Productivity Gap and its Determinants in Smallholder Farms: A case study of Mango Produc[...] Makueni county, Kenya

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Abstract

Improving agricultural productivity requires an understanding of the extent of and cha[...] involved in the production process. In this study, we determine the yield gap using bound[...] analysis and analyze the factors contributing to the gap in mango production using m[...] regression in Makueni County, Kenya. A total of 60 smallholder mango farmers were ra[...] sampled and data was collected on actual and potential mango yield, fertilizer use, ac[...] extension services, acquisition of a credit, membership to farmers' groups, farmer's ag[...] education level and years in mango production. Results from the study indicate that the a[...] yield is 10.1 MT/ha/yr while the potential is 18.4 MT/ha/yr. Further, the results indica[...] farmers' access to extension services, acquisition of credits, fertilizer use, membership in f[...] groups and education level significantly determined the productivity gap in the area. An im[...] understanding of the productivity gap and its determinants are important in the developr[...] management strategies aimed at increasing mango production among smallholder farmers.

Key Words: Mango productivity, Boundary Line Analysis, Multiple Regression, Makueni Coun[...]