

2016 Western SARE- MSU WTARC Professional Development Workshop-March 1-2-Great Falls, Mt.

"Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals"

Which of these best describes you?

_____ Agent _____ Researcher –research staff _____ Other positions

_____ 0-2 years in this position _____ 3-7 years in this position

_____ 8 or more years

*N/A - did not attend.
just session -
or filled in wrong
blank.*

Please complete the survey below to help us prepare to evaluate this program. Indicate your knowledge of the topic(s) covered during the classes by putting a mark in the appropriate box.

Tour and Program Topics	1 2 3 4 Knowledge <u>Before</u> the Class					1 2 3 4 Knowledge <u>After</u> the Class				
	None	Low	Average	Broad	NA	None	Low	Average	Broad	NA
"Insect Pathogens" Dr. Stefan Jaronski, USDA-ARS										
"Increasing the Efficacy of Biocontrol Agents" Dr. Jeff Littlefield , MSU-LRES										
"Biological Control Based Research on Wireworms" Dr. Kevin Wanner & Mr. Ashish Adhikari, MSU-PSPP										
"Biological control of Alfalfa Weevil" Dr. Tatyana Rand, USDA-ARS										
"Biological Control of Orange Wheat Blossom Midge" Dr. G.V.P. Reddy & D. Picard MSU- WTARC										
"Biological Control of Cereal Leaf Beetle, Pea Leaf Weevil and Lygus Bug" Dr. Hector Carcamo, Agriculture and AG Food, Lethbridge, Canada										
"Insect Monitoring Tools and Techniques" Dr. Mike Ivie, MSU-PSPP										
"Biological Control of Sawfly" Dr. David Weaver, MSU-LRES										
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"Insect Predatory Nematodes" Dr. Scott Portman, MSU-WTARC										

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes _____ No _____

What information was the most valuable for you? _____

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? _____

Other Comments: _____

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"Insect Monitoring Tools and Techniques" Dr. Mike Ivie, MSU-PSPP		X						X		
"Biological Control of Sawfly" Dr. David Weaver, MSU-LRES		X						X		
"Biological Control of Invasive Weeds" Dr. Sharlene Sing, USDA-USFA-RMRS			X					X		
"Insect Predatory Nematodes" Dr. Scott Portman, MSU-WTARC				X					X	

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Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? ~~○○○○~~ All of it.

What topics should be offered at the next course? Field Trip to labs, pulse & pests

Would an infield follow up course be valuable? yes

Other Comments: _____

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“Insect Monitoring Tools and Techniques” Dr. Mike Ivie, MSU-PSPP	X							X		
“Biological Control of Sawfly” Dr. David Weaver, MSU-LRES		X							X	
“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS			X					X		
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC	X								X	

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Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? ~~was~~ nematode potential & traps

What topics should be offered at the next course? traps specific to insects & ~~now~~ demonstrate now

Would an infield follow up course be valuable? YES!!

Other Comments: Thank you !!

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“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS		X					X			
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC		X						X		

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Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes X No _____

What information was the most valuable for you? the specific types of control agents available + what was successful

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? Yes! I'd love to see this in action

Other Comments: _____

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“Insect Monitoring Tools and Techniques” Dr. Mike Ivie, MSU-PSPP				X					X	
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“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS			X					X		
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC		X				X				

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Overall Evaluation of this program

Program was of educational value
Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? _____

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? _____

Other Comments: Dr. Portman's research is full of holes with no controls for experiments and a lot of commonly known information answered with I think ... He needs MAJOR mentoring -

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"Insect Monitoring Tools and Techniques" Dr. Mike Ivie, MSU-PSPP		X							X	
"Biological Control of Sawfly" Dr. David Weaver, MSU-LRES		X							X	
"Biological Control of Invasive Weeds" Dr. Sharlene Sing, USDA-USFA-RMRS			X							
"Insect Predatory Nematodes" Dr. Scott Portman, MSU-WTARC	X							X		

← not very impressed with the speaker.
~~NA~~ May be better presenters from MSU or state weed bio control Coordinator.

