Section 1
Baseline/General Information
In 2014, did you use remotely-sensed data collected by the following means for crop management?
(394 responses SE)

Could select >1 response
- Satellite-based
- Airplane-based
- UAV/Drone-based
- No, but I plan to within next 5 years
- No, and don’t plan to within next 5 years

If you used remotely sensed data in 2014, how did you use the data?
(494 responses C and SE)

Stand assessment
Disease scouting
Insect scouting
Weed scouting
Nutrient stress assessment
Moisture stress assessment
Overall crop assessment
Other
I did not use remotely-sensed data

Could select >1 response

If you used remotely sensed data in 2014, how did you use the data?
(227 responses C and SE)

Response % based on those who use remotely-sensed data
Could select >1 response
- Stand assessment
- Disease scouting
- Insect scouting
- Weed scouting
- Nutrient stress assessment
- Moisture stress assessment
- Overall crop assessment
- Other

How many acres of Corn do you raise?
(734 responses C and SE)

Don’t plant corn
Less than 100 acres
101-300 acres
301-500 acres
501-700 acres
701-1000 acres
Over 1000 acres
**How many acres of Corn do you raise?**
(717 responses C and SE)

- Less than 100 acres: 18
- 101-300 acres: 38
- 301-500 acres: 16
- 501-700 acres: 9
- 701-1000 acres: 8
- Over 1000 acres: 9

Response % based on those who planted corn.

**How many acres of Soybeans do you raise?**
(733 responses C and SE)

- Don't plant beans: 11
- Less than 100 acres: 27
- 101-300 acres: 30
- 301-500 acres: 14
- 501-700 acres: 6
- 701-1000 acres: 7
- Over 1000 acres: 5

Response % based on those who plant beans.

**How many acres of Soybeans do you raise?**
(651 responses C and SE)

- Less than 100 acres: 31
- 101-300 acres: 33
- 301-500 acres: 16
- 501-700 acres: 7
- 701-1000 acres: 7
- Over 1000 acres: 5

**How many acres of Alfalfa do you raise?**
(735 responses C and SE)

- Don't plant Alfalfa: 41
- Less than 100 acres: 39
- 101-300 acres: 15
- 301-500 acres: 1
- 501-700 acres: 0
- More than 700 acres: 3

Response % based on those who plant beans.
What other crops do you raise? Select all that apply
(627 responses C and SE)

- Small grains (oats)
- Small grains (wheat)
- Apples
- Grapes
- Sweetcorn
- Peas
- Other crops
- Sugar beets
- Farmer's Market Produce

Responses (%)

0 10 20 30 40 50

Could choose >1 response

For Weed Control I Primarily:
(679 responses SW, C, and SE)

- Use POST glyphosate only
- Use POST herbicides only (> 1 SOA)
- Use a PRE herbicide for at least 1 crop
- Use a PRE herbicide for all my crops
- Use a PRE herbicide for all my crops and >1 SOA POST

Responses (%)

0 10 20 30 40 50

Section 2
Weed Management

In 2014, I made a conscious effort to control weeds in my fence rows/ waterways, by: (select all that apply)
(379 responses SE)

- No changes
- Mowing
- Herbicide applications
- Renovating and planting a buffer zone
- Other

Responses (%)

0 5 10 15 20 25 30 35 40 45 50

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In 2014, I used the following weed management practice(s) on land I farm (select all that apply) (416 responses SE)

- [ ] No changes
- [ ] Altered crop rotations planned delayed planting/tillage
- [ ] Rotated HR traits (Liberty)
- [ ] Planted cover crops
- [ ] Mechanical weed control (ex cultivation)
- [ ] Hand pulled weeds/roguing
- [ ] Other

Responses (%)

<table>
<thead>
<tr>
<th>Practice</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No changes</td>
<td>41</td>
</tr>
<tr>
<td>Altered crop rotations planned delayed</td>
<td>23</td>
</tr>
<tr>
<td>Rotated HR traits (Liberty)</td>
<td>11</td>
</tr>
<tr>
<td>Planted cover crops</td>
<td>10</td>
</tr>
<tr>
<td>Mechanical weed control (ex cultivation)</td>
<td>12</td>
</tr>
<tr>
<td>Hand pulled weeds/roguing</td>
<td>3</td>
</tr>
</tbody>
</table>

