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C R O P C A L E N D A R

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PREFACE

This brochure presents information relating to the agricultural operations in progress in the different provinces from month to month together with appropriate back-ground information relating to soil, rainfall, climatic conditions etc. The information is drawn from a variety of sources, official and non-official and it is hoped that it will prove useful to the public.

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1. SOILS OF INDIA.

1.1. TYPES OF SOILS.

S.No.	Soils	Areas of occurrence	Characteristics	Suitability for cultivation
1.	Alluvial Soil	Most of East Punjab, U.P., Bihar and Bengal: Parts of Assam and Orissa: Coastal regions of South India:	Deficient in phosphoric acid, nitrogen and humus: Sufficiency of lime and potash: Noted for quick renewal of nitrogen: Responsive to manuring and irrigation.	Most important and most fertile amongst Indian soils: Produce a wide variety of crops including rice, wheat, Sugarcane and Cotton.
2.	Black Soils	Most of Bombay: Greater part of Deccan, Malwa plateau and C.P. & Berar: Parts of Hyderabad, Gujrat, Kathiawar and Madras:	Contain a large quantity of Calcium and magnesium carbonates: Rather deficient in nitrogen, organic matter and phosphorous: Clayey to loamy in character: Crack heavily in summer.	Quite fertile: Particularly suitable for cultivation of cotton.
3.	Red Soils	Practically whole of Madras: Mysore, South-east Bombay, East of Hyderabad State and a tract running along the eastern part of C.P. to Chotanagpur: In the north upto Santal Parganas in Bihar, Jhansi in U.P., Beghel Khand Agency of Central India, the Aravellies and the eastern half of Rajputana.	Generally deficient in nitrogen, phosphoric acid, humus and lime.	Differ greatly in fertility: Produce a number of crops under irrigation.
4.	Laterite and Lateritic Soils	Summits of Hills of Deccan, Central India, Central Provinces, Raj Mahal & Eastern Ghats: Certain parts of Orissa, Bombay, Malabar & Assam.	Deficient in potash, phosphoric acid and lime.	Exceedingly thin and gravelly on the higher level: Heavy loams and clays in lower levels: On lower levels produce good crops particularly rice.
5.	Mountain & Hill Soils	Hilly parts in the north & especially Darjeeling, Almora and Garhwal districts.		Suitable for the growth of forests at places.
6.	Terai Soils	A narrow strip in U.P. between plains & hills.		Covered by tall grasses & shrubs of no agricultural value.
7.	Arid & Desert Soils	Rajputana and Southern Punjab.	Mostly sands, often with high soluble salt contents: Low organic matter content.	
8.	Peaty and other organic matter	Part of Travancore, Cochin & probably Chittagong.		

Compiled from an article on 'Soils of India and Soil Survey' by S.P. Ray Chaudhri, D.Sc., F.R.I.C. published in 'Indian Farming', March 1946.

1.2. CLASSIFICATION OF SOILS OF INDIAN PROVINCES

Province	Types of soils	Details of distribution
Assam	(i) Red Loam	(i) Entire areas of Lushai hills, Manipur and Naga hills: Parts of Cachar, Garo hills, Khasi and Jaintia hills and Sibsagar.
	(ii) Lateritic Soil	(ii) One small patch covering part of Cachar: A large patch covering parts of Khasi and Jaintia hills, Sibsagar and Nowgong.
	(iii) Alluvial Soil and Old Alluvium	(iii) Entire areas of Lakhimpur, Darrang, Kamrup and Goalpara: Parts of Garo hills and Sibsagar.
Bengal (West)	(i) Alluvial Soils and Old Alluvium	(i) Entire areas of Hoogly, Nadia, Murshidabad, Malda, and Jessore: Considerable parts of 24-Parganas, Birbhum and Jalpaiguri: Some parts of Midnapur, Bankura and Burdwan.
	(ii) Lateritic Soil	(ii) A longitudinal strip running through south western districts of Midnapur, Bankura, Burdwan and Birbhum.
	(iii) Saline and Deltaic Soil	(iii) Near the sea coast in the districts of Midnapur and 24 Parganas.
	(iv) Forest & Hill Soil	(iv) Parts of Darjeeling and Jalpaiguri.
Bihar	(i) Alluvial and Calcereous Soils	(i) Northern districts of Saran, Champaran, Muzaffarpur, Darbhanga, Purnea and parts of Bhagalpur (Calcereous and alluvial soils): Parts of Bhagalpura, Dhanbad, Gaya, Monghyr and whole of Patna district (Alluvial soil)
	(ii) Forest and Hill Soil	(ii) Latitudinal strip in centre running through Dhanbad, Gaya, Monghyr, Hazaribagh & Bhagalpur.
	(iii) Red Loam	(iii) Whole of Palamu, Santal Parganas, Hazaribagh and Manbhum.
	(iv) Mixed Red and Black Soil	(iv) Singhbhum and Part of Ranchi.
Bombay	(i) Black Soils	(i) Entire areas of East and West Khandesh, Nasik, Ahmednagar, Poona, Sholapur, Satara, Bijapur and Belgaum: considerable parts of Surat, Thana, Kolaba, Ratnagiri and Dharwar: Parts of Ahmedabad, Kaira, Panch Mahals, Dharwar, and N. Kanara.
	(ii) Coastal Sandy Alluvium	(ii) A Coastal strip through all districts extending to west coast.
	(iii) Lateritic Soils	(iii) Parts of Ratnagiri and N. Kanara.
	(iv) Red Sandy Soil	(iv) Small patch in Broach.
	(v) Old Alluvium	(v) Patches in Kaira and Ahmedabad
	(vi) Mixed Red and Black soil	(vi) Part of Dharwar.
C.P. & Berar	(i) Black Soil	(i) Entire areas of Yeotmal, Akola, Buldana, Nimar, Hoshangabad and Sangor. Parts of Wardha and Jubbulpore.
	(ii) Red Sandy Soils	(ii) Entire areas of Drug, Raipur and Bilaspur: Patches in Jubbulpore and Mandla.

CLASSIFICATION OF SOILS OF INDIAN PROVINCES (Contd)

Province	Types of soils	Details of distribution
C.P. & Berar (contd.)	(iii) Shallow Clay Loam	(iii) Entire districts of Bhandara, Chhindwara, Betul and Amraoti: Parts of Balaghat and Wardha.
	(iv) Gravelly Soils	(iv) Parts of Mandla, Bilaspur, Balaghat and most of Chanda.
Madras	(i) Red Loam	(i) Entire areas of Sabu and N. Arcot: Considerable parts of Ramnad, Trichonopoly and Chittoor: Parts of other districts except S. Kanara, Nellore, Bellary and Kurnool.
	(ii) Lateritic Soil	(ii) Considerable part of S. Kanara: Patches in Malabar, Vizagapatam, East and West Godavari, S. Arcot, Chittoor and N. Arcot.
	(iii) Black Soil	(iii) Parts of Bellary, Kurnool, and Anantapur: Small patches in Tinnevely, Madura, Ramnad, Tanjore, Guntur and Nellore.
	(iv) Sandy coastal Alluvium	(iv) On the coasts in the districts of S. Kanara, Malabar, Ramnad, Tanjore, S. Arcot, Chingleput, Nellore, Kistna, and Vizagapatam.
	(v) Red Sandy Soil	(v) Small patches in the districts of Coimbatore, Nilgiris and Malabar.
Orissa	(i) Old Alluvium	(i) Entire areas of Balasore, Cuttack and Koraput: Most of Puri and parts of Ganjam.
	(ii) Lateritic Soil	(ii) Considerable part of Ganjam: a patch in Puri.
	(iii) Mixed Red and Black Soil	(iii) About half of the area of Sambalpur.
	(iv) Red Sandy Soil	(iv) About half of the area of Sambalpur.
Punjab (East)	(i) Alluvial Soil	(i) Entire areas of Amritsar, Ferozpur, Hissar, Gurgaon, Rohtak, Karnal, Ambala, Ludhiana and Jullundur: Parts of Gurdaspur, Hoshiarpur and Kangra.
	(ii) Sub-montaine Soil	(ii) Whole of Simla, most of Kangra and part of Gurdaspur.
United Provinces	(i) Forest and Hill Soils	(i) Entire areas of Almora and Garhwal: Parts of Nainital, and Dehra-Dun.
	(ii) Terai Soils	(ii) Parts of Nainital, Pilibhit, Kheri, Bahraich, Gonda, Basti and Gorakhpur.
	(iii) Calcereous Soil	(iii) Entire areas of Saharanpur, Muzzaffarpur, Meerut and Bareilly: Parts of Bijna, Badaun, Pilibhit, Kheri, Bahraich, Gonda, Basti and Gorakhpur.
	(iv) Alluvial Soils	(iv) Entire areas of Ballia, Benares, Ghazipur, Jaunpur, Azamgarh, Partapgarh, Sultanpur, Fyzabad, Rae-Bareilly, Fatehpur, Kanpur, Unao, Lucknow, Farrukhabad, Mainpuri, Etah, Muttra, Aligarh and Bulandshahr: Parts of Badaun, Agra, Allahabad, Gonda and Basti.
	(v) Red Sandy Soil	(v) Almost entire area of Mirzapur district.
Bahraich	(vi) Mixed Red and Black Soil	(vi) Parts of Etawah, Jalaun, Hamirpur, Banda, Jhansi, Allahabad and Agra.
	(vii) Black Soil	(vii) A patch in the southern part of Jhansi district.

Sources:- Report on soil fertility Investigations in India with special reference to Manuring by Alexander B. Stewart.

N.B.:- No scientifically planned soil survey has been carried out in India. The information included here is therefore of a very tentative character.

2. CLIMATIC CONDITIONS

2.1. MAIN CLIMATIC SEASONS IN INDIA

	June to September (Monsoon period)	October - November (Post monsoon period)	December - February (Winter or N.E. Monsoon period)	March - May (Pre Monsoon Period)
1. Low and high Pressure Areas.	Intensification of low pressure conditions on the vast land mass of S.E. Asia due to high temperatures:	Low pressure areas follow the sun to the south: Get gradually shifted in two branches to the South of Bay of Bengal and South of the Arabian Sea.	Asiatic temperatures at their lowest: belt of high pressure extending from west Mediterranean to Central India & N.E. China: Development of low pressure area in south of Indian Ocean.	Gradual shifting of low pressure area towards north.
2. Direction of winds.	Rain bearing monsoon winds attracted from across the seas towards low pressure areas: two branches - Arabian Sea branch and Bay of Bengal branch.	Weak northerly or Easterly winds over Northern India: most prominent winds of the season - those blowing from Burma and Bengal towards the low pressure area in Bay of Bengal towards coastal areas of Orissa and Madras.	Weak Westerly to North-westerly winds over northern India: weak Easterly, North-easterly and South-easterly winds in Peninsular India.	Winds stronger nearer the coasts: increase in strength with advance of season.
3. Rainfall	Rains due to Arabian Sea branch and mostly on west coast: also in varying degrees in Peninsular India, C.P., Gujrat, Rajputana, Southern parts of U.P. and Bihar: Rains due to Bay of Bengal branch in Assam, Bengal, Bihar, U.P. & Punjab.	Rains over coastal areas of Orissa and Madras brought by north-easterly winds blowing over Bay of Bengal: Weather dry except for scattered thunder showers, in North India.	On the whole, driest period over whole of India: only light rains essential for growth of crops brought by local weather disturbances. Rainfall usually higher in the north than in the south.	Generally dry over land mass of northern and Peninsular India: Certain areas especially Assam, Bengal and Malabar receive rains through winds blowing over the seas towards areas of low pressure.
4. Miscellaneous.	Intensity and range of monsoon winds on the increase during June and July: stationary during August: Retreat of winds from September in the order reverse to that of advance.			Period of large contrasts in temperature and humidity sometimes resulting in violent local storms.

2.2 NORMAL SEASONAL RAINFALL IN SELECTED RAINFALL SUB-DIVISIONS OF INDIA

(In inches)

S. No.	Sub-division	winter Dec. to Feb.	Summer or pre-monsoon March to May	Monsoon June to September	Post-Monsoon October to December	Total
1.	Assam	2.38(2.4)	25.06(25.7)	64.26(65.8)	5.95(6.1)	97.66
2.	Bengal	1.53(2.0)	12.42(16.5)	56.71(74.5)	5.17(6.9)	75.13
3.	Orissa	1.82(3.2)	5.62(9.9)	44.49(78.2)	6.98(8.8)	56.91
4.	Chota Nagpur	2.57(5.0)	3.64(7.1)	42.71(84.4)	2.26(4.4)	51.18
5.	Bihar	1.41(2.9)	3.30(6.8)	40.96(85.0)	2.54(5.3)	48.21
6.	United Provinces East	1.53(3.9)	1.12(2.9)	34.44(88.0)	2.04(5.2)	39.19
7.	United Provinces West	2.27(6.0)	1.36(3.6)	32.98(87.8)	0.97(2.6)	37.58
8.	Punjab East & North	2.76(11.9)	1.39(8.1)	18.23(78.4)	0.37(1.6)	23.25
9.	Gujerat	0.22(0.7)	0.24(0. 7)	31.46(96.2)	0.77(2.4)	32.69
10.	Berar	1.01(3.1)	0.96(3.0)	28.10(87.4)	2.07(6.4)	32.14
11.	Central Provinces West	1.47(3.2)	1.14(2.5)	41.04(90.4)	1.76(2.9)	45.41
12.	Central Provinces East	1.53(3.0)	2.10(4.0)	46.37(89.1)	1.99(3.8)	52.04
13.	Konkan	0.28(0.3)	1.85(1.7)	102.45(93.7)	4.75(4.3)	109.33
14.	Bombay Deccan	0.51(1.7)	2.13(6.9)	24.41(79.1)	3.82(12.4)	30.87
15.	Malabar	2.73(2.6)	12.61(12.2)	71.47(68.9)	16.93(16.3)	103.74
16.	Madras, Southeast	4.76(13.6)	4.53(12.9)	12.01(34.2)	13.80(39.3)	35.10
17.	Madras, Deccan	0.74(3.0)	2.42(9.9)	16.27(62.3)	0.09(24.9)	24.52
18.	Madras, Coast North	1.69(4.2)	3.44(8.6)	25.03(62.3)	10.00(24.9)	40.16

Notes:- Figures in brackets indicate the percentage of rainfall during the season on the total rainfall of the year.

Source:- Rainfall of India, a Brief Review, by Dr. L.A. Ramdas

2.3 ACTUAL ANNUAL RAINFALL IN SELECTED RAINFALL SUB-DIVISIONS OF INDIA

(In inches)

S. No.	Sub-division	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
1.	Assam	82.30	92.93	82.53	87.77	92.40	104.94	104.59	97.03	106.16	(a)
2.	Bengal	77.41	84.83	84.37	70.06	93.33	72.68	74.16	66.53	69.67	(a)
3.	Bombay Deccan	28.51	38.13	25.89	23.00	23.73	30.55	36.67	36.67	27.65	33.71
4.	Bihar	55.82	55.13	49.44	42.66	45.14	50.92	45.55	47.15	47.36	(a)
5.	Berar	46.62	42.56	27.68	39.38	25.75	39.64	31.55	46.10	35.67	39.48
6.	Chota Nagpur	54.87	41.59	57.60	51.45	64.00	63.12	62.03	56.72	49.34	(a)
7.	Central Provinces, West	58.19	53.13	46.43	55.74	38.05	59.74	51.42	66.04	50.11	68.83
8.	Central Provinces, East	53.67	59.06	52.44	58.80	36.68	61.55	58.30	63.31	60.12	54.89
9.	Gujrat	31.34	19.61	12.28	22.45	22.62	41.60	34.08	46.53	48.84	31.69
10.	Konkan	97.95	115.65	90.06	112.05	64.47	120.87	118.32	107.78	122.54	112.38
11.	Malabar	112.67	104.98	109.43	122.02	112.62	107.47	124.36	91.92	90.95	137.76
12.	Madras South East	46.71	29.19	40.55	50.04	41.49	31.07	45.71	47.63	29.90	52.34
13.	Madras Deccan	24.73	27.20	22.42	29.68	21.24	18.08	28.71	28.81	19.61	25.52
14.	Madras Coast North	34.94	45.52	41.50	44.99	42.96	32.09	41.63	45.54	36.23	40.14
15.	Orissa	56.79	51.75	52.96	73.73	60.56	56.82	61.03	64.05	58.04	(a)
16.	Punjab North East	26.29	20.58	21.52	24.32	19.48	34.36	19.13	26.30	27.49	27.34
17.	United Provinces East	39.07	60.71	41.39	37.24	32.31	40.37	42.07	40.49	23.23	42.81
18.	United Provinces West	42.64	36.28	39.79	39.03	30.33	47.60	37.92	31.81	44.33	45.12

(a) Not available

Sources: (i) Indian Weather Review - Annual Summary published by the I.M.D.
(ii) Monthly Weather Review - published by the I.M.D.

2.4 APPROXIMATE STARTING AND CLOSING DATES OF S.W. MONSOON RAINS

Province	Starts	Ends
Bombay	1st June	5th October
Assam	5th June	30th October
Bengal	10th June	20th October
Bihar	15th June	15th October
Eastern U.P.	20th June	10th October
Western U.P.	25th June	30th September
East Punjab	1st July	14-21st September
Madras	7th June	26th September

2.5 ANNUAL NORMALS OF TEMPERATURE AND RELATIVE HUMIDITY AT SELECTED CENTRES IN INDIAN PROVINCES

Province	Centre	Annual normals of temperature		Annual normals of relative humidity (%)
		Maximum (°F)	Minimum (°F)	
Assam	Tezpur	83.1	66.8	89
	Gauhati	84.6	65.9	89
	Sibsagar	81.8	65.8	94
	Dibrugarh	80.8	64.9	91
	Shillong	70.1	53.3	74
Bengal (West)	Cherrapunji	68.5	57.2	81
	Dinaipur	86.1	66.7	83
	Jalpaiguri	84.0	66.1	86
	Burdwan	88.9	70.5	78
	Midnapur	90.0	70.5	76
	Calcutta (Alipur)	86.8	70.5	83
	Jessore	87.5	69.8	85
Bihar	Darjeeling	68.8	47.4	85
	Patna	87.6	68.6	72
	Gaya	89.9	68.8	71
	Darbhanga	86.0	68.1	81
	Purnea	86.6	66.3	85
	Dumka	87.6	67.9	73
Orissa	Ranchi	84.4	65.5	66
	Cuttack	91.2	72.5	79
	Balasore	88.6	70.5	81
	Angul	90.1	69.3	77
	Puri	86.3	74.5	83
U. P.	Sambalpur	90.8	69.9	70
	Benaras	89.6	66.7	72
	Gorakhpur	87.8	67.0	75
	Agra	90.4	67.8	60
	Mainpuri	90.1	65.5	65
	Bareilly	87.6	64.7	72
	Cawnpore	90.1	66.2	66
	Allahabad	90.2	66.8	66
	Lucknow	89.7	65.6	69
	Jhansi	91.2	69.5	58
	Bahraich	88.3	65.7	75
Punjab (East)	Ambala	87.6	62.7	72
	Ludhiana	87.9	63.9	65
Delhi	Delhi	88.7	67.5	59
Bombay	Ratnagiri	87.3	73.1	73
	Bombay	86.0	74.9	78
	Bijapur	90.7	67.6	77
	Belgaum	84.5	63.9	70
	Sholapur	92.9	68.1	55
	Poona	89.5	64.6	63
	Ahmednagar	89.4	63.8	62
	Surat	91.6	69.7	70
	Ahmedabad	94.4	70.7	58
	C.P. & Berar	Akola	93.0	67.2
Amraoti		92.1	69.0	58
Raipur		90.3	69.1	63
Saugor		87.9	66.5	56
Jubbulpore		88.5	64.4	67
Hoshangabad		90.4	66.9	64
Nagpur		92.1	68.8	59
Madras	Coonada	89.5	75.0	77
	Masulipatam	90.5	74.5	82
	Nellore	94.0	75.1	76
	Madrass	91.0	74.8	77
	Negapatam	90.1	76.2	75
	Trichinopoly	94.3	74.2	72
	Madura	93.8	73.9	71
	Kodaikanal	64.6	51.1	69
	Calicut	86.7	74.3	83
	Mangalore	87.4	73.5	77
	Salem	93.1	71.0	77
	Coimbatore	90.0	69.7	83
	Ootacamund	65.5	49.2	68
	Bellary	93.3	70.9	61
Kurnool	93.9	70.8	68	
Ajmer-Merwara	Ajmer	88.8	65.0	63
Coorg	Mercara	76.6	61.3	85

Source:- Memoirs of the Indian Meteorological Department Vol. XXII (1913-21)

Notes:- The means of the max. and min. temp. have been determined from the whole of the available observations since 1878. The normals are mostly derived from the data of the 33 year period 1878-1910. The normals of rel. humidity have been deduced from the 8 hours records of the period 1889-1910.

3. CROP SEASONS & ROTATIONS

3.1 DURATION OF CLIMATIC SEASONS IN INDIA

<u>Seasons</u>	<u>Period</u>
Spring	15th February to 15th April
Summer	15th April to 15th September
Autumn	15th September to 31st October
Winter	1st November to 15th February

3.2. CROP SEASONS IN INDIA

<u>Season</u>	<u>Period</u>	<u>Sowing Period</u>	<u>Harvesting Period</u>	<u>Principal Crops</u>
Kharif	May to 15th October	Beginning of the South West Monsoon vis. May to July	End of the season viz. September to October but may continue till November	Jowar, Maize, Rice, Sugar, Castor, Sesamum, Mung, Tur, Tobacco, Groundnut, Jute, sugarcane, Cotton, Urid and Bajra.
Rabi	15th October to Middle of April	Beginning of cold weather October to December	February to April but may continue till May.	Wheat, Barley, Oats, Potatoes, Gram, Linseed, mustard and peas.
Zaid Kharif	Beginning of February to beginning of May	Beginning of Hot weather February to March	Middle of April to May but may continue upto June	Watermelons, Toroi, Jowar & maize for fodder
Zaid Rabi	August to January	August to September	December to January	Rape & Mustard oilseeds, Turic.

3.3. DOUBLE CROPPING IN INDIA

- | | |
|-------------------------------------|---|
| 1. Rice followed by Rice | 6. Maize followed by wheat |
| 2. Rice followed by pulses | 7. Guar followed by wheat |
| 3. Rice followed by Wheat | 8. Maize followed by guar |
| 4. Rice followed by Mustard or rape | 9. Cotton intercropped with senji or methi or Berseen |
| 5. Jowar followed by Wheat | 10. Mung or Mattar followed by Jowar |

3.4. IMPORTANT CROP ROTATIONS IN INDIA

Two year Rotation

1. Rice
Pulses
2. Jowar or Maize
Wheat or Gram

Three year Rotation

1. Wheat
Maize
Sugarcane
2. Sugarcane
Wheat
Cotton
3. Wheat
Wheat
Torio

3.5. SEASON AND DURATION OF PRINCIPAL CROPS IN INDIA

Crop	Season	Duration X	
Rice *	Winter	5½ - 6	months
	Autumn	4 - 4½	months
	Summer	2 - 3	months
Wheat	Rabi	5 - 5½	months
Jowar	Kharif	4½ - 5	months
	Rabi	4½ - 5	months
	Zaid Kharif	2½	months
Bajra	Kharif	4½	months
Maize	Kharif	4 - 4½	months
Ragi	Kharif	3½	months
Barley	Rabi	5 - 5½	months
Gram	Rabi	6	months
Sugarcane	perennial	12 - 15	months
Sesamum	Kharif	3½ - 4	months
	Rabi	5	months
Groundnut	Kharif	Early 4 - 4½	months
		Late 4½ - 5	months
Rape & Mustard	Rabi	4 - 5	months
	Zaid Rabi	4	months
Linseed	Rabi	5 - 5½	months
Castor	Kharif	Early 6	months
		Other 8	months
Cotton	Kharif	Early 6 - 7	months
		Late 7 - 8	months
Kute	Kharif	6 - 7	months

X denotes the No. of months for which the crop is in the land.

