

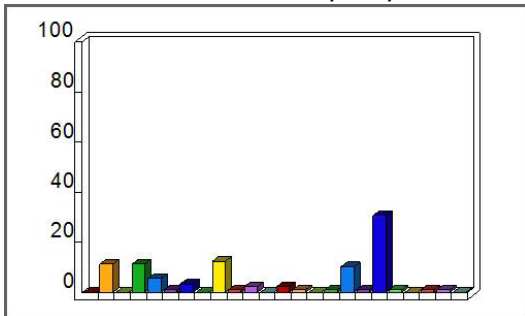
IPM Vegetable Program Survey

Jerry Brust and Teresa McCoy

May 2013

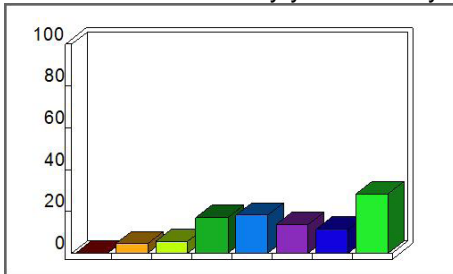
The University of Maryland Extension (UME) IPM Vegetable Program undertook a survey in January 2013 of the vegetable growers of Maryland. Surveys were mailed to a random representative number of growers throughout the state of Maryland to ascertain their perceptions and evaluation of the integrated pest management vegetable program. Growers filled out the 6 page 19 question survey and returned their responses anonymously to UME. These are the results of the survey. The questions asked and the percent responses of the growers are included for each inquiry. Growers did not have to answer a question if they did not want to. Any questions or comments about this survey can be directed to Jerry Brust at jbrust@umd.edu.

Question 1. In which county do you reside?



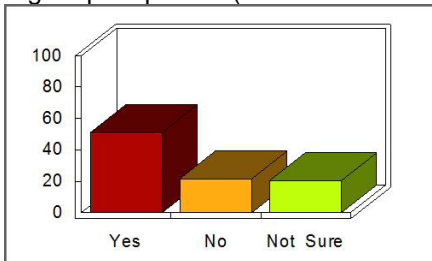
Response	Percent
Alleg	0.00
AA	9.36
BaltCity	0.00
BaltCo	10.36
Calvert	5.68
Caroline	4.14
Carroll	4.86
Cecil	1.14
Charles	10.50
Dorchester	5.14
Frederick	2.27
Garrett	0.00
Harford	2.27
Howard	2.14
Kent	2.14
Mont	3.41
PrinGeo	8.23
QAnne	2.14
St. Mary	27.14
Som	2.14
Talbot	0.00
Wash	1.14
Wic	3.14
Wor	2.14

Question 2. How many years have you been farming?



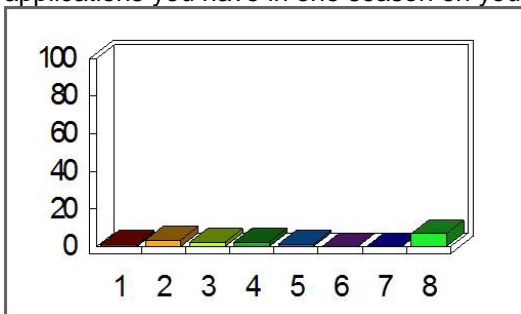
Response	Percent
Less than 1	0.00
1-5	4.55
6-10	5.68
11-15	17.05
16-20	18.18
21-25	13.64
26-30	11.36
30.00	28.41

Question 3. Information I have obtained over the last 4-5 years by attending IPM Vegetable presentations has reduced my use of high-risk pesticides. By high-risk pesticides, we mean pyrethroids (for example, Warrior and bifenthrin), organophosphates (such as Orthene and Diazinon), and Carbamates (such as Lannate and Carbaryl).