Do you map weedy spots and/or infestations in your field? (995 SW, C & SE responses)

- [ ] Yes
- [ ] No
- [ ] Sometimes

Responses (%)

<table>
<thead>
<tr>
<th>Response</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>52</td>
</tr>
<tr>
<td>No</td>
<td>27</td>
</tr>
<tr>
<td>Sometimes</td>
<td>21</td>
</tr>
</tbody>
</table>

Glyphosate is still an extremely important herbicide component in my farming operation (676 responses C and SE)

- [ ] Strongly Disagree
- [ ] Disagree
- [ ] Uncertain
- [ ] Agree
- [ ] Strongly Agree

Responses (%)

<table>
<thead>
<tr>
<th>Response</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly Disagree</td>
<td>9</td>
</tr>
<tr>
<td>Disagree</td>
<td>8</td>
</tr>
<tr>
<td>Uncertain</td>
<td>10</td>
</tr>
<tr>
<td>Agree</td>
<td>52</td>
</tr>
<tr>
<td>Strongly Agree</td>
<td>22</td>
</tr>
</tbody>
</table>

How much has reduced effectiveness of glyphosate increased the cost of your weed control programs? (394 responses SE)

- [ ] No increase
- [ ] $5/a
- [ ] $10/a
- [ ] $20/a
- [ ] $30/a
- [ ] $35/a
- [ ] > $40/a

Responses (%)

<table>
<thead>
<tr>
<th>Cost</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No increase</td>
<td>15</td>
</tr>
<tr>
<td>$5/a</td>
<td>12</td>
</tr>
<tr>
<td>$10/a</td>
<td>36</td>
</tr>
<tr>
<td>$20/a</td>
<td>32</td>
</tr>
<tr>
<td>$30/a</td>
<td>4</td>
</tr>
<tr>
<td>$35/a</td>
<td>1</td>
</tr>
<tr>
<td>&gt; $40/a</td>
<td>0</td>
</tr>
</tbody>
</table>
Do you think you have glyphosate resistant weeds on your farm? (1312 responses SW, C, and SE)

- Yes, 75%
- No, 25%

In 2014, did you have weeds that were resistant to multiple SOA's? (select all that apply) (549 responses C and SE)

- Yes, waterhemp
- Yes, giant ragweed
- Yes, common ragweed
- Yes, kochia
- Yes, other
- Unsure, don't know
- No

In 2014, did you have weeds that were resistant to multiple SOA’s? (select all that apply) (549 responses C and SE)

Responses (%)

<table>
<thead>
<tr>
<th>Response</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>25</td>
<td>25</td>
<td>23</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes, waterhemp</td>
<td>11</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes, giant ragweed</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes, common ragweed</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes, kochia</td>
<td>25</td>
<td>25</td>
<td>23</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes, other</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In 2014, on how many acres did you change your herbicide program to manage for resistant weeds? (391 responses SE)

Responses (%)

<table>
<thead>
<tr>
<th>Response</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>55</th>
</tr>
</thead>
<tbody>
<tr>
<td>No changes</td>
<td>43</td>
<td>28</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>1-100 acres</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>101-500 acres</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>501-1000 acres</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>1001-2000 acres</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Over 2000 acres</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
</tbody>
</table>

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University of Minnesota | Extension
Driven to Discover™
When planning weed management programs, do you purposefully utilize different SOA’s? (518 responses C and SE)

![Bar chart showing responses to the question](chart1.png)

When planning weed management programs, do you purposefully utilize different SOAs? (434 responses in SE where follow-up question was asked about SOA classification)

![Bar chart showing responses to the question](chart2.png)

How are Herbicide SOAs classified?* (418 responses SE)

![Bar chart showing responses to the question](chart3.png)

*Question asked as a follow-up at SE locations where participants were asked if they purposefully utilize different SOAs

Last year, I used pre-emergence or preplant residual herbicide in Soybean on...