* Seasons for Rice in different provinces are known by different names. These are indicated

Assam -	Autumn or Ahu or Aus Winter or Sali or Bao Spring or Boro	Bombay	Early Middle Late
W. Bengal -	Bhadol or Aus or Autumn Aman or Winter Boro or summer	C.P. & Berar	Early Late
Bihar -	Bhadol or Autumn Aghani or Winter	Madras	First crop Second crop
Orissa -	Bhadol or Autumn Winter	U.P.	Early Late

3.6. CROP YEARS

Name of Crops	Duration
Kharif Crop	1st November to 31st October
Rabi Crops	1st May to 30th April
Rice	1st November to 31st October
Wheat	1st May to 30th April
Sugarcane	1st November to 31st October
Cotton	1st September to 31st August
Jute	1st July to 30th June
Oil Kharif Seed	1st November to 31st October
Rabi	1st April to 31st March
Tea	1st January to 31st December
Coffee	1st July to 31st June

The beginning of the period denotes generally the time when generally the crops arrive at the market.

4.11 SOWING AND HARVESTING SEASONS OF PRINCIPAL CROPS - INDIAN PROVINCES

		Winter Rice	Autumn Rice	Summer Rice	Wheat	Barley	Ragi	Jowar	Bajra	Maize	Sugar-cane	Tobacco
Ajmer-Merwara	Sowing	-	-	-	Nov-Dec	-	-	-	-	-	-	-
	Harvesting	-	-	-	Mar-Apr	-	-	-	-	-	-	-
Assam	Sowing	-	-	-	-	-	-	-	-	-	Apr-May	-
	Harvesting	-	-	-	-	-	-	-	-	-	Dec-Feb	-
Bihar	Sowing	Jun-Aug	May-Jul	Sep-Nov	Oct-Nov	Oct-Nov	June	May-Jul	May-Jul	May-Jul	Feb-Apr	November
	Harvesting	Nov-Dec	Aug-Oct	Eeb-Mar	Mar-Apr	Mar-Apr	Sept.	Oct-Nov	Oct-Nov	Sep-Oct	Dec-Apr	Feb-April
Bombay	Sowing	Jun-Jul	-	-	Oct-Nov	Oct-Nov	Jun-Jul	Jun-Jul (K)	Jun-Jul	Jun-Jul	Jan-Mar	Aug-Oct
	Harvesting	Oct-Nov	-	-	March	Feb-Mar	Oct-Nov	Sep-Oct (R)	Oct-Nov	Sep-Oct	Nov-Apr	Jan-Mar
								Nov-Dec (K)				
								Jan-Feb (R)				
C.P. & Berar	Sowing	June	-	-	Oct-Nov	-	-	June-Jul (K)	-	-	-	-
	Harvesting	Oct-Nov	-	-	Feb-Mar	-	-	Oct-Nov (R)	-	-	-	-
								Nov-Dec (K)				
								Feb-Mar (R)				
Coorg	Sowing	Jun-Jul	-	-	-	-	May-Jun	-	-	-	-	-
	Harvesting	Dec-Feb	-	-	-	-	Oct-Nov	-	-	-	-	-
Delhi	Sowing											
	Harvesting											
East Punjab	Sowing	Mar-Aug	-	-	Oct-Dec	Oct-Dec	-	Jun-Jul	Jun-Jul	Jun-Jul	Feb-Apr	March
	Harvesting	Sep-Nov	-	-	Mar-May	Mar-Apr	-	Oct-Nov	Oct-Nov	Oct-Nov	Nov-Mar	May-June
Madras	Sowing	Jun-Oct	-	Dec-Mar	-	-	Jun-Sep	Jun-Jul (K)	Jun-Sep	Jul-Oct	Jan-May	Oct-Dec
	Harvesting	Dec-Mar	-	Apr & May	-	-	Sep-Jan	Apr-Nov (R)	Sep-Feb	Sep-Feb	Oct-Apr	Jan-Mar
								Oct-Nov (K)				
								Jan-Feb (R)				
Orissa	Sowing	-	-	-	-	Oct-Nov	-	-	-	-	Feb-May	Nov.
	Harvesting	-	-	-	-	Mar-April	-	-	-	-	Nov-Feb	Feb-Apr
U. P.	Sowing	Jun-Aug	-	-	Oct.	Oct.	June	-	August	June	Feb-Apr	Jun-Nov
	Harvesting	Sep-Dec	-	-	Mar & Apr	March	Sept.	-	Oct-Nov	Aug-Sep	Nov-Apr	Sep-Apr
West Bengal	Sowing	May-Jul	Mar-Jul	Oct-Jan	Nov-Dec	Oct-Jan	-	-	-	-	Feb-May	Sep-Dec
	Harvesting	Oct-Jan	Jun-Sep	Feb&Apr	Feb-Apr	Feb-Apr	-	-	-	-	Dec-Mar	Feb-Apr

K - Kharif; R - Rabi.

4.12 SOWING AND HARVESTING SEASONS OF PRINCIPAL CROPS - ALL INDIA

	Winter Rice	Autumn Rice	Summer Rice	Wheat	Jowar	Bajra	Gram	Sugarcane	Cotton	Jute	Linseed	Groundnut
Sowing	Apr-Aug	Apr-Jul	Jan-Mar	Oct-Dec	May-Jul (K)	May-Sep	Sep-Jan	Feb-May	Mar-Aug	Mar-May	Aug-Nov.	May-Jul
					Sep-Nov (R)							
Harvesting	Nov-Jan	Aug-Dec	Mar-Jun	Mar-May	Oct-Dec (K)	Sep-Feb	Feb-Apr	Nov-Apr	Sep-Apr	Jul-Sep	Jan-Apr	Sep-Dec
					Jan-Mar (R)							

K - Kharif; R - Rabi.

4.21 SOWING AND HARVESTING SEASONS IN FOREIGN COUNTRIESRICE

Country	No. of har-vests	First Crop Sowing Season	Harvesting Season	Second Crop Sowing Season	Harvesting Season	Third Crop Sowing Season	Harvesting Season	(a) Acreage (Million acres)	Production (Million tons)
Burma	3	June	Nov.-Dec.	Dec.	Mar-April	May	Aug-Sep.	12.4(b) (1931-1940)	4.95
Ceylon	2	Aug-Oct	Feb-April	Feb-Apr	June-Aug	-----	-----	.8 (1938-39)	.30
China	2	May-June	Aug-Sep.	April-Jul	Nov-Dec	-----	-----	45.0 (1933-34 to 1937-38)	33.0
Formosa	2	Feb-March	July	June	November	-----	-----	1.62 (1935-36 to 1939-40)	1.20
India	3	June-Aug	Nov-Jan.	Jan-Feb	May-June	May-June	Sep-Oct	56.0 (1941-42 to 1945-46)	18.0
Indo-China	1	June-Sep	Dec-March	-----	-----	-----	-----	14.1(c) (1940-41 to 1944-45)	4.6(c) (1935-36 to 1939-40)
Indonesia	1	Jan-May	May-Sep.	-----	-----	-----	-----	9.8 (1936-37 to 1940-41)	4.1
Japan	1	May-June	Mid Aug Mid Nov.	-----	-----	-----	-----	7.5 (1941-42 to 1945-46)	8.8
Korea	1	June	Mid Sep-Mid Nov.	-----	-----	-----	-----	3.6 (1940-41 to 1943-44)	3.4
Malaya	1	June-Sep	Dec-March	-----	-----	-----	-----	.75 (1935-36 to 1939-40)	.51
Philippines	1	June-Sep	Mid Nov-Mid March	-----	-----	-----	-----	4.1 (1944-45 to 1946-47)	1.8
Siam	1	May-June	Dec-Jan	-----	-----	-----	-----	7.7 (1942-43 to 1946-47)	4.0
Pakistan	3	June-Aug	Nov-Jan	Jan-Feb	May-June	May-June	Sep-Oct	21.9 (1941-42 to 1945-46)	7.3 (1941-42 to 1945-46)

- (a) The figures given below are the averages for the period indicated. Production figures relate to the same period unless otherwise indicated.
 (b) During the war the rice acreage gradually declined to the low point of 6.8 million acres in 1945 but recovered somewhat (7.9 million acres)
 (c) The acreage and production figures do not relate to the same period and therefore cannot give any idea of the yield per acre.

Sources:- Rice Economy of Asia (F.A.O. Publication)

4.22 SOWING AND HARVESTING SEASONS IN FOREIGN COUNTRIESWHEAT

Country	No. of har-vests.	First Crop		Second Crop		Acreage ('000 acres) Average 1940 to 1944	Production '000 tons Average 1940 to 1944
		Sowing Season	Harvesting Season	Sowing Season	Harvesting Season		
Argentina	1	April to Aug.	Nov. to Jan.	-	-	13,834	6,283
Australia	1	April to June	Oct. to Jan.	-	-	9,975	3,039
Canada	2	Aug. to Sept.	July to Aug.	April to May	Aug. to Sept.	22,465	11,419
France	2	Oct. to Dec.	June to July	March to April	June to July	10,761(a)	6,151(a)
Indian Dominion	1	Oct. to Dec.	March to May	-	-	23,889	6,900
Pakistan	1	Oct. to Dec.	March to May	-	-	9,375	3,295
Italy	2	Oct. to Nov.	June to July	Feb. to March	June to July	12,718(b)	6,651
Soviet Union	2	Aug. to Nov.	July to Sept.	March to May	Aug. to Sept.	100,519(c)	40,179
Spain	1	Oct. to Nov.	June to July	-	-	8,943(b)	2,519
U.S.A.	2	Sept. to Oct.	May to July	April to May	Aug. to Sept.	53,557	24,912

- (a) Average for four years from 1941 to 1944; (b) Average for four years from 1940 to 1943; (c) Average for four years from 1936 to 1939; (d) Figures for 1938.

4.23 SOWING AND HARVESTING SEASONS IN FOREIGN COUNTRIESBARLEY

Country	No. of harvests.	First Crop		Second Crop		Acreage ('000 acres) Average 1942-45	Production ('000 bushels of 48 lbs.) Average 1942-45
		Sowing Season	Harvesting Season	Sowing Season	Harvesting Season		
Algeria	1	Nov. to Jan.	March to July	-	-	2,038	20,675
Argentina	1	June to Aug.	November	-	-	1,129	22,794
Canada	1	April to May	July to Aug.	-	-	7,453	206,799
China		Information not available				15,772(a)	343,158
French Morocco		Information not available				4,547	32,906
Germany	2	Aug. to Oct.	July	May	July	3,196(b)	124,039
Indian Dominion	1	December	May	-	-	4,839	92,820
Pakistan	1	December	May	-	-	662	8,820
Poland	2	Sept.-Oct.	July-Aug.	April to May	July to Aug.	2,965(a)	65,075
Rumania	1	March to April	June to July	-	-	3,533(a)	46,861
Soviet Union	1	Feb. to May	July to Aug.	-	-	18,219(c)	270,694
Spain	2	November	June	April	August	3,982	61,665
Turkey		Information not available				4,167	67,235
U.S.A.	1	May	August			12,983	323,985

(a) Average for the years 1935 to 1939

(b) Average for the years 1942 to 1944

(c) Average for the years 1930 to 1934

4.24 SOWING AND HARVESTING SEASONS IN FOREIGN COUNTRIESMAIZE

Country	No. of harvests.	First Crop		Second Crop		Acreage ('000 acres) Average 1936 to 1940	Production '000 tons Average 1936 to 1940
		Sowing Season	Harvesting Season	Sowing Season	Harvesting Season		
Argentina	1	Sept. to Oct.	March to June	-	-	10,830	9,604
Brazil		Information not available				9,745(c)	6,526(a)
Canada	1	May to July	Aug. to Oct.	-	-	Not available	
Indian Dominion	1	June to July	Oct. to Nov.	-	-	5,135	1,793
Pakistan	1	June to July	Oct. to Nov.	-	-	857	358
Italy	1	March	Aug. to Oct.	-	-	3,673	3,789
Mexico		Information not available				7,685	2,101
Rumania	1	April to May	Aug. to Sept.			12,570(b)	6,647(b)
U.S.A.	1	Feb. to May	Aug. to Oct.	-	-	90,800	73,524

(a) Average for the 3 years 1938 to 1940

(b) Average for the 4 years 1936 to 1939

(c) Average for the 2 years 1939 to 1940

4.25 SOWING AND HARVESTING SEASONS IN FOREIGN COUNTRIESSUGARCANE

Country	No. of harvests.	First Crop		Second Crop		Acreage (in '000 acres)	Production (Raw sugar) (in '000 short tons)
		Sowing Season	Harvesting Season	Sowing Season	Harvesting Season		
Argentina	1	July to Oct.	June to Sept.	-	-	-	479
Brazil		June to Aug.	May to July	-	-	-	1,369
Cuba	1	Feb. to May	Jan. to June	-	-	2,312 (1940 to 1944)	4,031
Egypt	1	Feb. to March	Dec. to April	-	-	-	188
Indian Union	1	Jan. to April	Nov. to March	-	-	3,387 (1940-41 to 1944-45)	4,931 (1940-41 to 1944-45)
Java	1	June to Sept.	May to Oct.	-	-	-	1,447 (1935 to 1939)
Philippines	1	Nov. to March	Nov. to April	-	-	596 (1935 to 1939)	1,127 (1935 to 1939)
Puerto-Rico	2	Sept. to Dec.	January	May to June	January	307	957
Union of S. Africa	1	Nov. to March	May to Sept.	-	-	-	545
U.S.A.	2	March	Nov. to Dec.	Oct1 to Nov.	Nov. to Dec.	277	459
Pakistan	1	Jan to April	Nov. to March	-	-	-682 (1941-42 to 1944-45)	855 (1941-42 to 1944-45)

Sources:- Sugar Reference Book Directory.

Except where otherwise indicated, the figures for acreage and production are the averages for the years 1941 to 1945.

4.26 SOWING AND HARVESTING SEASONS IN FOREIGN COUNTRIESCOTTON

Country	No. of harvests.	First Crop		Second Crop		Acreage (in '000 acres)	Production of cleaned cotton (in '000 bales of 480 lbs.net)
		Sowing Season	Harvesting Season	Sowing Season	Harvesting Season		
Brazil	1	Oct. to Nov.	May-June	-	-	5,465	1,954
Argentina	1	-	-	-	-	843	416
China and Manchuria	1	May	Oct.-Nov.	-	-	7,038 (1935 to 1939)	2,406 (1935 to 1939)
Egypt	1	Feb.-March	September	-	-	1,017	1,040
India	2	Aug.-Oct.	Feb.-July	April-June	Sept. to Dec.	12,839 (1941-42 to 1945-46)	2,273 (1941-42 to 1945-46)
Russia	1	June-July	Nov.-Dec.	-	-	5,087 (1935 to 1939)	3,430
Uganda	1	June-July	Nov.-Dec.	-	-	1,124	203
United States	1	March-April	Sept-Oct.	-	-	20,748	11,247
Pakistan (excluding Pakistan States)	2	Aug.-Oct.	Feb.-July	April-June	Sept. to Oct.	2,918	1,342

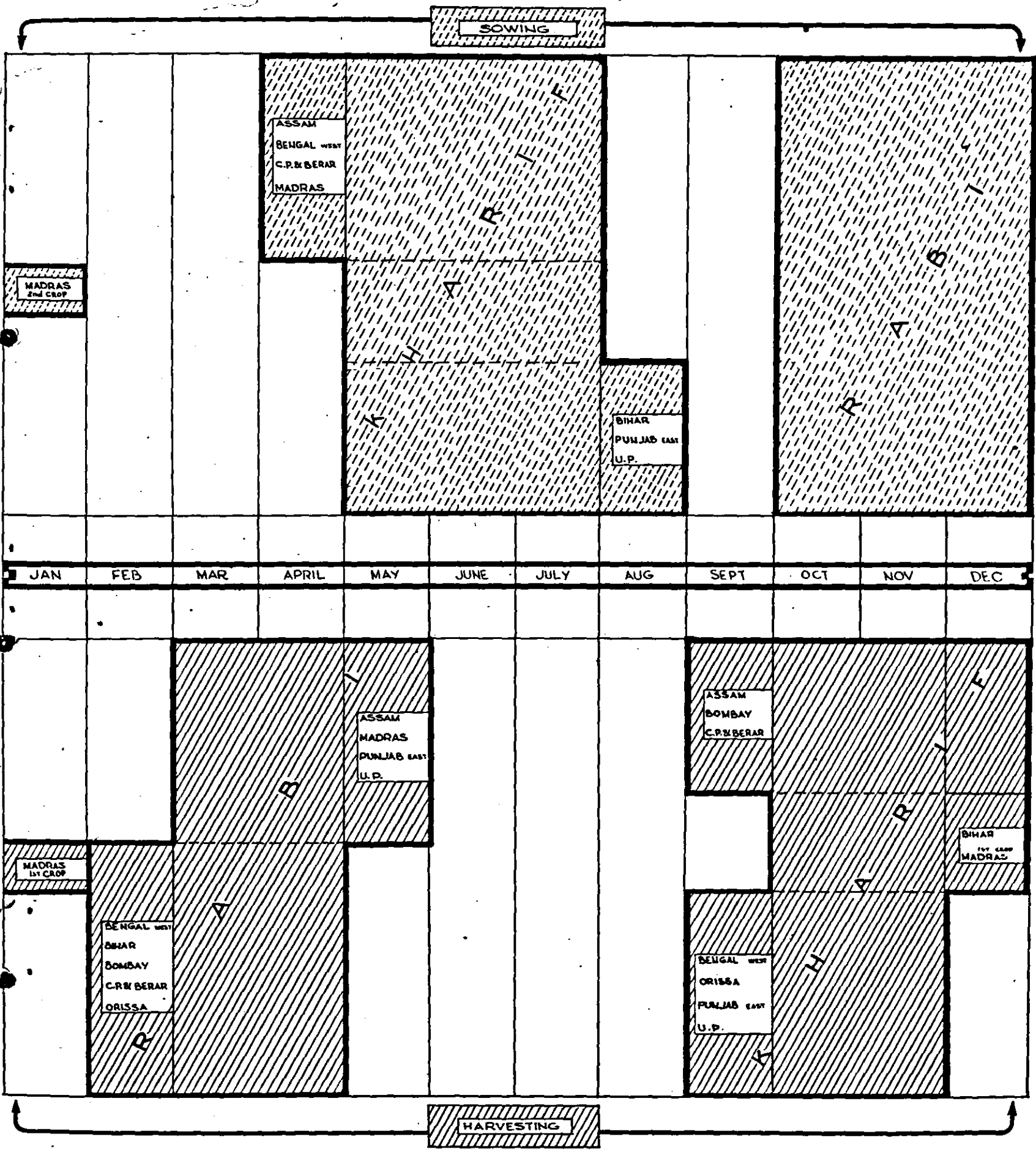
Sources:- "Cotton and its production" by Johnson.

Except where otherwise indicated, the acreage and production figures are the average for the years 1941 to 1945.

C.1

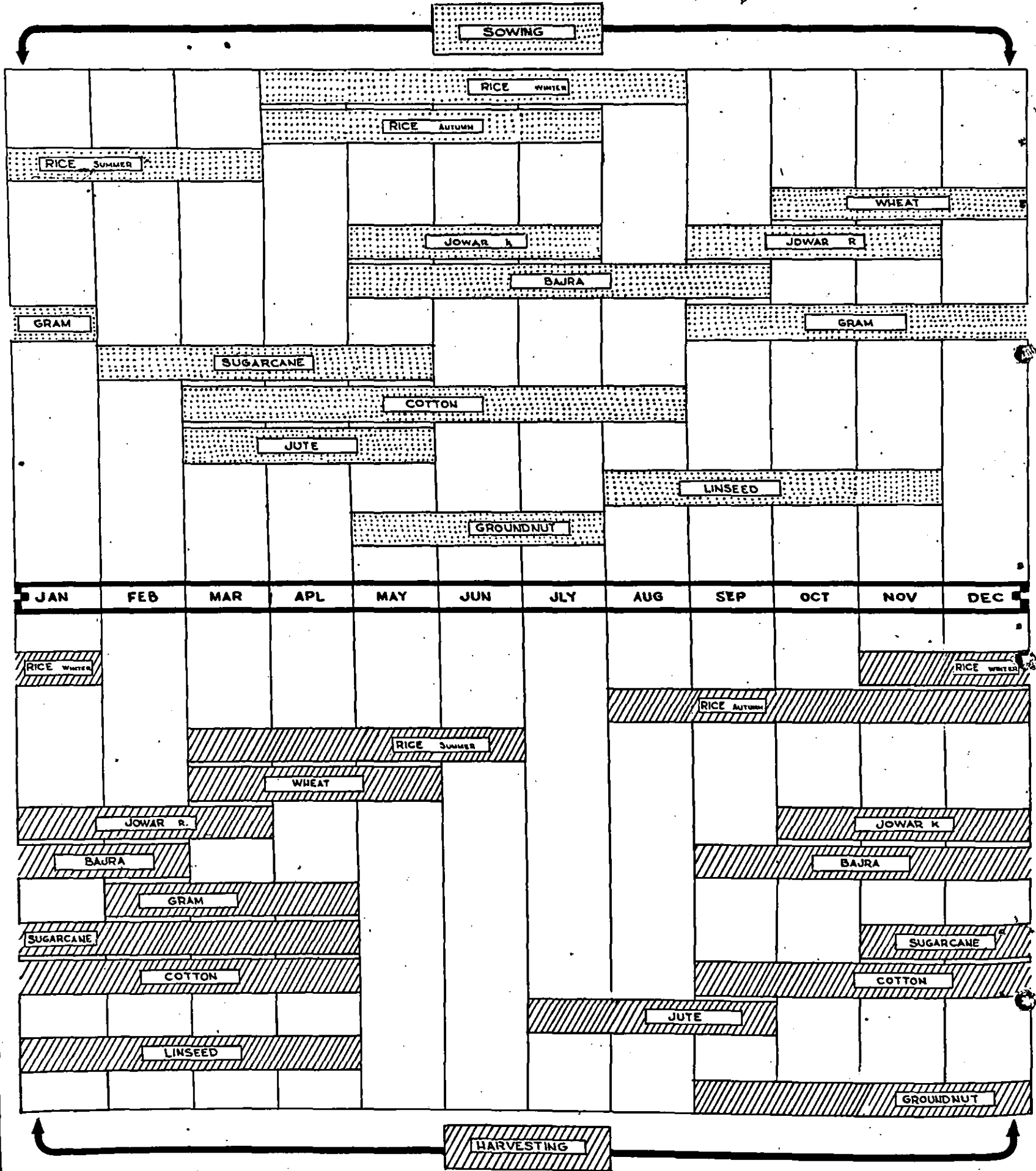
KHARIF & RABI

SOWING AND HARVESTING SEASONS IN INDIAN PROVINCES.



