

Tier 3

- **W9742-3rus.** This clone derives from the cross A99134-1 x Dakota Trailblazer, which was made by the USDA-ARS breeding program in Aberdeen (family A06116), and was first selected in the field at the UW Rhinelander Research Station as a single plant in 2008. It was tested in the NFPT in 2015 and 2016. Except for Idaho in 2015 (denoted ID15), it ranked in the top 4 clones at all locations in both years of the trial for overall merit by the participants of the NFPT Field Day in East Grand Forks (Figure 1). From this we can conclude its appearance is very good across diverse environments. It has a large size profile, perhaps slightly larger than Ranger Russet (Figure 2). Acrylamide levels were 20–50% below Russet Burbank in 2015 (Figure 3). One limitation is that W9742-3rus has very high dry matter content, with specific gravities typically over 1.095 (Figure 4). This makes the clone attractive for locations where meeting specific gravity targets is challenging, such as Wisconsin and potentially some locations in the Columbia Basin, but I leave it up to the NFPT Variety Selection Committee to decide whether there is sufficient national interest to enter W9742-3rus in Tier 3.
- **CW08071-2.** This clone derives from the cross A93157-6LS x Canela Russet, which was made by the CSU breeding program, and was first selected in the field at the UW Rhinelander Research Station as a single plant in 2010. CW08071-2 was tested in the 2014 and 2015 NFPT. I did not re-enter the clone in the 2016 NFPT because it showed only modest reduction in acrylamide in 2015 compared to Russet Burbank (Figure 3). However, according to the 2015 NFPT Report distributed by Potatoes USA, CW08071-2 was #1 overall for positive attribute rank. We have enough seed to enter the clone in Tier 3 if there is national interest.

Tier 2

- **W10074-3rus.** This clone derives from the cross Premier Russet x Freedom Russet, which was made by the UW program in 2009, and was first selected in the field at the UW Rhinelander Research Station as a single plant in 2011. The clone was in the NFPT in 2015 but not in 2016. According to the 2015 NFPT Report distributed by Potatoes USA, W10074-3rus was #3 overall for positive attribute rank. Of particular note, the acrylamide was more than 50% reduced compared to Russet Burbank (Figure 3).

Tier 1

- Unfortunately, no FY4 russet clones in the UW program have sufficient merit to advance for national testing this year.

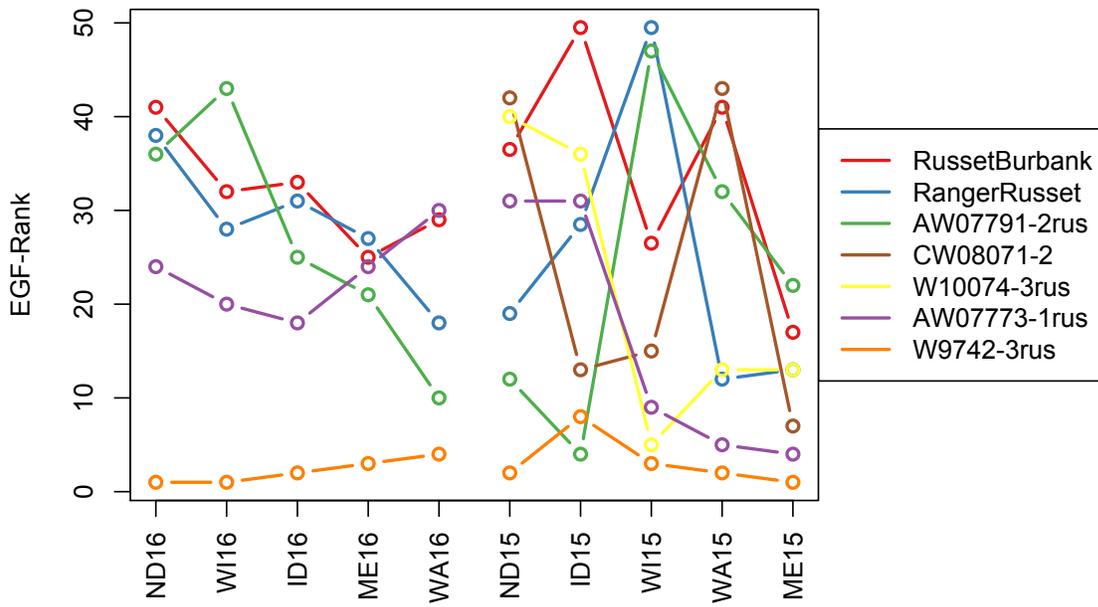


Figure 1. Overall merit rank by participants at the East Grand Forks field day.

