

Detailing some of Agro Climatic Regions of India

1] Location + Regional Map

2] Physiography

3] Type of Climate & Water

4] Soils

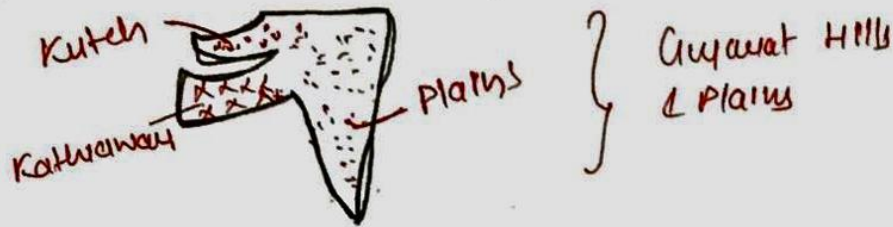
5] Suitable for which crops - actually grown
- to be grown

6] Challenges & solution → Water shed right
Rain water Harvesting

★ Can be done better once you have covered
Indian Physiography

9] Gujarat Hills & Plains -

- Much of state of Gujarat, include Gujarat Plains along mouth of Narmada & Tapi, Highlands of Kathiawar & part of Kutch plains



- Gujarat Physiography is a very narrow strip of coastal plains with alluvial soils, hard soils, lateritic soil in parts of Kathiawar & extensive salt flats of Kutch

- Good parts of Gujarat have Black Cotton soil as a part of Deccan Lava Plateau

- Gujarat is mostly dry region with avg rainfall < 60cm. parts of Gujarat Plains can have rains of 70-100 cm along the coast

- It has 4 fairly large rivers - Lower course of Narmada, Tapi, Sabarmati, Mahi. So there is potential of damming of rivers

L water dimension in dry regions of Gujarat

- o Gujarat is not a major agri region of India.
- o It has some of cotton growing region.
much of Gujarat Economy is based on Ports, Petrochemicals, Refining & Heavy engineering

Prospects for Agri. -

- a) Cotton Cultivatⁿ along coast
- b) some cotton & dry crops like millets in Kathiawar
- c) Live stock base milk industries and dairy farms like Anand & Kheda region & the green revolution

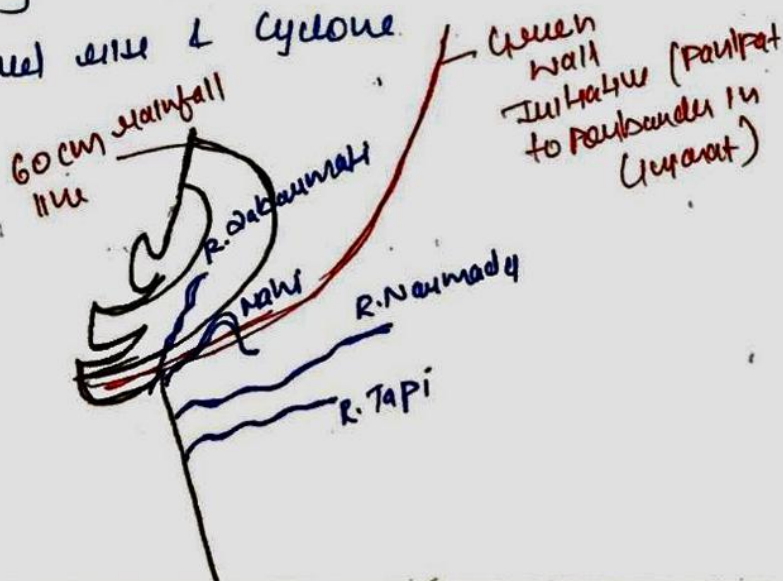
State of Gujarat has a rich tradition in agri cottage industries supported through SHGs (Self Help Groups) & women entrepreneurship that includes Pickle, Papad industries, spices like chilli industries

- Because of dry conditions, Gujarat has problems of land fallowing, Desertification & wasteland. Kathiawar & Kutch region need water shed right along with Agro Industries
- Initiatives like Green Wall Initiatives - from Porbander to Porwad.

State of Gujarat has much prospects in Dryland agri, Livestock based agri, Horticulture, Agro Forestry while also supporting its heavy engineering & Petro Chemical based

Tourism,

- o Coast of Gujarat can promote Tourism, fishing along with coastal mgmt against sea level rise & cyclone.



2] Eastern Plateau & Hills

- o state of Jharkhand, CG + Durg Hill regions of N. Orissa
- o Physiography - It includes CNP of Jharkhand - Ranchi, Hazaribagh, Bokaro, Palamu district, Dhanbad + C.G. - North Plains (Mahanadi Plains), C.G. Basin & Highlands of Bastar + Hill areas of western & northern Orissa (Rourkela, Bolangir) & KBK district (Koraput, Bolangir, Kalahandi)

◦ Climate - CNP - Rainfall > 100cm (wet)
 Bastar Hills - Dense Forest (Wetter)
 Narsim Odisha - dry & lesser rains
 relatively & is
 comparatively drier.

◦ Water,
Irrigation

It has hot summers
 & cool winters.
 Does not have extensive
 irrigatⁿ system (not
 very effective water
 right. + It has very
 large Dams - Hirakund
 Dam on R. Mahanadi

◦ Panchet Dam, Maithon Dam, Konark Project

◦ Bastar - Jindrapati Project

◦ The region has diverse Tribal community &
 their dependence on Minor Forest Produce (MFP)

◦ The region grows dry rice, millets, some
 amount of oil seeds & pulses

◦ Some of poorest region of India with high
 Tribal poverty but region has large mining
 economy which however has not contributed
 to substantial development of Tribal population
 Rural areas & agri.

- Rural areas
- River like Damodar & Hakra are prone to floods with soil erosion & High Rural to Urban Outmigration.
 - This region is vulnerable to conflicts due to Naxal problem related to land alienation Forest Rights Issues & also problems of Tribes exploitation

◦ Ageri is a dominant economy but not much developed with low productivity & subsistence Farming

◦ Region needs Dry land Ageri, Water & Soil Conservation along with Agro Forestry Prog. in support of Forest Economy of Tribes, Region has highest slope of MFP (Minor Forest Produce) - Mahua Industry, Tendu leaf, Turay oil etc

- Aqel Programmes should have- watershed development with focus on dryland components
 - ↳ focus on tribal group (Malia, Buhay tribes)
 - + (Santals, Khol, Gonda, Oraon tribes)
- #Reference pg 20.68 (Kumlan)

Inter linking of Rivers

- Initiated by Arthur Cotton (British Time)
- They 2 schemes came up by -

