Potato Variety Trial – Common Scab Evaluation, 2008

**Purpose**
To evaluate symptom development of common scab on different potato varieties and breeding lines.

**Location**
Langlade County Airport Research Area, Antigo WI. Our trial is just off Highway 52, near the Antigo silt loam historical marker (same location as 2007)

**Contacts**
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**Cultivar**
- Up to 24 varieties
- Guard rows – 2 on each edge, 4 rows x 40 ft = ~30 lb Yukon Gold (B size)

**Seed Trt**
- None

**Layout**
- 2 rows/trt x 24 trts = 50 rows/rep + 2 guard rows on each side = 52 rows = 156’ wide. Alley between reps = 25’; 4 reps + 3 alleys = 115’.
- Mechanical planting, cover with planter
- Any foliar application to be sprayed ACROSS rows (driving along cross alleys, not down rows), no spray alleys included parallel to rows

![Diagram of experimental setup]

**Labels**
4 per plot - each end of each row (101-124, 201-224, 301-324, 401-424)

**Inoculation**
None, field limed to promote scab favorable environment

**Planting**
Date: Record environmental conditions on worksheet

**Treatment application**
Standard foliar fungicide, insecticide, herbicide applications during the growing season
- Minimal (survival) irrigation

**Evaluation**
Emergence - Record once a week for each plot until majority emerged

**Harvest**
Harvest 20 feet of row (two 10-foot long rows).
- Rate for scab as done for previous trials (40 US#1 size tubers/plot rated – BEFORE removing culls)
- Grade (US#1, undersize, culls). Conversion factor to CWT/A is 7.26 for 20 feet of row harvested.

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