C.2

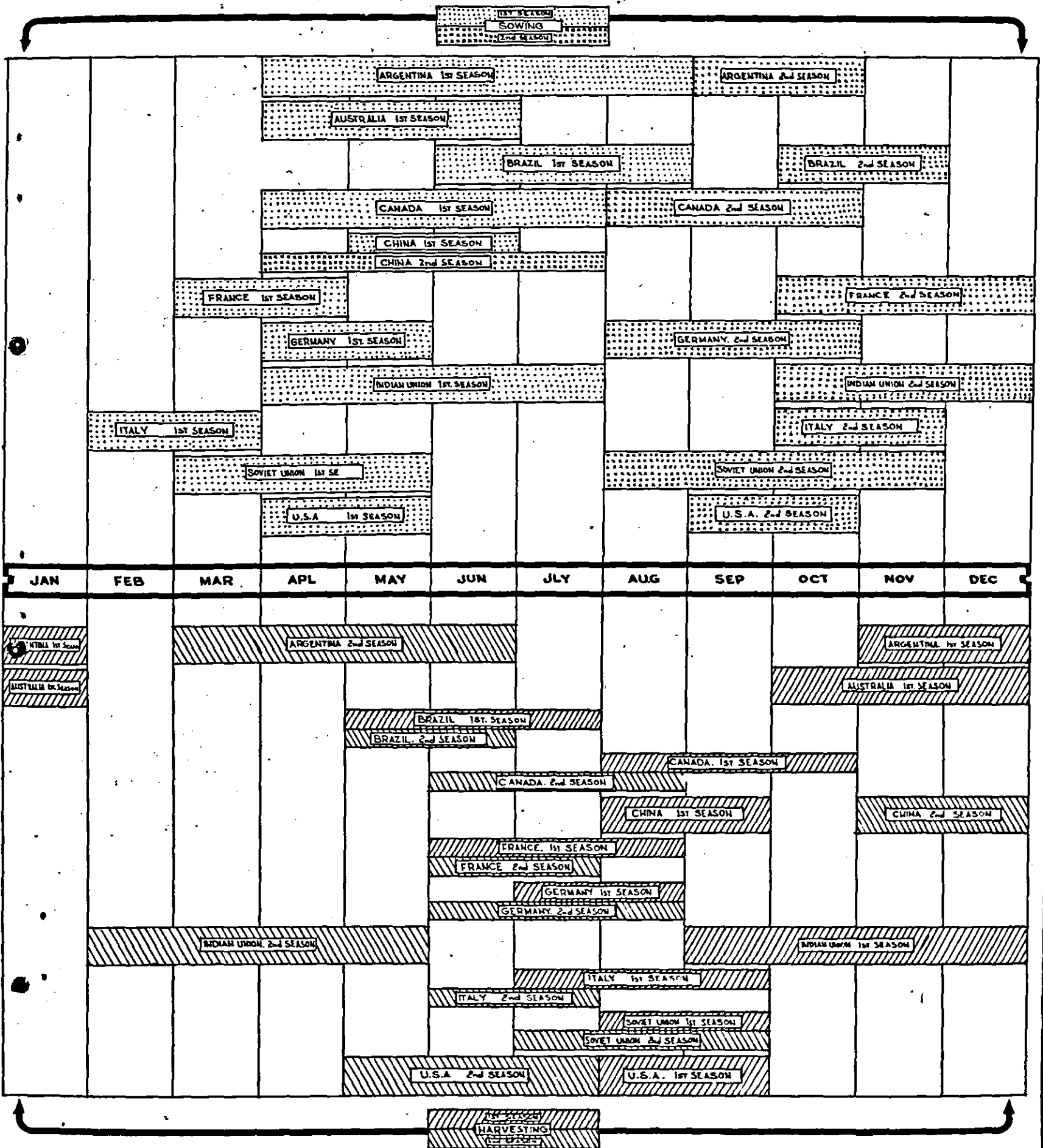
SOWING AND HARVESTING SEASONS OF PRINCIPAL CROPS IN INDIA



C.3

MAIN

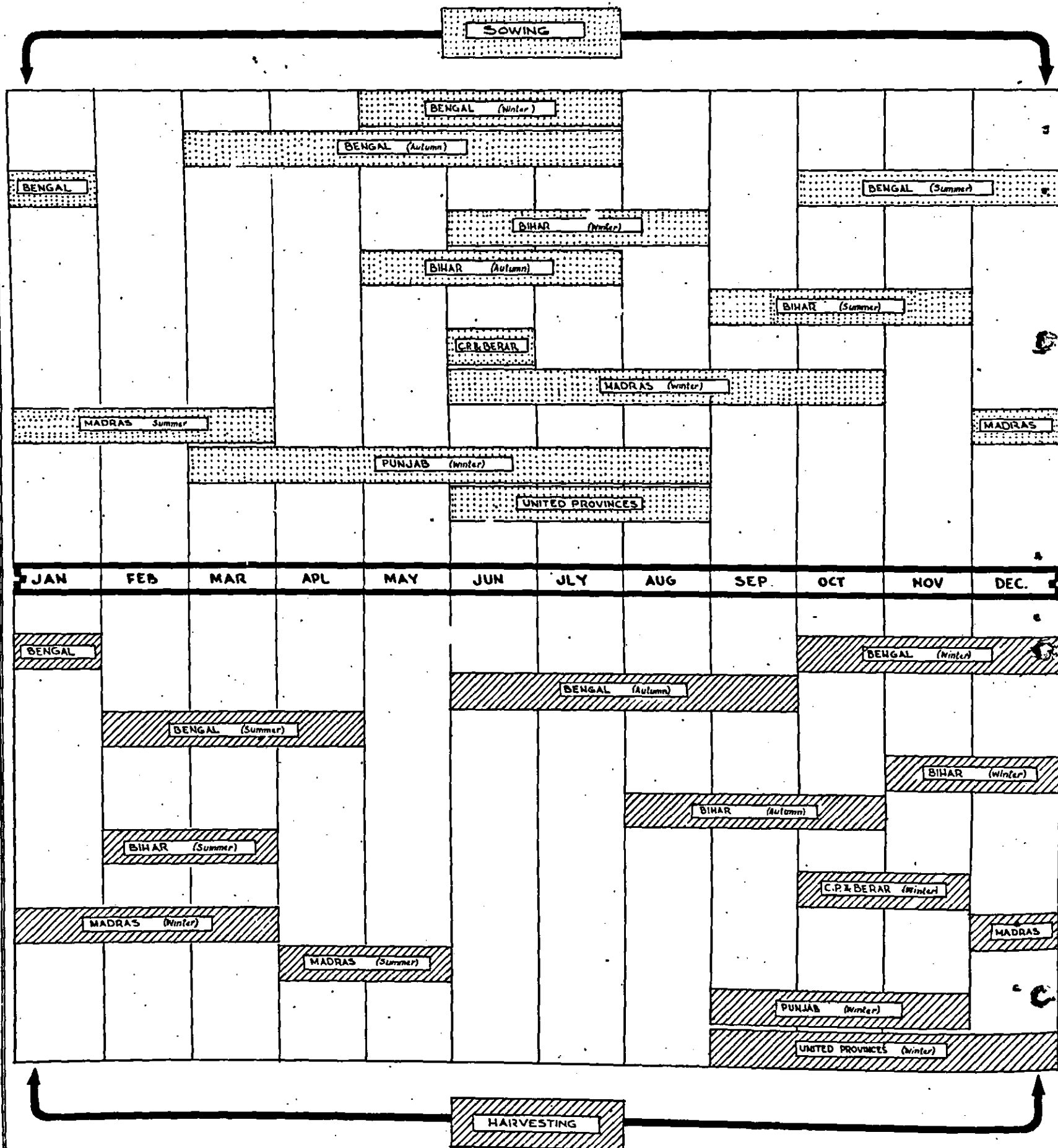
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C.4

RICE

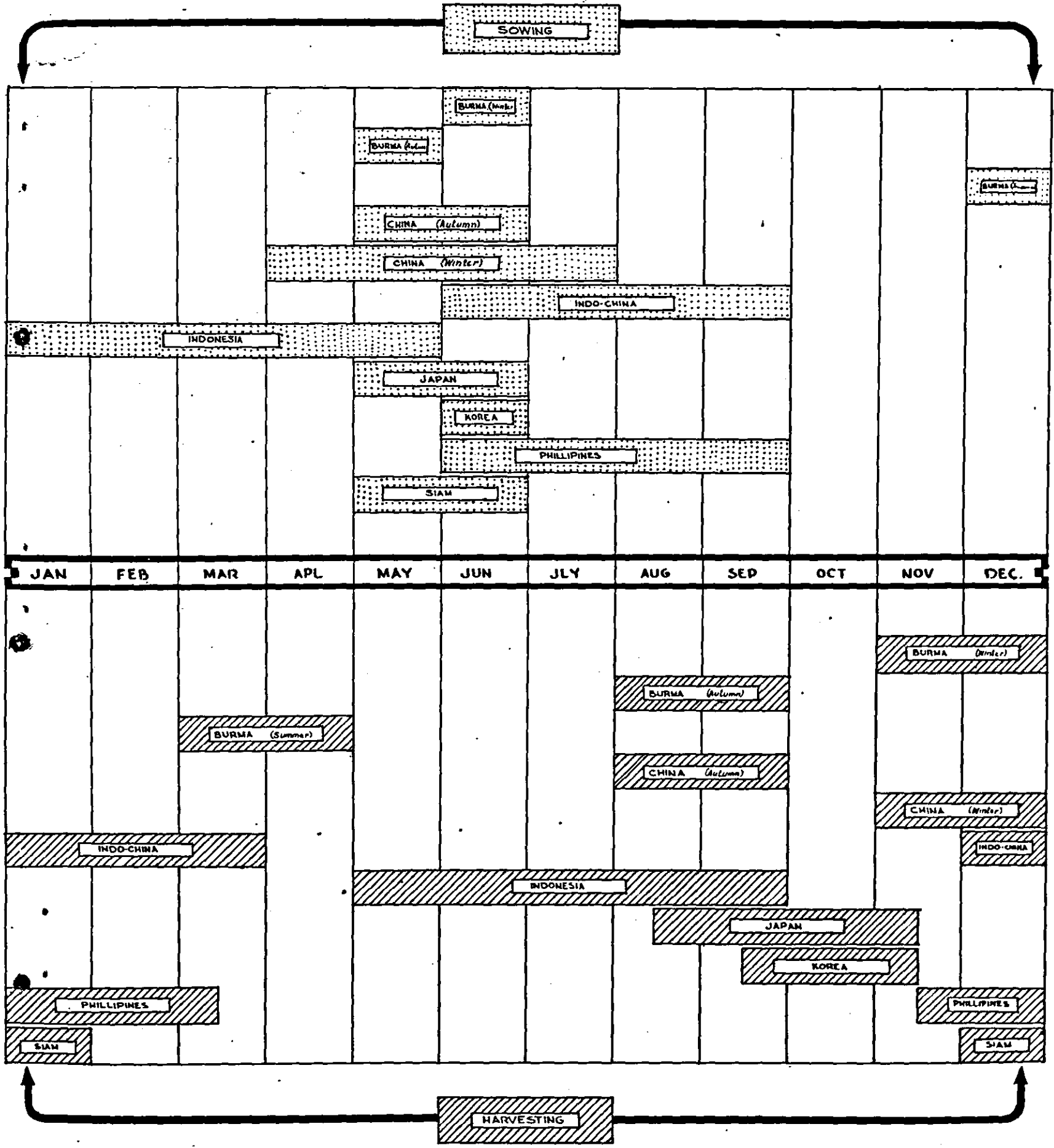
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C.5

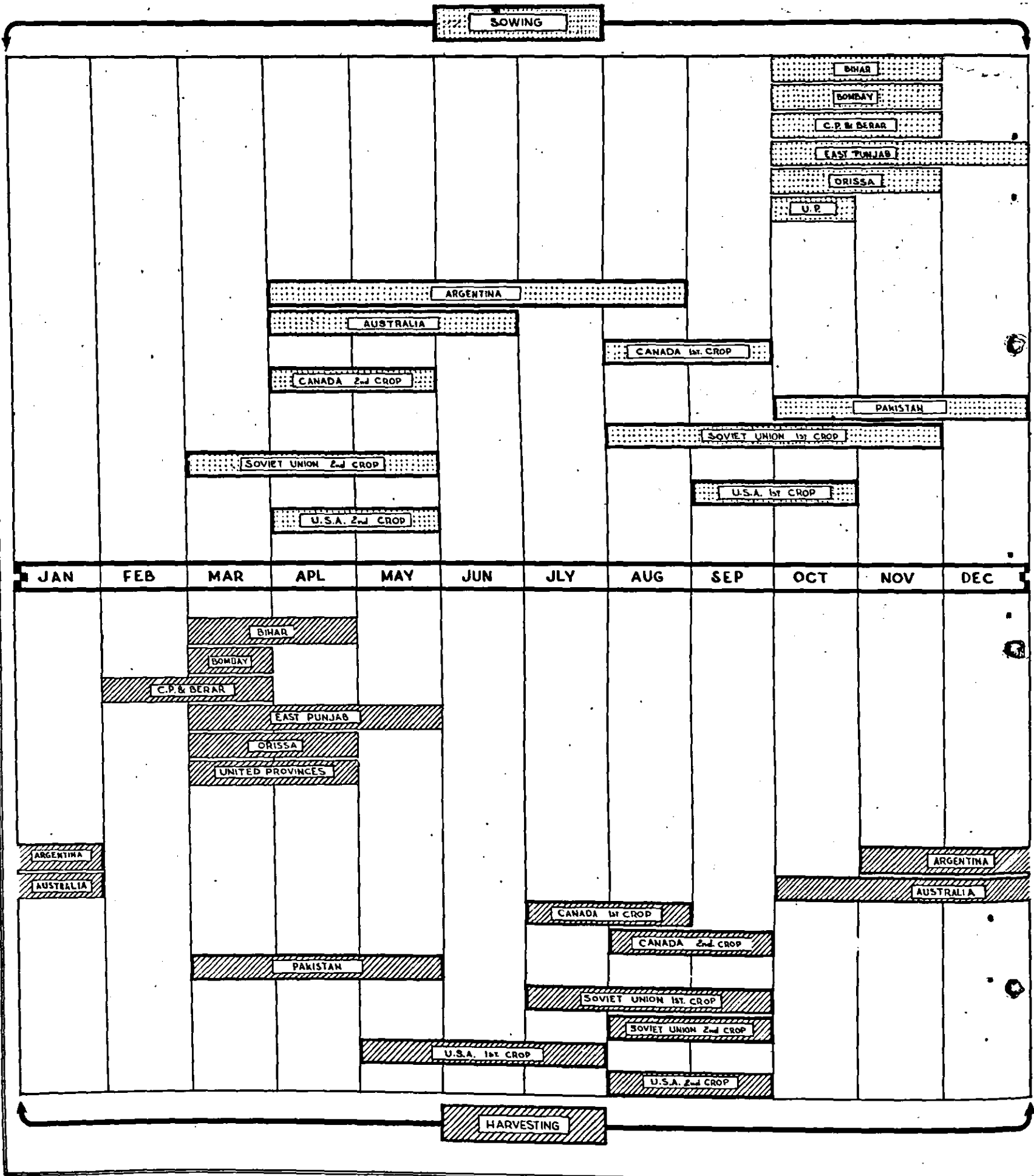
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SOWING AND HARVESTING SEASONS IN FOREIGN COUNTRIES.



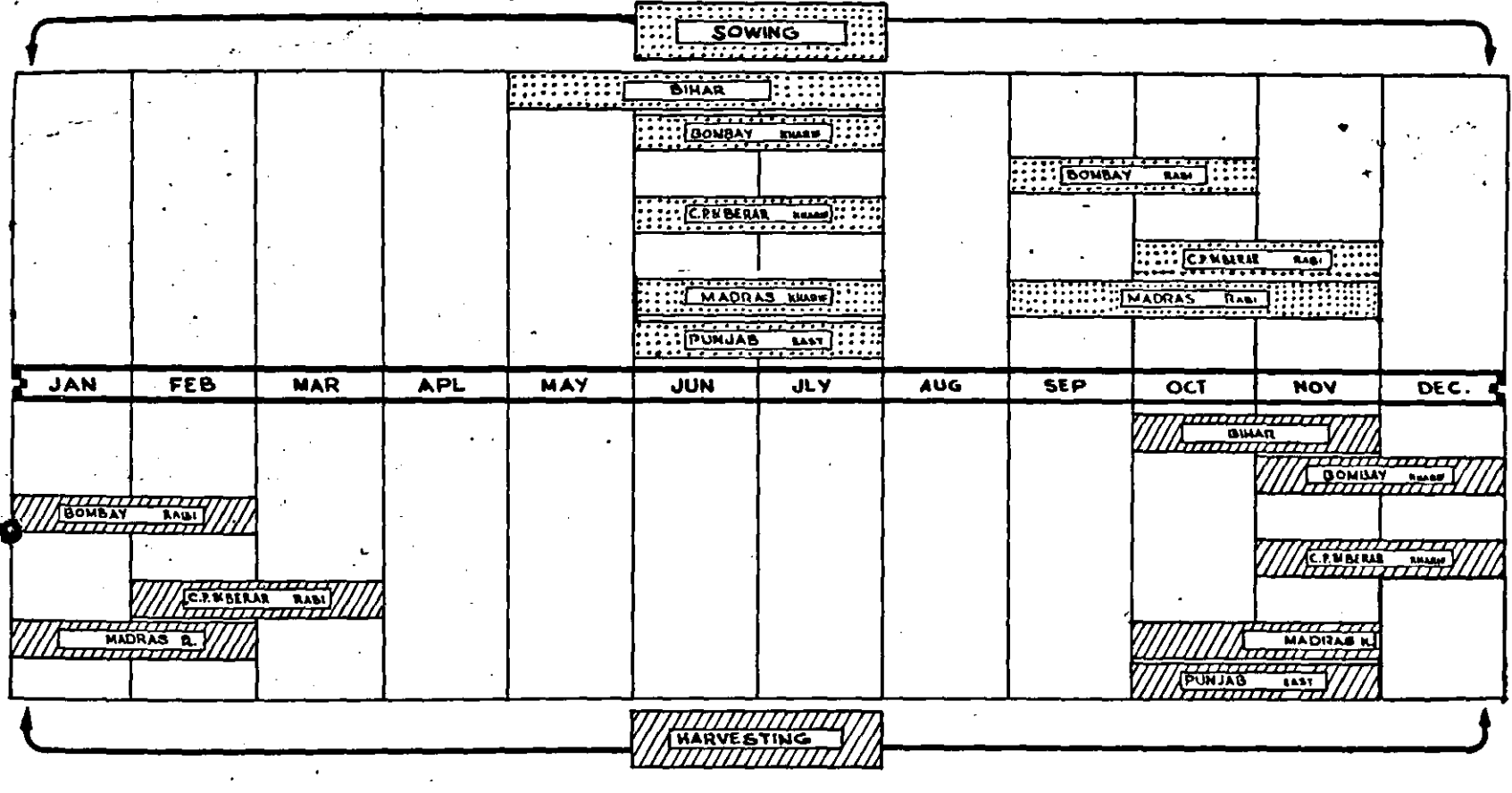
WHEAT

SOWING AND HARVESTING SEASONS IN INDIAN PROVINCES & FOREIGN COUNTRIES.



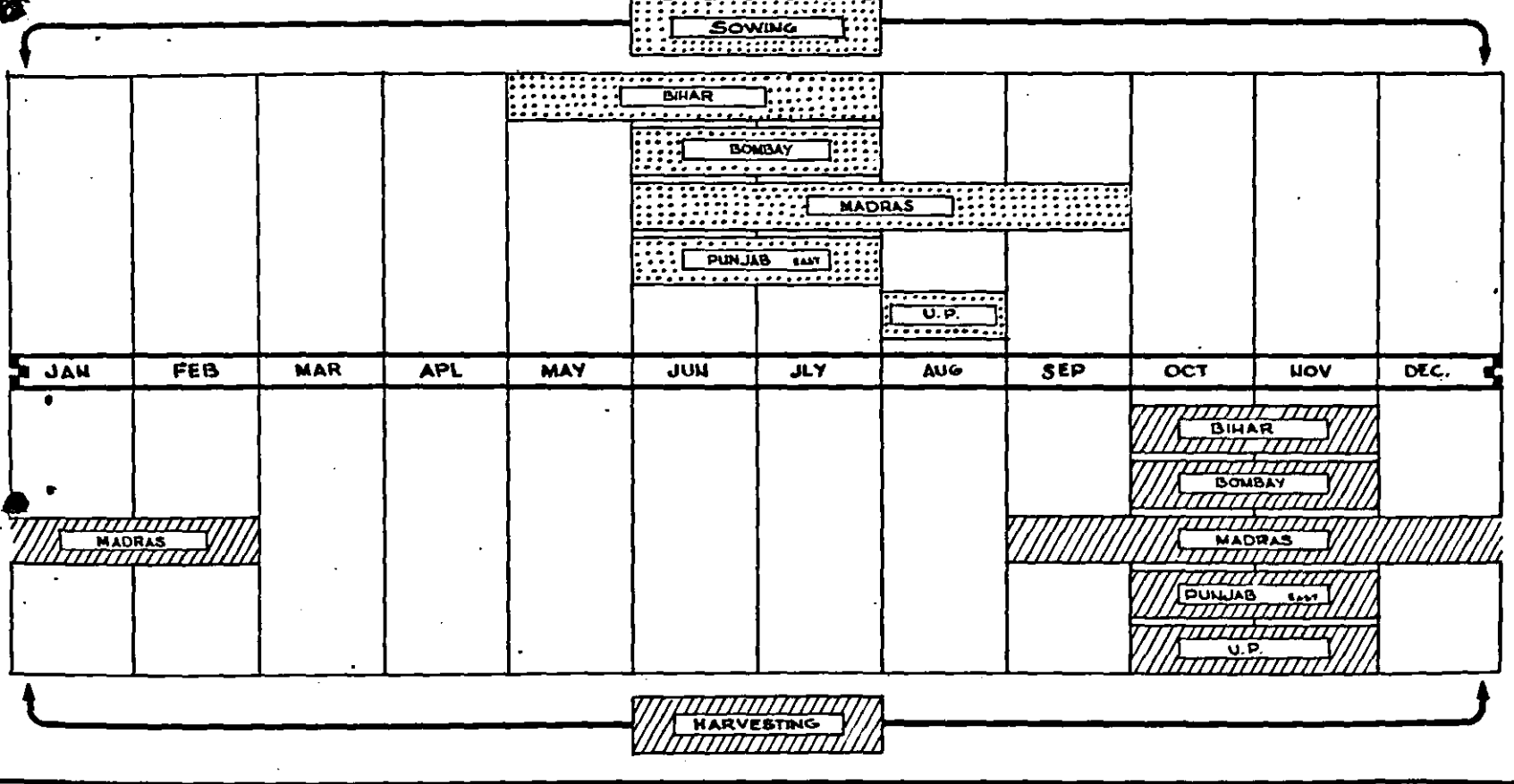
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JOWAR SOWING AND HARVESTING SEASONS IN INDIAN PROVINCES



