



## Research paper

# Efficiency and Economic Feasibility of Manual and Chemical Weed Control in Faba Bean

**Alaeldin M. Elhassan<sup>a</sup>, Khalifa A. Khalifa<sup>b</sup> and Hassan S. Abbas<sup>c</sup>**

<sup>a</sup> Hudeiba Research Station, Eddamer, P.O. Box 31

<sup>b</sup> College of Agricultural Studies, Sudan University of Science and Technology

<sup>c</sup> Faculty of Engineering, Sudan University of Science and Technology

**Corresponding author:** [alaeldinelhassan@yahoo.com](mailto:alaeldinelhassan@yahoo.com)

## ABSTRACT

The performance of hand weeding was compared with that of a tank mix of herbicides imazythapyr (Pursuit) and pendimethalin (Stomp) applied as pre-emergence treatment for weeds control in faba bean (*Vicia faba*) in the River Nile State for two successive seasons (2005/06-2006/07). Hand weeding was undertaken once at 4 weeks after sowing and twice at 4 and 6 weeks after sowing. Pursuit in tank mix with Stomp was applied at the recommended rate. There was a variation in efficiency of hand weeding and herbicides application, the mean of the total weeding efficiency of hand weeding at 4 and 4+6 weeks after sowing and pre-emergence herbicides was 75.4, 78.6 and 87.1%, respectively. The yield of the treated plots out yield the weedy plot. The net benefit from hand weeding was less than from using herbicides.

**Keywords:** *Herbicides, faba bean, weed control*