

Scheme of the Texas A&M Potato Breeding Program

Color codes: green (greenhouse), maroon (field), blue (laboratory: molecular, or tissue culture).

- > The breeding method used is recurrent phenotypic selection.
- Marker-assisted selection (MAS) and genomic selection (GS) is incorporated to test new parents and selections at field year three for re-entering them into the crossing block.
- ➤ Quality evaluations start in year four (second field year).
- Agronomic evaluations start in year five.
- ➤ Disease, pest, management, and post-harvest evaluations are done in TX, SWR (SW Regional), and WR (Western Regional) trials.
- ➤ Chipping clones are evaluated in EGGS (Early Generation Selection Trials), NCPT (National Chip Processing Trials).
- > Promising French fry clones are evaluated in NFPT (National French Fry Processing Trials).
- Later phases involve commercial testing via MTA (Material Transfer Agreement) and PVP (Plant Variety Protection).