C.8

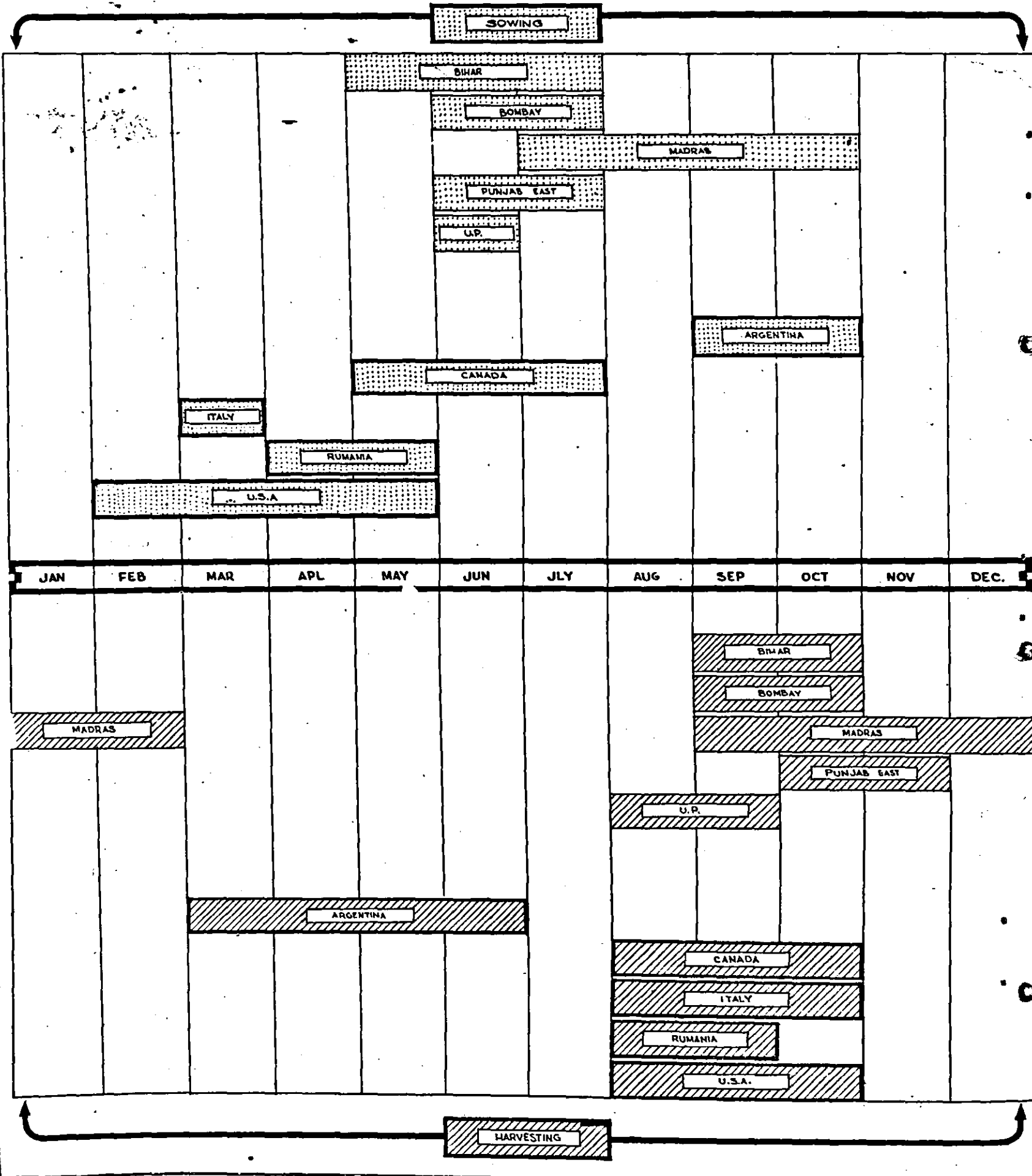
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C.9

MAIZE

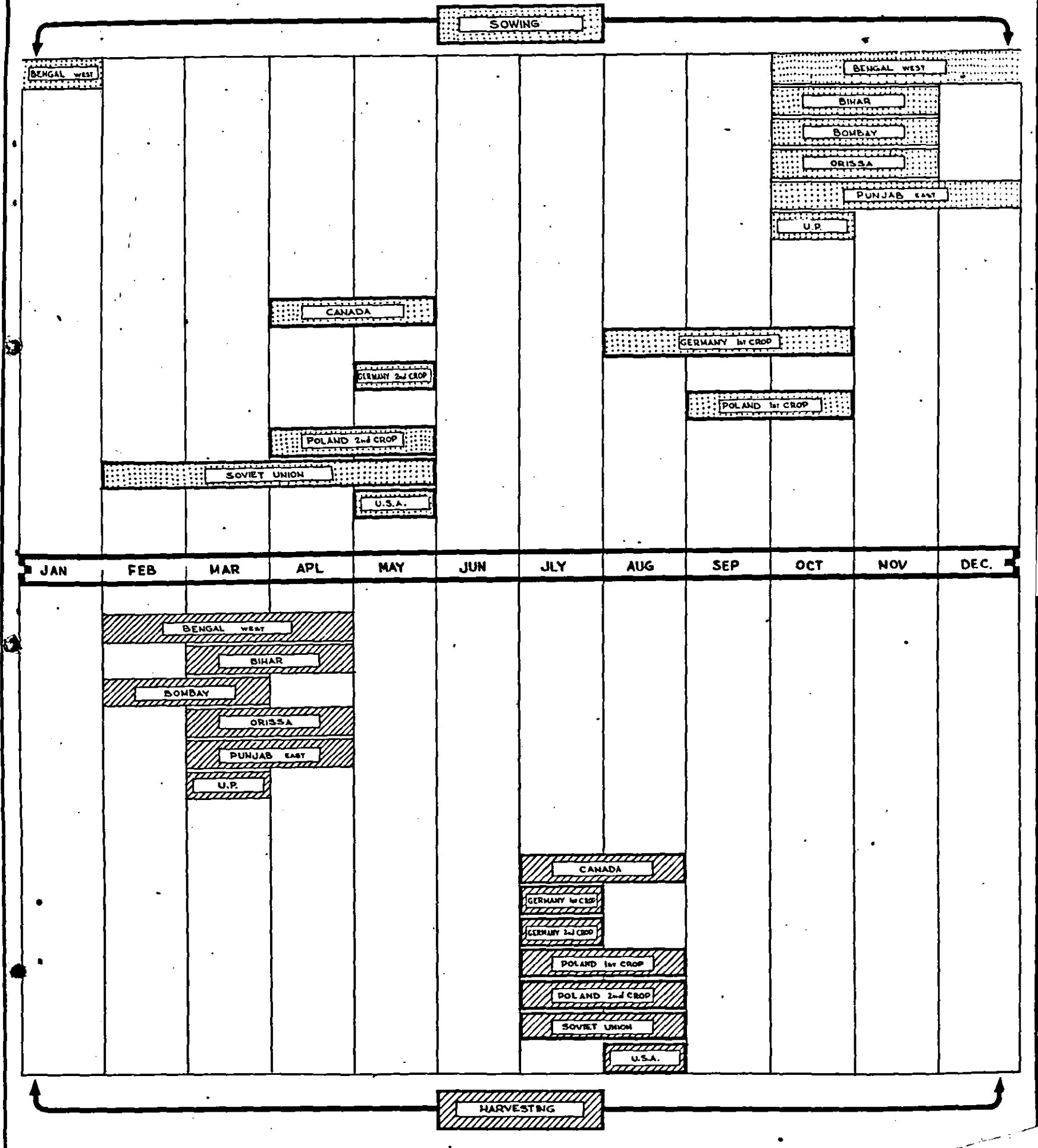
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C.10

BARLEY

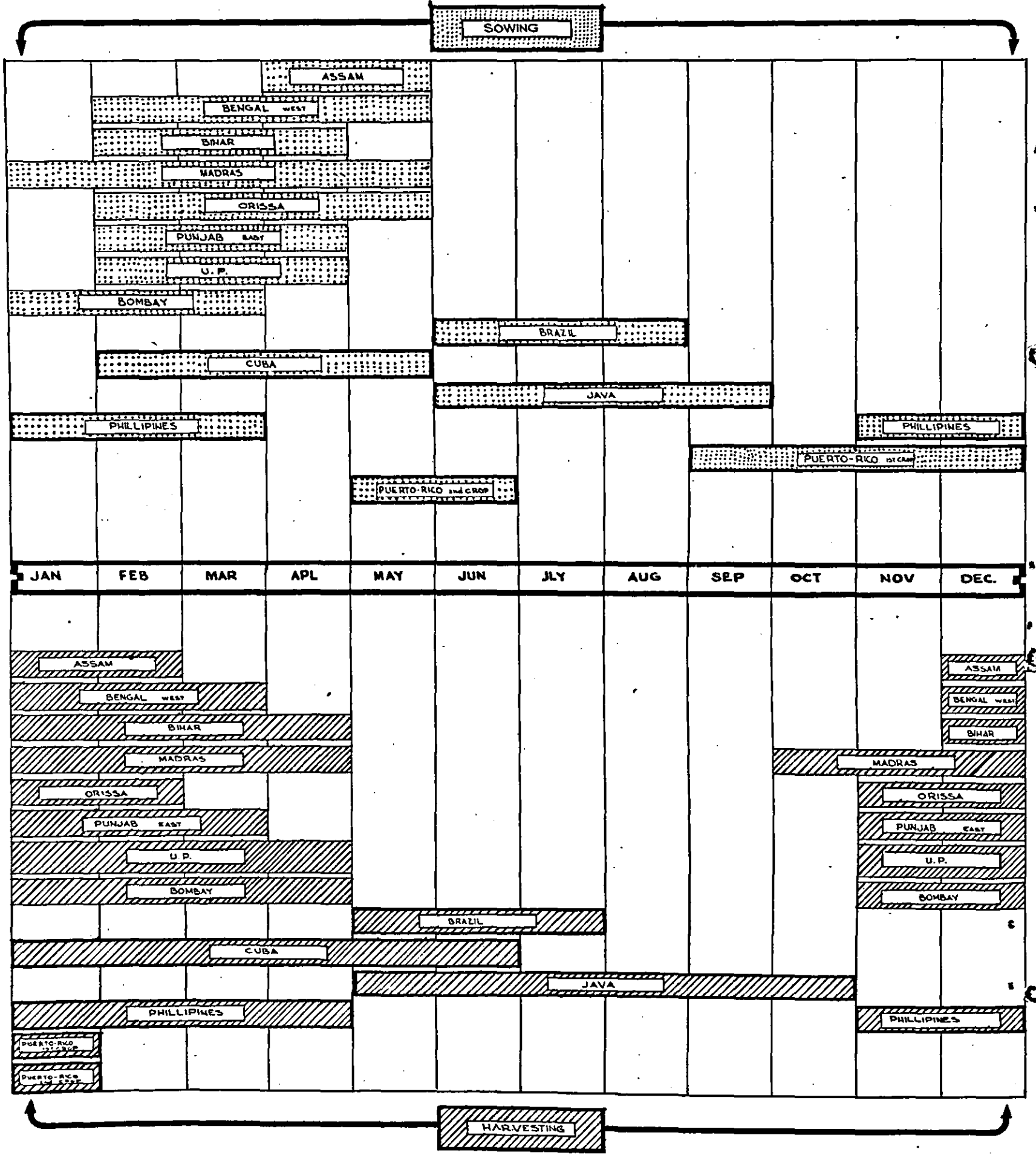
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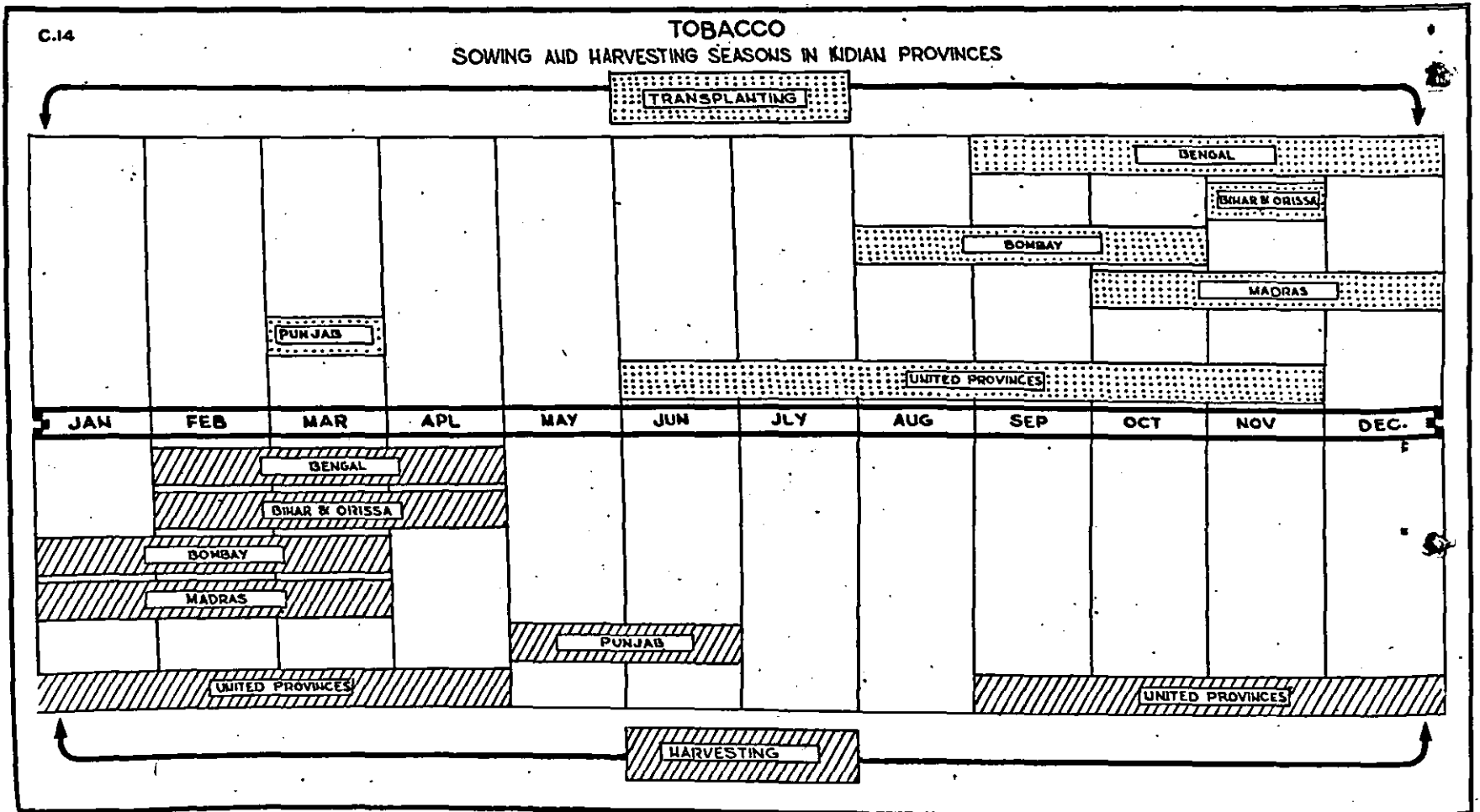
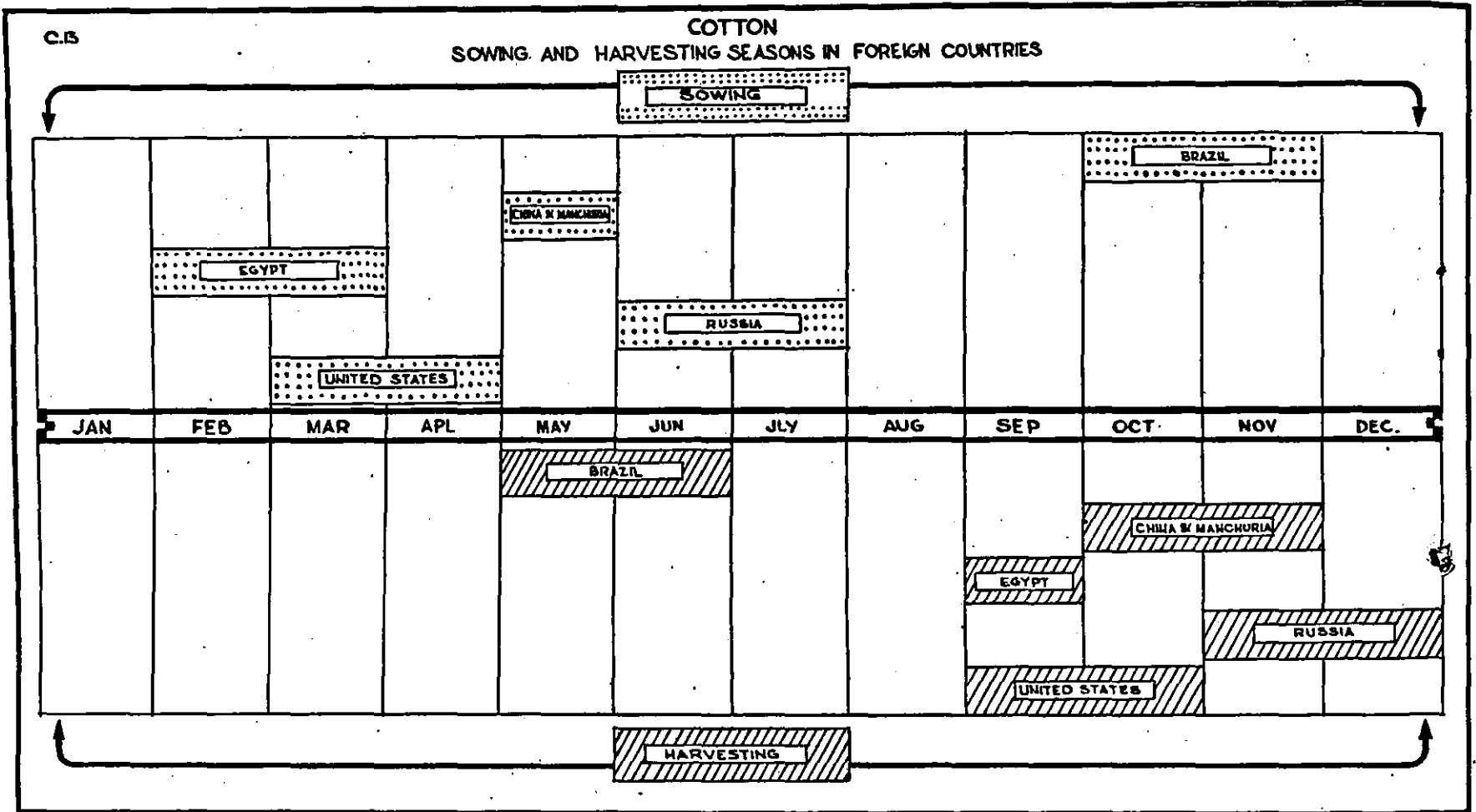


C.11

SUGARCANE

SOWING AND HARVESTING SEASONS IN INDIAN PROVINCES & FOREIGN COUNTRIES.





5. CROP CALENDAR

5.1 CROP CALENDAR SHOWING IMPORTANT AGRICULTURAL OPERATIONS OBTAINING IN EACH PROVINCE

JANUARY

Province	Preparation of the Soil	Sowing and Transplanting	Growing and maturing	Harvesting and threshing
Assam	Soil prepared for sowing lowland Aus Paddy and Murrumbidgee: Preparatory tillage for Jute and Sugarcane	Sowing of lowland Aus Paddy begun: Transplantation of Sali (Rice) and Irrigated Rice in Lushai Hills: Potatoes sown.	Rainfed Pulses begin to flower from middle of month Tobacco is flowering and maturing: Tea Plants are pruned: Linseed crop maturing.	Harvesting and threshing of rainfed Kharif Rice: Cutting and crushing of Sugarcane begins from middle of the month; Harvesting of Kulthi (Horsegram).
Bengal (West)	Land ploughed in after Aman paddy is harvested: Preparatory tillage for Jute: In lower Bengal land ploughed for Sugarcane till middle of month	Boro sown in the swamps: Sowing of Sugarcane: Bhadoi Cotton sown	Wheat crop is growing: Arhar is maturing: Bengal gram is growing: Linseed is maturing Tobacco is flowering and beginning to mature: The smell and large sized Castor seed is ripening.	Harvesting and threshing of Aman Rice: Harvesting of Sugarcane: Horsegram harvested: Turmeric begins to yield: Harvesting of cold weather Cotton crop completed: Potato harvest in the plains begins from about 15th.
Bihar	Preparatory tillage for Sugarcane: Land ploughed and levelled for sowing Indigo.	Sowing of Sugarcane in parts	Elongation of the Wheat plant and flowering: Barley crop growing: Bengal gram and Linseed maturing: Arhar ready for harvesting.	Rainfed Kharif Rice being threshed. Harvesting of early Cotton completed: Linseed harvesting begins towards the close of month: Harvesting of Kharif Castor.
Bombay	Land ploughed in after Kharif Rice is harvested: Preparatory tillage for Sugarcane in some districts.	Sowing of summer Rice in some districts: Planting of Sugarcane in Surat and Southern Maratha districts	Wheat crop in ears. So too Rabi Jowar.	Threshing of Kharif Rice completed. Threshing of Kharif Jowar in progress: Sesamum sown in Sept. ready for harvest: Groundnut sown in June-July lifted in Dec. Jan: Turmeric planted in May being collected: Harvesting of Linseed, Rape and Kharif Castor: Cotton being picked.
C.P. & Berar	Ploughing for early Cotton: Preparatory tillage for Rabi Rice	Sowing of Rabi Rice commences towards end of month: Planting of unirrigated Sugarcane may extend to the month.	Wheat crop in ears: Elongation and flowering of Rabi Jowar.	Threshing of Kharif Rice completed: Harvesting of Kharif Jowar may extent to 2nd week: Harvesting of irrigated Sugarcane: Harvesting of Linseed, Rape and Mustard begins and that of Groundnut nearing completion: Picking of Cotton in progress.
Madras	Preparatory tillage for Kharif Rice in some districts like Chingleput, for Cotton (Irrigated) in Ramnad district and for Jowar (Rabi) in Trichinopoly.	Sowing of Rabi Rice in Cochin and Travancore and transplantation in Anantapur and W. Godavari: Planting of Sugarcane and irrigated Tobacco: Coffee seed beds sown.	Elongation of Jowar stalk & flowering in Ceded Dists., E. Godavari and Guntur: Horsegram growing: Flowering & boll formation of Cotton in Anantapur, Cuddapah, Guntur, Coimbatore & Madura: Linseed growing & ready for harvest in places	Harvesting of Kharif Rice in most districts Rabi Rice also harvested in the districts of S. Kanara, Trichinopoly and N. Arcot: Harvesting and threshing of Jowar in Vizag Madura and W. Godavari. Bengal gram sown in Oct. ready for harvesting, as also Groundnut and Sesamum sown in Sept., Castor pods being gathered; Picking of Kharif Cotton commences in Bellary, Cuddapah and Guntur.
Orissa	Land ploughed after harvesting of winter Rice: Preparatory tillage for Sugarcane	Sesamum (Rabi) sown	Flowering and grain formation of Rabi Jowar.	Threshing of Kharif Rice and harvesting of Sugarcane completed: Harvesting of Linseed Rape and Mustard begun: Kharif Castor ready for harvesting: Cotton picking in progress.
Punjab (East)	Preparatory tillage of fallow lands for Cotton, Sugarcane & Kharif Fodders: Preparation and manuring of land for Potatoes, Tobacco and all summer vegetable.	Sowing of Tobacco: Planting and hoeing of Onion.	Watering of Wheat, Barley, Linseed and all Rabi Fodders and weeding of Wheat, Barley and Oats: Watering of late varieties of Sugarcane of previous year, and watering and weeding of all Rabi Condiments and Spices	Completion of harvesting & threshing of Kharif Rice: Threshing of Kharif Jowar: Harvesting & threshing of Toria: Picking of American Cotton completed: harvesting of previous year's Sugarcane: Lifting of Potatoes in plains begins: Harvesting of Turmeric, Ginger and Chillies ends.
U. P.	Land prepared for planting Boro, Jethi or hot weather Sugarcane: Ploughing & levelling for Indigo.	Boro, Jethi or hot weather Rice sown in silty soils: Rabi Rice transplanted	Wheat is growing: Potato crop maturing: Cotton ready for picking.	Threshing of Jowar may extent upto the 1st week in Jhansi: Harvesting of previous year's Sugarcane completed: Picking of Cotton continues: Harvesting of Linseed, Rape and Mustard: Turmeric gathered in Calcutta: Picking of Castor.

