Yr. 1 (GH)
Yr. 2 (GH) ${ }^{\prime}$
Yr. 3 from ND, cO, ID

Yr. 4

Yrs. 5-6

Yrs. 7-8
Yrs. 9-10

| WR | WR | WR |
| :---: | :---: | :---: |

CX - Crosses
${ }^{\sim} 80$ parents - College Station, TX
~20,000 B+C seedling tubers shared with ND, CO, ID

Potato Breeding Scheme
(Cont. next page)

Yrs. 11-12

in vitro clean up College Station, TX
re-testing \& increase San Luis Valley, CO

Foundation seed
San Luis Valley, CO

Foundation seed
San Luis Valley, CO CSS, NE

## 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).