(972 responses SW and SE)

![Bar chart showing responses to the question](chart4.png)
Last year, I used pre-emergence or preplant residual herbicide in Soybean on…
(868 responses SW and SE)

- 25% None of my acres
- 9% Some of my acres
- 8% Most of my acres
- 59% All of my acres

Responses (%)

Last year, I used pre-emergence or preplant residual herbicide in Corn on…
(931 responses SW, C, and SE)

- 24% None of my acres
- 7% Some of my acres
- 8% Most of my acres
- 61% All of my acres

Responses (%)

My sprayer uses…
(427 responses SE)

- 24% Limited or no monitor
- 23% Rate controller
- 14% Rate controller with swath controller
- 16% Rate and swatch control with auto steer
- 2% Pulse width modulation
- 24% Don’t have a sprayer

Responses (%)

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My sprayer uses…
(325 responses SE)

Responses (%)

Limited or no monitor: 32
Rate controller: 30
Rate controller with swath controller: 18
Rate and control with auto steer: 21
Pulse width modulation: 2

Response % based on those who have a sprayer
Could select >1 response

My sprayer uses…
(70 responses C)

Responses (%)

Limited or no monitor: 23
Rate controller: 37
Rate controller with swath controller: 34
Rate and swath control with auto steer: 20
Pulse width modulation or other signal: 1
In-the-tank 'cleaning' nozzle: 30

Could select >1 response

My sprayer uses…
(69 responses C)

Responses (%)

Limited or no monitor: 23
Rate controller: 38
Rate controller with swath controller: 35
Rate and swath control with auto steer: 20
Pulse width modulation or other signal: 1
In-the-tank 'cleaning' nozzle: 30

Response % based on those who have a sprayer
Could select >1 response

When rinsing out the tank between susceptible crops, I usually…
(1158 responses SW, C, and SE)

Responses (%)

Don't rinse-I make sure tank is empty: 2
Rinse once: 13
Rinse twice: 36
Rinse three times or more: 41
I don't spray my own crops: 8

Don't have a sprayer: 1

Response % based on those who have a sprayer
Could select >1 response
When rinsing out the tank between susceptible crops, I usually...
(1061 responses SW, C, and SE)

<table>
<thead>
<tr>
<th>Response</th>
<th>% Based on Those Who Spray Their Own Crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>Don't rinse—I make sure tank is empty</td>
<td>2</td>
</tr>
<tr>
<td>Rinse once</td>
<td>15</td>
</tr>
<tr>
<td>Rinse twice</td>
<td>39</td>
</tr>
<tr>
<td>Rinse three times or more</td>
<td>45</td>
</tr>
</tbody>
</table>

When changing from one crop to a susceptible crop, which method best describes how you clean the spray tank?
(794 responses SW, C, and SE)

<table>
<thead>
<tr>
<th>Response</th>
<th>% Based on Those Who Spray Their Own Crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>I don't rinse out; I make sure the tank is empty</td>
<td>61</td>
</tr>
<tr>
<td>I use water</td>
<td>12</td>
</tr>
<tr>
<td>I use water and a tank cleaner</td>
<td>20</td>
</tr>
<tr>
<td>I check the herbicide label and follow instructions on how to clean the tank</td>
<td>6</td>
</tr>
<tr>
<td>I don't spray my own crops</td>
<td>0</td>
</tr>
</tbody>
</table>

When changing from one crop to a susceptible crop, which method best describes how you clean the spray tank?
(749 SW, C, and SE responses)

<table>
<thead>
<tr>
<th>Response</th>
<th>% Based on Those Who Spray Their Own Crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>I don't rinse out; I make sure the tank is empty</td>
<td>65</td>
</tr>
<tr>
<td>I use water</td>
<td>22</td>
</tr>
<tr>
<td>I use water and a tank cleaner</td>
<td>14</td>
</tr>
<tr>
<td>I check the herbicide label and follow instructions on how to clean the tank</td>
<td>13</td>
</tr>
</tbody>
</table>

MPH for your spraying?
(344 responses SE)

<table>
<thead>
<tr>
<th>Speed</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 or less</td>
<td>14</td>
</tr>
<tr>
<td>5</td>
<td>38</td>
</tr>
<tr>
<td>6</td>
<td>14</td>
</tr>
<tr>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>12 or more</td>
<td>5</td>
</tr>
</tbody>
</table>
How many different types of nozzles do you use in a season?
(554 responses C and SE)

- 66% use the same nozzles all season
- 33% switch based on pesticide label requirements
- 2% neither of the above

Do you have/ use an in-the-tank rinsing nozzle in your spray tank for cleaning purposes?
(623 responses C and SE)

- 48% yes
- 38% no
- 1% what is it?
- 1% don’t spray own crops

Do you have/ use an in-the-tank rinsing nozzle in your spray tank for cleaning purposes?
(547 responses C and SE)

- 55% yes
- 44% no
- 1% what is it?