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Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? Specific ~~para~~ recommendations to assist growers & applicable farm research nemotodes

What topics should be offered at the next course? Specific noxious weed bio control

Would an infield follow up course be valuable? Possibly

Other Comments: _____

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“Biological control of Alfalfa Weevil” Dr. Tatyana Rand, USDA-ARS		✓							✓	
“Biological Control of Orange Wheat Blossom Midge” Dr. G.V.P. Reddy & D. Picard MSU-WTARC		✓							✓	
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“Insect Monitoring Tools and Techniques” Dr. Mike Ivie, MSU-PSPP		✓							✓	
“Biological Control of Sawfly” Dr. David Weaver, MSU-LRES		✓							✓	
“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS		✓							✓	
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC		✓							✓	

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value
Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? trapping, monitoring, wireworm, biological control.

What topics should be offered at the next course? -----

Would an infield follow up course be valuable? visit farmer field.

Other Comments: -----

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“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		
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Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? Specific recommendations & timing for controls.

What topics should be offered at the next course? More on weed control w/ biologicals.

Would an infield follow up course be valuable? Yes. Hands on experiences would help me understand how to ~~the~~ explain details to producers.

Other Comments: _____

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- DON'T READ SLIDES!

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Overall Evaluation of this program

	Poor		Ave		Excellent	
Program was of educational value	1	2	3	4	5	NA
Materials distributed were helpful	1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? Monitoring trapping techniques, Alf Weevil & OWBM

What topics should be offered at the next course? Emerald Ash Borer, Pulse Crop BC agents

Would an infield follow up course be valuable? oh yes! Would love hands on use of Monitoring & Trapping tools

Other Comments: Reading slides is unacceptable at any time but especially when trying to educate educators.

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Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
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Will you recommend the biocontrol methods to growers? Yes _____ No _____

What information was the most valuable for you? _____

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? _____

Other Comments: _____

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Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
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Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? _____

What topics should be offered at the next course? N/A

Would an infield follow up course be valuable? Yes

Other Comments: _____

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Which of these best describes you?

Agent Researcher –research staff Other positions

0-2 years in this position

3-7 years in this position

8 or more years

Please complete the survey below to help us prepare to evaluate this program. Indicate your knowledge of the topic(s) covered during the classes by putting a mark in the appropriate box.

Tour and Program Topics	Knowledge <u>Before</u> the Class					Knowledge <u>After</u> the Class				
	None	Low	Average	Broad	NA	None	Low	Average	Broad	NA
“Insect Pathogens” Dr. Stefan Jaronski, USDA-ARS		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
“Increasing the Efficacy of Biocontrol Agents” Dr. Jeff Littlefield , MSU-LRES			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
“Biological Control Based Research on Wireworms” Dr. Kevin Wanner & Mr. Ashish Adhikari, MSU-PSPP		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
“Biological control of Alfalfa Weevil” Dr. Tatyana Rand, USDA-ARS	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>		
“Biological Control of Orange Wheat Blossom Midge” Dr. G.V.P. Reddy & D. Picard MSU-WTARC		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
“Biological Control of Cereal Leaf Beetle, Pea Leaf Weevil and Lygus Bug” Dr. Hector Carcamo, Agriculture and AG Food, Lethbridge, Canada		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		
“Insect Monitoring Tools and Techniques” Dr. Mike Ivie, MSU-PSPP			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
“Biological Control of Sawfly” Dr. David Weaver, MSU-LRES			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you?

Weed stem sawfly mgmt, Orange wheat blossom mite

What topics should be offered at the next course?

More on fungal Biocontrol Agents

Would an infield follow up course be valuable?

