



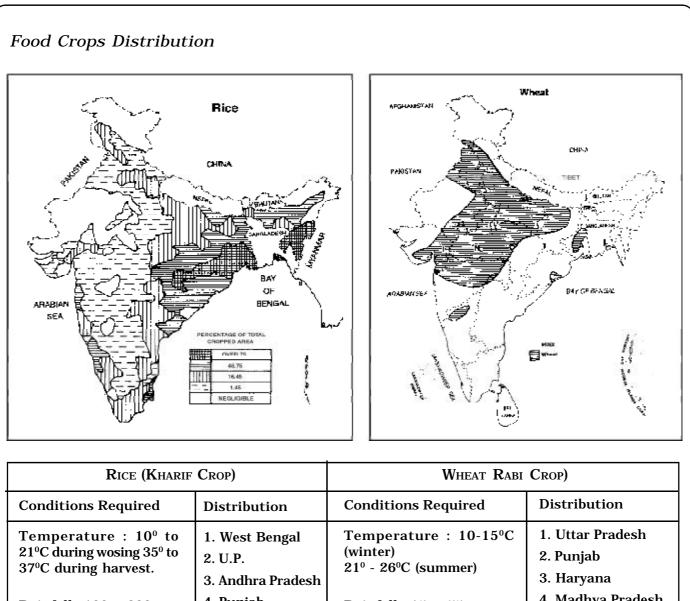
River Valley Projects

River Valley Projects			
Project	RIVER	State	PURPOSE
Bhakra Nangal Multipurpose Project.	Satluj	Joint venture of Punjab, Haryana and Rajasthan.	Irrigation, hydro electricity.
Bhakra dam: One of the highest gravity in the world. Govind Sagar Lake (H.P.) is a reservoir.	(A tributary of Indus).		
Thein Dam project	Ravi (A tributary of Indus).	Punjab	Irrigation, hydroelectricity.
Dulhasti project	Chenab (A tributary of Indus).	Jammu and Kashmir	Part of the programme of cascade development for irrigation.
Salal project	Chenab (A tributary of Indus).	Jammu and Kashmir	Irrigation.
Beas Project	Beas (A tributary of Indus).	Joint venture of Punjab, Haryana and Rajasthan.	Hydro electricity
Sharda Sahayak Project	Chuisot stream near Kalabagh	Uttar Pradesh	Irrigation, hydroelectricity.
Banasagar project	Son	M.P., Bihar and U.p.	Irrigation
Rihand Scheme Reservoir: Godind Ballabh Sagar (U.P.)	Rihand	Uttar Pradesh	Hydroelectricity for the development of south eastern industrial region of U.P.
Damodar valley multipurpose project	Damodar	West Bengal (also shared by Jharkhand).	Flood control, Irrigation, Hdroelectricity.
Four dams: Tilaiya and Maithon (on the Barakar River), Konar (Konar River) and Panchet (Damodar River).			
Mayurakshi project	Mayurakshi	West Bengal	Irrigation, hydroelectricity.
Hirakud, multipurpose Project (world's longest mainstream dam).	Mahanadi	Orissa	Irrigation, hydroelectricity.
Poochampad Project	Godavari	Andhra Pradesh	Irrigation.
Jayakwadi Project	Godavari	Maharashtra	Irrigation.
Nagarjuna Sagar	Krishna	Andhra Pradesh	Irrigation, hydroelectricity.
Upper Krishna Project	Krishna	Karnataka	Irrigation (Almatti dam is being constructed.