F E B R U A R Y

Province	Preparation of the Soil	Sowing and transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Soil prepared for Jute: Land ploughed for Sugarcane	Aus lowland sown: Rabi Rice transplanted in Lushai Hills, Manipur and Cachar: Potato Crop sown:	Tea plant pruned: Flowering and grain formation of Grams & Pulses: Rabi Rice growing: Tobacco maturing	Threshing of kharif Paddy: Linseed, Rape and Mustard harvested: Cutting and crushing of Cane: Harvesting of Horsegram.
Bengal (West)	First ploughing for Aus Paddy: Ploughing for Aman Paddy: Land ploughed and harvested and harrowed for Sesamum.	Sowing of Boro (summer Rice) in swamps: Sowing of Jute: Sesamum and Bhadoi Cotton sown	Grain formation of Wheat, Grams and Pulses: Tobacco maturing in some districts	Threshing of Kharif Paddy completed; Harvesting of Tobacco begun: Harvesting of Sugarcane nearing completion: Castor harvested: Picking of Cotton in progress: Harvesting of Linseed Rape and Mustard
Bihar	Land prepared for Sugarcane	Sowing of Sesamum (Rabi): Summer Rice and Jute sown	Wheat and Barley Crop maturing: Bengal gram growing	Harvesting and threshing of winter Rice; Cotton picking in progress: Kharif Castor gathered: Harvesting of Linseed, Rape, Mustard, Horsegram and Arhar.
Bombay	Preparatory tillage for Sugarcane	Planting of Cane in some districts	*Rabi Rice maturing: Gram and Pulses growing and in places ready for harvest	Harvesting of Wheat and Rabi Jowar begun: Picking of Cotton continues in some districts: Linseed harvesting also begun.
C.P. & Berar	Preparatory tillage for Sugarcane and Cotton	Sowing of Rabi Rice	Grain formation of Wheat crop: Flowering and grain formation of Rabi Jowar: Horsegram and Arhar maturing.	Picking of Cotton completed: harvesting of Rabi Jowar and Linseed begins.
Madras	Preparatory tillage after harvesting of Kharif Rice	Sowing of Rabi Jowar in Trichinopoly: Sowing of Kharif Cotton in Ramnad: Planting of Sugarcane in places.	Maturing of Jowar: Boll-formation of Cotton in Anandapur and Cuddapah: Flowering and boll formation of Rabi Cotton: Sugarcane growing in places.	Threshing of Paddy continued, Harvesting of Rabi Rice in S. Kanara: Harvesting of Jowar begun: Picking of Cotton in Guntur and Cuddapah: Harvesting of Potatoes in Nilgiris: Harvesting of Bengal gram
Orissa	Preparatory tillage after Kharif harvest	Sowing of Rabi Rice: Planting of Cane begins	Sesamum, Grams and Pulses growing: Wheat maturing	Harvesting of Rabi Jowar, Linseed, Rape and Mustard, Cotton Picking.
Punjab (East)	Preparatory tillage for Cotton, Sugarcane, Potatoes Tobacco and all summer Vegetables.	Planting of Potatoes in plains: Sowing of thick variety of Sugarcane: Sowing of all summer Vegetables.	Watering of Wheat, Barley, Linseed and Oats: Gram and Pulses growing: Watering of all winter Vegetables	Harvesting and crushing of previous year's Cane: Lifting of the autumn crop of Potatoes in plains ends.
U. P.	Land prepared for Kharif Rice	Transplanting of Boro or hot weather Rice: Planting of Cane	Grams and Pulses growing Grain formation of Wheat crop: Barley maturing.	Picking of Castor Picking of Cotton completed: Potato crop dug up.

M A R C H

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Land ploughed after Kharif harvest: Land prepared for Sugarcane planting	Sowing of Jute, Ahu (High land) Paddy and Boro	Rabi Paddy in ears: Gram maturing in places	Harvesting of grams and Pulses begun: Also of black Til sown in October: Crushing of Cane completed
Bengal (West)	Land ploughed after Kharif harvest: Preparation of land for sowing Paddy	Sowing of Jute and Sesamum: Planting of Sugarcane Bhadoi Cotton sown in most places	Grams and Pulses maturing in places: Wheat crop in ears	Harvesting of Grams, Pulses, Tobacco and Linseed; Harvesting of Sugarcane completed
Bihar	Land ploughed after Kharif harvest: Preparation for sowing Paddy	Sowing of Jute: Planting of Cane	Wheat crop in ears: Grams maturing	Harvesting of Wheat and Barley: Harvesting of Sugarcane and Linseed completed: Cotton pickings completed
Bombay	Land prepared for Kharif crops	Planting of Sugarcane	*Flowering and grain formation of Rabi Rice: Bengal gram ready for harvest in most places	Harvesting of Wheat and Jowar. Picking of Cotton and Castor.
C.P. & Berar	Preparatory tillage for Kharif crops	Sowing of Kharif crop begins	Rabi Rice in ears: Arhar ready for harvesting	Harvesting of Wheat, Grams and Rabi Jowar: Cutting of irrigated Sugarcane: Tobacco harvested: Picking of Castor and Cotton
Madras	Land ploughed for Kharif crops	Sowing of Kharif crops begins: Sowing of Cotton in Ramnad: Planting of Cane continues	Rabi Rice in ears in some districts: Tillering and elongation of Rabi Jowar: Arhar ready for harvesting	Picking of Cotton: Threshing of Kharif Jowar: Harvesting of Grams: Harvesting of Bajra completed: Turmeric gathered in Coimbatore: Tobacco harvested; Linseed harvesting in progress.
Orissa	Land prepared for Kharif crops	Sowing of Kharif Bajra and planting of Cane	Rabi Rice and Wheat in ears: Sesamum growing	Harvesting and threshing of Rabi Jowar and Grams: Harvesting of Linseed, Rape and Mustard nearing completion
Punjab (East)	Preparatory tillage for Sugarcane: Cotton and Kharif crops and tillage and manuring of land for all summer Vegetables	Planting of Sugarcane & sowing of early Kharif: Sowing of Cotton (American): Transplanting of Tobacco: Planting of Potatoes in hills	Watering of Wheat, Oats, etc. Watering of condiments and Spices: Grain formation of Wheat in places: Linseed maturing	Harvesting of Wheat, Barley, Grams, Winter Vegetables and late varieties of Sugarcane
U. P.	Land prepared for Kharif sowing	Transplantation of Rabi Rice: Sowing of Kharif Bajra begins: Planting of Cane	Grain formation of Wheat crop: Linseed ready for harvest: Boro or hot weather Rice maturing: Tobacco matures	Harvesting of Wheat commences: harvesting of Linseed and Barley: Grams harvested: Picking of Castor.

A P R I L

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Preparatory tillage for Kharif.	Sowing of Bao and Sali in Cachar; Sowing of Jute & planting of Cane in Brahmaputra valley.	Rabi Paddy in ears; Sesamum growing; Early crop of potatoes growing.	Threshing of Grams and Pulses; Harvesting of Sali Bura Paddy; Plucking of Tea.
Bengal (West)	Preparatory tillage for Kharif Paddy, Bajra and Ragi.	Sowing of Kharif crops begun; Sowing of Sesamum; Planting of Cane; Bhadoi Cotton sowing completed.	Germination and growth of Jute; Boro (summer Rice) ready for harvest; Bhadoi Cotton growing in places.	Threshing of Grams and Pulses; Harvesting of Tobacco and Rabi Castor; Rape and Mustard harvested; Wheat harvesting begins
Bihar	Preparatory tillage for Kharif	Sowing of Kharif crops begun; Planting of Cane.	Growth of Jute; Growth of Cane in places.	Harvesting and threshing of Wheat, Gram and Pulses; Barley harvesting nearing completion; Threshing also begins.
Bombay	Land prepared for sowing Kharif Paddy and Jowar.	Sowing of Kharif crops begins.	Sugarcane growing; Tobacco maturing.	Harvesting and threshing of Rabi Paddy; Threshing of Wheat and Jowar; Harvesting of Bengal gram and Rabi Castor; Picking of Cotton;
C.P. & Berar	Preparatory tillage for Kharif Paddy and Cotton	Sowing of Kharif Crops begins.	Sugarcane growing in some districts; Tobacco ready for being cut.	Harvesting and threshing of Wheat and Rabi Paddy; Threshing of Jowar; Harvesting of Grams and Pulses; Cutting and crushing of Cane; Tobacco cut in some districts; Castor pickings over.
Madras	Land ploughed after harvesting of Kharif crops; Preparatory tillage for Bajra, Cotton and Sesamum.	Sowing of Kharif Paddy begins in Malabar; Sowing of Kharif Cotton in Ramnad and other districts; Planting of Cane nearing completion.	Elongation of Rabi Jowar in Trichinopoly; Sesamum growing.	Harvesting of Rabi Paddy in Madura, Ramnad, Chittoor, Tinnevely and Chingleput districts; Harvesting of Rabi Jowar; Picking of Cotton; Turmeric dug up in Coimbatore districts; Harvesting of Grams; Linseed, Rape and Mustard harvested.
Orissa	Preparatory tillage for most Kharif crops.	Sowing of Kharif crops begins.	Growing of Sugarcane; Tobacco maturing.	Harvesting and threshing of Wheat and Rabi Paddy.
Punjab (East)	Preparatory tillage for Kharif Paddy and other Kharif crops.	Planting of Sugarcane completed; Sowing of Cotton and Arhar in most districts	Sugarcane and Tobacco growing.	Harvesting and threshing of Wheat, Linseed, Grams and Barley; Harvesting of Condiments and Spices.
U. P.	Preparatory tillage for Kharif Paddy, Jowar, Bajra, Cotton and Sesamum.	Kharif Paddy sown in parts of the Province; Ragi sown in Garhwal; Turmeric planted; Planting of Sugarcane Castor sown as a subordinate crop to Jowar and Bajra	Rabi Paddy in ears; Asarhi Tobacco ready for being cut.	Harvesting and threshing of Wheat; Grams, Linseed, Rape and Mustard harvested; Castor (Spring crop) reaped.

MAY

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Land ploughed after Rabi harvest: Field prepared for sowing Ragi and Horsegram.	Sowing of Kharif Paddy: Planting of Sugarcane continued: Sesamum sown in Manipur and Nowgong.	Weeding of Sugarcane: Early crop of Potatoes matures: Germination and elongation of Jute.	Harvesting of Rabi Paddy: Plucking of Tea continued.
Bengal (West)	Land prepared for sowing Kharif Paddy: Field prepared for sowing Ragi and Horsegram (for fodder)	Sowing of Kharif Paddy in some districts: San Hemp sown: Turmeric sown: Planting of Cane continues: Kharif Cotton sown.	Sesamum growing: Weeding of Sugarcane: Germination and elongation of Jute: Bhadoi Cotton growing	Boro (summer Rice) harvested: Harvesting of Wheat completed and threshing begins.
Bihar	Preparatory tillage for Kharif paddy	Kharif Castor sown: Sowing of Arhar and Groundnut	Growth of Jute: Sugarcane growing.	Threshing of Wheat and Barley completed.
Bombay	Land ploughed after Wheat harvest: Preparatory tillage for Bajia, Jowar, Groundnut and Cotton: Preparing seed-bed for early Tobacco	Turmeric planted: Sowing of Sugarcane continued: In Ahmedabad, Kaira and Baroda, Groundnut sown.	Sugarcane growing	Threshing of Rabi Paddy: Harvesting and threshing of Grams completed: Rabi Castor harvested.
C.P. & Berar	Preparatory tillage for Kharif Rice, Jowar and Cotton	Sowing of the Kharif Crop in some districts	Sugarcane growing	Threshing of Wheat and Rabi Jowar completed: Cutting of early Tobacco: Threshing of Gram ends
Madras	Land prepared for sowing Kharif Rice and Bajra	Sowing of the Kharif Rice in some districts: Sesamum sown: Sugarcane planted.	Growing of Cotton in Ramnad: Sowing of Kharif Paddy in Malabar.	Harvesting of Rabi Paddy in Anantapur, W. Godavari, Madura, Ramnad and Chingleput: Rabi Jowar being harvested in Trichinopoly: Picking of Cotton (Rabi crop) continued in Madura and Coimbatore: Grams harvested: threshing in progress.
Orissa	Preparatory tillage for Kharif Rice	Sowing of Kharif Jowar and Sugarcane begun	Sugarcane growing: Tobacco ready for being cut	Threshing of Wheat and Rabi Paddy completed: Threshing of Grams in progress.
Punjab (East)	Preparatory tillage for Kharif Jowar and Kharif Fodder: Manuring for Maize	Sowing of Kharif Rice: Sowing of Desi and early varieties of Cotton.	Watering of Sugarcane and Watering of all winter vegetables: Cotton germinating in places.	Threshing of Wheat: Threshing of Gram and Barley ends: Harvesting of late Oats, digging of Potatoes in the plains: Harvesting of all Rabi Condiments ends.
U. P.	Field prepared for Kharif Jowar and Paddy in some districts	Sowing of Kharif Paddy begun: Sowing of Sugarcane and Cotton continued: Turmeric and Sesamum sown.	Rabi Paddy matures: Sugarcane and Castor growing: Germination of Cotton.	Harvesting of Rabi Paddy begun: Threshing of Wheat continued: Bengal gram harvested: Late Tobacco cut: Barley harvesting and threshing completed.

J U N E

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Preparation for sowing Ragi Ploughing after Rabi harvest.	Kharif paddy sown in Darrang Goalpara and Kamrup: Sowing of Sesamum in Manipur and Nowgong continued.	Watering of Cane: Elonga- tion of Jute	Threshing of Rabi Paddy: Early crop of Potatoes dug up: Pluck- ing of Tea continued
Bengal (West)	Field prepared for sowing Ragi	Transplantation of Kharif Paddy and sowing continued: Kharif Castor sown.	Sesamum and Sugarcane grow- ing: Germination of Tur- meric and San Hemp: Elon- gation of Jute: Early Cot- ton growing.	White Til harvested: Threshing of Boro (summer Rice): Threshing of Wheat completed.
Bihar	Land ploughed after har- vesting Wheat.	Sowing of Kharif Paddy (Aman) Sowing of Groundnut and Cas- tor (small variety).	Elongation of Jute: Sugar- cane and Arhar growing.	Threshing of summer Rice comple- ted.
Bombay	Wheat stubbles ploughed in: Preparation for sowing Bajra: Field ploughed and harrowed for Rabi Sesamum.	Sowing of and transplantation of Kharif Paddy: Sowing of Cotton, Jowar and Groundnut; San Hemp sown in Khandesh.	Watering of early Cane and Turmeric.	
C.P. & Berar	Land ploughed after Rabi harvest: Preparatory tilla- ge for Wheat.	Sowing of Kharif Paddy, Oil seeds, cotton and Kharif Jowar: Sugarcane maturing.	Watering of Cane.	Threshing and winnowing of Wheat
Madras	Land ploughed after Rabi harvest and prepared for Kharif crops.	Sowing of Kharif Paddy in S. Kanara, Malabar, Nilgiris, Trichinopoly, Kurnool and Vizag; Sowing of Cotton in Guntur: Turmeric planted in Coimbatore: Ragi sown: Groundnut sown in unirriga- ted land: Gingelly sown in Godavari.	Bell formation of Cotton in Ramnad: Watering of Sugarcane.	Threshing of Rabi Paddy in Ananta- pur, W. Godavari and Rabi Jowar in Trichinopoly and Nellore: Pick- ing of Cotton commences in Ramnad Groundnut (summer variety) har- vested: Threshing of Grams.
Orissa	Ploughing after Rabi har- vest.	Sowing of Kharif Paddy and Jowar. Sowing of Cotton.	Germination and tillering of early Jowar: Watering of Cane.	Threshing and winnowing of Wheat: Threshing of Grams completed
Punjab (East)	Preparatory tillage for Kharif Fodder: Land plou- ghed after harvesting Wheat.	Sowing of Kharif Paddy, Oil- seeds, Maize, Jowar, Pulses, Desi Cotton and of San Hemp, Planting of Turmeric and Ginger.	Watering of Sugarcane and Cotton: Hoeing of Sugar- cane and Cotton.	Threshing and winnowing of Wheat: Harvesting and curing of Tobacco begins: Harvesting of summer Vegetables continues.
U. P.	Land ploughed after har- vesting of Rabi crop: Seed bed for early Tobacco prepared.	Sowing of Kharif Paddy, Kha- rif Jowar and Bajra: Sowing of Turmeric in Cawnpore.	Sugarcane and Castor grow- ing: Germination of Cot- ton and Turmeric.	Harvesting and threshing of Rabi Paddy and Wheat.

J U L Y

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Ploughing after harveting of Rabi Paddy	Sowing of Ragi: Sowing and trans-plantation of Kharif Paddy.	Ahu Paddy and Aus highland in ears: Sesamum growing in Manipur and Nowgong.	Harvesting of Murali and Sali Bura Paddy: Plucking of Tea con-tinued: Early Potato gathered. Cutting and retting of Jute.
Bengal (West)	Land Ploughed after har-vesting of Rabi Paddy:	Transplantation of Aman Paddy: Ragi, Bajra and Kharif Castor sown.	Aus Paddy growing: San Hemp growing: Watering of Turme-ric: Sugarcane tied in clumps: Early Cotton matur-ing.	Cutting and retting of Jute.
Bihar	Ploughing of Wheat stubble	Sowing and transplantation of Paddy: Bajra sown: Sowing of Groundnut and Castor.	Sugarcane and Aus Paddy growing.	Cutting and retting of Jute.
Bombay	Ploughing and harrowing for Wheat: Ploughing for Potatoes.	Transplantation of Kharif Paddy: Sowing of Jowar, Bajra and late Groundnut: Tobacco and Castor sown.	Watering of Rice: Germina-tion of Jowar and Kharif Cotton: Turmeric growing in Khandesh: Sugarcane tied in clumps	Curing of Tobacco: Harvesting of all summer vegetables.
C.P. & Berar	Preparatory tillage for Wheat	Transplantation of Kharif Rice: Sowing of Bajra and Jowar	Watering of Rice: Germina-tion of Jowar: Growing of Sugarcane, Cotton and Tur-meric.	Harvesting of summer Vegetables
Madras	Ploughing after Rabi Harvest.	Transplantation of Kharif Paddy in S. Kanara, Nilgiris, Trichi-nopoly, Chittoor, N. & S. Arcot, districts: Sowing of Cotton in Guntur district.	Watering of Rice and Sugar-cane: Cotton and Ragi grow-ing: Gingelly and Groundnut sown in unirrigated land: Turmeric growing in Colimba-tore.	Picking of Cotton in Ramnad: Groundnut (summer variety) har-vested.
Orissa	Preparatory tillage for Wheat	Transplantation of Kharif Rice: Sowing of Ragi in Ganjam: Sow-ing of Jowar and Bajra.	Watering of rice and Sugar-cane: Cotton, Groundnut and Sesamum. Till growing.	Harvesting of early Cotton and Sesamum.
Punjab(East)	Ploughing and harrowing for Wheat: Preparatory tillage for Pulses and Oilseeds continues: Also for winter Vegetables.	Transplantation of Khariff Rice: Sowing of Maize, Jowar, Bajra, Pulses and Oilseeds continues.	Watering of Sugarcane, Cotton and Rice: Water-ing and hoeing of all Kharif Condiments.	Harvesting and curing of Tobacco ends; Harvesting of all summer Vegetables continues.
U. P.	Ploughing after Rabi har-vest.	Sowing and transplantaion of Kharif Paddy: Sowing of Bajra early Tobacco and late Sesamum	Turmeric growing: Tiller-and germination of Jowar; Broadcast Rice (Bhadoi and Kurrai), Sugarcane and Cotton growing.	Harvesting of Broadcast Rice (Bhadoi and Kurrai) begun.

AUGUST

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Preparation of land for winter Vegetables, particularly Potatoes.	Sail Rice transplanted in Brahmaputra valley: Transplantation of Kharif Rice in general: Sowing of Sesamum in Brahmaputra valley: Potato crop (second crop) sown.	Kharif Rice growing in Cachar: Weeding of Sugarcane plant.	Cutting and retting of Jute. Tea plant begins to yield.
Bengal (West)	Ground being ploughed for Wheat	Early varieties of Aus harvested: Transplantation of Aman; Tobacco sown in seed beds: Bajra sowing completed.	Ragi is maturing: San Hemp is growing: Sugarcane being tied up in clumps: Castor plants are growing.	Cutting and retting of Jute: Reaping of Badoi Cotton.
Bihar	Land prepared for Wheat	Sowing of Paddy: Transplantation of Aghani (winter) Paddy begun towards the close of the month: Bajra being sown.	Ragi is getting ripe: Sugarcane is growing up: Sesamum maturing.	Cutting of Jute crops: Tea plant begins to yield.
Bombay	Preparation for Rabi cultivation: Preparation and ploughing of land for Potatoes.	Transplantation of Kharif Rice in Nasik: In Karnatak sowing of Dharwar Cotton.	Germination and elongation of Cotton: Tillering and elongation of Jowar and Bajra	Harvesting of summer Vegetables
C.P. & Berar	Preparatory tillage for Wheat and Rabi Jowar.	Transplantation of Paddy: Minor Kharif crops like Kutki and Til sown: Sowing of Jowar completed	Weeding of Paddy: Intercultural operations in Cotton tracts: Groundnut and Sugarcane growing: Tillering and elongation of Kharif Jowar.	Harvesting of summer Vegetables.
Madras	Preparation for Rabi crops.	Sowing and transplantation of Kharif Rice: Sowing of Rabi Rice in S. Kanara and Trichinopoly: Rabi Jowar sown in W. Godavari and Vizag: Sowing of Cotton in Bellary (towards close) and of Kharif Cotton in Anantapur and Cuddahpah: Groundnut sown from middle of August.	In Guntur and other places elongation of Cotton: Ragi Cotton, black gram and green Gram maturing.	Harvesting of Sugarcane: Harvesting of Rice in parts of Malabar.
Orissa	Land prepared for Rabi crops	Transplantation of winter paddy in all districts and sowing of Ragi in Ganjam	Weeding of Winter Paddy: Sugarcane, Ragi, Maize, Til, Groundnut, Cotton black gram and green gram growing.	Harvesting of Cotton, Paddy and Jute in Cuttack district: Harvesting of Sesamum in Ganjam may commence towards close.
Punjab(East)	Ploughing and harvesting of land for Toria and Wheat: Preparation of land for Potatoes and winter Vegetables.	Sowing of Maize, Jowar and Kharif Pulses: Transplanting of Rice: Sowing of seeds of all Vegetables in nursery.	Watering of all Kharif crops: Hoeing of Maize and weeding of Rice; Cotton and Sesamum growing.	Harvesting of early Potatoes: Harvesting of all summer Vegetables.
U. P.	Land prepared for Wheat	Sowing of Paddy: Tobacco and Bajra sown: Castor sown with Bajra.	Ragi is growing: Turmeric is maturing: Sugarcane growing: Sesamum sown in July is growing: Cotton maturing.	Broadcast Rice (Bhadoi & Kurrail) ready for cutting.

