



# PLANTING DENSITY ECONOMICS

Based upon university and commercial trials, a higher planting density has many benefits. Those benefits include better canopy cover to combat competition from weeds and reduced evaporation of water from the soil. Additionally, for autoflower varieties such as Maverick and Pipeline, the potential yield gains at higher densities greatly improves the growers net returns per acre.

## STANDARD DENSITY EXAMPLE

Recommended planting density = 13,000 plants

Cost per acre for feminized seed = \$1,650

Total estimated farming cost = \$5,000 per acre

Total estimated harvest cost = \$1,500 per acre

**Total per acre production cost = \$8,150**

Total estimated yield per acre at 100% stand

(3.5 oz./plant) = 2,844 lbs per acre

Total estimated yield per acre at 80% stand

(3.5 oz./plant) = 2,275 lbs per acre

**Projected market value in 2020 = \$5/lb.**

**Total revenue (80% stand) = \$11,375 per acre**

**Total net revenue (80% stand) = \$3,225 per acre**

## HIGH DENSITY EXAMPLE

Recommended planting density = 26,000 plants

Cost per acre for feminized seed = \$3,300

Total estimated farming cost = \$5,000 per acre

Total estimated harvest cost = \$3,000 per acre

**Total per acre production cost = \$11,300**

Total estimated yield per acre at 100% stand

(3 oz./plant) = 4,875 lbs per acre

Total estimated yield per acre at 80% stand

(3 oz./plant) = 3,900 lbs per acre

**Projected market value in 2020 = \$5/lb**

**Total revenue (80% stand) = \$19,500 per acre**

**Total net revenue (80% stand) = \$8,200 per acre**