

Research Paper :

Development of tractor drawn inter-row rotary weeder

R.K. RATHOD, P.A. MUNDE AND R.G. NADRE

Accepted : *March, 2010*

See end of the article for authors' affiliations

Correspondence to:

R.K. RATHOD

Department of Farm Power and Machinery, College of Agricultural Engineering and Technology, Marathwada Agricultural University, PARBHANI (M.P.) INDIA

ABSTRACT

The tractor drawn inter-row rotary weeder was developed with an objective of mechanical means of weeding and keeping in view the crop, soil and machine parameters. Weeding is an important practice to be carried out during the initial stages of crop growth especially for controlling the weeds competing with the crop, stirring the soil for aerating the crop root zones and for burying the weeds into the soil. The weeder is suitable for crops having maximum row spacing. The width of inter-row rotary weeder could be change according to the crop row spacing. The developed weeder was evaluated at different test fields for different crops from the field tests it is seen that weeding efficiency 92.23 per cent field efficiency 86.34 per cent and field capacity was 1.43 ha/day.

Key words : Power weeder, Tractor operated weeder, Inter row rotary weeder, Weeding parameters