S E P T E M B E R

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Land ploughed for sowing Pulses, Vegetables and winter Crops	Transplanting of Sail Paddy: Horsegram sown for fodder.	Final weeding and earthing of Sugarcane: Potatoes growing.	Harvesting of early hill Paddy and Aus in Cachar district: Harvesting of Asra crop commences in Kamrup: Harvesting of autumn Rice and Jute: Plucking of Tea continued.
Bengal (West)	Land ploughed for Boro Rice: Preparatory tillage for Wheat: Deep ploughing for Linseed.	Transplantation of Aman Paddy being completed: Tobacco sown in seed beds: Castor medium variety being sown.	Bajra maturing: Ragi crop and San Hemp are Ripe: Sugarcane and Cotton growing.	Aus Paddy being harvested towards close: Harvesting and retting of Jute being completed.
Bihar	Preparatory tillage for Wheat and Linseed	Transplantation of Aghani Paddy in progress.	Sugarcane & Bajra growing: Ragi crop ripe.	Bhadoi crop being harvested: Harvesting and retting of Jute.
Bombay	Preparation for Rabi cultivation	Transplantation of Kharif Rice completed	Kharif Rice flowering: Elongation of Jowar: Flowering of Cotton.	Harvesting of Kharif crops begun: Bajra being reaped in some districts.
C.P. & Berar	Preparation for Rabi sowing:	Sowing of Rabi Til	Flowering of Kharif Rice: Elongation of Jowar: Elongation and flowering of Cotton: Sugarcane maturing	Harvesting of Kharif Pulses and of early Kutki and harvesting of Groundnuts: Urad and Nung begun: Harvesting of Maize, minor Pulses and early Paddy.
Madras	Preparation for Rabi cultivation, viz. Rice, Jowar and Cotton in some districts.	Sowing of second Rice crop in Malabar: Sowing of Groundnut till middle of month: Rabi Rice sown in S.Kanara, Trichinopoly, Madura, Ramnad, Chittoor, Tinnevely and Tanjore: Sowing of Rabi Jowar in E. Godavari, W. Godavari and Vizag. and transplantation of Kharif Rice in Malabar. Salem, Coimbatore, N.&S. Arcot and sowing of Cotton (Kharif) in Anantapur and Cuddapah.	Bajra growing: Kharif Rice growing & flowering in Nilgiris, W. Godavari, Kistna: Elongation of Cotton in Guntur: Tillering of Rabi Jowar in Madura.	Harvesting of Kharif Rice in Trichinopoly, Chingleput and Tinnevely
Orissa	Preparation for Rabi sowing	Transplantation and weeding of winter Paddy: Sowing of Til in Sambalpur district.	Sugarcane, Mung and Groundnut growing.	Harvesting of autumn Paddy: Harvesting of Jute in Cuttack: Harvesting of Ragi, Maize and Til begins
Punjab (East)	Tillage of land for Rabi crops: Preparatory tillage for winter Vegetables: Preparation of land for Rabi Condiments	Sowing of Gram, Oilseeds, Barley and Oats: Planting of Potatoes	Watering of Sugarcane, Cotton and other Kharif crops: Watering and hoeing of all Kharif Condiments	Harvesting of autumn crops, Maize, Rice, Jowar, Til and Kharif Pulses: Harvesting of summer Vegetables: Harvesting of Potatoes in the hills: Picking of Desi Cotton
U. P.	Preparation for Rabi Crop.	Transplantation of Paddy completed: Sowing of Gram commenced: Sowing Potato from middle of month	Irrigation of late Paddy and Sugarcane: Boll formation and flowering of Cotton: Bajra & Turmeric maturing.	Harvesting of early Kharif crops: Broadcast Paddy (Bhadoi) cut.

O C T O B E R

Province	Preparation of the soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Preparation for Rabi cultivation in many districts	Sowing of Matikalai, Vegetables and Rabi crops begins Sowing of Horsegram.	Sail Paddy maturing in Brahmaputra valley: Sugarcane being tied in clumps: Potato second crop maturing.	Harvesting of Paddy in Khasi and Jaintia Hills, Cachar, Manipur and Balipara Frontier tract: Harvesting and retting of Jute continued: Plucking of Tea continued: Sesamum harvested in Brahmaputra valley.
Bengal (West)	Preparation for Rabi crop.	Sowing of Pulses: Sowing of Raro in seedbed: Sowing of Wheat may commence in rocky soils: Sowing of Linseed & Horsegram begins: Tobacco transplanted: Potato sown in plains.	Flowering & grain formation of Aman crop: San Hemp is ripe for harvest: Sugarcane tied in clumps: Turmeric and Cotton growing.	Aus harvested: Harvesting of Bajra begins: Harvesting of Ragi continued.
Bihar	Preparation for Rabi crop still in progress.	Sowing of Rabi crops begun.	Flowering & grain formation of Kharif Paddy: Sugarcane & Cotton growing.	Harvesting of autumn Rice begun: Harvesting of Bhadoi crops and Gora Paddy completed: Harvesting and retting of Jute completed: Ragi harvested.
Bombay	Preparation for some Rabi crops including Rabi Paddy continued	Sowing of Wheat in progress: Bengal gram sown: Other grams also sown.	Grain formation of Kharif Paddy: Flowering of Jowar (Kharif): Tillering of Rabi Jowar: Flowering & boll formation of Cotton: Turmeric growing: seething operations on Sugarcane.	Harvesting of Kharif Paddy, Jowar & Bajra in some districts: Picking of Groundnut in Bharwar & Ahmednagar begun: San Hemp reaped in Khandesh.
C.P. & Berar	Preparation for Rabi crops continues in some places.	Sowing of Rabi crops (Linseed, Gram, Masur, Lac & Peas) and Wheat.	Flowering and grain formation of Jowar: Flowering and Boll formation of Cotton: Sugarcane maturing	Harvesting of Kharif Paddy: Harvesting of Groundnut, Urd and Mung continued: Also Maize and minor Pulses.
Madras	Preparation for cultivation of Rabi crops in many districts.	Sowing of Rabi Paddy and transplantation in Chingleput, S.Kanara, Malabar, Madura, Ramnad, Chittoor, N. & S. Arcot, Tinnevely, Tanjore, and Ceded districts: Sowing of Rabi Jowar begins: Sowing of Rabi Cotton & Potato.	Flowering and grain formation of Kharif Paddy in many districts: Germination and tillering of Kharif Jowar: Elongation of Kharif Cotton: Bajra and Tobacco growing.	Harvesting of Kharif Paddy in Trichinopoly and some other districts: Ginnelly and also Groundnut sown in July: being harvested.
Orissa	Preparation for Rabi cultivation.	Sowing of Rabi crops (Wheat Jowar, etc.)	Boll formation of Cotton: Sugarcane maturing	Harvesting of Kharif crops
Punjab (East)	Tillage for Rabi continued.	Sowing of Wheat begins: Planting of Potatoes continued: Sowing of other Rabi crops.	Kharif Paddy in ears: Flowering & grain formation of Bajra and Jowar in some districts.	Harvesting of Kharif Paddy begins: Packing of Cotton continued: harvesting of early Sugarcane: Harvesting of all winter Vegetables.
U. P.	Preparation for Rabi crop (Paddy)	Sowing of Wheat: Sowing of Bengalgram: Tobacco planted out.	Bajra growing and maturing: Turmeric ripen: Sugarcane maturing: Flowering & boll formation of Cotton.	Harvesting of Kharif Rice and Jowar: Ragi harvested in Garhwal: Harvesting of Sesamum begins.

NOVEMBER

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam	Ploughing of lands for Rabi crops may continue in some districts	Sowing of Rabi Paddy, Grams, Pulses, Mustard seeds and winter Vegetables: Potatoes sown.	Kharif Paddy in grains in some districts: Horsegum growing: Sugarcane maturing.	Harvesting of Kharif Paddy in some districts: Harvesting of Jute completed: Plucking of Tea continued: Potato second crop harvested.
Bengal (West)	Ploughing after Aman harvest in some places.	Sowing of Rabi crops (Wheat, etc.) Linseed and Mustard seeds: Transplantation of Tobacco: Rabi Potatoes sown.	Flowering & grain formation of Aman crop: Germination of Grains and Pulses: Turmeric and Sugarcane ready for harvest.	Harvesting of Kharif Paddy, Bajra and San Hemp: Picking of Cotton begun.
Bihar	Land prepared for sowing of Gora Paddy and Rabi crops	Sowing of Wheat: Transplantation of Tobacco: Linseed sown.	Grams & Pulses beginning to grow: Sugarcane ready for being harvested.	Harvesting of Kharif Paddy: picking of Cotton begun.
Bombay	Preparation of land for Rabi cultivation being completed.	Sowing of Rabi Rice, Jowar and Gram: Pulse sowing commenced.	Tillering and elongation of Wheat and elongation of Rabi Jowar: Boll formation of Cotton in some districts: Turmeric ripe.	Harvesting of Kharif Paddy continued: Also Kharif Jowar: Picking of Cotton: begun and picking of groundnut completed. Also Bajra.
C.P. & Berar	Preparation of Rabi sowing in some districts.	Sowing of Wheat & other Rabi crops: Sowing of Linseed and Grams	Tillering of Wheat and Rabi Jowar: Irrigated Sugarcane maturing.	Harvesting & threshing of Kharif Paddy and Kharif Jowar: Groundnut picked and also Cotton: Unirrigated Sugarcane harvested.
Madras	Preparation for Rabi cultivation in some places continued.	Sowing & transplantation of Rabi Paddy in S. Kanara, Madura, Ramnad, etc. and Rabi Jowar in Nellore: Grams and Pulses sown.	Tillering of Rabi crops: Elongation & flowering of Cotton: Elongation of Jowar: Potato growing in Nilgiris: Tobacco maturing.	Harvesting of Kharif Paddy in Nilgiris, Chittoor, W. Godavari & Kistna: Groundnut harvested in Vizag., Kurnool, Cuddapah, Chingleput, S. Arcot, Chittoor, N. Arcot, Salem and Ramnad.
Orissa	Preparation for Rabi cultivation in some places.	Sowing of Rabi crops-Mustard, Grams and Linseed	Tillering of Jowar: Cotton, Groundnut & Ragi maturing.	Harvesting and threshing of Kharif Paddy: Til, Urd and Ragi also harvested in places.
Punjab (East)	Preparation of seed-bed for Rabi condiments.	Sowing of Wheat & other Rabi crops: Sowing of Grams completed: Sowing of seed of Tobacco.	Watering of Sugarcane and Cotton: Watering and earthing up of Potatoes.	Harvesting and threshing of Kharif Cereals & Pulses: Picking of Desi Cotton continues: Harvesting and crushing of early varieties of Sugarcane: Harvesting of Jowar.
U. P.	Land ploughed for Jethi or hot weather Rice.	Sowing of Rabi Paddy & Wheat.	Germination and tillering of Wheat in some districts: Bengalgram and Tobacco growing: Sugarcane matures.	and Harvesting/threshing of Kharif Paddy continued: Also harvesting & threshing of Jowar: Picking of Cotton: Bajra harvested: Ragi harvested in Kumaon: Turmeric gathered.

D E C E M B E R

Province	Preparation of the Soil	Sowing and Transplanting	Growing and Maturing	Harvesting and Threshing
Assam		Sowing and transplanta-tion of Rabi Paddy.	Grams & Pulses, Mustard & Potatoes growing.	Harvesting & threshing of Kharif Paddy continued: Pressing of Sugarcane begun: Plucking of Tea continued.
Bengal (West)	Preparation of land for Rabi crops continues in some places.	Sowings of Rabi crops (Wheat etc.) continued	Grams & Pulses growing: Potatoes cultivation in progress: Tobacco growing: Aman crop maturing in some districts.	Harvesting of Aman: Threshing of Millets and Paddy: San Hemp harvested: Picking of Cotton continued.
Bihar	Land ploughed for Gora & Kutki Paddy in Ranchi	Sowing of Rabi crops completed.	Germination and elongation of Wheat: Tobacco, Linseed, Grams and Pulses growing.	Aghani Paddy being harvested: Paddy threshed: Cutting of Sugarcane begun in Saran & crushing in other places.
Bombay	Land ploughed after Kharif harvest in places	Sowing of Wheat, Rabi, Jowar, Pulse & other Rabi crops continued.	Elongation and flowering of Wheat in most districts and of Rabi Jowar also.	Threshing of Kharif Paddy continued: Harvesting and threshing of Kharif Jowar: Picking of Cotton continued: and of Harvesting of Sugarcane continued. ground-nut
C.P. & Berar	Land ploughed after Kharif harvest in places.	Sowing of Rabi crops completed.	Elongation of Wheat and Rabi Jowar: Tur, Urid, Gram and Linseed growing	Threshing & winnowing of Kharif paddy: Harvesting of Kharif Jowar continued: Picking of Cotton continued: Harvesting of unirrigated Cane continued.
Madras	Land ploughed after Kharif harvest in places and preparation for Rabi sowing in others.	Sowing & transplanta-tion of Rabi Paddy in Ananta-pur, W. Godavari, etc.	Flowering of Rabi Paddy: Elongation and flowering of Rabi Jowar: Grams & Pulses growing: Elonga-tion, flowering and boll formation of Cotton: Tuber development of Po-tatoes.	Harvesting of Kharif Paddy and of Jowar (Cholam) begun: harvesting of Ragi in E. Godavari, Guntur, Bellary, Anantapur, Cuddapah, Nellore, Salem, Trichinopoly etc., Picking of Groundnut continued.
Orissa	Land ploughed after Kharif harvest in places	Sowing of Wheat, Barley, green Gram, Linseed and Summer Paddy continued in some places.	Rabi crops (Wheat, Gram, Barley etc.) growing: Black Grams and Green Grams in pods: Cotton, Arhar and Groundnut mature.	Harvesting of winter Paddy: Pressing of Sugarcane: Picking of Cotton and Ground-nut begun.
Punjab (East)	Ploughing of land after harvest of Kharif crops in some places	Sowing of Wheat, Barley, & Gram completed: Sowing of Rabi Condiments also completed.	Watering of early sown Wheat & Rabi crops: Watering & weeding of Tobacco: Hoeing and weeding of all Rabi Condiments.	Threshing of Kharif Paddy & Jowar: Threshing and winnowing of Toria: Harvesting and crushing of Cane: Harvesting of Turmeric, Ginger & Chillies.
U. P.	Land ploughed for Boro or hot weather Rice	Sowing of Rabi Paddy continued	Elongation of Wheat: Tobacco, Linseed and Grams growing.	Threshing of Kharif Paddy, Jowar & Bajra: Harvesting of Rabi continued: Picking of Cotton continued: Cutting of Sugarcane begun: Turmeric gathered.

5.2 CROP CALENDAR SHOWING THE DIFFERENT AGRICULTURAL OPERATIONS FOR EACH CROP - MONTHLY

JANUARY

Province	Rice	Wheat	Jowar	Gram and Pulses
Assam	Harvesting and threshing of rain-fed (Kharif) Rice; Transplantation of irrigated Rice (Rabi) in Lushai Hills; Sowing of lowland Aus Paddy begins.	Unimportant	Unimportant	Flowering period for pulses (Rabi)
Bengal (West)	Harvesting of Aman continued; Threshing begins; Boro sown in the swamps; Transplantation of Boro Rice in some places.	Crop is on the ground and growing up.	Unimportant	Bengal Gram growing up; Horse Gram being harvested; Arhar ready for harvesting.
Bihar	Rainfed Kharif Rice being threshed.	Growing up and beginning to flower.	Unimportant	-do-
Bombay	Harvesting and threshing of winter Rice (Kharif) completed; Sowing of summer Rice completed.	Crop in ear	Kharif Crop harvesting and threshing being completed; Rabi grain ripe for harvesting.	Bengal Gram growing up.
C.P. & Berar	Threshing and harvesting of Kharif completed; Preparatory tillage for Rabi Paddy.	Threshing and grain formation in many places	Threshing of Kharif Crop; Rabi Crop growing up and beginning to flower.	Bengal Gram ready for harvesting; Horse Gram and Arhar growing up.
Madras	Harvesting of Kharif in most districts and of Rabi in S.Kanara Trichinopoly and N. Arcot; Transplantation of Rabi in Anantapur W. Godavari districts.	Unimportant Crops grown on Black Cotton soil (dry cultivation) will be ready for harvesting by about the middle of the month.	Elongation of the stalk and flowering in the ceded districts, (E. Godavari, Nellore and Guntur); Harvesting in Vizagapatam and Madura; Threshing in W. Godavari.	Bengal Gram ready for harvesting; Horse Gram growing up.
Orissa	Harvesting of winter Rice completed.	Growing up.	Rabi Crop is in ears. (Flowering and Grain formation).	Bengal Gram ready for harvesting.
Punjab (East))	Threshing and Harvesting of the Kharif Crop is over.	Watering and weeding of the Crop which is growing.	Threshing of the Kharif Crop (Irrigated) may continue till the 2nd week of January in some districts.	Bengal Gram growing up; Harvesting and threshing of Toria.
U. P.	Harvesting and threshing of winter Rice completed; Hot weather Rice (Rabi) sown and in some districts transplanted also.	Growing up and beginning to flower from fourth week.	Kharif Crop threshing completed by the 1st week of January in Jhansi and in other districts earlier.	Bengal Gram growing up.

JANUARY (Contd.)

Province	Barley	Cotton	Jute	Sugarcane	Oilseed
Assam	Unimportant	Unimportant	Preparation of the soil by ploughing.	Cutting and crushing of Cane begins: Preparatory tillage.	Linseed maturing.
Bengal (West)	Unimportant	Bhadol Cotton sown: The completion of the harvesting of the cold weather crop:	-do-	Sowing begins Harvest- ing of previous year's Cane completed.	Linseed and Castor seed maturing.
Bihar	Crop is growing.	Harvesting of early cotton completed.	Preparatory tillage.	Preparatory tillage. Planting in places.	Linseed harvesting begins towards the close: Harvesting of Kharif Castor: Linseed ready for harvesting.
Bombay	Unimportant	Picking in progress in most districts.	-	Previous Year's Crop being harvested: Planting for current year begins.	Linseed ready for harvesting
C.P. & Berar	Unimportant	Kharif picking being completed.	-	Planting of unirrigated Cane completed: Harvesting of irrigated Cane.	Linseed, Rape and Kharif Castor ready for harvesting.
Madras	Unimportant	Flowering and boll formation of Rabi Cotton in Anantapur, Cuddapah, Guntur, Coimbatore, Madura, and other districts: Picking may commence in Bellary, Cuddapah and Guntur: Kharif Cotton Picking completed.	-	Planting begins: Previous season's Crop being harvested.	Linseed ready for harvest. Growing in places.
Orissa	Unimportant	Picking in progress.	-	Harvesting completed	Linseed/ ^{ready} for harvesting.
Punjab (East)	Sowing may extend to the first week.	Picking of American Cotton completed: Preparatory tillage of fallow lands.	-	Harvesting of previous year's Cane: Preparatory tillage for current year's Cane.	Linseed growing up.
U. P.	Crop is growing.	Picking continues.	-	Sowing may commence in January (though usually in February) Harvesting of the previous year's crop.	Linseed growing up.

FEBRUARY

Province	Rice	Wheat	Jowar	Gram and pulses	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Aus lowland and Murali sown; Rabi Rice transplanted in Lushai Hills; Manipur and Cachar; Growing in places; Threshing of Kharif Rice	Unimportant.	Unimportant.	Flowering and grain formation of Gram and Pulses; Harvesting of Horse Gram.	Unimportant.	Unimportant.	Preparation of soil.	Ploughing of land; Previous year's Cane harvesting and crushing completed.	Linseed, Rape and Mustard harvested.
Bengal (West)	First ploughing for Aus Paddy; Sowing of Boro in swamps; Threshing of Kharif Paddy completed.	Flowering and grain formation.	Unimportant.	Grain formation of Gram and Pulses.	Unimportant.	Bhadoi Cotton sown; Picking of Cotton in progress.	Sowing of Jute.	Harvesting of Sugarcane nearing completion.	Land ploughed and harrowed for Sesamum; Castor harvested; Harvesting of Linseed, Rape and Mustard in progress.
Bihar	Summer Rice sown; Harvesting and threshing of winter Rice.	Matures (flowering and grain formation)	Unimportant.	Bengal Gram growing up; Horse gram being harvested; Harvesting of Arhar begins towards the end of the month.	Crop is maturing.	Picking in progress.	Jute sown.	Land prepared.	Sowing of Sesamum (Rabi); Kharif Castor gathered; Harvesting of Linseed, Rape and Mustard.
Bombay	Rabi Rice maturing after transplantation.	Harvesting begun.	Harvesting of Rabi Jowar begun.	Growing in progress and ready for harvest in places.	Unimportant.	Picking of Cotton continued in some districts.	-	Preparatory tillage; Planting of Cane in some Districts.	Linseed harvesting begins.
C.P. & Berar.	Sowing of Rabi Rice.	Grain formation in most places.	Flowering and grain formation of Rabi Jowar; Harvesting in some districts begins; Threshing of Kharif crop over.	Harvesting of Bengal Gram begins; Horse Gram and Arhar maturing.	Unimportant.	Picking of Cotton completed.	-	Preparatory tillage.	Harvesting of Linseed begins.
Madras	Preparatory tillage after harvesting of Kharif Rice; Threshing of Paddy continued; Harvesting of Rabi Rice in South Kanara.	Unimportant	Sowing of Rabi Jowar in Trichonopoly and harvesting in most districts.	Harvesting of Bengal Gram commences; Horse Gram and Arhar maturing.	Unimportant.	Sowing of Kharif Cotton in Ramnad; Boll formation and flowering of Rabi Cotton; Picking continues in Billary.	-	Planting in progress in places; Growing in places.	Linseed harvesting begun.
Orissa	Sowing of Rabi Rice.	Wheat maturing.	Harvesting of Rabi Jowar.	Growing in progress.	Unimportant.	Picking completed.	-	Planting of Cane begins.	Sesamum growing; Harvesting of Linseed, Rape & Mustard.
Punjab	No activity	Watering; Flowering and grain formation.	No activity	Growing in progress.	Watering	Preparatory tillage.	-	Preparatory Tillage; Sowing of thick variety of Sugarcane; Harvesting and crushing of previous year's cane.	Watering of Linseed.
U.P.	Land prepared for Kharif Rice; Transplantation of Boro & hot weather rice.	Flowering and grain formation.	No activity.	Growing in progress.	Crop is maturing.	Picking of Cotton completed.	-	Planting of Cane.	Picking of Castor.

