

A database is publically available with a collection of results from two national efforts to identify promising clones for the potato industry. The National Fry Processing Trial (NFPT) is a multi-year and multi-location national effort that aims at identifying new potato breeding lines with low acrylamide forming potential while maintaining or exceeding the outstanding agronomic quality and consumer acceptance found in current varieties. To date the trial has evaluated 186 new breeding lines across four years (2011-2014) and five locations (ID, ME, ND, WA, and WI). In addition to NFPT, another nationwide project called the agronomic trials funded by USDA-NIFA-SCRI to address acrylamide formation in finished potato products was initiated in 2012 at six locations (ID, ME, MN, OR, WA, and WI) with the objectives of specifically investigating the agronomic and storage performance of selected promising breeding lines from NFPT specific for low acrylamide. There were 15 and 10 lines tested in the agronomic trials during the two trial years (2013-2014). Yield, size distribution, tuber shape, individual tuber solid content, tuber internal defects as agronomic traits; specific gravity, sucrose and glucose, fry color, and sugar end defect incidence after storage at 48° F as the storage traits were assessed. Access the database for specific information. Additional information is available at the SCRI-acrylamide project website:

<http://acrylamide.vegetables.wisc.edu/nfpt/>

Then click on NFPT Database and choose the first line, FullAccess.

Username: NFPT

Password: potato