Yes

Other Comments:

Topics like wheat stem sawfly etc relevant to Montana should be discussed more. Disease problems should also be discussed and their Biocontrol

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“Biological control of Alfalfa Weevil” Dr. Tatyana Rand, USDA-ARS		✓						✓		
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“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC		✓					✓			

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

	Poor		Ave		Excellent	
Program was of educational value	1	2	3	4	5	NA
Materials distributed were helpful	1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? ~~the~~ Weaver presentation on yield advantages & safety of Thimet.

What topics should be offered at the next course? Excellent presenters, keep inviting them back as long as they have new information to share. ~~Pass on the information~~

Would an infield follow up course be valuable? Not necessary unless a new discovery ^{plot shows a} can ^{that} increase profitability for farmers & ranchers.

Other Comments: Sharlene Sing presentation was generic, but ^{some} information might be useful for weed control presentations.

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Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation

Continued-

Overall Evaluation of this program

Program was of educational value
Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Would've been good to cover what WTRAC needs for cooperators, how we as agents can help in that, etc, when growers should be located

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? SARE grants

What topics should be offered at the next course? More info. on knapweed & spurge biocontrol projects

Would an infield follow up course be valuable? Yes - practice collecting biologicals, sweeping field, etc.

Other Comments: Having someone discuss MT Noxious Weed Trust Fund grants to know how that could fit with biocontrols for local projects would have been beneficial. Also, Melissa Maggio from the Montana Weed Control Coordination Project

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would have been a good resource and had info. on collections, etc case studies (maybe to work on in a group) may have been more beneficial than a lecture format. or some



examples of how biologicals have been used in an integrated program (what was timeline, herbicide use, grazing, monitoring, etc.)?

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“Biological control of Alfalfa Weevil” Dr. Tatyana Rand, USDA-ARS		X						X		
“Biological Control of Orange Wheat Blossom Midge” Dr. G.V.P. Reddy & D. Picard MSU-WTARC			X					X		
“Biological Control of Cereal Leaf Beetle, Pea Leaf Weevil and Lygus Bug” Dr. Hector Carcamo, Agriculture and AG Food, Lethbridge, Canada		X						X		
“Insect Monitoring Tools and Techniques” Dr. Mike Ivie, MSU-PSPP			X					X		
“Biological Control of Sawfly” Dr. David Weaver, MSU-LRES				X					X	
“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS		X						X		
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC		X						X		

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

	Poor		Ave		Excellent	
Program was of educational value	1	2	3	4	5	NA
Materials distributed were helpful	1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? _____

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? _____

Other Comments: _____

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“Biological Control Based Research on Wireworms” Dr. Kevin Wanner & Mr. Ashish Adhikari, MSU-PSPP			X						X	
“Biological control of Alfalfa Weevil” Dr. Tatyana Rand, USDA-ARS										X
“Biological Control of Orange Wheat Blossom Midge” Dr. G.V.P. Reddy & D. Picard MSU-WTARC		X						X		
“Biological Control of Cereal Leaf Beetle, Pea Leaf Weevil and Lygus Bug” Dr. Hector Carcamo, Agriculture and AG Food, Lethbridge, Canada		X							X	
“Insect Monitoring Tools and Techniques” Dr. Mike Ivie, MSU-PSPP			X						X	
“Biological Control of Sawfly” Dr. David Weaver, MSU-LRES				X					X	
“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS										X
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC		X							X	X

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? _____

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? _____

Other Comments: _____

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Agent _____ Researcher –research staff _____ Other positions

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“Biological Control of Invasive Weeds” Dr. Sharlene Sing, USDA-USFA-RMRS				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	
“Insect Predatory Nematodes” Dr. Scott Portman, MSU-WTARC		<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>		

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? Information on what biocontrols are available

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? Yes, monitoring techniques

Other Comments: _____

Thank you for taking the time to complete this survey! We are grateful for your feedback as we plan more educational workshops.



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Which of these best describes you?