MARCH

Province	Rice	Wheat	Jowar	Gram and Pulses	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sowing of Ahu (highland) Paddy and Boro; Rabi Paddy in ears.	Unimportant	Unimportant	Maturing in places: Harvesting begun in some districts.	Unimportant.	Unimportant	Sowing of jute continued	Land prepared for Sugarcane planting: Crushing of previous year's Cane completed.	Harvesting of black Til sown in Oct. begun
Bengal (West)	Preparation of land for sowing Paddy	Crop in ears.	Unimportant	-do-	Unimportant.	Bhadol Cotton sown in most places	Sowing of jute continued.	Planting of Sugar cane: Harvesting completed.	Sowing of Sesamum: Harvesting of Linseed completed.
Bihar	Preparation for sowing Paddy.	Wheat crop in ears: Harvesting begins in places.	Unimportant	Bengal gram maturing	Harvesting.	Cotton pickings completed.	Sowing of jute continued.	Planting of Cane: Harvesting of previous year's Cane completed.	Linseed Harvesting completed.
Bombay	Flowering and grain formation of Rabi Rice.	Harvesting of Wheat nearing completion: Threshing begins.	Harvesting of Jowar (Rabi) continues Threshing begins in places	Bengal gram ready for harvest in most places.	Unimportant.	Picking of cotton.	-	Planting of sugarcane	Picking of Castor.
C.P. & Berar	Rabi rice in ears.	Harvesting of Wheat commences.	Harvesting of Rabi Jowar in most places	Harvesting of grams in most places: Arhar ready for harvesting.	Unimportant.	Preparatory tillage.	-	Cutting of irrigated sugarcane.	Picking of Castor.
Madras	Rabi rice in ears in some districts.	Unimportant	Elongation of Rabi Jowar: Threshing of Kharif Jowar	Harvesting of Grams in most places: Arhar ready for harvesting	Unimportant.	Sowing of Kharif Cotton in Ramnad: Picking of Rabi cotton in some districts	-	Planting continues: Growing in places.	Linseed harvesting in progress.
Orissa	Rabi Rice in ears	Wheat in ears	Harvesting and threshing of Rabi Jowar	Harvesting and threshing of grams	Unimportant.	Preparatory tillage.	-	Planting of Cane.	Sesamum growing: Harvesting of Linseed, Rape & Mustard nearing completion.
Punjab (East)	No activity	Grain formation of Wheat Crop: Harvesting begins in places towards the end of the month.	No activity	Harvesting of grams.	Harvesting	Preparatory tillage: Sowing of American cotton.	-	Preparatory tillage: Planting of Sugarcane in some districts: Late varieties harvested.	Linseed maturing
U.P.	Transplantation of Rabi Rice: Boro Rice maturing	Grain formation of Wheat Crop: Harvesting commences in some districts.	No. Activity	Grams harvested.	Harvesting	Land ploughed for Kharif Cotton.	-	Planting of Cane.	Linseed ready for harvest. Harvesting commences in some districts Picking of Castor.

APRIL

Province	Rice	Wheat	Jowar	Grams and Pulses.	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sowing of Bao and Sail in Cachar; Rabi Paddy in ears; Harvesting of Sail Bura Paddy	Unimportant	Unimportant	Threshing of Grams and Pulses (Rabi) completed	Unimportant	Unimportant	Sowing of Jute continues.	Planting of Cane in Brahmaputra valley.	Sesamum growing.
Bengal (West)	Preparatory tillage for Kharif Paddy; Boro Rice ready for harvest.	Harvesting begins.	Unimportant	-do-	Unimportant	Bhadol Cotton sowing completed; Growing in places.	Germination and growth of Jute.	Planting continues.	Sowing of Sesamum continues; Harvesting of Rabi Castor begins; Rape and Mustard harvested.
Bihar	Sowing commences.	Harvesting and threshing of Wheat.	Unimportant	Harvesting and threshing of Grams and Pulses	Harvesting nearing completion; Threshing begins.	-	-do-	Planting continues; Growth of Cane in places.	Sowing of Kharif Castor begins.
Bombay	Land prepared for sowing Kharif Paddy; Harvesting of Rabi Paddy commences.	Threshing of wheat completed.	Threshing of Rabi Jowar over; Preparatory tillage for Kharif Jowar	Harvesting of Bengal gram begins	Unimportant	Picking of Cotton continues	-	Sugarcane growing.	Harvesting of Rabi Castor.
C.P. & Berar	Harvesting of Rabi Rice begins; Land prepared for Kharif Paddy.	Harvesting and threshing of Wheat continues.	Threshing of Rabi Jowar	Harvesting of Grams & Pulses	Unimportant	Preparatory tillage for Kharif Cotton nearing completion.	--	Sugarcane maturing in some places; Cutting and crushing of irrigated Cane continues	Castor pickings over.
Madras	Sowing of Kharif Paddy begins; Harvesting of Rabi Paddy in most districts.	Unimportant	Elongation of Rabi Jowar in Trinopoly continues; Harvesting in places.	Harvesting of Grams continues	Unimportant	Sowing of Kharif Cotton in Ramnad continues and also in other districts; Picking of Rabi Cotton continues.	-	Planting nearing completion Watering in places.	Preparatory tillage for sesamum
Orissa	Harvesting and threshing of Rabi Paddy	Harvesting and threshing of Wheat begins.	Land being prepared for Kharif Jowar.	Harvesting and threshing of Grams continues.	Unimportant	Preparation of land for sowing Paddy	-	Sugarcane growing.	Sesamum maturing; Linseed, Rape and Mustard harvested
Punjab (East)	Preparatory tillage for Kharif Paddy	Harvesting of Wheat Crop continues; Threshing begins.	Preparatory tillage for Kharif Jowar	Sowing of Arhar; Harvesting of Grams continued.	Harvesting continued	Sowing of Cotton in most districts.	-	Planting completed; Cane growing in places.	Linseed harvesting begins.
U. P.	Preparatory tillage for Kharif Paddy; Sown in some parts; Rabi Paddy in ears	do	Preparatory tillage for Kharif Jowar	Gram harvesting continues.	Harvesting continued; Threshing also begins	Preparatory tillage for Kharif Cotton.	-	Planting of Sugarcane	Preparatory tillage for Sesamum; Castor sown; Linseed, Rape Mustard and Castor (spring crop) being harvested.

MAY

Province	Rice	Wheat	Jowar	Grams and Pulses	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sowing of Kharif Paddy continues: Harvesting of Rabi Paddy nearing completion.	Unimportant	Unimportant	Field prepared for sowing Horse Gram	Unimportant.	Unimportant.	Germination and elongation of Jute.	Planting of sugarcane continues: Weeding of sugarcane in places.	Sesamum sown in Manipur and Nowgong.
Bengal (West)	Land prepared for sowing Kharif Paddy (Aman) Kharif Paddy sown in some districts Boro Rice Harvested.	Harvesting completed: Threshing begins.	Unimportant.	Field prepared for sowing Horse Gram.	Unimportant.	Harvest Cotton Grown.	-do-	-do-	Kharif Castor sown Sesamum growing.
Bihar	Preparatory tillage for Kharif Paddy.	Threshing of Wheat completed.	Unimportant.	Sowing of Arhar.	Harvesting and threshing of Barley completed.	-	Jute growing.	Sugarcane growing.	Kharif Castor sown.
Bombay	Threshing of Rabi Paddy completed.	Land ploughed after threshing of Wheat.	Land prepared for Kharif Jowar.	Behgal Gram harvesting & threshing completed.	Unimportant.	Preparatory tillage for Kharif Cotton.	-	Sugarcane planting continues: Growing in places.	Rabi Castor harvested: Land prepared for Rabi Groundnut.
C.P. & Berar	Preparatory tillage for Kharif Rice in a few places.	Threshing of Wheat completed.	Preparatory tillage for Kharif Jowar: Threshing of Rabi Jowar completed.	Threshing of Grams completed.	Unimportant.	Land ready for sowing Kharif Cotton.	-	Sugarcane growing in places: Maturing in others.	-
Madras	Sowing continues in some places: preparatory tillage for Kharif Paddy in others: Growing in Malabar: Harvesting of Rabi Paddy continues.	Unimportant.	Harvesting of Rabi Jowar begins in Trichopoly.	Harvesting of Grams completed: Threshing in progress.	Unimportant.	Kharif Cotton growing in Ramnad: Picking of Rabi cotton continues.	-	Sugarcane planted.	Sesamum sown.
Orissa	Threshing of Rabi Paddy completed.	Threshing of Wheat completed.	Sowing of Kharif Jowar begun.	Threshing of Grams continued.	Unimportant.	Land ready for sowing Kharif Cotton	-	Sugarcane planting begun in places: Growing in others.	-
Punjab (East)	Kharif Paddy sown.	Threshing of Wheat continues.	Preparatory tillage for Kharif Jowar nearing completion.	Threshing of Grams ends.	Threshing of Barley end.	Sowing of Desi and early varieties of Cotton: Germination in places.	-	Watering of Sugarcane.	-
U.P.	Field prepared for Kharif Paddy: Sowing begins in places: Rabi Paddy matures and harvesting begins in places.	Threshing of Wheat continued.	Field prepared for Kharif Jowar.	Behgal Gram harvested and threshed.	Harvesting and threshing of Barley completed.	Sowing of Kharif cotton: Germination in places.	-	Planting of Sugarcane continued: Growing in places.	Sesamum sown: Castor growing.

JUNE

Province	Rice	Wheat	Jowar	Grams and Pulses.	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sowing of Kharif Paddy continues: Threshing of Rabbi Paddy continues.	Unimportant	Unimportant	-	Unimportant	Unimportant	Elongation of Jute continues.	Watering of Cane.	Sowing of Sesamum in Manipur and Nowgong continues.
Bengal (West)	Transplanting of Kharif (Aman) Paddy: Sowing continued in places; Threshing of Boro Rice.	Threshing completed.	Unimportant.	-	Unimportant.	Early Cotton growing	-do-	Sugarcane growing.	Sowing of Kharif Castor continues: White Til harvested, Sesamum growing
Bihar	Sowing of Kharif Paddy (Aman): Threshing of summer rice completed.	No activity.	Unimportant.	Arhar growing.	No activity	-	Elongation of Jute.	Sugarcane growing.	Sowing of Groundnut and Castor (small variety)
Bombay	Sowing and transplantation of Kharif Paddy.	Preparatory tillage.	Sowing of Kharif Jowar begins.	-	Unimportant.	Sowing of Kharif Cotton begins.	-	Watering of early Cane.	Field ploughed and harrowed for Rabi Sesamum: Groundnut sown:
C.P. & Berar.	Sowing of Kharif Paddy begins.	Preparatory tillage for wheat.	Kharif Jowar sown.	-	Unimportant	Sowing of Kharif Cotton begins.	-	Cane maturing: Watering in most places.	Sowing of Oilseed begins.
Madras.	Sowing of Kharif Paddy: Threshing of Rabi Paddy in places.	Unimportant	Threshing of Rabi Jowar in places.	Threshing of Grams completed.	Unimportant	Kharif Cotton sown in Guntur: Boll formation in Ramnad: Picking of Rabi cotton completed.	-	Watering of Cane.	Groundnut sown in unirrigated land: Gingelly sown in Godavari: Groundnut (Summer crop) harvested.
Orissa	Sowing of Kharif Paddy begins.	Threshing and winnowing of wheat.	Sowing of Jowar in progress: Germination and tillering of early Jowar: Elongation in places.	Threshing of Grams completed.	Unimportant:	Kharif Cotton sown.	-	Watering of Cane.	
Punjab (East)	Sowing of Kharif Paddy continues: Transplantation in places.	Threshing and winnowing of wheat completed in most places.	Kharif Jowar grown.	Kharif pulses sown.	No Activity	Sowing of Desi Cotton continues: Watering of early varieties of Cotton in places: Hoeing in places.	-	Watering of Sugarcane continues: Hoeing in places.	Kharif oilseeds sown.
U.P.	Sowing of Kharif Paddy: Harvesting and threshing of Rabi Paddy	Threshing of wheat completed	Kharif Jowar sown.		No activity	Germination of Cotton in most places.	-	Sugarcane growing in almost all places.	Castor growing.

JULY

Province	Rice	Wheat	Jowar	Grams and Pulses.	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sowing and transplantation of Kharif Paddy: Abu and Aus highland Paddy in ears: Harvesting of Mirali and Saif Bura Paddy.	Unimportant.	Unimportant.	-	Unimportant.	Unimportant.	Cutting and retting of Jute.	-	Sesamum growing in Manipur and Nowgong.
Bengal (West)	Transplantation of Kharif Paddy (Aman): Aus Paddy growing.	No activity	Unimportant.	+	Unimportant.	Early cotton maturing	Cutting and retting of Jute.	Sugarcane tied in clumps.	Sowing of Kharif Castor continues.
Bihar	Sowing and transplantation of Kharif Paddy: Aus Paddy growing.	Ploughing for Wheat.	Unimportant.	-	No activity	-	Cutting and retting of Jute.	Sugarcane growing.	Sowing of Castor and Groundnut continues.
Bombay	Transplantation of Kharif Paddy: Watering in places.	Ploughing and harrowing for Wheat.	Sowing of Kharif Jowar continues: Germination and tilling in places.	-	Unimportant	Germination of Kharif Cotton.	-	Sugarcane tied in clumps.	Sowing of late Groundnuts.
C.P. & Berar.	Transplantation of Kharif Paddy: Sowing in places: Watering in some others.	Preparatory tillage for Wheat.	Sowing of Kharif Jowar continues: Germination in places.	+	Unimportant	-do-	-	Sugarcane growing.	
Madras.	Transplantation of Kharif Paddy in some districts. Watering in places.	Unimportant	Threshing of Rabi Jowar completed in all places.	+	Unimportant	Sowing of Kharif Cotton in Guntur continues: Cotton growing in places: Picking of Cotton in Ramnad.	-	Watering of Cane.	Sowing of Gingelly and Groundnut in unirrigated areas continues: Groundnut (summer variety) harvested.
Orissa	Transplantation of Kharif Paddy sowing in places: Watering in some others.	Preparatory tillage for Wheat.	Sowing of Kharif Jowar completed: Elongation almost all over the Province.	+	Unimportant	Kharif Cotton growing: Harvesting of early Cotton.	-	Cane growing.	Groundnut and Til growing: Harvesting of early Sesamum.
Punjab (East)	Transplantation of Kharif Paddy. Watering in places.	Ploughing and harrowing for Wheat: Threshing completed in all places.	Sowing of Kharif Jowar continued: Germination and tillering in places	Preparatory tillage for Kharif pulses in places: Sow in progress in others.	No activity	Watering in places: Germination and elongation in progress.	-	Watering of Cane continues.	Preparatory tillage in places: Sowing continues in others.
U.P.	Sowing and transplantation of Kharif Paddy: Broadcast Paddy growing: Harvesting of Broadcast Paddy begins in places.	Preparatory tillage for Wheat.	Tillering and Germination of Jowar.	-	No activity	Kharif Cotton growing: Germination and elongation.	-	Sugarcane growing.	Sowing of late Sesamum.

AUGUST

Province	Rice	Wheat	Jowar	Gram and pulses	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sali Paddy transplanted in Brahmaputra valley: Transplantation of Kharif Rice in general: Growing in Cachar.	Unimportant	Unimportant	-	Unimportant.	Unimportant	Cutting and re-tting continues.	Weeding of Cane.	Sesamum sown in Brahmaputra valley.
Bengal (West)	Early varieties of Aus harvested: Transplantation of Aman and Boro.	Ploughing of land for wheat.	Unimportant	-	Unimportant.	Reaping of Bhadoi Cotton.	-do-	Cane tied in clumps.	Castor growing.
Bihar	Transplantation of Aghani (Winter) Paddy begun towards the end of the month.	Land prepared for Wheat.	Unimportant	-	No activity.	-	-do-	Sugarcane growing.	Kharif Sesamum maturing.
Bombay	Transplantation of Kharif Paddy in Nasik.	Land being prepared for Wheat.	Tillering and elongation of Kharif Jowar: Preparatory tillage for Rabi sowings.	-	Unimportant.	Dharwar Cotton sown in Karnatic: Germination of Cotton in places.	-	Cane tied in clumps.	Late Groundnut sown: Sowing of Rabi Til begins.
C.P. & Berar.	Transplantation of Kharif Paddy in Progress: Weeding in places.	Preparatory tillage for Wheat.	Preparatory tillage for Rabi Jowar: Sowing of Kharif Jowar completed: Tillering and germination in places.	-	Unimportant.	Intercultural operations in Cotton tracts.	-	Sugarcane growing.	Groundnut growing.
Madras	Sowing and transplantation of Kharif Paddy: Sowing of Rabi Paddy in places: Harvesting of Kharif Rice in places in Malabar.	Unimportant	Rabi Jowar sown in places.	Black Gram and Green Gram maturing.	Unimportant:	Rabi Cotton sown towards end in places: Kharif Cotton sown in some districts: Elongation of Kharif Cotton in places: Boll formation in places.	-	Harvesting of Sugarcane begins.	Irrigated Groundnut sown from middle of month.
Orissa	Transplantation of Winter Paddy in all districts: Weeding also: Harvesting in places.	Preparatory tillage for Wheat.	Flowering and grain formation of Kharif Jowar.	Black and Green Grams growing.	Unimportant.	Cotton growing: Harvesting in places.	-	Sugarcane growing.	Til and Groundnut growing: Harvesting of Sesamum in Ganjam towards the end of the month.
Punjab (East)	Transplantation of Kharif Paddy continues: Watering in places: Weeding also.	Ploughing and harrowing of land for Wheat.	Elongation of Kharif Jowar continues.	Sowing of Kharif Pulses continues.	No activity.	Kharif Cotton growing: Flowering and boll formation in progress.	-	Watering of Sugarcane continues: Cane growing in places.	Kharif Sesamum growing.
U.P.	Sowing of Kharif Paddy continues: Broadcast Paddy ready for cutting.	Land prepared for Wheat.	Elongation of Kharif Jowar.	-	No activity.	Flowering and boll formation in places: Elongation in others.	-	Sugarcane growing.	Kharif Castor sown with Bajra: of Sesamum sown in July in Sesamum grows.

SEPTEMBER

Province	Rice	Wheat	Jowar	Grams and Pulses.	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Transplantation of Sali Paddy: Harvesting of early hill Paddy and Aus in Cachar district and of Autumn Rice in places.	Unimportant.	Unimportant	Land ploughed for sowing Rabi Pulses: Horse Gram sown.	Unimportant.	Unimportant.	Retting of Jute.	Final weeding and earthing of Sugarcane.	Sesamum maturing in Brahmaputra Valley.
Bengal (West)	Land ploughed for Boro Rice: Transplantation of Man Paddy being completed: Aus Paddy harvested towards close.	Preparatory tillage for wheat.	Unimportant.	-	Unimportant.	Cotton growing.	Harvesting and retting of Jute being completed.	Sugarcane growing.	Deep ploughing for Linseed: Castor medium variety being sown.
Bihar	Transplantation of Aghani Paddy in progress.	-do-	Unimportant.	-	Barley sown.	-	Harvesting and retting of Jute.	-do-	Preparatory tillage for Linseed.
Bombay	Transplantation of Kharif Rice completed: Flowering in places: Harvesting in places.	Land prepared for Wheat sowings commence.	Elongation of Jowar (Kharif): Flowering and grain formation in places: Rabi Jowar sown.	-	Unimportant.	Flowering of Kharif Cotton.	-	-	Rabi Til sown.
C.P. & Berar.	Flowering of Kharif Rice: Harvesting of early Paddy.	Land prepared for Wheat sowings.	Elongation of Kharif Jowar: Rabi sown in places.	Harvesting of Kharif Pulses and early Kutki.	Unimportant.	Elongation and flowering of Cotton.	-	Sugarcane maturing.	Rabi Til sown: Harvesting of Groundnuts begins.
Madras	Preparation for Rabi Paddy in districts: Sowing of second Paddy crop in Malabar: Harvesting of Kharif Rice in some districts: Rabi Rice sown in places: Kharif Rice growing and flowering in places.	Unimportant.	Preparation for Rabi Jowar in some districts: Sown in places: Tillering in places.	-	Unimportant.	Preparation and sowing of Rabi Cotton in districts: Sowing of Kharif Cotton in some districts: Elongation and boll formation in places: Pickings also commence.	-	Harvesting of Sugarcane in progress.	Sowing of Groundnut and Til in the middle of the month.
Orissa	Transplantation and weeding of winter Paddy: Harvesting of Autumn Paddy.	Land prepared for Wheat.	Flowering and grain formation Harvesting commences in places.	-	Unimportant.	Harvesting of cotton in places.	-	Sugarcane growing.	Sowing of Til in places: Groundnut growing.
Punjab (East)	Harvesting of Autumn Paddy: Flowering and grain formation of Kharif Paddy.	Land ready for Wheat sowing.	Flowering and boll formation of Kharif Jowar.	Grams sown: Harvesting of Kharif pulses.	Barley sown.	Watering of Kharif Cotton in places: In others pickings of Desi Cotton: Boll formation of Kharif Cotton in full progress.	-	Watering of Sugarcane.	Oilseeds sown: Harvesting of Kharif Til.
U.P.	Transplantation of Kharif Paddy completed: Irrigation of late varieties: Broadcast Paddy (Bhadoi) cut.	Land ready for Wheat sowing.	Flowering and grain formation.	Sowings of Grams begins.	Barley sown.	Boll formation and flowering of Kharif Cotton.	-	Irrigation of Cane.	Kharif Sesamum ripe.

OCTOBER.