Tungabhadra multipurpose project	Tungbhadra (A tributary Krishna).	Joint venture of Andhra Pradesh and Karnataka.	Irrigation, hydroelectricity.
Ghatprabha project	Ghatprabha (A tributary of Krishna).	Andhra Pradesh and Karnataka.	Irrigation
Malprabha project	Malprabha (A tributary of Krishna).	Karnataka	Irrigation
Bima project	Bhima	Maharashtra	Irrigation
Mettur project	Cauvery	Tamil Nadu	Hydroelectricity
Shivasamudram Scheme	On Cauvery Falls.	Karnataka	Hydroelectricity
Kundah project	Kundah	Tamil Nadu	Hydroelectricity
Sharavati Project	Sharavati (near Jog falls)	Karnataka	Hydroelectricity
Chambal project (Gandhi Sagar Dam (M.P.), Rana Pratap Sagar and Jawahar Sagar Dam or Kota Dam.	Chambal (A tributary of	Rajasthan, Madhya Pradesh	Irrigation, hydroelectricity
Kakrapara Project	Тарі	Gujarat	Irrigation
Ukai Project	Тарі	Gujarat	Irrigation
Sardar Sarovar Project	Narmada	Gujarat, M.P. Rajasthan Maharashtra	Irrigation, hydroelectricity
Tawa project	Tawa (A tributary of Narmada.	Madhya Pradesh	Irrigation
Mahi Project (Jamnalal Bajaj Sagar)	Mahi	Gujarat	Irrigation
Matatila project	Betwa	Uttar Pradesh, Madhya Pradesh	Irrigation, hydroelectricity





Mice (Milani Chor)		WILLAI IVADI OKOI)		
Conditions Required	Distribution	Conditions Required	Distribution	
Temperature : 10° to 21°C during wosing 35° to 37°C during harvest. Rainfall : 100 to 200 cm. Soil: Heavy clay and Clayey loam is best suited.	 West Bengal U.P. Andhra Pradesh Punjab Tamil Nadu M P Orissa Bihar Assam Karnataka Maharashtra Haryana Kerala 	Temperature : 10-15°C (winter) 21° - 26°C (summer) Rainfall : 15 to 75 cm. Soil: Well drained fertile, friable loams, and clayey laoms.	 1. Uttar Pradesh 2. Punjab 3. Haryana 4. Madhya Pradesh 5. Rajasthan 6. Bihar 7. Gujarat 8. Maharashtra 	



Millets	
BAJR	<u> </u>
Condition Required	Distribution
Temp : 25º-35ºC	1. Rajasthan
Rainfall : 40-50 cm.	2. Maharashtra
Soil: Poor, light sand	3. Gujarat
soils, black and re	
upland soils gravely.	J. Haiyana
BARL	EY
Temp : 10º-15ºC	1. Uttar Pradesh
Rainfall : 75 cm to	2. Rajasthan
100 cm.	3. Madhya Pradesh
Soil: light clay and	4. Haryana
alluvial soil.	5. Punjab 6. Bihar
	7. Himachal Pradesh
	8. West Begal

Cash Crops

COTTO	DN	
Condition Required	Distribution	Cotton and Jute
-	1. Punjab	
Kharif crops of tropical and	2. Maharashtra	CHINA CHINA
subtropical areas.	3. Gujarat	man have a start of the
Temp. : 21°C-30°C	4. Haryana	2 - Com ABR
but not below 21°C.	5. Andhra Pradesh	
210 frost free days.	6. Rajasthan	and the second s
Rainfall: 50-75 cm	7. Karnataka	OF BENGAL
of irrigation faciltiy.	8. Tamil nadu	ARABIAN SEA
Soil: Deep balck	9. Madhya Pradesh	SEA COTTON
soil (regur), even grows in alluvial		
soils and laterite		a an a for a for
soils.		(RE) (V)



Geography

JU	ГЕ	
Second important fibre crop of India, crop of hot and humid climate. Temperature: 24°C- 35°C Rainfall: heavy rainfall of above 150cm with 80-90 percent of relative humidity. Soil: Alluvial soil	 West Bengal (70 percent of the production, over 60 percent of the area. Bihar Assam Orissa U.P. Maharashtra Kerala (Coastal 	Sugargane, Tobaco, Tea and Coffee
also grown in light sandy or clayey loams.	areas)	334
SUGAR	CANE	PARISTAN
Temperature: 20°C - 26°C Rainfall: 150 cm or irrigation facilities with high humidity. Soil: Deep rich, loamy soils are ideal; black soil is also suitable.	 1. Uttar Pradesh 2. Maharashtra 3. Tamil Nadu (highest yield / hectare) 4. Karnataka 5. Andhra Pradesh 6. Gujarat 7. Bihar 8. Haryana 9. Punjab 	ARABIAN SEA
TOBA	.CCO	A A A A A A A A A A A A A A A A A A A
Plant of tropical and sub-tropical climates and frost is harmful. Temperature: 16°C- 40°C Rainfall: 50 cm or irrigation facilities. Soil: well-drained, friable sandy loam.	 Gujarat (90 percent of Tobacco from Vadodara and Kheda districts). Andhra Pradesh (West and East G o d a v a r i , Prakasham, Kurnool and Nellore are the main producing districts) Other areas of minor production (a) Uttar Pradesh (b) Karnataka (c) West Bengal. 	



