-2010 Frequency	2009-2010 Percent
Yes, in Spanish	407	76.8
Yes, in English	59	11.1
No	17	3.2
Missing	47	8.9
<b>Total</b>	<b>530<sup>1</sup></b>	<b>100.0</b>

<sup>1</sup> Was not asked at the 2009 WSHA meeting nor during the 2008-2009 survey period.

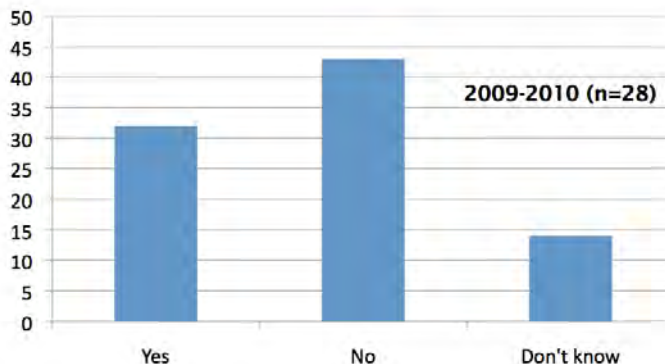


### Beneficial Insects and Biological Control Practices Questions

The following survey results correspond to the questions related to participants' knowledge of the beneficial insects and biological control practices. This question set was only asked at the 2010 Tilth meeting. All graphs represent the percent data for each question.

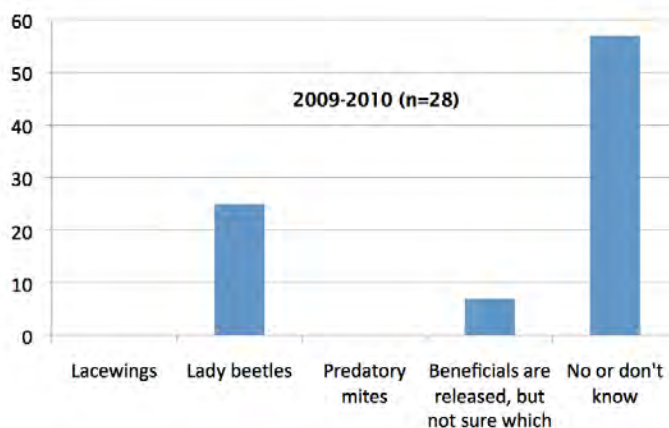
*Do you work in an orchard in which beneficial insects or mites are released to improve pest control?*

Preference	2009-2010 Frequency	2009-2010 Percent
Yes	9	32.1
No	12	42.9
I don't know	4	14.3
Missing	3	10.7
<b>Total</b>	<b>28</b>	<b>100.0</b>



*Which of these beneficial insects or mites are released in your orchard?* (multiple answers allowed)

Preference	2009-2010 Frequency	2009-2010 Percent
Lacewings	0	0
Lady beetles	7	25.0
Predatory mites	0	0
Beneficials are released, but I don't know which.	2	7.1
No or I don't know if beneficials are released.	16	57.1
Missing	4	14.3
<b>Total</b>	<b>28</b>	<b>100.0</b>





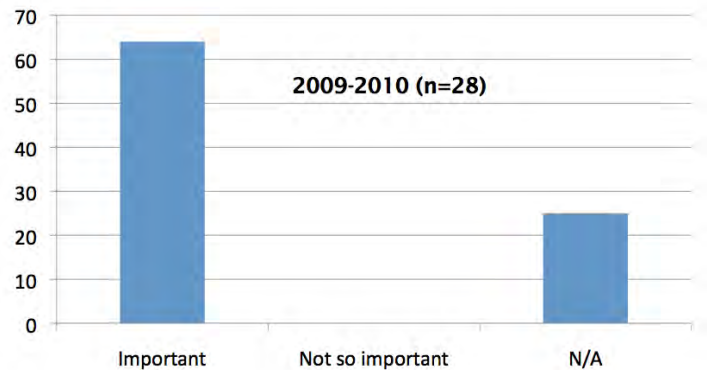
## Turning Point Data from Pesticide Recertification Classes

