



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...*  
*Empowering Communities...*

# **METHODS OF PLANTING/SEEDING**

**BROADCASTING**

**SEED DRILLING**

**HILL DROPPING**

**SEED PLANTING**

**PRECISION PLANTING**

**CHECK ROW PLANTING**



**Centurion**  
**UNIVERSITY**

*Shaping Lives...  
Empowering Communities...*

# PLANTING METHODS AS PER SURFACE PROFILE

## ▲ MINIMUM TILLAGE PLANTING

- ▲ Zero tillage planting
- ▲ Strip tillage planting
- ▲ Till plant
- ▲ Lister planting

**These system is used for planting crops like wheat, corn, soybean and sorghum**



**Multicrop Ridge planter**



**Zero till happy seeder**



**Zero till multi-crop planter**





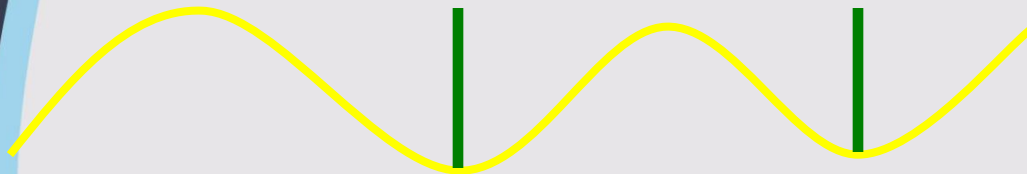
Centurion  
UNIVERSITY

## **Furrow planting or Lister planting**

**Practised in semi arid condition**

**Corn, cotton, sorghum**

**The furrow protect the seedling from  
wind erosion**





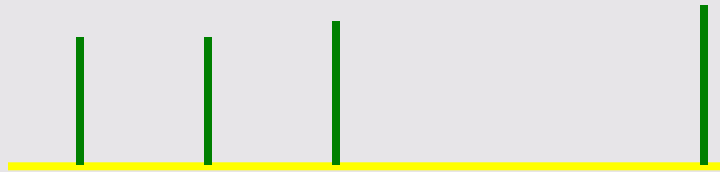
Centurion  
UNIVERSITY

Shaping Lives...  
Empowering Communities...