Plantation Crops				
	Tea		Coffee	
Conditions Required	Distribution		Conditions Required	Distribution
Tropical and sub-tropical plant, which thrives well in hot and humid climate. Temperature: 24°C-30°C Rainfall: 150-300 cm (well distributed). Soil: forest soil rich in humus and iron content is the best suited well	 Surma valley). West Bengal (the Dooars, Darjeeling). Tamil Nadu (highest yield per hectare Kerala (Kottayam, Kollam and Tiruvananthapuram district). Other areas of minor production. (a) Tripura (b) Karnataka (c) Uttar Pradesh 		humid climate. Temperature: 15°C- 28°C but does not tolerate frost. Rainfall: 150-200cm Soil: well drained rich friable loams with rich in humus, iron and	 Karnataka 80 percent of total production). Kerala (13 percent of
drained deep and friable loam is also suitable.	(d) Himachal Pradesh (Kangra valley).		calcium.	
		Rubber		
Temperature: 25°C-35°C Rainfall: about 300 cm (well distributed throughout the year). Soil: well drained loamy soil varying from laterite to fire alluvium or clayey loams.		Ernakulum, Ko producing distr 2. Tamil Nadu.	0 percent of total produ ozhikode and Kollam are ricts).	
		 Karnataka. Assam West Bengal Maharashtra Goa Andaman Nico 	bar	

Other Crops

N	M AIZE	Jowar	
Conditions Required	Distribution	Conditions Required	Distribution
Rainfed Kharif Crops Temperature: 21 ⁰ -25 ^o C Rainfall: Below 75 cm Soil: well drained alluvial or red loams.	 Bihar Uttar Pradesh Karnataka Andhra Pradesh Madhya Pradesh Rajasthan Himachal Pradesh 	Soil: Variety of soil including	1. Maharashtra 2. Karnataka 3. Madhya Pradesh 4. Andhra Pradesh 5. Rajasthan 6. Gujarat
	Ragi	clayey, sandy. GRAM	
Temperature: 20-30°C Rainfall: 50-100 cm Soil: red, light black and sandy loams.	1. Karnataka 2. Tamil Nadu 3. Maharashtra 4. Uttar Pradesh	Most important of all pulses Temperature: 20-25° C Rainfall: 40-50 cm Soil: Grows well in loamy soil.	 Madhya Pradesh Uttar Pradesh Rajasthan Haryana Maharashtra (These five states produce over 90 % gram of India).