### *Summary Comparison of 2008-2009 and 2009-2010*

#### **Beneficial Insects and Biological Control Practices Questions *cont.***

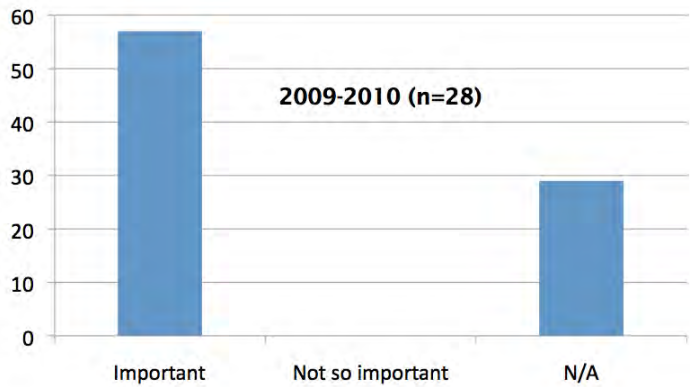
*If beneficials are released in your orchard, do you think it is important or not so important to research how to improve the release process?*

Preference	2009-2010 Frequency	2009-2010 Percent
I think its important	18	64.3
I don't think its so important	0	0
Beneficials aren't released where I work (N/A)	7	25
Missing	3	10.7
<b>Total</b>	<b>28</b>	<b>100</b>



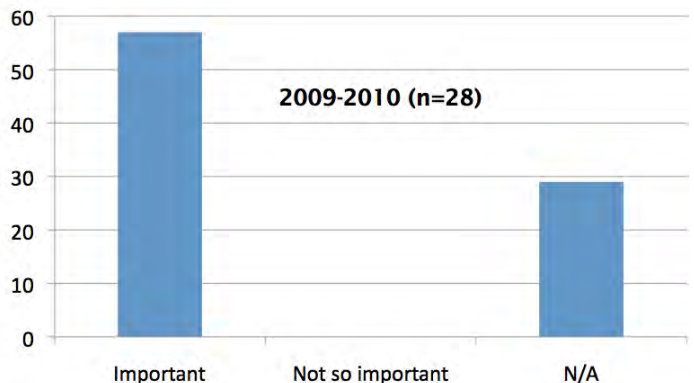
*If beneficials are released in your orchard, do you think it is important or not so important to research their efficacy?*

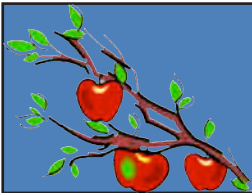
Preference	2009-2010 Frequency	2009-2010 Percent
I think its important	16	57.1
I don't think its so important	0	0
Beneficials aren't released where I work (N/A)	8	28.6
Missing	4	14.3
<b>Total</b>	<b>28</b>	<b>100.0</b>



*If beneficials are not released in your orchard, would you consider releasing them if there was good evidence of their efficacy?*

Preference	2009-2010 Frequency	2009-2010 Percent
Yes	23	82.1
No	0	0
Beneficials are released where I work	2	7.2
Missing	3	10.7
<b>Total</b>	<b>28</b>	<b>100.0</b>





# Turning Point Data from Pesticide Recertification Classes

## Summary Comparison of 2008-2009 and 2009-2010

### Meeting Feedback Questions

The following survey results correspond to the questions only asked at specific meetings regarding the respondents' past history with participating in a Turning Point audience response system survey and their purpose for attending the meeting. This question set was not asked during the 2008-2009 Audience Survey period nor at the 2009 WSHA meeting. All graphs represent the percent data for each question.

