Journal of Pharmacognosy and Phytochemistry

Available online at www.phytojournal.com

E-ISSN: 2278-4136
P-ISSN: 2349-8234
JPP 2019; 8(5): 1943-1944
Received: 18-07-2019
Accepted: 22-08-2019

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Research Note

Performance evaluation of Weeders in cotton

Aman MOR and Kapil

Introduction

The experimental study on "Performance evaluation of Weeders in cotton" was planned and conducted during *kharif* (summer season) of the year 2013-14. Work was carried out at Cotton Research Farm, CCS Haryana Agricultural University Hisar.

The field experiment was carried out to evaluate the performance of five different Weeders. Four replications of each treatment were taken. Treatments used for the study were:

T1 = Tractor operated inter row rotary Weeders (Make, M1)
T2 = Tractor operated inter row rotary Weeders (Make, M2)
T3 = Tractor operated high clearance cultivator (Make, M3)
T4 = Walk behind engine operated power Weeders (Make, M4)
T5 = Hand Hoe i.e. Kasola (Make, M5)

T1

T2

T3

T4

T5

Table 1: Economic parameters of different weeding methods

.Sr. No	Parameters	Treatments				
		T1	T2	T3	T4	T5
1	Cost of operation, Rs/h	507.35	469.99	397.05	180.75	50.00
2	Cost of operation, Rs/ha	939.53	796.59	496.31	1129.68	8000.00
3	Saving in cost of operation over control, Rs/ha	7060.47	7203.41	7503.69	6870.32	-
4	Saving in cost of operation over control, %	88.00	90.00	93.00	80.00	-
5	B:C ratio, machine	1.57	1.70	2.01	4.4	-
6	Payback period, years	1.7	1.1	0.44	0.80	-
7	Labour requirement man-h/ha	1.85	1.69	1.25	6.25	160
8	Saving in labour requirement, %	98.80	98.94	99.20	96.00	-