

## **Diamondback Moth Survey**

Thank you for your interest in this preliminary survey about your IPM experiences with Diamondback Moth (DBM). Industry professionals such as you are the only source we have to collect information on this topic and we value your opinions and perspective. Please review the consent information below and complete the questionnaire, which will take approximately ten minutes.

You are being asked to complete a survey for research purposes. The survey is about DBM pest management in cole crops. Completing this survey is voluntary and you can stop at any time by simply not returning this paper survey. All responses are confidential. Participating in this study isn't an expectation nor requirement of any affiliation you have with NC State or any member of the research team. You must be 18 years of age or older, reside in the United States, and be involved in the cole crops industry to participate in this study. There are minimal risks associated with your participation in this survey. You will not receive any payment for completing this survey. If you have any questions about the survey, how it is implemented, or the research study, please contact the researcher: Dr. Tegan Walker at twalker6@ncsu.edu. Please reference study number 25436 when contacting anyone about this project. If you have questions about your rights as a participant or are concerned with your treatment throughout the research process, please contact the NC State University IRB Director at IRB- Director@ncsu.edu, 919-515-8754, or fill out a confidential form online at https://research.ncsu.edu/administration/participant-concern-and-complaint-form/

If you consent to complete this survey, please complete this paper form and return it to the distributor, or scan the QR code to access and submit the electronic version of this survey.

1. Please indicate the crops you grow, the approximate annual acreage per crop (conventional or
certified organic), and over the past two years, approximately what percentage of your acreage
has had Diamondback Moth (DBM) pressure and if DBM is the insect pest that requires the most
spraying.

	Conventional	Certified	DBM Infestations	Check if most
	(annual	Organic	(Percentage of	sprays are for
Crops grown	acreage)	(annual acreage)	acreage)	DBM
bok choi			%	
broccoli			%	
Brussels sprouts			%	
cabbage			%	
canola			%	
cauliflower			%	
collards			%	
kale			%	
mustards			%	
Napa cabbage			%	
radish			%	
turnips			%	
watercress			%	
other:			%	

2. Over the past two years, approximately what percentage of insecticide sprays for DBM, ha	Ы
ittle to no impact on DBM pressure?	u
ittle to no impact on DBW pressure:	
%	

3. Please indicate the severity of the following	pests:
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-		Somewhat		
Pest	Very Severe	Severe	Not Severe	Not Present
(foliar) Aphids				
(root) Aphids				
Armyworms				
Bagrada bug				
Cabbage looper				
(imported) Cabbageworm				
Cabbage webworm				
Cross-striped cabbageworm				
Cutworms				
Diamondback moth				
Flea beetles				
Grasshoppers				
Harlequin bug				
Root maggots				
Seedcorn maggot				
Silverleaf whitefly				
Thrips				
Yellow margined leaf beetle				
Other:				

Yellow margined leaf beetle				
Other:				
4. Any other insects not previou	sly listed that ar	e a problem? —		
5. Please indicate the insect(s) m	nost difficult to c	control in cole cr	ops with insection	cides:
		<del>_</del>		

6. What insecticides have you used in the last year for DBM control, and how well did they work?

o. What insecticides have you			Somewhat			
Insecticide Group	Insecticide	Effective	effective	Ineffective	Inconsistent	Do not use
Carbamate	Lannate					
OP	Dibrom					
Pyrethroid/thrin	Asana					
	Brigade					
	Hero					
	Mustang					
	Pyganic					
	Warrior					
Spinosyn	Entrust					
	Radiant					
	Success					
Avermectin	Proclaim					
Bacillus thuringiensis (Bt)	Crymax					
	Dipel					
	Javelin					
	Xentari					
Insect Growth Regulators	Knack					
	Rimon					
	Confirm					
	Intrepid					
METI insecticides	Torac					
Sodium channel blocker	Avaunt					
Acetyl COA inhibitor	Movento					
Diamides	Coragen					
	Exirel					
	Harvanta					
	Verimark					
Mix	Besiege					
Other:						

7. Location of crop production:
State: County(s):
8. Which pest group is the <b>most</b> difficult for you to manage?
insect pests disease pests weed pests
9. Which pest group is the <b>least</b> difficult for you to manage?
insect pests disease pests weed pests
10. Please rank the following research priorities for managing DBM (1= highest priority, 10 =
lowest priority)
Insecticidal control
Biopesticides
Options for certified organic crops
Mating disruption
Host plant resistance
Improved monitoring/detection
Insecticide resistance monitoring
Biological control
Cultural control alternatives

\_\_\_\_\_Other: \_\_\_\_\_