I generally apply contact pesticides like Liberty and Cobra at:
(281 responses SE)

- 41% 5 GPA
- 26% 7.5 GPA
- 15% 10 GPA
- 20% 15 GPA
- 6% More than 15 GPA
I generally apply systemic pesticides like glyphosate and 2, 4-D at:

(309 responses SE)

Responses (%)

<table>
<thead>
<tr>
<th>GPA</th>
<th>Responses (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>7.5</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>39</td>
</tr>
<tr>
<td>15</td>
<td>33</td>
</tr>
<tr>
<td>More than 15</td>
<td>21</td>
</tr>
</tbody>
</table>

My Crop Rotation Consists of:

(528 responses SW and SE)

Responses (%)

- I grow corn continuously on all my acres: 65%
- I plant some corn continuously on at least some of my acres: 14%
- I plant corn no more than 3 years in a row on the same ground: 12%
- I rotate all my acres between 2 crops: 7%
- I rotate all my acres between at least 3 crops: 3%
- I don't plant corn: 2%

What percentage of your acres are 3 or more years of corn on corn?

(1021 responses SW, C, and SE)

Responses (%)

- 0%: 57%
- 1-25%: 24%
- 26-50%: 8%
- 51-75%: 5%
- 75-100%: 5%
- I don't plant corn: 2%
What percentage of your acres are 3 or more years of corn on corn? (1004 responses SW, C, and SE)

- 57% 1-25%
- 24% 26-50%
- 8% 51-75%
- 5% 75-100%

Response % based on those who plant corn

Responses (%)

What would you do (Case Study 1)? (452 responses C and SE)

- Scout and spray CRW beetles
- Plant field to non-host crop
- Plant non-CRW corn with insecticide
- Plant non-CRW corn without insecticide
- Switch CRW trait(s) and use soil insecticide
- Switch to different CRW trait(s)
- Use soil insecticide on pyramid-treated corn
- Continue with pyramid of CRW traits

Corn Rootworm Case Study 1– 2015

- This field was corn-on-corn for the past 5 years.
- Planted the same CRW trait, VT Triple (Cry1Ab + Cry3Bb1) for three years, then switched to SmartStax (Cry3Bb1 + Cry34/35) for 2 years.
- Lodging in VT Triple was observed 3 years ago after thunderstorm. Rootworm feeding confirmed.
- No scouting for beetles done in 2014; no lodging observed last summer.
- If you were this grower, what would you do?

Corn Rootworm Case Study 2 - 2015

- This field has been in a C/SB rotation the past 20 years.
- Planted the same CRW trait for 3 crops, then switched to a pyramid-traited CRW hybrid last corn crop.
- Extended diapause problems observed on farm 10 years ago.
- No scouting for beetles done in 2013; no lodging observed.
- If you were this grower, what would you do?
What would you do (Case Study 2)?

(345 responses C and SE)

- Scout and spray CRW beetles
- Plant field to non-host crop
- Plant non-CRW corn with insecticide
- Plant non-CRW corn without insecticide
- Switch CRW trait(s) and use soil insecticide
- Switch to different CRW trait(s)
- Use soil insecticide on pyramid-treated corn
- Continue with pyramid of CRW traits

Do you take CRW beetle counts, whole plant, or sticky trap in your corn fields?

(707 responses SW and SE)

- No
  - Only when problems (eg lodging) occur
  - All corn fields
  - Only continuous corn
  - Only rotated fields (extended diapause)
  - Only fields with non-CRW hybrids
  - Suspected CRW resistance fields
  - I look for beetles but don't take detailed counts
  - I don't plant corn

Do you take CRW beetle counts, whole plant, or sticky trap in your corn fields?

(700 responses SW and SE)

- No
  - Only when problems (eg lodging) occur
  - All corn fields
  - Only continuous corn
  - Only rotated fields (extended diapause)
  - Only fields with non-CRW hybrids
  - Suspected CRW resistance fields
  - I look for beetles but don't take detailed counts
  - I don't plant corn

Has a CRW performance issue been confirmed on your farm?

