

Mixed Farming



It is a type of farming which involves both the arowing of crops and raising of livestock (Agriculture Livestock)

Plantation Agriculture

- In this single type of crop or plant is grown in a big part of a land -> Factory or processing unit connected
- Eq: Cotton, jute, sugarcane, rubber, tea, coffee

Grown to earn profit

→Cash crops →Grown to earn the profit in local market

Organic Farming

Agricultural process that uses biological fertilisers and pesticides acquired from animal or plant waste

Somehow similar

· Zero use of artificially made chemicals here

Zero Budget Natural Farming (ZBNF)

· No use of any kind of fertilizers/pesticides

Terrace Farming

- •The process of cultivating crops on sites of hills or mountains by planting on graduated terraces carved into the slope
- It is mostly practised in India's hilly regions, such as Himachal Pradesh, Uttarakhand and certain North-Eastern provinces



Difference Between Mixed Cropping and Intercropping

Soil conservation is aided ·Reduces soil erosion

Intercropping and Mixed Cropping

Similarities: growing two or more crops in the same field

Differences

Mixed Cropping ·Seeds of two different crops are mixed before sowing

Intercropping

 Seeds are not mixed and grown in a row format



Mixed	Cropp	ung

Growing two or more crops in the same field.



Growing two or more crops in the same field in a row format.

Kharif	Rabi	Y	Zaid	
· Sowing: July	Sowing: Oc	st	·Short cropping season	
•••	Harvesting		·May-June	
Harvesting: Sept-Oct		g. 7 (p) (i	May-June	1
·Also known as Monsoon	crops			
Vhant famanat	Daltana	7-14		
Kharif crops 1. Rice	Rabi crops 1. Wheat	2aid	crops	
2. Sugar-cane	2. Barley	2. Maize		
3. Jute	3. Gram	3. Melons		
4. Cotton	4. Mustard	4. Groundni	nt l	
5. Tobacco	5. Linseed	5. Water me	lons	
6. Maize	6. Pea	6. Cucumbe	r	
7. Soya bean	7. Rapeseed	•Fodder cro	ps	
8. Groundnut	8. Castor			
*			1	
•	nous plants		*	
• Millets				
Different Types of Crops				
Cotton				
Cotton	Y			
Cotton It requires black soil	as Silver Fibre			
Cotton It requires black soil Fibre crop and also known				
<u>Cotton</u> It requires black soil Fibre crop and also known <mark>Requires</mark> : 210 frost free d				
Cotton It requires black soil Fibre crop and also known				
<u>Cotton</u> It requires black soil Fibre crop and also known <mark>Requires</mark> : 210 frost free d Kharif crop				
<u>Cotton</u> It requires black soil Fibre crop and also known <mark>Requires</mark> : 210 frost free d Kharif crop <u>Jute</u>				
<u>Cotton</u> It requires black soil Fibre crop and also known <mark>Requires</mark> : 210 frost free d				
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre	ays			
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre Topmost producer: India (1	lays West Bengal)			
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre Topmost producer: India (C Topmost exporter: Banglac	ays West Bengal) desh			
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre Topmost producer: India (1	ays West Bengal) desh			
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre Topmost producer: India (U Topmost exporter: Banglad Nor-westers good for grou	ays West Bengal) desh			
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre Topmost producer: India (U Topmost exporter: Banglad Nor-westers good for grow Coffee	ays West Bengal) desh vth of jute			
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre Topmost producer: India (1 Topmost exporter: Bangla Nor-westers good for grov Coffee Coffee bowl of the world:	ays West Bengal) desh vth of jute Brazil (topmost producer)		
Cotton It requires black soil Fibre crop and also known Requires: 210 frost free d Kharif crop Jute Golden fibre Topmost producer: India (U Topmost exporter: Banglad Nor-westers good for grow Coffee	ays West Bengal) desh vth of jute Brazil (topmost producer)		



• Soil: laterite

·Blossom showers help in growth of coffee

Rice

·Also known as paddy before processing

Sowed in swampy areas --> Methane gas is produced

· Requires: high rainfall and temperature

·Varieties:

Aus: grown in March

Aman: Jan-Feb

Boro: Oct

· Staple crop

Tea

Grown in acidic soil

· Moderate rainfall

· Required shadow

India (Topmost producer): Assam

In the world (topmost producer): China

Leguminous crops

·Nitrogen fixing bacteria reside in their roots-

·Kharif crops

•Eg. Pulse, Rajma, Soyabeans (top producer: MP)

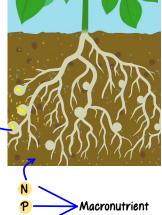
No rhizobium reside in thier

roots

Rhizobium bacteria

Millets

•Also known as Superfoods/Sri Anna •Eg: Bajra, Ragi (finger millets), Jowar (Sorgum) •Topmost producer: Rajasthan



India's most consumed staple crops: Rice and Wheat



AGRICULTURAL REVOLUTION

REVOLUTION	RELATED TO
Black Revolution	Petroleum Production
Blue Revolution	Fish Production
Brown Revolution	Leather, Cocoa
Golden Fibre Revolution	Jute Production
Silver Fibre Revolution	Cotton Production
Golden Revolution	Horticulture, Honey, Fruit Production
Silver Revolution	Egg Production
Green Revolution	Food Grain Production
Grey Revolution	Fertilizers
Red Revolution	Meat & Tomato Production
Yellow Revolution	Oil Seed Production
White Revolution	Dairy, Milk Production
Round Revolution	Potato Production

Green Revolution (wheat revolution)

1st in: Mexico + Latin America

Term: William Gaud

-> Spectacular increase in production of food grains

Father

World: Norman Borlaug (USA)

India: M S Swaminathan

> PL-480 variety of wheat (imported from USA)

In India Increase in wheat production

1970s

Introduction in High Yielding Variety seeds + Technology

It was introduced in two phases 3rd FYI

In 1st phase ——Introduced in Punjab, Andhra

Estd: FCI, CACP in 1965

PARMAR SSE

Demerits of Green Revolution

•Groundwater levels 🗸

• Soil alkalinity 1 ---> Gypsum can be added to reduce soil alkalinity and if the soil is acid then lime can be added

White Revolution (1970-96)

- ·Also known as "Operation flood"
- ·Reduced scarcity of milk production in India
- •Father: Dr. Varghese Kurien

Different Cultures in Agriculture

- •Horticulture: Culture of Garden crops
- •Viticulture: Grapes
- Aquaculture: Aquatic plants and animals
- •Pisiculture: Fishes
- •Sericulture: Silk
- Apiculture: Bees
- Silviculture: Forest management

• Hydroponics: technique of growing plant using water-based nutrient solution rather than soil

Soil Conservation Methods

. Contour Bunding/Ploughing: a land management practice for marginal, sloping and hilly land where the soil productivity is very low. It involves placement of the lines of stone along the natural rises of a landscape

Mulching: the process of covering the top soil, with plant material, such as leaves, grass, crop residue, etc

· Shelter belts: Planting rows of trees on one side of an area that prevents the wind from eroding the soil



Contour Bunding



Mulching



Shelter belts



One Liners (MCQ)

- . "Agriculture Census" is conducted in India at an interval of 5 yrs
- The technique of watering plants by making use of narrow tubes which deliver water directly at the base of the plant is called: Drip Irrigation
- . The word agriculture is derived from the latin words Ager and Culture, where "Ager" means soil
- · According to 2009 data by National Institute of Hydrology, 51.09% of land is used for agriculture

One of the adverse effects of DDT is that it can kill beneficial insects like honeybees