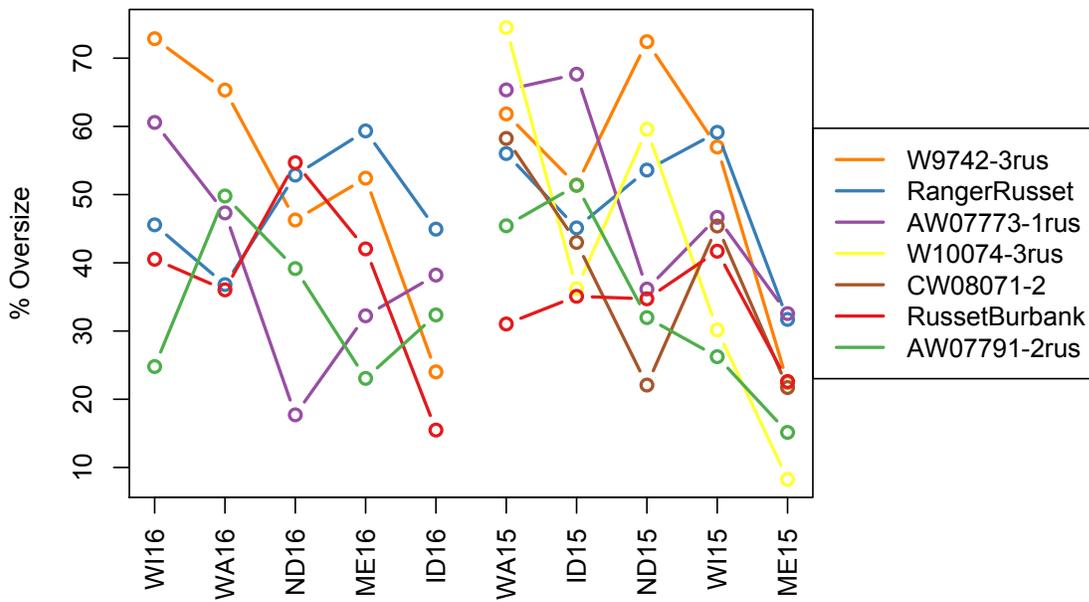


Figure 2. Percent of marketable yield in the oversize category (> 10 oz).

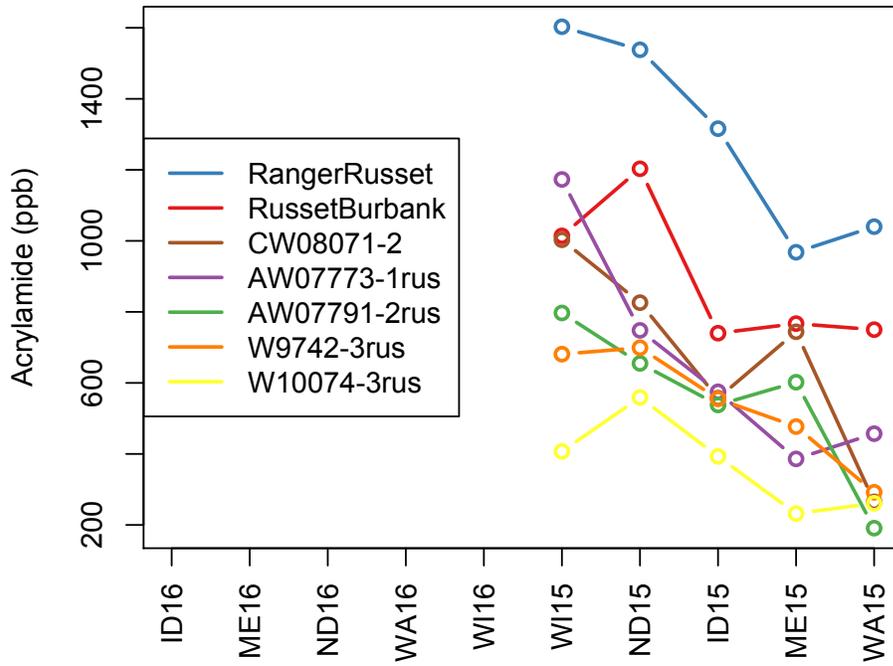


Figure 3. Acrylamide in finished fries from the East Grand Forks Potato Research Worksite.

