BACKGROUND

• Wide availability of smartphones, iPads, tablets, etc.
• Apps can support crop protection by providing the ability to communicate information, assist with field scouting, collect and access data, and more.
• More apps are becoming available on regular basis, so list is not comprehensive.
• Many apps are freely available.
71 different crop protection apps were identified and categorized.

<table>
<thead>
<tr>
<th>Type of Tool</th>
<th>Number of Apps Identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed, Disease, and Pest ID</td>
<td>7</td>
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<tr>
<td>Crop Protection Information</td>
<td>2</td>
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<tr>
<td>Tank Mix and Equipment Setup</td>
<td>7</td>
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<tr>
<td>Nozzle Selection</td>
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<tr>
<td>Scouting</td>
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<tr>
<td>Field Data Management</td>
<td>5</td>
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<tr>
<td>Weather</td>
<td>5</td>
</tr>
<tr>
<td>Other Apps</td>
<td>16</td>
</tr>
</tbody>
</table>

**WEED, DISEASE, PEST ID**

**Common Features:**
- Identify and diagnose severity of weed, disease or pest presence.
- Save common pests for your area.
- Integrated pest management (IPM) strategies.
CROP PROTECTION INFORMATION

Common Features:
• Browse data bases of herbicides, pesticides, and fungicides.
• View and read about active ingredients, labels, and safety information.
• Read the latest news related to crop protection.

TANK MIX AND EQUIPMENT SETUP

Common Features:
• Generate tank mixes based on product and spray characteristics.
• Use data base of chemicals or input your own.
• Maintain field and spray logs for compliance.
NOZZLE SELECTION

Common Features:
• View listing of suggested tips for a specific spray operation.
• Calculate drop size, working speed, flow rate, etc.
• Sprayer calibration assistance.

SCOUTING

Common Features:
• Collect and geotag images during scouting.
• Share field observations with consultants.
• Measure the advancement or suppression of problems.
FIELD DATA MANAGEMENT

Common Features:

• Visualize field data.
• Develop replicated trials for on-farm research.
• Access historical data.

WEATHER

Common Features:

• View local and national forecasts.
• Get weather alerts.
• Interactive radar and satellite maps.
OTHER APPS

Common Features:

• Calculate field area.
• Access information on markets, weather, news and agronomic advice.
• Record keeping.

SUMMARY

• Currently available apps cover a wide range of crop protection applications.
• Few apps provide a true “one-stop-shop”, so be prepared to use several.
• The ability to communicate information, assist with field scouting, and collect and access data can be helpful for making in-season decisions.
RESOURCES

• Crop Protection Apps Fact Sheet:
  
  [link](go.osu.edu/CropProtectionApps)

• Crop Nutrition Apps Fact Sheet:
  
  [link](go.osu.edu/CropNutritionApps)

• USB Tech Toolshed:
  
  [link](unitedsoybean.org/techtoolshed)

Questions?

Jenna Lee
lee.7210@osu.edu