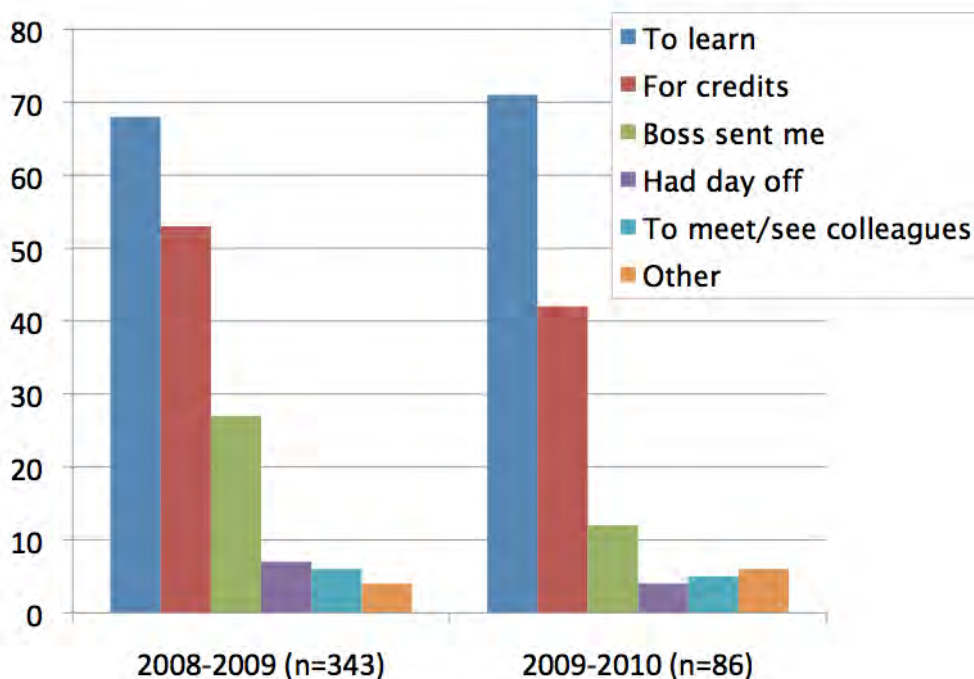
*Why did you come to this meeting today?* (multiple answers allowed)

Purpose	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
To learn	233	67.9	61	70.9
For the credits	181	52.8	36	41.9
My boss sent me	94	27.4	10	11.6
I had a day off of work	23	6.7	3	3.5
To meet and/or see colleagues	4 <sup>3</sup>	5.9	5	4.7
Other reasons	13	3.8	5	5.8
Missing	12	3.5	10	11.6
<b>Total respondents</b>	<b>343<sup>1</sup></b>		<b>86<sup>2</sup></b>	

<sup>1</sup> Responses from the GS Long and Wenatchee recertification meetings.

<sup>2</sup> Responses from the Pasco recertification and Tilth meetings.

<sup>3</sup> The answer "to meet and/or see colleagues" was not available at the 2009 GS Long meeting participants.





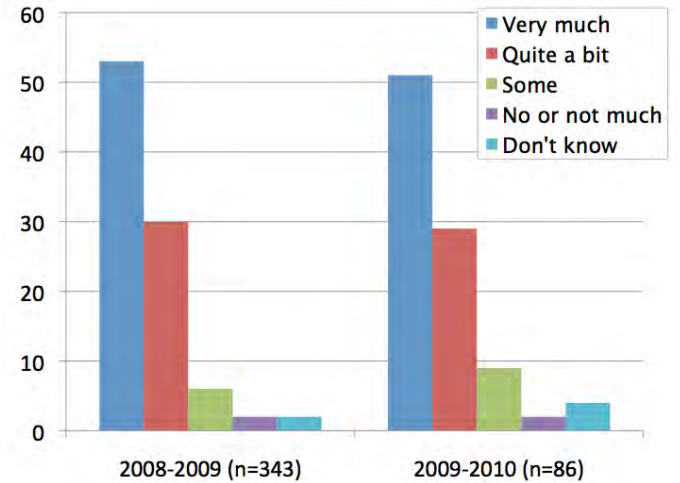
# Turning Point Data from Pesticide Recertification Classes