(1183 responses SW, C, and SE)

- No
  - Only when problems (eg lodging) occur
  - All corn fields
  - Only continuous corn
  - Only rotated fields (extended diapause)
  - Only fields with non-CRW hybrids
  - Suspected CRW resistance fields
  - I look for beetles but don't take detailed counts
  - I don't plant corn
Has a CRW performance issue been confirmed on your farm?
(1168 responses SW, C, and SE)

Regarding extended diapause of northern CRW
(490 responses SW, C, and SE)

Regarding extended diapause of northern CRW
(482 responses SW, C, and SE)

Section 4
Disease Management
Which diseases did you see in your fields this year?

(1624 responses SW, C, and SE)

<table>
<thead>
<tr>
<th>Disease</th>
<th>Responses (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None noticed</td>
<td>29</td>
</tr>
<tr>
<td>Other/unsure in soybean</td>
<td>10</td>
</tr>
<tr>
<td>White Mold in Soybean</td>
<td>23</td>
</tr>
<tr>
<td>Green Stem Syndrome in Soybean</td>
<td>17</td>
</tr>
<tr>
<td>Sudden Death Syndrome in Soybean</td>
<td>17</td>
</tr>
<tr>
<td>Other/unsure in corn</td>
<td>16</td>
</tr>
<tr>
<td>Northern Corn Leaf Blight</td>
<td>17</td>
</tr>
<tr>
<td>Common Rust on Corn</td>
<td>13</td>
</tr>
<tr>
<td>Goss's Wilt in Corn</td>
<td>13</td>
</tr>
</tbody>
</table>

Could select >1 response

Section 5
Other Topics & General IPM

Pest resistance is not a major concern because new technologies will be developed to manage them.

(420 responses SE)

For Pest Management I...

(489 responses SW, C, and SE)

- Use all the inputs I reasonably can, most are cheap & I want the insurance
- Scout for some pests but won't tolerate many
- Scout for pests and follow U of MN thresholds
- Scout for pests, follow U of MN thresholds & have a long-term plan that includes non-pesticide tactics.
If you plan to use seed treatments on soybeans this year, why do you plan to do so?
(1283 responses SW, C, and SE)

- Increase stand: 37%
- Reduce disease: 43%
- Reduce insect problems: 28%
- Reduce soybean aphid problems: 27%
- Increase yield: 17%
- Can't get variety without being treated: 4%
- Not planning to use treated seed: 2%

If you used seed treatments on soybeans last year, what benefits did they provide?
(712 responses C and SE)

- Increase stand: 28%
- Reduce disease: 22%
- Reduce insect problems: 19%
- Reduce soybean aphid problems: 20%
- Increase yield: 13%
- Can't get variety without being treated: 5%
- Not sure: 12%
- Saw no benefit: 5%

Regarding “Resistance”…
(531 responses SW and SE)

- Enough already! Talk about a real problem: 53%
- I will worry about it when I see problems in my own field: 33%
- I am concerned and will use the upcoming new technologies to address the problem: 11%
- I am actively addressing concerns and am looking at ways to do more: 2%
- I am doing everything I can to address resistance issues already: 0%
Section 6
Pesticide Safety

Whose responsibility is it to prevent/mitigate pest resistance? (select all that apply) (418 SE responses)

Responses (%)

- The farmer: 74%
- Pesticide manufacturer: 11%
- Ag Professional (Agronomist/Consultant): 15%
- Seed Companies: 6%
- Government (EPA, USDA, etc): 4%
- University Scientists: 6%

Could select >1 response

How many years have you been applying pesticides? (445 responses C and SE)

Responses (%)

- 5 years or less: 6%
- 5 to 10 years: 12%
- 10 to 20 years: 16%
- More than 20 years: 65%

How often do you wear eye protection when using or handling pesticides? (1244 responses SW, C and SE)

Responses (%)

- All the time: 28%
- Always when the label requires: 13%
- Sometimes when the label requires: 15%
- Only in high risk situations: 23%
- Seldom/never, even when label requires: 18%
- Don’t use pesticides that require eye protection: 5%
Are regular glasses ever acceptable eye protection when handling pesticides? (345 responses C and SE)

- No: 54 responses
- Only when label has no protective eye wear requirement: 38 responses
- Yes, for most situations: 8 responses

Who should care most about your eyes? (344 responses C and SE)