A Agent B Researcher –research staff _____ Other positions

A 0-2 years in this position _____ 3-7 years in this position B 8 or more years

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"Biological Control Based Research on Wireworms" Dr. Kevin Wanner & Mr. Ashish Adhikari, MSU-PSPP		✓						✓		
"Biological control of Alfalfa Weevil" Dr. Tatyana Rand, USDA-ARS		✓						✓		
"Biological Control of Orange Wheat Blossom Midge" Dr. G.V.P. Reddy & D. Picard MSU-WTARC		✓							✓	
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"Biological Control of Invasive Weeds" Dr. Sharlene Sing, USDA-USFA-RMRS				✓				✓		
"Insect Predatory Nematodes" Dr. Scott Portman, MSU-WTARC		✓						✓		

Don't invite back.

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent
1	2	3	4	5 NA
1	2	3	4	5 NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? _____

What topics should be offered at the next course? Current & proposed research

Would an infield follow up course be valuable? yes

Other Comments: lots of research on biocontrol

Thank you for taking the time to complete this survey! We are grateful for your feedback as we plan more educational workshops.



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Really enjoyed it

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No dependent on situation

What information was the most valuable for you? Alfalfa weevil, insect pathogens

What topics should be offered at the next course? pulse entomology & mustard

Would an infield follow up course be valuable? Yes

Other Comments: _____

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Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? All of it was valuable, I wish that Dr Sing would of mt read her presentation

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? Infield or an update on new methodologies

Other Comments: Very well organized, Thank you for your time.

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Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	④	5	NA
1	2	3	④	5	NA

Will you recommend the biocontrol methods to growers? Yes X No _____

What information was the most valuable for you? _____

What topics should be offered at the next course? _____

Would an infield follow up course be valuable? Yes _____

Other Comments: _____

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Agent
 Researcher –research staff
 Other positions
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 8 or more years

Please complete the survey below to help us prepare to evaluate this program. Indicate your knowledge of the topic(s) covered during the classes by putting a mark in the appropriate box.

Tour and Program Topics	Knowledge <u>Before</u> the Class					Knowledge <u>After</u> the Class				
	None	Low	Average	Broad	NA	None	Low	Average	Broad	NA
"Insect Pathogens" Dr. Stefan Jaronski, USDA-ARS			✓						✓	
"Increasing the Efficacy of Biocontrol Agents" Dr. Jeff Littlefield , MSU-LRES			✓						✓	
"Biological Control Based Research on Wireworms" Dr. Kevin Wanner & Mr. Ashish Adhikari, MSU-PSPP			✓						✓	
"Biological control of Alfalfa Weevil" Dr. Tatyana Rand, USDA-ARS			✓						✓	
"Biological Control of Orange Wheat Blossom Midge" Dr. G.V.P. Reddy & D. Picard MSU-WTARC					✓				✓	
"Biological Control of Cereal Leaf Beetle, Pea Leaf Weevil and Lygus Bug" Dr. Hector Carcamo, Agriculture and AG Food, Lethbridge, Canada					✓ X				✓ X	
"Insect Monitoring Tools and Techniques" Dr. Mike Ivie, MSU-PSPP					✓				✓	
"Biological Control of Sawfly" Dr. David Weaver, MSU-LRES					✓				✓	
"Biological Control of Invasive Weeds" Dr. Sharlene Sing, USDA-USFA-RMRS			✓						✓	
"Insect Predatory Nematodes" Dr. Scott Portman, MSU-WTARC		✓							✓	

Please see back of this evaluation to complete a few short questions-

Biological Control in the Northern Great Plains-Providing Tools for Agricultural Professionals Evaluation Continued-

Overall Evaluation of this program

Program was of educational value

Materials distributed were helpful

Poor		Ave		Excellent	
1	2	3	4	5	NA
1	2	3	4	5	NA

Will you recommend the biocontrol methods to growers? Yes No

What information was the most valuable for you? ALL of it

What topics should be offered at the next course? similar

Would an infield follow up course be valuable? yes

Other Comments: Great job!

Thank you for taking the time to complete this survey! We are grateful for your feedback as we plan more educational workshops.

