Effect of organic manures or chemical fertilizers on yield and quality of banana fruits cv. BASRAI

K.M. PATEL, H.C. PATEL1, K.A. PATEL1, V.B. CHAUHAN1 AND J.S. PATEL1

ABSTRACT: A field experiment was conducted to see the effect of organic manures/chemical fertilizers on yield and quality of banana cv. Basrai during the years 1994 to 2000 at Horticultural Research Farm, B. A. College of Agriculture, Anand Agricultural University, Anand. The experiment was laid out in Randomized Block Design (RBD) with eight treatments and four replications. Among different organic manures and chemical fertilizers, the treatment T2 recorded significantly the highest fruit yield i.e. 17.50 kg/plant in year 1995. While treatment T7 recorded significantly the minimum physiological loss in weight i.e. 10.04 per cent in year 2000.

KEY WORDS: Banana, Organic manures, Chemical fertilizers, Yield, Quality

RESEARCH METHODS

A field experiment was conducted at the Horticultural Research Farm, Department of Horticulture, B. A. College of Agriculture, Anand Agricultural University, Anand during the years 1994 to 2000. Details of treatments are mentioned below. T1 = Recommended dose of chemical fertilizer i.e. 10 kg FYM, 180 g N + 90 g P2O5 + 180 g K2O/plant, T2 = 10 kg FYM + 180 g N in organic form (castor cake) + 90 g P2O5 + 180 g K2O/plant, T3 = 10 kg FYM + 180 g N in organic form (Bone meal) + 90 g P2O5 + 180 g K2O/plant, T4 = 10 kg FYM + 180 g N in organic form (press mud) + 90 g P2O5 + 180 g K2O/plant, T5 = 10 kg FYM + 180 g N in organic form (FYM), T6 = 10 kg FYM + 6 kg dry leaves (Sapota) embedded in a Randomized Block Design with four replications.

The observations were recorded on no. of functional leaves/plant at harvest, stem circumference, plant height, no. of hands/