## Summary Comparison of 2008-2009 and 2009-2010

### Meeting Feedback Questions *cont.*

*Why did you come to this meeting today?* (multiple answers allowed)

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Very much	182	53.1	44	51.2
Quite a bit	102	29.7	25	29.1
Some	22	6.4	8	9.3
No or not much	5	1.5	2	2.3
I don't know	7	2	3	3.5
Missing	25	7.3	4	4.6
<b>Total</b>	<b>343<sup>1</sup></b>	<b>100</b>	<b>86<sup>2</sup></b>	<b>100</b>

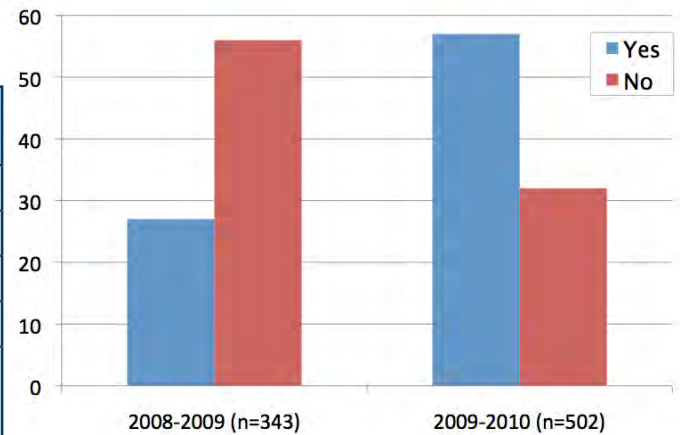


<sup>1</sup> Responses from the GS Long and Wenatchee recertification meetings.

<sup>2</sup> Responses from the Pasco recertification and Tilth meetings.

### *Have you used the Turning Point System before?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Yes	94	27.4	287	57.2
No	191	55.7	159	31.7
Missing	58	16.9	56	11.1
<b>Total</b>	<b>343<sup>1</sup></b>	<b>100</b>	<b>502<sup>2</sup></b>	<b>100</b>

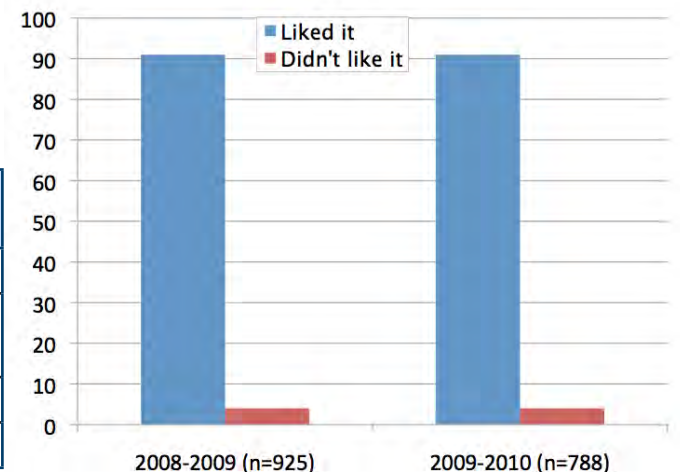


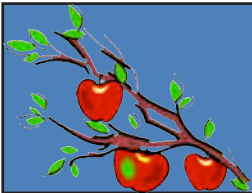
<sup>1</sup> Responses from the 2009 GS Long and Wenatchee recertification meetings.

<sup>2</sup> Was not asked at the 2010 Pasco recertification and 2009 WSHA meetings.