Geography

industry & 4% in chemical industry.Karnataka - Bijapur, Gulbarga, Shimoga (cement grade limestone). Rajasthan - Jhunjhunu, Bikaner, Nagaur, Jodhpur, Pali, Sirohi, Udaipur Chittorgarh, Ajmer, Sawai Madhopur, Bundi, Banswara. Gujarat - Banaskantha, Amreli, Junagarh, Surat, Kachchh, Kheda and Panchmahals.DolomiteBihar - Rohtas. Jharkhand - Chaibasa in Sighbhum district and Palamau district. Orissa (Largest producer) - Sundargarh, Sasmbalpur, and Koraput districts Madhya Pradesh - Chhindwara, Jhabua, Jabalpur, Balaghat. Chhatisgarh - Bilaspur, Durg and Bastar district. Gujarat - Bhavnagar and Vadodara districts.Abestos Used for making fire proofRajasthan - Alwar, Ajmer, Pali, Udaipur and Dungarpur districts. Andhra Pradesh - Cuddapali district.	Non Metalic Minerals	
India).(Abhrak) Valuable mineral in electrical and electronic industry.Limestone75% used in cement industry;16% in iron and steel industry.16% in iron and steel industry.Andhra Pradesh - Adilabad, Warangal, Nalgonda, Mahboobnagar, Guntur Karnataka - Bijapur, Gulbarga, Shimoga (cement grade limestone). Rajasthan - Jhunjhunu, Bikaner, Nagaur, Jodhpur, Pali, Sirohi, Udaipur Chittorgarh, Ajmer, Sawai Madhopur, Bundi, Banswara. Gujarat - Banaskantha, Amreli, Junagarh, Surat, Kachchh, Kheda and Panchmahals.DolomiteBihar - Rohtas. Jharkhand - Chaibasa in Sighbhum district and Palamau district. Orissa (Largest producer) - Sundargarh, Sasmbalpur, and Koraput districts. Madhya Pradesh - Chhindwara, Jhabua, Jabalpur, Balaghat. Chhatisgarh - Bilaspur, Durg and Bastar district. Gujarat - Bhavnagar and Vadodara districts.AbestosRajasthan - Alwar, Ajmer, Pali, Udaipur and Dungarpur districts. Andhra Pradesh - Cuidapali district. Gujarat - Bilaspur, Durg and Bastar district. Gujarat - Bilaspur, Durg and Bastar district. Gujarat - Bilaspur, Durg and Bastar district. Karnataka - Shimoga, Chikmagalur, Hassan, Mandya and Mysore districts.AbestosRajasthan - Alwar, Ajmer, Pali, Udaipur and Dungarpur districts. Andhra Pradesh - Cuidapali district. Karnataka - Shimoga, Chikmagalur, Hassan, Mandya and Mysore districts sheets, etc.Cypsum Mainly used in making plaster of paris, etc.Rajasthan - (argest producer of gypsum in India): (Churu, Ganganagar, Bikaner, Jaisalmer, Nagpur and Pali districts produce 95 percen of the total gypsum of India.DiamondMadhya Pradesh - Panna. Andhra Pradesh - Anantpur, Kurnool.	Non Metallic Minerals	DISTRIBUTION
in electrical and electronic industry.Rajasthan - Ajmer, Bewar, Tonk, Bhilwara, Sikar, Udaipur and BanswaraLimestoneMadhya Pradesh - Satna, Jabalpur, Betul, Sagar and Reewa.75% used in cement industry;Chhattisgarh - Bilaspur, Raigarh, Raipur and Durg.16% in iron and steel industry.Andhra Pradesh - Adilabad, Warangal, Nalgonda, Mahboobnagar, Guntur Karnataka - Bijapur, Gulbarga, Shimoga (cement grade limestone). Rajasthan - Jhunjhunu, Bikaner, Nagaur, Jodhpur, Pali, Sirohi, Udaipur Chittorgarh, Ajmer, Sawai Madhopur, Bundi, Banswara. Gujarat - Banaskantha, Amreli, Junagarh, Surat, Kachchh, Kheda and Panchmahals.DolomiteBihar - Rohtas. Jharkhand - Chaibasa in Sighbhum district and Palamau district. Orissa (Largest producer) - Sundargarh, Sasmbalpur, and Koraput districts Madhya Pradesh - Chhindwara, Jhabua, Jabalpur, Balaghat. Chhatisgarh - Bilaspur, Durg and Bastar district. Gujarat - Bhavnagar and Vadodara districts.AbestosRajasthan - Alwar, Ajmer, Pali, Udaipur and Dungarpur districts. Andhra Pradesh - Cuddapali district. Karnataka - Shimoga, Chikmagalur, Hassan, Mandya and Mysore districts kanets, etc.Gypsum Mainly used in making of ammonia sulphate fertilizer in cement industry and in making plaster of paris, etc.Rajasthan - (largest producer of gypsum in India): (Churu, Ganganagar, Tamil Nadu - Tiruchirapalli.DiamondMadhya Pradesh - Panna. Andhra Pradesh - Panna. Andhra Pradesh - Anantpur, Kurnool.	Mica	
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Andhra Pradesh - Anantpur, Kurnool.	industry and in making	
-	Diamond	•
Karnataka - Bellary.		-
		•
Orissa - Sambalpur.		Urissa - Sambalpur.
Atomic Minerals - Uranium, Thorium	ATOMIC MINERALS - Uraniur	n, Thorium
Uranium Bihar - Gaya	Uranium	Bihar - Gaya
Jharkhand - Hazaribagh and Singhbhum.		Jharkhand - Hazaribagh and Singhbhum.
Uttar Pradesh - Saharanpur		Uttar Pradesh - Saharanpur



