

YIELD RESPONSE OF EIGHT MANGO CULTIVARS GROWN
UNDER TWO MICROIRRIGATION SYSTEMS AT THE
COASTAL ZONE OF THE PIAUI STATE, BRAZIL

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The study was carried out in an mango orchard of the Embrapa Meio-Norte, located at the coastal zone of Piauí State, in a sandy soil, Koppen's Aw climate, annual average temperature of 27.2 °C, air relative humidity of 75% and annual average precipitation of 1.300 mm. The plants were grown at the spacing of 9 x 8 m, under a trickle and a drip irrigation systems. The yield data were collected during five years, from 1992 (3-year-old) to 1996 (7-year-old). The cultivars evaluated were: Tommy Atkins, Haden, Kent, Keitt, Ruby, Sensation, Irwin and Sandersha. The average yield ranged from 1.94 t/ha (Ruby) to 6.05 t/ha (Irwin), in the trickle irrigation system, and from 2.15 t/ha (Keitt) to 6.09 t/ha (Irwin), in the drip irrigation system. The number of fruits per tree varied from 25.37 (Ruby) to 135.34 fruits (Tommy Atkins), in the trickle irrigation system, and from 25.92 (Keitt) to 137.66 fruits (Irwin), in the drip irrigation system, whereas the average fruit weight ranged from 331.35 g (Irwin) to 555.74 g (Tommy Atkins) and from 334.45 g (Irwin) to 530.98 g (Tommy Atkins), to the trickle and drip irrigation systems, respectively.