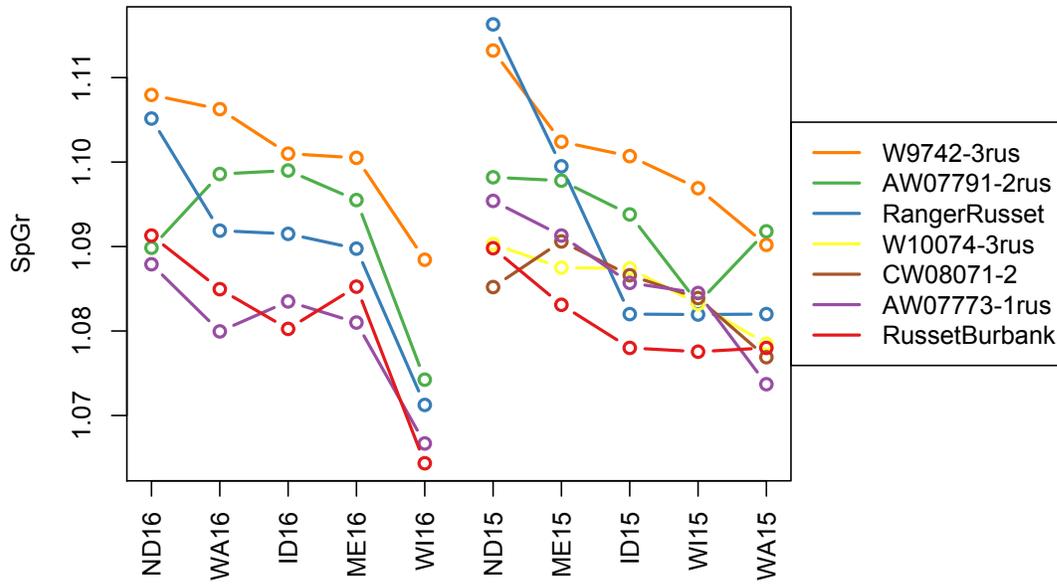


Figure 4. Specific gravity.

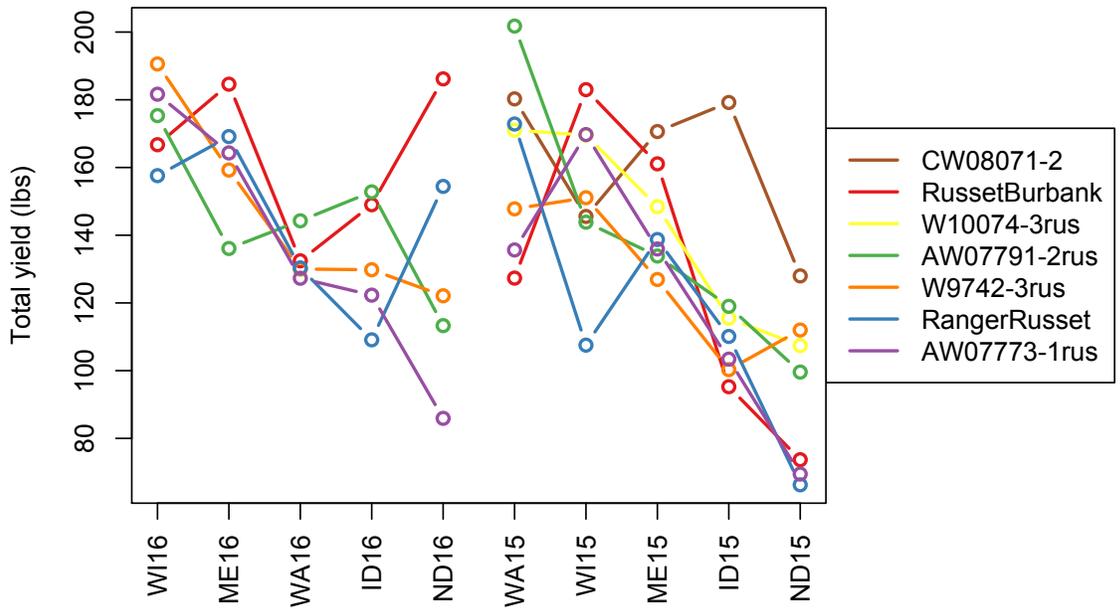


Figure 5. Total yield per plot.