

Fruit harvest maturity indicators for mango cultivars 'Sindhri' and 'Samar Bahisht Chaunsa'

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Abstract

The storage life and quality of mango fruit is significantly influenced by the stage of harvest maturity. Fruit harvest maturity indicators for the Pakistani mango cultivars have not been scientifically determined so far. Present studies were targeted to determine different fruit harvest maturity indices for two commercial mango cultivars ('Sindhri' and 'Samar Bahisht (S.B.) Chaunsa' of Pakistan. Significant interaction was found between panicle emergence and fruit maturation (harvest date) regarding fruit pulp dry matter contents in both cultivars. In 'S.B. Chaunsa' mangoes, significant interaction was found between panicle emergence and maturation with respect to specific gravity, TSS, shoulder position and pulp colour. Both 'Sindhri' and 'Chaunsa' mangoes were found to have light yellow pulp colour near the stone at the onset of maturity. Mature 'Sindhri' fruit had $1.0-1.02$ specific gravity, 6.0-7.5°Brix TSS, 17-20% pulp dry matter and drooping to levelled shoulders. The fruit of 'S.B. Chaunsa' had 1.02-1.04 specific gravity, 9.0-11.0°Brix TSS, 18-21% pulp dry matter and levelled to raised shoulders at maturity.