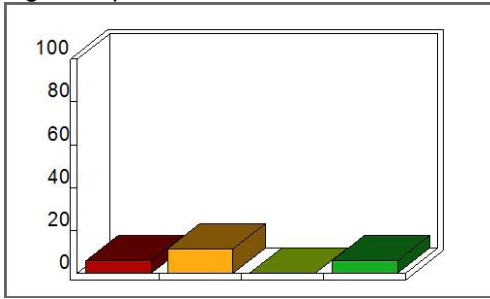
Response	Percent
Yes	51.14
No	21.59
Not Sure	20.45

Question 4. If you answered **NO** to question 3, please estimate, on average, how many high-risk pesticide applications you have in one season on your farm?



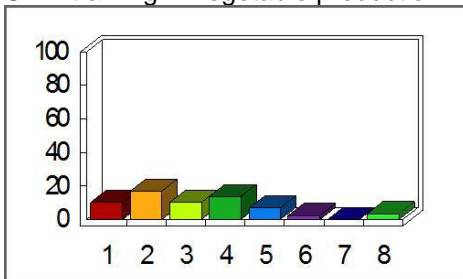
Response	Percent
1.00	1.14
2.00	3.41
3.00	2.27
4.00	2.27
5.00	1.14
6.00	0.00
7.00	0.00
8.00	6.82

Question 5. If you answered **NO** to question 3, please tell us what have been the barriers to DECREASING your use of high-risk pesticides.



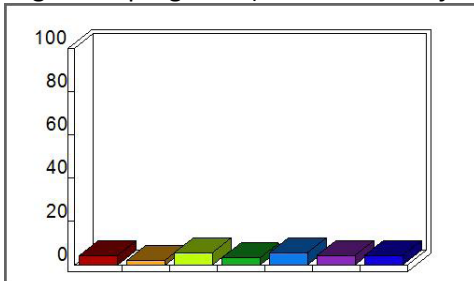
Response	Percent
Too Expensive	5.68
No good alternative	11.36
High-risk on hand	0.00
Other	5.68

Question 6. If you answered **YES** to question 3, please estimate, on average, how many high-risk pesticide applications you have been able to decrease on average in one season on your farm because of information you learned by attending UME training in vegetable production.



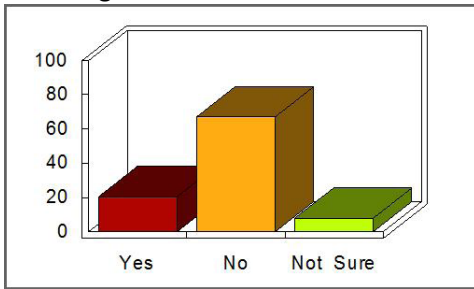
Response	Percent
1.00	13.23
2.00	17.05
3.00	12.23
4.00	15.64
5.00	6.82
6.00	2.27
7.00	1.05
8.00	3.41

Question 7. What changes in production practices have you implemented as a result of information from the IPM vegetable program? (*Fill in the circle for all that apply.*)



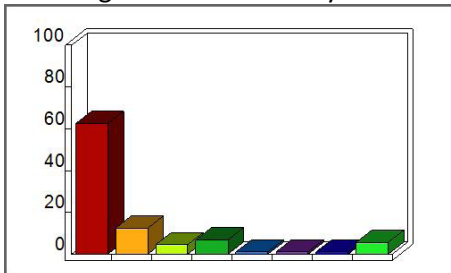
Response	Percent
Use more effective pesticides	4.55
Use fewer high risk pesticides	2.27
Use more cultural controls	9.68
Use fewer insecticides	3.41
Increased use of reduced risk	5.68
Time differently	4.55
No changes	2.55

Question 8. Has your use of high-risk pesticides **INCREASED** in the last three years because of the brown marmorated stink bug?



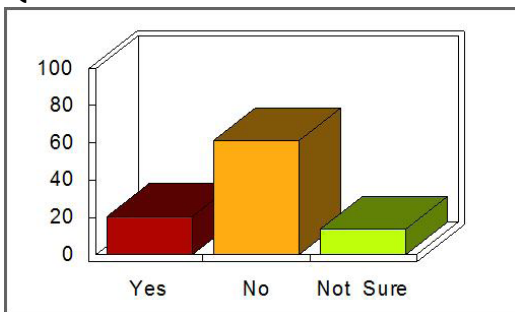
Response	Percent
Yes	20.45
No	67.05
Not Sure	7.95

Question 9. On average, how many **EXTRA** pesticide applications have you made specifically for brown marmorated stink bugs in the last three years?