Geography

	Rajasthan - Udaipur.
	Kerala - Uranium from monzite sands of coastal regions.
Thorium	Bihar (Including Jharkhand), Tamil Nadu, Kerala and Rajasthan.
Metallic Minerals	
Gold	Andhra Pradesh - Ramgiri (Anantpur).
	Karnataka - Hutti (Raichur), Kolar.
	Kerala - Kozhikode.
Copper	Jharkahnd - Hazaribagh, Singhbhum.
	Madhya Pradesh - balaghat (Malanjkhand belt).
	Andhra Pradesh - Khammam, Guntur and Kurnool.
	Rajasthan - Jhunjhunu, Khetri, Alwar, Bhilwara and Udaipur.
	Maharashtra - Chandrapur.
	Karnataka - Chitradurga, Hassan.
Lead and Zinc	Sikkim, Meghalaya, Andhra Pradesh (Cuddapah).
	Rajashthan - Zawawr (Udaipur), Agucha - Rampur (Bhilwara).
	Gujarat- Banaskantha, Panchmahal, Vododara, Surat.
Iron	Jharkhan : Singhbhum (Noamundi, Sindurpur, Kiriburu).
	Orissa - Mayurbhanj (Gurumahisani, Badampahar, Sulaiput), Keonjahr.
	Madhya Pradesh - Jabalpur, Balagha.
	Chhattishgarh - Durg (Dalli Rajara), Bastar (Bailadila).
	Andhra Pradesh - Guntur, Kurnool.
	Tamil Nadu - Salem, Tiruchirappalli.
	Maharashtra - Surajgarh, Lohra-Piplagaon, Ratnagir.
	Goa - Blue dust iron mainly for export.
	Karntataka - Bellary, Chittradurga, Tumkur, Chikmagalure, Kudremukh. Kerala - Kozhikode.
Bauxite	Jharkhand - Palamau, Ranchi.
	Madhya Pradesh - Katni, Amarkantak, Maikala Range.
	Chhattishgarh - Sarguja, Raigarh and Bilaspur.
	Orissa - Kalahandi (Koraput).
	Tamil Nadu - Salem, Nilgiri, Coimbatore and Madurai.
	Gujarat - Sabarkanha, Jamnagar, Surat.
	Maharashtra - Kolaba, Ratnagiri, Kolhapur.
	Karnataka - Belgaum.
MINERAL FUELS: Coal, Li	gnite, Petroleum, Refineries.
Gondwana Coal fields. (Valley of Son,	Jharkhand - Giridh, Jharia, Bokaro.
Damodar, Mahanadi	West Bengal - Raniganj.
and Godavari)	Orissa - Himgir, Talcher.
	Andhra Pradesh - Kantapalli, Singareni. Madhya Pradesh - Singarayli, Banah Vallay
	Madhya Pradesh - Singarauli, Pench Valley.



Lignite Coal	Tamil Nadu - Neyveli.
	Jammu and Kashmir, Rajasthan (Palana in Bikaner dist).
	Gujarat - Umrasar)
Teritiary Coals field	Assam - Makum (Sibsagar), Najira, Janji.
	Meghalaya, Arunachal Pradesh (Namchik, Namphuk).
Oil fields	Assam - Digboi, Naharkatia, Moran and Sibsagar.
	Gujarat - Mehsana, Dholka, Kalol, Nawagam, Ankaleshwar and Kosamba.
Offshore oil fields	1. Mumbai High 2. Bassein 3. Ravva 4. Aliabet.
Oil Refineries	Assam - Digboi (IOC), Guwahati (IOC), Bongaigaon.
	Bihar - Barauni (IOC).
	Uttar Pradesh - Mathura.
	Gujarat - Koyali, Jamnagar (largest oil refinery).
	Maharashtra - Mumbai (BPCL).
	Karnataka - Mangalore (MRPL).
	Kerala - Kochi (CRI).
	West Bengal - Haldia (IOC).
	Andhra Pradesh - Vishakhapatnam (HPCL).
	Tamil Nadu - Chennai (MRI).

