

Reference: - eagri.org

# **Weeding Equipment**

- Khurpi (a hand hoe ) take 300 400 man hours per hectare. Takes more time so yield is loss by 20 60 %.
- Wheel hoe and peg type weeder are more efficient than khurpi take 25 110 hours per hectare.

S. No.	No. Name of implement Size(mm) Work Ca		apacity			
			Ha/h	h/Ha		
Power of tiller operated						
1	3 tyned cultivator/sweep	1000	0.2	5		
1	9 – 11 tyned tiller	2500	0.45	2-2.5		
2	5 tyned sweep	2500	0.45	2-2.5		
		Self-propelled weeder	r			
3	CIAE/TNAU power weeder	500	0.125	8		
		Manual Operated				
4	Gruber	150-200	0.012	80		
5	Dry land peg weeder	150-200	0.025	40		
6	CIAE twin wheel hoe	150-200	0.025	40		
7	PAU wheel hoe	150-200	0.035	30		
Animal Operated						
8	Three tyned sweep/cultivator	600	0.2	5		
9	Dora	300	0.1	10		



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## **Equipment for Spraying and dusting operations**

Manually Operated:

			Work Ca	pacity
S. No.	Name of the Implement (manually operated)	Size(mm)	ha/h	h/ha
1.	Hand compression sprayer	14 liters	0.095	10.5
2.	Lever operated Knapsack sprayer	13 – 16 litters	0.095	10.5
3.	Foot sprayer		0.165	6
4.	Duster	4 – 5 kg	0.25	4
5.	Controlled droplet sprayer	1 kg	0.22	5

## Power operated:

			Work Capacity	
S. No.	Name of the Implement (power operated)	Size(mm)	ha/h	h/ha
1.	Knapsack sprayer cum - duster	5 liters	0.22	5
2.	Stationary power operated sprayer	5 – 10 litters	0.35	3



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#### • Tractor Operated:

Name of the Implement			Work Capacity	
S. No.	(tractor operated)	Size (mm)	ha/h	h/ha
1.	Tractor operated sprayer	5000 mm	0.5	2

### • Self-Propelled

	Name of the Invalence		Work Capacity	
S. No.	Name of the Implement (self-propelled)	Size (mm)	ha/h	h/ha
1.	High clearance sprayer	10000 mm	0.5 - 1.0	1-2

### **Equipment for harvesting operation**

### • Manually operated implement

C N-	Name of the Implement	Size (mm)	Working Capacity	
S. No.	rume or the imprement		Ha/h h/ha	h/ha
1.	CIAE Serrated sickle.		0.008	125

### Animal operated implement

S. No.	Name of the Implement	Size (mm)	Working Capacity Size (mm) Ha/h h/ha	Capacity
		Size (iiiii)		h/ha
1.	CIAE Groundnut – cum – potato digger	500	0.1	10-12



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#### Power tiller operated

S. No.	Name of the Implement	Size (mm)	Working Capacity		
	Name of the implement		Ha/h	h/ha	
1.	Vertical conveyor Reaper	1200 mm	0.25	4	

#### Tractor operated

S. No.	Name of the Implement	Working ( Size (mm)		Capacity
S. Mei			Ha/h h/ha	h/ha
1.	Vertical conveyor Reaper	2000 mm	0.4	2.5
2.	CIAE Soyabean reaper	2000 mm	0.25	2.5

### Self-propelled machines

	Name of the London		Working	Capacity
S. No.	Name of the Implement	Size (mm)	Ha/h	h/ha
1.	Vertical conveyor Reaper	1000 mm	0.25	4
2.	Combine harvester	4200 mm	1.5 - 2.00	0.75 - 0.25

# **Equipment for Threshing Operation**

S. No.	Equipment for threshing Operation	Size	Work Capacity Kg/h.
1.	Power operated thresher	5 – 10 HP	200 – 500
2.	2. CIAE Multi – crop thresher	5 – 10 HP	200 - 500
3.	3. High capacity multi – crop thresher	15 – 20 HP	1500 - 2000
4.	4. Tractor PTO operated multi-crops thresher	25 - 35 HP	1500 - 2500
5.	5. Paddy thresher	5 – 15 HP	200 - 1000
6.	6. Maize thresher	5 - 15 HP	500 - 2000
7.	7. Ground nut thresher	10 - 15 HP	500 - 1000

- Most of farmer used thresher which are operated by 5 15 HP.
- Dangerous machine(regulations) act 1983 guideline for manufactures, users and dealers.