JIFSAN Evaluation Report

FSMA Produce Safety Rule Grower Training
2021 and 2022 Evaluation Summary

Metrics Working Group
2023
Evaluation Delivery and Submission

Pre- and post-training evaluation submissions

Participants identified as growers

2021
- Argentina
- Chile
- Dominican Rep.
- Guatemala
- Mexico
- Peru
- Colombia

2022
- Argentina
- Chile
- Dominican Rep.
- Guatemala
- Mexico
- Peru
- Colombia

Number of participants

Pre-training only
Post-training only
Both

Grower
Non-grower
Participants Background

Gender

<table>
<thead>
<tr>
<th>Year</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>40.2%</td>
<td>59.8%</td>
</tr>
<tr>
<td>2022</td>
<td>46.6%</td>
<td>53.4%</td>
</tr>
</tbody>
</table>

Formal education

<table>
<thead>
<tr>
<th>Year</th>
<th>Not completed high school</th>
<th>High/technical school</th>
<th>College</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>9.2%</td>
<td>22.6%</td>
<td>62.4%</td>
<td>5.9%</td>
</tr>
<tr>
<td>2022</td>
<td>12.2%</td>
<td>25.5%</td>
<td>63.5%</td>
<td>5.8%</td>
</tr>
</tbody>
</table>

Previous produce safety-related training

<table>
<thead>
<tr>
<th>Year</th>
<th>None</th>
<th>GAP</th>
<th>FSMA FSMA</th>
<th>P3R webinar</th>
<th>HACCP</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>1.5%</td>
<td>14%</td>
<td>6%</td>
<td>4%</td>
<td>14%</td>
<td>0%</td>
</tr>
<tr>
<td>2022</td>
<td>0.3%</td>
<td>15%</td>
<td>3%</td>
<td>1%</td>
<td>10%</td>
<td>0%</td>
</tr>
</tbody>
</table>

Employer in agriculture and food safety fields

<table>
<thead>
<tr>
<th>Year</th>
<th>Producer/distributor</th>
<th>Regulatory/audit</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>24%</td>
<td>24%</td>
<td>52%</td>
</tr>
<tr>
<td>2022</td>
<td>22%</td>
<td>19%</td>
<td>59%</td>
</tr>
</tbody>
</table>
Grower Survey

Primary nature of farm or operation

2021
- Primary production: 42.3%
- Packing/holding: 10.4%
- Production/wholesaling: 5.3%
- Processing: 17.9%

2022
- Primary production: 47.3%
- Packing/holding: 12.3%
- Production/wholesaling: 5.9%
- Processing: 13.4%

Farm certification

2021
- None: 69 participants
- GlobalGAP: 11 participants
- BRC/SRCGS: 21 participants
- SENASICA SRRC: 20 participants
- HACCP: 20 participants
- Organic/sustainable farming: 41 participants
- PrimusGFS: 57 participants

2022
- None: 67 participants
- GlobalGAP: 11 participants
- BRC/SRCGS: 2 participants
- SENASICA SRRC: 14 participants
- HACCP: 11 participants
- Organic/sustainable farming: 14 participants
- PrimusGFS: 54 participants

Number of participants
Knowledge Test Results

Pre- and post-training knowledge test performance by question

Distributions of pre- and post-training test scores

Note: The analysis includes only participants who submitted both pre- and post-training tests. For each participant, the number of correct answers is normalized by the total number of questions.

Test score improvement status

Note: The analysis includes only participants who submitted both pre- and post-training tests. Circle size represents the number of participants.
Assessment of Training

Self-assessment of training effect on level of knowledge about FSMA PSR

<table>
<thead>
<tr>
<th>Year</th>
<th>Very Confused</th>
<th>No Change</th>
<th>Improved Knowledge</th>
<th>Greatly Improved Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>76.4%</td>
<td>7.4%</td>
<td>12.2%</td>
<td>3.0%</td>
</tr>
<tr>
<td>2022</td>
<td>73.2%</td>
<td>7.4%</td>
<td>12.2%</td>
<td>3.0%</td>
</tr>
</tbody>
</table>

Self-assessment of training effect on confidence in applying produce safety practices

<table>
<thead>
<tr>
<th>Year</th>
<th>Strong Decrease</th>
<th>No Change</th>
<th>Small Decrease</th>
<th>Small Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>66.0%</td>
<td>4.0%</td>
<td>29.4%</td>
<td>0.4%</td>
</tr>
<tr>
<td>2022</td>
<td>65.7%</td>
<td>4.3%</td>
<td>26.4%</td>
<td>3.6%</td>
</tr>
</tbody>
</table>

Satisfaction with training

<table>
<thead>
<tr>
<th>Year</th>
<th>Very Dissatisfied</th>
<th>Dissatisfied</th>
<th>Average</th>
<th>Satisfied</th>
<th>Very Satisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>50.7%</td>
<td>42.4%</td>
<td>6.6%</td>
<td>1.3%</td>
<td></td>
</tr>
<tr>
<td>2022</td>
<td>56.7%</td>
<td>39.6%</td>
<td>3.3%</td>
<td>1.4%</td>
<td></td>
</tr>
</tbody>
</table>

Difficulty in training

- Limited prior experience: 2021 - 15%, 2022 - 13%
- Language issues: 2021 - 15%, 2022 - 12%
- Content not relevant: 2021 - 14%, 2022 - 11%
- Unprepared for the advanced level of training: 2021 - 8%, 2022 - 6%

Number of participants: 0 - 50 - 100 - 150
Training effect on opinion about the importance of having pre-harvest assessment and harvesting practices

- Green: I already have harvest practices and pre-harvest assessment on my farm/decided to do it before the training.
- Orange: No change, my current practice is working fine or I have better alternatives.
- Blue: No change, too difficult to implement.
- Red: It convinced me that it is something important, I am more likely to implement it after the training.
- Dark red: It convinced me that it is very important, but difficult to implement on my farm.
- Yellow: It convinced me that it is very important, but difficult to implement on my farm after the training.
- Black: I am not sure, I don’t know much about it.

Number of participants:
- 0
- 50
- 100
- 150
- 200

Training effect on opinion about the importance of implementing composting

- Green: I have already implemented composting on my farm/decided to do so before the training.
- Orange: No change, my current practice is working fine, I know of better alternatives.
- Blue: No changes, too difficult to implement.
- Red: It convinced me that it is something important, I am more likely to implement it after the training.
- Dark red: It convinced me that it is very important, but difficult to implement on my farm.
- Yellow: It convinced me that it is very important and I will implement it on my farm after the training.
- Black: I am not sure, I don’t know much about it.

Number of participants:
- 0
- 50
- 100
- 150
- 200