- You: 97 responses
- Extension Educators: 2 responses
- MDA: 1 response
- EPA: 0 responses
- MN-OSHA: 1 response
- OSHA: 2 responses

Do you wear the correct safety gloves when making pesticide applications? (407 responses SE)

- I use the correct gloves for ALL applications: 56 responses
- I use the correct gloves for SOME applications: 32 responses
- I don't wear correct gloves: 12 responses

Section 7 Evaluation
How would you rate the overall value of this workshop for the work that you do?
(1375 responses in SE, C, and SE)

<table>
<thead>
<tr>
<th>Responses (%)</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>34</td>
</tr>
<tr>
<td>Good</td>
<td>52</td>
</tr>
<tr>
<td>OK</td>
<td>11</td>
</tr>
<tr>
<td>Fair</td>
<td>2</td>
</tr>
<tr>
<td>Low</td>
<td>1</td>
</tr>
</tbody>
</table>

As a result of today’s workshop, I know the steps I need to take and resources available if I should have a pesticide spill:
(884 responses SW, C and SE)

<table>
<thead>
<tr>
<th>Responses (%)</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>79</td>
</tr>
<tr>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>Somewhat</td>
<td>5</td>
</tr>
<tr>
<td>I already knew what to do and where to find help</td>
<td>15</td>
</tr>
</tbody>
</table>

As a result of today’s workshop, I am likely to continue or increase use of crop rotation for corn rootworm management.
(876 responses SW, C, and SE)

<table>
<thead>
<tr>
<th>Responses (%)</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not at all likely</td>
<td>5</td>
</tr>
<tr>
<td>Not very likely</td>
<td>8</td>
</tr>
<tr>
<td>Somewhat likely</td>
<td>25</td>
</tr>
<tr>
<td>Very Likely</td>
<td>61</td>
</tr>
</tbody>
</table>

As a result of today’s workshop, I am likely to monitor pests and base treatment on threshold levels:
(884 responses SW, C, and SE)

<table>
<thead>
<tr>
<th>Responses (%)</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not at all likely</td>
<td>2</td>
</tr>
<tr>
<td>Not very likely</td>
<td>4</td>
</tr>
<tr>
<td>Somewhat likely</td>
<td>37</td>
</tr>
<tr>
<td>Very Likely</td>
<td>57</td>
</tr>
</tbody>
</table>
As a result of today’s workshop, I am likely to wear chemical resistant gloves when handling treated seed:
(874 responses SW, C, and SE)

As a result of today’s workshop, I am more likely to utilize U of M research-based information in pest management decisions:
(896 responses SW, C, and SE)

How much did you learn at this workshop?
(460 responses SE)

Based on information in the Personal Protective Equipment (PPDE) presentation on Gloves that was given at the Private Pesticides Applicator recertification workshops three years ago did you…?
(764 responses SW and C)
Based on information in the Personal Protective Equipment (PPDE) presentation on Gloves that was given at the Private Pesticides Applicator recertification workshops three years ago, did you...

(661 responses SW and C)

- Start using the correct gloves for All pesticide applications
- Start using the correct gloves for SOME pesticide applications
- Still do not wear the correct gloves for each pesticide application
- Were already using the correct gloves before that presentation

**As a result of today’s workshop, how likely are you to MAKE CHANGES in the use of correct protective eyewear when handling pesticides?**

(1252 responses SW, C and SE)

- Not at all likely
- Not very likely
- Somewhat likely
- Very likely
- I was already using correct protective eyewear

**As a result of today’s workshop, will you MAKE CHANGES to your farming operation?**

(462 responses SE)

- Yes, definitely
- Somewhat likely
- Not very likely
- No

**Which of the following possible reasons were important in YOUR decision to attend today?**

(979 responses SW, C, and SE)

- Attending the workshop takes me less time than taking the exam
- The workshop provides me with a valuable educational benefit
- I value interaction with Extension Educators
- I value interaction with MDA personnel
- I try to avoid taking exams
Which of the following possible reasons were important in YOUR decision to attend today?

(417 responses SE)

- Attending the workshop takes me less time than taking the exam (33 responses)
- The workshop provides me with a valuable educational benefit (57 responses)
- I value interaction with Extension Educators (31 responses)
- I try to avoid taking exams (20 responses)

Could select >1 response