### *Did you like using the Turning Point System?*

Response	2008-2009 Frequency	2008-2009 Percent	2009-2010 Frequency	2009-2010 Percent
Liked it	845	91.4	718	91.1
Didn't like it	41	4.4	28	3.6
Missing	39	4.2	42	5.3
<b>Total</b>	<b>925</b>	<b>100</b>	<b>788</b>	<b>100</b>





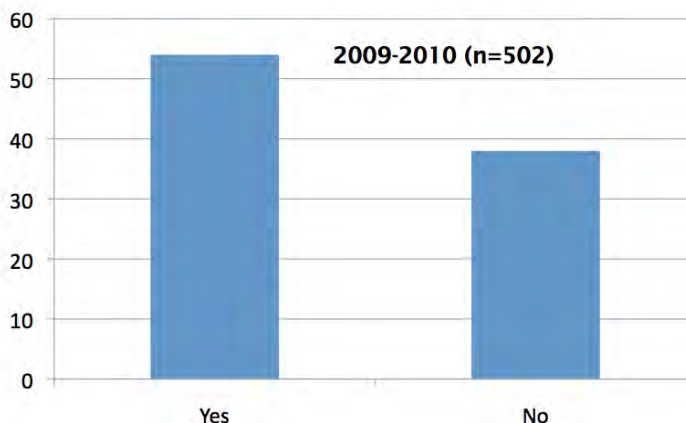
## Turning Point Data from Pesticide Recertification Classes

### *Summary Comparison of 2008-2009 and 2009-2010*

#### Meeting Feedback Questions *cont.*

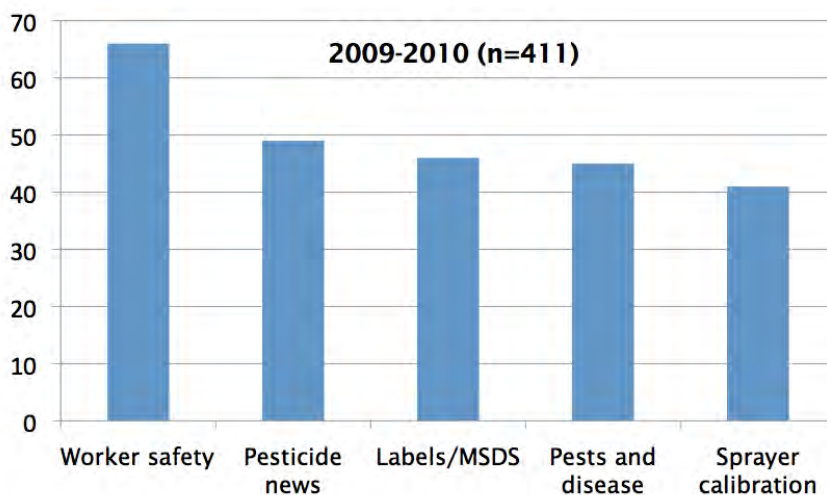
*Did you use the Turning Point system at this same meeting last year?*

Response	2009-2010 Frequency	2009-2010 Percent
Yes	271	54.0
No	191	38.0
Missing	40	8.0
<b>Total</b>	<b>502<sup>1</sup></b>	<b>100.0</b>
<sup>1</sup> This question was only asked during the 2009-2010 survey period and excluded the 2009 WSHA and 2010 Tilth meetings.		



*What types of information do you like learning in this meeting?* (multiple answers allowed)

Information Type	2009-2010 Frequency	2009-2010 Percent
Worker safety (PPE, respirators, cholinesterase, etc.)	270	65.7
Product/pesticide news	202	49.1
Understanding pesticide labels and MSDS	190	46.2
Pests and Disease	184	44.8
Airblast sprayer calibration	169	41.1
Missing	37	9.0
Total respondents	411 <sup>1</sup>	
<sup>1</sup> This question was only asked at the 2010 GS Long meeting.		







Turning Point Data from Pesticide Recertification Classes  
*Summary Comparison of 2008-2009 and 2009-2010*