# Flat planting

Planting is done on flat bed

Practiced where natural moisture condition are favorable





## **Bed planting**

**High rainfall area to facilitate surface drainage**

**Bed planting helps in conserving soil moisture, avoids soil compaction and promotes plant growth.**

**Practised in irrigated area**

**Sugar beat, lettuce, vegetables**

**Now-a- days wheat is also grown in raised bed**

**Two or more rows**

**Irrigation in the furrows**

**Water requirement is less**



Centurion  
UNIVERSITY

# PLANT POPULATION & SPACING

Optimum plant numbers per m<sup>2</sup> area

Helps in better growth of plant

Gives good yield

Every seed variety has a recommended plant population

Spacing is also important for plant growth and yield

Plant population and spacing depend on

Crop, soil type, fertility level, moisture availability,





**Centurion**  
**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*

# Parts of a seed drill/planter

Seed and fertilizer  
box, or hopper

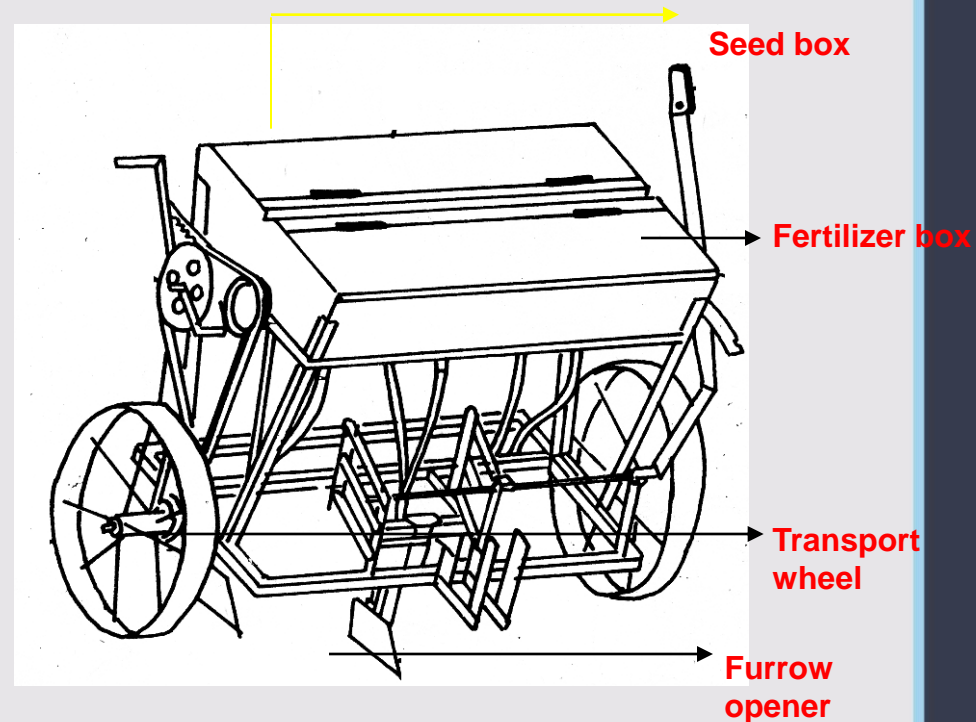
Furrow opener

Metering device

Seed tube

Furrow closer

Transmission unit





**Centurion**  
**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*

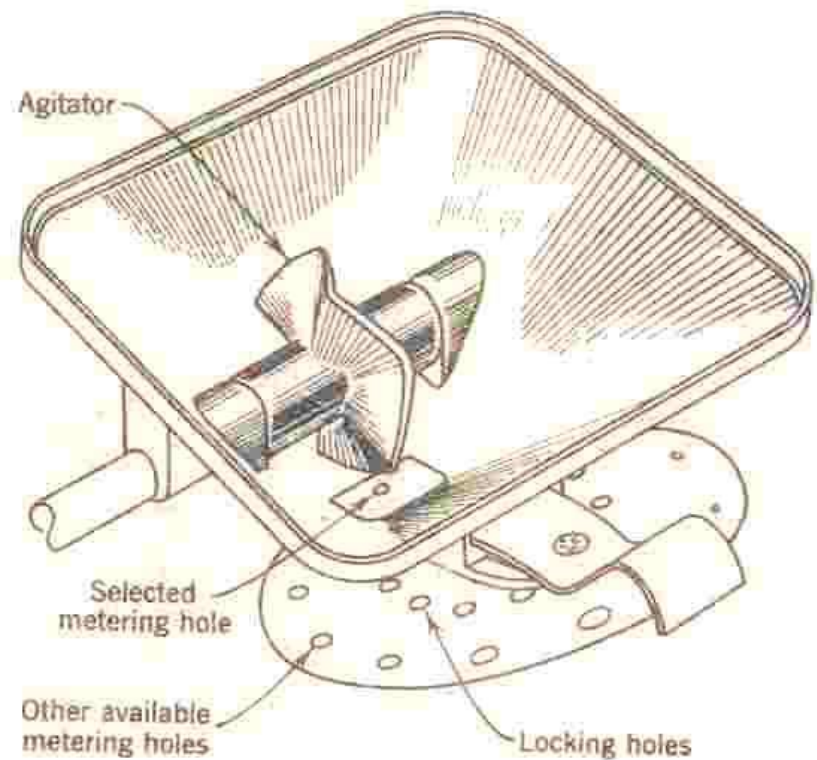
# TYPES OF METERING MECHANISM

IN CASE OF SEED DRILL:

Gravity flow type

Fluted roller type

Cell type



Stationary-opening seed-metering device with agitator, as employed on