

cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

**PI 594061. *Zea mays* L. *ssp. mays***

Breeding. Inbred. N512. PL-250. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

**PI 594062. *Zea mays* L. *ssp. mays***

Breeding. Inbred. N513. PL-251. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

**PI 594063. *Zea mays* L. *ssp. mays***

Breeding. Inbred. N514. PL-252. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

**PI 594064. *Zea mays* L. *ssp. mays***

Breeding. Inbred. N515. PL-253. Pedigree - Inbred from Nebraska S synthetic following twelve cycles of recurrent selection for grain yield and tolerance to sub-optimal temperatures. Yellow dent inbred with a red cob. Developed from synthetic undergoing recurrent selection using a combination of full-sib and S1 selection. Selection of full-sibs based upon grain yield; S1 selection based upon tolerance to sub-optimal temperatures in the field during germination and seedling growth. Adapted to central and southern Nebraska.

**PI 594065. *Zea mays* L. *ssp. mays***

Breeding. Inbred. N516. PL-254. 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. Population also subjected to selection of surviving seedlings following exposure to post-emergence freezes in field nursery in three separate