



## NISA Commodity-Specific Sustainability Assessments: Potato

**NOTE: Only answer questions for those practices which pertain to your production system**

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### Potato Production and Management

**1A** Are soil samples taken and assayed for plant parasitic nematodes and verticillium and thresholds used in your management decision for potato early dying?

*(Check only one)*

- Yes
- No
- Not applicable

**2A** Is certified seed planted?

*(Check only one)*

- Yes
- No
- Not applicable

**3A** Are proper temperatures and conditions used during planting (at least 45 degrees F, soil moisture at 75% of field capacity)?

*(Check only one)*

- Yes
- No
- Not applicable

- 4A** Is weather data used for potato-specific concerns (e.g. Colorado potato beetle, late blight, early blight, irrigation, etc.)?  
*(Check only one)*
- Yes
  - No
  - Not applicable
- 5A** Is computer based decision support software (e.g. WISDOM, PCM) used for potato disease management?  
*(Check only one)*
- Yes
  - No
  - Not applicable
- 6A** Are irrigation scheduling tools (e.g. moisture sensors) used to match irrigation to crop need?  
*(Check only one)*
- Yes
  - No
  - Not applicable
- 7A** Are split applications of in-season nitrogen used and/or are slow release fertilizers used?  
*(Check only one)*
- Yes
  - No
  - Not applicable
- 8A** Is supplemental nitrogen based on petiole sampling?  
*(Check only one)*
- Yes
  - No
  - Not applicable

- 9A** Are rotations planned to limit concerns of weed, disease and/or insect pests (e.g., areas with known low populations of verticillium, nematodes, weeds and /or proximity to overwintering CPB's)?  
*(Check only one)*
- Yes
  - No
  - Not applicable
- 10A** Are cover crops (e.g. brassicas, sorghum sudan, etc.) planted specifically for suppression of potato early dying?  
*(Check only one)*
- Yes
  - No
  - Not applicable
- 11A** Are crop rotations planned to control weeds problematic in potatoes and prevent weed seed escapes in and around fields?  
*(Check only one)*
- Yes
  - No
  - Not applicable
- 12A** Are biocontrol agents used when applicable?  
*(Check only one)*
- Yes
  - No
  - Not applicable

**13A** Which of the following practices are used to manage potato insect pests?

*(Check all that apply)*

- Completely kill foliage to reduce aphid transmission of viruses after vinekill
- Avoid planting potatoes within ¼ mile from previous potatoes to avoid overwintering insect pests (e.g. Colorado potato beetle)
- Target Colorado potato beetle eggs and/or small larvae for control with foliar insecticides
- Promote natural control with pest specific insecticides
- Avoid planting potatoes into sod or grassy areas to limit soil insects (e.g. wireworm, white grub)
- Use heat units to predict insect development (Colorado potato beetle)
- Monitor corn borer adults in traps or grassy areas
- Not applicable

**14A** Which of the following are used to manage potato diseases?

*(Check all that apply)*

- Store seed for 5-7 days after cutting to suberize potatoes
- Use varieties with resistance to pathogens (e.g. scab, nematodes and late blight)
- Eliminate nightshade weeds and volunteer potatoes to limit late blight inoculum
- Eliminate cull piles for late blight control
- Remove potato vines to reduce verticillium
- Not applicable

**15A** Are potatoes harvested at proper temperatures (between 45 and 65 degrees F)?

*(Check only one)*

- Yes
- No
- Not applicable

**16A** Are practices and/or equipment used to limit contaminants during the size grading, sorting, packaging and/or canning process?

*(Check only one)*

- Yes
- No
- Not applicable

**17A** Are potatoes stored to ensure food safety (e.g. using proper conditions, timings, cleaning methods and disinfectants)?

*(Check only one)*

- Yes
- No
- Not applicable

**18A** Is storage quality monitored (e.g. limiting bruise, shrink, and managing disease)?

*(Check only one)*

- Yes
- No
- Not applicable