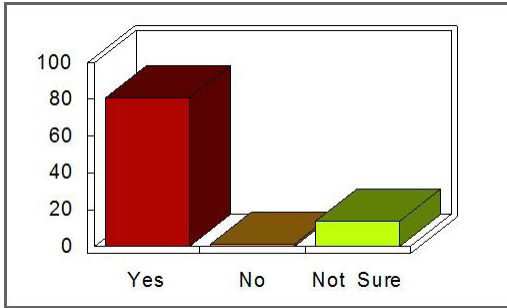
Response	Percent
0.00	62.50
1.00	12.50
2.00	4.55
3.00	6.82
4.00	1.14
5.00	1.14
6.00	1.14
More than 6	5.68

Question 10. Has the brown marmorated stink bug disrupted your IPM program in **VEGETABLES**?



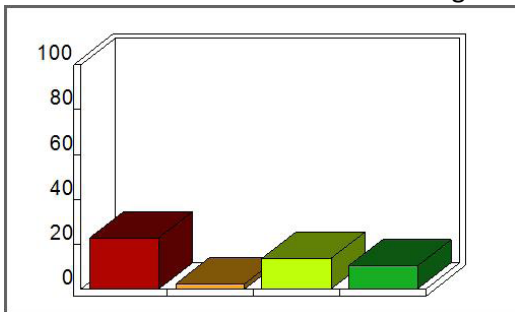
Response	Percent
Yes	20.45
No	61.36
Not Sure	13.64

Question 11. Has information from the UME IPM vegetable program **INCREASED** your knowledge about brown marmorated stink bug management in vegetables?



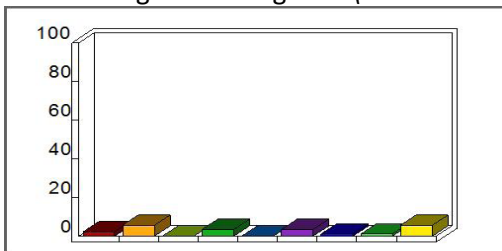
Response	Percent
Yes	80.68
No	1.14
Not Sure	13.64

Question 12. What changes in production practices for the brown marmorated stink bug have you implemented as a result of information from the IPM vegetable program? *(Fill in the circles for all that apply.)*



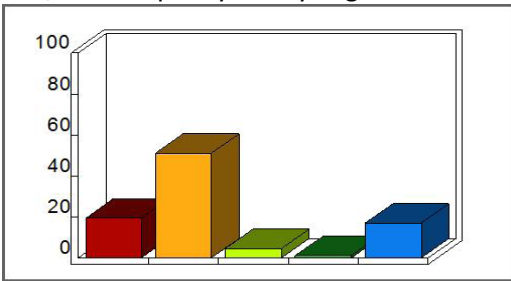
Response	Percent
More effective pesticides	22.73
Increased reduced risk	2.27
More cultural controls	13.64
Time differently	10.23

Question 13. What changes in horticultural production practices have you implemented as a result of information from the IPM Vegetable Program? *(Fill in the circles for all that apply.)*



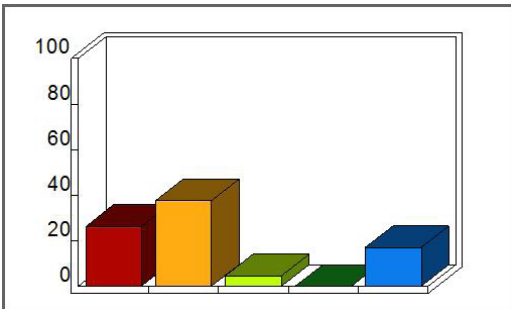
Response	Percent
Diff levels fertilizer	2.27
Diff ratios fertilizer	7.68
Diff veg varieties	1.41
Conduct more tissue tests	5.14
More cultural controls	1.14
Different cultural controls	3.14
Fertilize at diff times	1.14
No changes	1.68
Other	5.41

Question 14. Information from horticultural presentations by the IPM Vegetable Program has helped **INCREASE** yield and/or fruit quality on my vegetable farm.



