# Cultivar Selection to Increase Production in the Solar Corridor System. (A08-deichman103459-Oral)

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## Abstract:

As reported in our 2000 paper with average control yield of 186 bu at all locations, the wide row treatments averaged at all locations yielded 200 bu with 1 hybrid at 15,000 plants per acre, 2 hybrids at the average of all populations and 3 hybrids at 30,000 plants per acre. At one location we produced another crop between the wide rows. We have found that we can, year after year under field conditions: (1)produce as much or more corn in 60 inch rows as in 30 inch row controls if we recognize that results are hybrid specific, hybrid selection is site specific and effected by row direction and configuration(twin or single rows) and may well have different population thresholds in this new production environment and, (2)produce another crop on what we call the solar corridor floor. Today we want to address the opportunities afforded us by the solar corridor floor crop. Our current developmental stage which focuses on cultivar selection for yield, mycorrhizae and rhizobium hosting capability and deterrence to gravid rootworms, soil erosion and weed growth will be discussed.

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