

Breeding. Inbred. N540. PL-275. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progneitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594087. *Zea mays* L. ssp. *mays*

Breeding. Inbred. N541. PL-276. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594088. *Zea mays* L. ssp. *mays*

Breeding. Inbred. N542. PL-277. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594089. *Zea mays* L. ssp. *mays*

Breeding. Inbred. N543. PL-278. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling tolerance to post-emergence freeze. Yellow dent inbred with a red cob. Developed from a synthetic undergoing recurrent full-sib selection for tolerance to sub-optimal temperatures using growth chamber evaluations. Populations also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate cycles of selection. S2 progenitor exhibited 100 percent germination in growth chamber under sub-optimal temperatures. Adapted to central and southern Nebraska.

PI 594090. *Zea mays* L. ssp. *mays*

Breeding. Inbred. N544. PL-279. Pedigree - Inbred from Nebraska S synthetic following multiple cycles of recurrent selection to sub-optimal temperatures using growth chamber evaluations and seedling