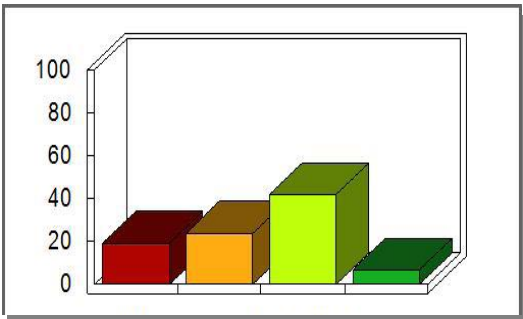
Response	Percent
Strongly Agree	19.32
Agree	51.14
Disagree	5.14
Strongly Disagree	1.14
Not Sure	17.05

Question 15. Based on information from the Vegetable Program, I have **REDUCED** my tomato ripening problems.



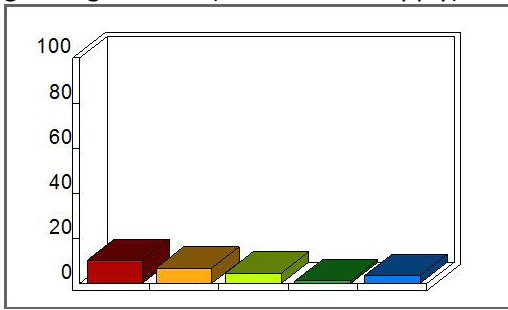
Response	Percent
Strongly Agree	28.14
Agree	37.50
Disagree	4.55
Strongly Disagree	0.00
Not Sure	15.05

Question 16. How many times during the growing season (on an annual basis), do you refer to UME publication EB-236 *Commercial Vegetable Production Recommendations*.



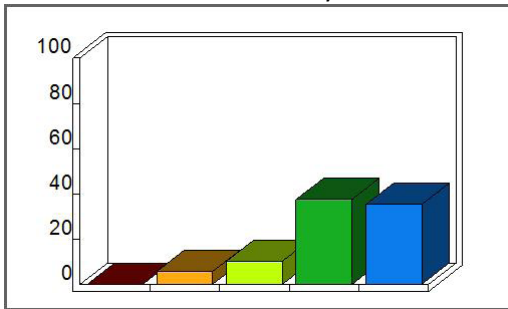
Response	Percent
1-4	19.32
5-9	23.86
10 or more	42.05
Do Not Refer	6.82

Question 17. What are some of the main reasons you use the EB-236 publication during the growing season? (Check all that apply).



Response	Percent
Insecticides registered	10.23
Alternative insecticides	6.82
Find fertilizer rates	4.55
Lower risk pesticides	1.14
Other	3.41

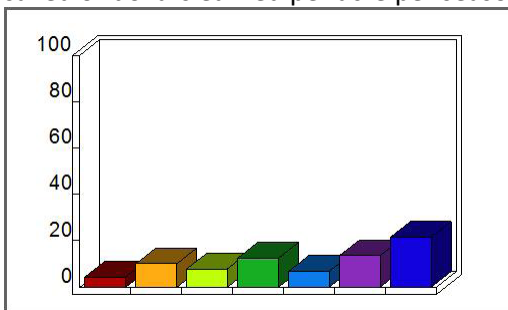
Question 18. How would you rate the value of the EB-236 publication to your farming operation?



Response	Percent
No value	0.00
Little value	5.68
Average value	10.23
Good value	37.50
Outstanding values	35.23

OVERALL ASSESSMENT OF IPM VEGETABLE PROGRAM

Question 19. Based on knowledge and skills you have obtained from IPM training sessions (horticulture, brown marmorated stink bugs, and pesticide use) over the last five years, what do you estimate to be the total value of dollars saved or dollars earned per acre per season? (Choose only **one** answer.)



Response	Percent
\$1-5	4.55
\$6-10	10.23
\$21-30	7.95
\$31-40	12.50
\$41-50	6.82
\$51-60	13.64
More than \$60	21.59