Province	Rice	Wheat	Jowar	Grams and Pulses.	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sali Paddy maturing in Brahmaputra Valley: Harvesting of Kharif Paddy in places.	Unimportant.	Unimportant	Sowing of Horse Gram.	Unimportant.	Unimportant.	Harvesting and retting of Jute continues	Sugarcane being tied in clump.	Sesamum harvested in Brahmaputra Valley.
Bengal (West)	Sowing of Rabi Boro in seed beds: Flowering and grain formation of Aman Paddy.	Sowing may commence in rocky soils.	Unimportant.	Sowing of Rabi Pulses: Horse Grams and Bengal Grams.	Unimportant.	Cotton growing.	Cutting and retting of Jute completed.	Sugarcane tied in clumps.	Linseed sown.
Bihar	Flowering and grain formation of Kharif Paddy: Harvesting of autumn rice begins: Harvesting of Goa and Bhadoi Paddy completed: Aus Paddy harvested.	Sowing of wheat commences.	Unimportant.		Barley sown: Growing in places.	-do-	Harvesting and retting of Jute completed.	Sugarcane growing.	Land ready for sowing Linseed.
Bombay	Preparation for Rabi Paddy sowing: Grain formation of Kharif Paddy: Harvesting in places.	Sowing of wheat in progress.	Flowering and grain formation of Kharif Jowar: Tillering of Rabi Jowar: Harvesting of Kharif Jowar in places.	Bengal Gram sown with other varieties also: Rabi pulses also sown.	Unimportant.	Cotton maturing in most places: Picking in places.	-	Harvesting of Cane begins.	Picking of Groundnuts begins.
C.P. & Berar	Harvesting of Kharif Paddy in places: Grain formation in others.	Wheat sowing commences: Germination and tillering begins in places.	Flowering and grain formation of Jowar (Kharif): Rabi sowings in progress: Tillering and germination in places.	Gram sown.	Unimportant.	Flowering and boll formation of Cotton: Picking commences in places.	-	Sugarcane maturing.	Rabi Linseed sown: Harvesting of Kharif Groundnut.
Madras	Sowing of Rabi Paddy and transplantation in places: Flowering and grain formation of Kharif Paddy in many districts: Harvesting in places.	Unimportant.	Sowing of Rabi Jowar begins: Germination and tillering of Kharif Jowar.	Grams and pulses sown.	Unimportant.	Sowing of Rabi cotton: Germination in places: Elongation of Kharif Cotton: Boll formation in progress in places: In others pickings continue.	-	Harvesting of Cane completed in many places.	Harvesting of Gingelly and Groundnut sown in July.
Orissa	Harvesting of Kharif Paddy.	Wheat sown.	Rabi Jowar sown: Kharif Jowar harvested: Threshing in progress.	Sowing of Grams.	Unimportant.	Boll formation of Kharif Cotton.	-	Sugarcane maturing.	Sowing of Mustard and Linseed: Groundnut maturing: Til harvesting in progress.
Punjab (East)	Kharif Paddy in ears: Harvesting in places.	Sowing of wheat begins.	Flowering and grain formation of Kharif Jowar in most places.	Sowing of Grams in progress: Harvesting of Kharif Pulses in places: Threshing also begins.	Barley growing.	Picking of Cotton continued in places: In others growing.		Harvesting of early sugarcane.	-
U.P.	Harvesting of Kharif Rice.	-do-	Harvesting of Kharif Jowar commences.	Bengal gram sown.	Barley growing.	Flowering and Boll formation of Kharif Cotton: Picking in places.	-	Sugarcane maturing.	Harvesting of Kharif Sesamum begins.

NOVEMBER

Province.	Rice.	Wheat.	Jowar	Grams and pulses.	Barley.	Cotton	Jute	Sugarcane	Oilseeds
Assam	Sowing of Rabi Paddy: Kharif Paddy in Grains in some districts: Harvesting in some districts.	Unimportant.	Unimportant.	Sowing of Grams and Rabi Pulses: Horse Gram growing.	Unimportant.	Unimportant.	Harvesting and retting of Jute completed.	Sugarcane maturing.	Sowing of Mustard seed.
Bengal (West)	Flowering and grain formation of Aman Paddy: Harvesting of Kharif Paddy (Aman) in places.	Wheat sown.	Unimportant.	Germination of Grams and Pulses.	Unimportant.	Picking of Cotton begins.	No. actively	Sugarcane ready for harvest.	Sowing of Mustard seeds and Linseeds.
Bihar	Land prepared for sowing Gora Paddy: Harvesting of Kharif Paddy begins.	Wheat sown.	Unimportant.	Grams and Rabi pulses beginning to grow.	Barley growing.	-do-	No activity.	-do-	Linseed sown.
Bombay	Sowing of Rabi Rice: Harvesting of Kharif Paddy begins and continues.	Tillering and elongation of Wheat.	Sowing of Rabi Jowar: Elongation and germination in places: Harvesting of Kharif Jowar commences.	Sowing of Grams and Rabi pulses.	Unimportant.	Boll formation in some districts: Picking of Cotton begins in places.	-	Harvesting of Cane begins in all places: In progress in places.	Picking of Groundnut completed.
C.P. & Berar	Harvesting and threshing of Kharif Paddy.	Sowing of Wheat: Tillering in many places.	Tillering of Rabi Jowar: Harvesting of Kharif Jowar begins.	Gram sown.	Unimportant.	Cotton picked in places: In others flowering and boll formation.	-	Irrigated Sugarcane maturing: Unirrigated harvested.	Sowing of Linseed: Groundnut picked.
Madras	Sowing and transplantation of Rabi Paddy in places: Harvesting of Kharif Paddy in places.	Unimportant.	Sowing of Rabi Jowar in progress: Elongation of Kharif Jowar.	Grams and Pulses sown.	Unimportant.	Elongation and flowering of Rabi Cotton: Picking of Cotton (Kharif) in most places in progress.	-	Harvesting of Cane completed.	Groundnut harvested in many districts.
Orissa	Harvesting and threshing of Kharif Paddy.	Sowing of Wheat in places: Growing in places.	Germination and tillering of Rabi Jowar: Threshing of Kharif Jowar completed.	Grams sown.	-	Rabi Cotton maturing.	-	Pressing of Cane begins.	Mustard and Linseed sown: Groundnut maturing: Tilled harvested in places.
Punjab (East)	Harvesting and threshing of Kharif Paddy.	Sowing of Wheat in progress: Germination and tillering in places.	Harvesting of Kharif Jowar commences.	Sowing of Gram completed: Harvesting and threshing of Kharif Pulses.	Barley maturing.	Watering of Rabi Cotton: Picking of Desi Cotton continues.	-	Watering, harvesting and threshing of early varieties of Cane.	-
U.P.	Land ploughed for hot weather Rice: Sowing of Rabi Paddy: Harvesting & threshing of Kharif Paddy continues.	Sowing of Wheat: Germination and tillering of Wheat in places.	Harvesting and threshing of Kharif Pulses.	Bengal Gram growing.	Barley growing.	Ploughing of Kharif Cotton continues in places: Boll formation nearing completion in others.	-	Sugarcane maturing: Harvesting in places.	Kharif Sesamum harvesting in progress.

DECEMBER

Province	Rice	Wheat	Jowar	Grams and Pulses
Assam	Sowing and transplanting of Rabi Paddy; Harvesting and threshing of Kharif Paddy continues.	Unimportant	Unimportant	Grams and Rabi Pulses growing.
Bengal (West)	Aman Paddy growing and maturing in places; Harvesting in places. Threshing of Kharif Paddy commences.	Wheat sowing continues.	Threshing of Kharif Jowar continues; Rabi Jowar sown.	Sowing of Grams and Rabi Pulses continues; Growing in places.
Bihar	Land ploughed for Gora and Kutki Paddy in Ranchi; Aghani Paddy being harvested; Kharif Paddy threshed.	Wheat sown; Germination and elongation of Wheat.	Threshing of Kharif Jowar.	Grams and Rabi Pulses growing.
Bombay	Threshing of Kharif Paddy Sowing of Rabi Paddy	Sowing of Wheat continues; Elongation in many places; Harvesting and grain formation in places.	Sowing of Rabi Jowar continues; Elongation in many places; Harvesting and threshing of Kharif Jowar.	Sowing of Rabi Pulses continues.
C.P. & Berar	Threshing and winnowing of Kharif Paddy nearing completion.	Elongation of Wheat	Elongation of Rabi Jowar; Harvesting of Kharif Jowar continues; Threshing also commences.	Grams growing.
Madras	Sowing and transplantation of Rabi Paddy continues in places; Harvesting of Kharif Paddy.	Unimportant	Elongation of flowering of Rabi Jowar; Harvesting in places.	Grams and Rabi Pulses growing.
Orissa	Sowing of Summer Paddy continues; Harvesting of Winter Paddy.	Sowing of Wheat in places continues. Growing in places.	Rabi Jowar growing up.	Sowing of green grams continues; Growing in places; Black gram and Gram in pods.
Punjab (East)	Threshing of Kharif Paddy nearing completion.	Sowing of Wheat completed; Watering of early sown Wheat Tillering and germination in all places.	Threshing of Kharif Jowar begins; Harvesting nearing completion in most places.	Sowing of Grams completed.
U. P.	Land ploughed for hot weather Rice; Sowing of Rabi Paddy continues; Threshing of Kharif Paddy.	Elongation of Wheat	-do-	Grams growing.

DECEMBER (Contd.)

Province	Barley	Cotton	Jute	Sugarcane	Oilseeds
Assam	Unimportant	Unimportant	No activity	Pressing of Sugarcane begins.	Mustard growing
Bengal (West)	Unimportant	Picking of cotton continues.	No activity	Harvesting of Sugarcane begins.	Linseed and Mustard maturing.
Bihar	Crop growing and maturing.	Cotton pickings in progress.	No activity	and crushing Cutting/ of Sugarcane continues.	Linseed growing
Bombay	Unimportant	Picking of Kharif Cotton continues	-	Harvesting of Sugarcane in progress.	Picking of Groundnut continues.
C.P. & Berar	Unimportant	Picking of Cotton continues; Cotton ready for harvest in almost all places.	-	Harvesting of unirrigated Cane continues.	Linseed growing.
Madras	Unimportant	Elongation flowering and boll formation of Cotton (Rabi) Kharif Cotton pickings nearing completion.	-	Harvesting of Cane in progress.	Picking of Groundnut continues.
Orissa	Sowing of Barley continues; Growing in places.	Cotton matures; Picking begins.	-	Pressing of Cane,	Sowing of Linseed continues; Groundnut matures; Picking begins in places.
Punjab (East)	Sowing of Barley completed; Maturing in places.	Pickings of Kharif Cotton in full swing.	-	Harvesting and crushing of Cane.	Linseed growing.
U. P.	Crop is growing in most places.	Picking of Kharif Cotton continues.	-	Cutting of Cane begins.	Linseed growing.

- * Sources: (i) Dictionary of Economic Products of India by George Watts.
(ii) Provincial Gazettes - Weekly Weather and Crop Reports
(iii) Crop calendars published by the Indian Meteorological Department
(iv) "Field Crops of India" - by Yegna Narayana Iyer
(v) "Principles and Practices of Crop Production in India" - by Dutt & Pugh.

6.2 DUE DATES OF ALL INDIA FORECASTS OF CROPS

<u>Monthwise</u>				<u>Cropwise</u>				
<u>Month</u>	<u>Crop</u>	<u>Forecast</u>	<u>Date</u>	<u>Crop</u>	<u>Forecast</u>	<u>Month</u>	<u>Date</u>	
<u>January</u>	Linseed, Rape & Mustard	First	1	<u>Rice</u>	First	October	20	
	Sesamum	Final	15		Second	December	20	
	Wheat	First	25		Final	February	20	
	Barley, Gram	First	30	<u>Wheat</u>	First	January	25	
<u>February</u>	Sugar	Final	5		Second	March	6	
	Cotton	Final	15		Third	April	15	
	Groundnut	Final	15		Fourth	May	20	
	Rice	Final	20		Final	August	6	
	Castor	--	20		<u>Sugarcane</u>	First	August	20
Jowar	Second	21	Second	October		20		
<u>March</u>	Wheat	Second	6	Final		February	5	
	Linseed, Rape & Mustard	Second	15	<u>Cotton</u>	First	August	15	
	Ragi	Final	15		Second	October	15	
	Bajra	Final	21		Third	December	15	
	Maize	Final	21		Final	February	15	
	Jute	Supply Review	Last Week		Supplementary	April	15	
	Barley and Gram	Second	30	<u>Jute</u>	Preliminary	July	(first week)	
<u>April</u>	Wheat	Third	15		Final	September	(third week)	
	Cotton	Supply	15		Supplementary Review	March	(last week)	
	Sesamum	Supply	20		Final Review	September	(first week)	
	Jowar	third	21	<u>Linseed, Rape and Mustard</u>	First	January	1	
<u>May</u>	Wheat	Fourth	20		Second	March	15	
	Barley and Gram	Final	30		Final	June	1	
<u>June</u>	Linseed, Rape & Mustard	Final	1	<u>Sesamum (Til or Jinali)</u>	First	September	1	
<u>July</u>	Jute	Preliminary	1st week		Second	October	20	
<u>August</u>	Wheat	Final	6		Final	January	15	
	Cotton	First	15	Supplementary	April	20		
	Sugar	First	20	<u>Castorseed</u>	February	20		
	Groundnut	First	20		<u>Groundnut</u>	August	20	
<u>September</u>	Sesamum	First	1	Second		October	20	
	Jute (previous season)	Final review	1st week	Final		February	15	
	Jute	final	3rd week	<u>Jowar</u>	First	November	21	
<u>October</u>	Cotton	Second	15		Second	February	21	
	Rice	First	20		Third	April	21	
	Sugar	Second	20		<u>Bajra</u>	First	November	21
	Sesamum	Second	20			Final	March	21
	Groundnut	Second	20	<u>Maize</u>		First	November	21
<u>November</u>	Ragi	First	15		Final	March	21	
	Jowar	First	21		<u>Barley & Gram</u>	First	January	30
	Bajra	First	21			Second	March	30
	Maize	First	21	Final		May	30	
<u>December</u>	Cotton	Third	15	First	November	15		
	Rice	Second	20	Final	March	15		

**5.3 ESTIMATES OF AREA UNDER PRINCIPAL CROPS AS GIVEN IN SUCCESSIVE
FORECASTS, EXPRESSED AS PERCENTAGES OF THE FINAL REVISED
ESTIMATES.**

Crop	Forecast	1943-44	1944-45	1945-46	Average	Crop	Forecast	1943-44	1944-45	1945-46	Average	
Rice	First	88.5	87.5	91.2	89.1	Castor	First	77.9	99.0	86.4	87.8	
	Second	93.8	91.9	95.6	93.8		Linseed	First	67.1	81.1	68.2	78.8
	Final	98.6	96.2	98.9	97.9			Second	74.7	81.7	79.1	78.5
Wheat	First	95.3	95.6	98.7	96.5	Final		99.6	99.9	101.3	100.3	
	Second	98.0	95.8	99.5	97.8	Rape and Mustard	First	56.6	53.6	50.3	53.5	
	Third	99.0	98.2	99.2	98.8		Second	57.4	53.8	50.5	53.9	
	Fourth	99.1	99.2	98.7	99.0		Final	102.2	104.4	99.3	102.0	
	Final	99.3	100.0	98.8	99.3		Cotton	First	50.3	77.9	63.4	63.9
Sugarcane	First	91.9	96.2	102.5	96.9			Second	69.7	87.3	85.8	80.9
	Second	93.0	96.9	104.3	98.1	Third		84.6	95.8	93.3	91.2	
	Final	97.1	99.5	100.6	99.1	Fourth		91.3	99.3	98.4	96.4	
Groundnut	First	28.6	50.1	31.1	36.6	Jute	Preliminary	113.1	138.9	121.2	124.4	
	Second	69.9	81.2	84.6	78.6		Final	98.6	97.9	99.5	98.7	
	Final	87.0	93.1	95.9	92.0		Suppl. Review	98.6	97.9	99.4	98.6	
Sesamum	First	40.8	55.0	37.8	44.5	Final Review	98.6	97.9	99.5	98.7		
	Second	62.4	63.9	62.2	62.8							
	Final	93.7	96.3	97.1	95.7							
Supplementary		98.8	100.0	99.2	96.0							

5.4 GLOSSARY OF ENGLISH, BOTANICAL AND VERNACULAR NAMES OF CROPS

<u>English</u>	<u>Botanical</u>	<u>Hindustani</u>	<u>Gujerati</u>	<u>Marathi</u>	<u>Tamil</u>	<u>Telugu</u>	<u>Bengali</u>	<u>Malayalam</u>	<u>Kannada</u>
I Cereals									
1. Wheat	Triticum Vulgare or Triticum aestivum	Gahun, Gandam	Ghau, Popatia	Gahu, Khapli	Godumai	Godumalu	Gaum	Kotampam	Godhi, Khapli-godhi
2. Rice or Paddy	Oryza Sativa	Chaval	Dangar, Bhat Vari	Bhat, Sai	Nellu	Vadlu	Chal, Chanvol	Nellu	Bhatta, nellu
3. Cholam (Great Millet)	Sorghum Volgare or Andropogon Sorghum	Jowar	Juwar	Jvari, Jondhala, Shalu	Cholam	Jonnalu	Juar	Cholam	Jola, Kenjol, Bilejol, Yenzara, Shalu.
4. Bajra (Bulrush or spiked millet)	Pennisetum typhoideum	Bajra, Bajri, Lahra, Kasa-Jonar	Bajri, Bajro	Bajri, Saj-gure	Gambu	Sajjalu or Ganteln	-	Kampam	Sajje
5. Barley	Hordeum Volgare	Jao, Jav, Java, Jav Suj.		Jav, Satu	Barli-Arishi	Pachcha Yava	Jav	-	Javegodhi
6. Maize or Indian Corn	Zea Mays	Makki	Makkai	Maka	Makka Cholam or Thulukka Cholam	Mokka Jonnalu		Makka-Cholam	Goinjola, Makkejola
7. Ragi	Eleusine Coracana	Mandua	Bavto, Nagli	Nagli, Nachoni	Kayar, Kelvaregu	Ragulu, Tamidelu	Marua	Mattari	Ragi
II 8. Pulses									
8. Bengal Gram	Cicer arietinum	Channa	Chana	Harbhara, Chana	Kadalai	Sanagulu	Chola, but, but Kalai	Kaddolakra	Kadle
9. Green Gram	Phaseolus radiatus	Mung, Mungli	Mag	Mug	Pacca payiru	Pesalu or Pacca pasala	Mug	Chera payeru	Hesaru
10. Black Gram	Phaseolus radiatus	Urad, mash	Adad	Chavli	Ulundu	Minumulu	Kalokalai	Unnumu	Alsandi
11. Red Gram (Pigeon-pea)	Cajanus indicus	Tur, Arhar	Tuver	Turi	Tuvarai	Kandulu	Arhar, orof, Orol	Tuvera	Togari
12. Horse gram	Phaseolus Mm	Kulthi	Kulthi	Kulith, Kulthi	Kollu or Kanam	Ulavain	Kurti-kalai	Muthira	Hurli
13. Lentil	Ervum lens or Lens Esculante	Masur	Masur	Masur	Misur-pur-pur	Misur-pappu Chiri-sangulu	Mashur	-	Chanangi, Masur Bija
III 4. Sugars									
14. Sugarcane	Sachharum officinarum	Ganna	Sherdi	Us	Karambu	Cheruku	Ak		Khabbu
IV 15. Fruits									
15. Plantain	Musa Sapientum or M. Paradisiaca	Kela	Kel	Kele	Vazahai-pazham	Arati-pandu	Kola	Vasha	Bale
16. Mango	Magnifera indica	Aam, Amb	Ambu	Amba	Mambazham	Mamidi-pandu	Aam, Ambra		Mavu
17. Grapes	Vitis Vinifera	Angur	Dara	Draksh					Draksh

GLOSSARY OF ENGLISH, BOTANICAL AND VERNACULAR NAMES OF CROPS (Contd.)

English	Botanical	Hindustani	Gujarati	Marathi	Tamil	Telugu	Bengali	Malayalam	Kannada
18. Orange	<i>Citrus aurantium</i>	Narangi Sang-tara	Narangi	Naringe Santra					Kittale
19. Lemon	<i>Citrus medica</i> var, <i>Acida</i>	Nimbu, Limbu	Limboi	Limbu	Narattam pezham	Nimma-pandu, Dabba-pandh	Nebu, Lebu	Metu lenga-Phalapura	Nimbe
20. Pomegranate	<i>Punica Granatum</i>	Anar	Dadamdi	Dalimb	Nadalaip-pazham	Danima-pandu	Anar, Dalim, Darim	Matalam-pazham	Dalimb
V. Vegetables.									
21. Potato	<i>Solanum tuberosum</i>	Alu	Batata	Batate	Urulaik-kizhangu	Urulagadda	Alu	Uraila-kizhangu	Batate, Allu-gadde
22. Onions	<i>Allium Cepa</i>	Piyaz	Kanda, Dungli	Kanda	Vengayam	Ulligadda	Piyanz Palandu	Unnila	Ullegaddi, Nirulli
23. Cabbage	<i>Brassica oleracea</i>	Gobhi	Kobij	Kobi	Gos-Kire	Gos-Kura	Kopi		Kyabij
24. Tomato	<i>Lycopersicum</i>	Tamuter	Tomata	Vel Vangi Tamate	Simie-Takalie-palam		Timoti		Chaper-badnekai
25. Carrot	<i>Daucos Carota</i>	Gajar	Gajar	Gajar	-	-	-	-	Thakkali Hanru, Gajjare
VI. Drugs & Narcotics									
26. Tobacco	<i>Nicotiana Tobacum</i>	Tambaku	Tamakhu	Tambokhu	Pugaiyilai	Pogaku	Tamak	Pukayila, Pukala	Tambaku, Hogesoppu
27. Opium	<i>Papayer somniferum</i>	Afhim, Afhiyum, Pan	Afim	Afu	Abini	Abhini	Post	Afiyum	Afimu
28. Betel leaves	<i>Piper betel</i>	Pan	Pan	Vidyachi-Pane	Vethilai	Tamala-pakulu	Pan	Veta vetrila	Villyadele
29. Betel nut (Areca nut)	<i>Areca catechu</i>	Supari	Sopari	Supari	Pakku	Vakka	Shupari, Gua	Adaka, Kavugu	Adike
VII. Condiments & Spices									
30. Chillies	<i>Capsicum annum</i>	Lal mirch	Marcha	Mirchya Mirsinga	Milagai	Mirapakayalu	Lanka	Kappal-Maleka	Mensinkai
31. Black Pepper	<i>Piper nigrum</i>	Kali mirch	Mari	Miri	Milagu	Miriyalu	Gol Mirch Kalo Mirch	-	Menasu, Mirialu
32. Turmeric	<i>Curcuma longa</i>	Haldi	Halad	Halad	Manjal	Pasupu	Halud	Mannal, Marinalu	Arashina Belloli
33. Garlic	<i>Allium Sativum</i>	Lasan	Lasan	Lasunas	Vellaipundu	Tellegadda	Lashan		
34. Cardamom	<i>Elettaria cardamomum</i>	Alaichi	Elchi	Veldode	Ullipundu Yelam	Velluln Yelakayalu	Rasun Elachi	Yelem	Yelakki
VIII. Oilseeds									
35. Sesamum	<i>Sesamum Indicum</i>	Til	Tal	Til	Yellu	Nuvvalu	Til	Yellu	Yellu
36. Linseed	<i>Linum usitatissimum</i>	Alsi	Alsi	Javas, Alsi	Alivirai	Avisi	Tisi, Masina	Cheru-chana-vittente-Vitta	Wollellu
37. Rapeseed	<i>Brassica napus</i>	Sarsoon	Sarsav	Shiraz	-	-	Shwet-rai	-	Agashe, Alasi
38. Castor	<i>Ricinus Communis</i>	Arend	Diveti Brande	Erandyaj	Amanakku Kottaimuthu	Amudalu	Bheranda	Avanakku	-
39. Mustard	<i>Brassica nigra</i>	Rai, Taramira	Rai	Mohri	Kadagho	Avalu	Rai-Sarisha	-	Audia, Haralu
40. Groundnut	<i>Arachis hypogea</i>	Mung Palli Vilayati Mung	Bhoising, Maghpali	Bhuimug	Nillakadalai, Verkadalai	Verusanagalu, Nelasana-gulu	Chinar Badam	Nalak-Katala, Verk-Kela	Sasvi
41. Coconut	<i>Cocos Nucifera</i>	Narial	Nalieri	Naral	Thengai Thennai	Tenkaya	Nari Kel	Tenga, Tennai, Nur	Nelgadde
IX. Fibres									
42. Cotton	<i>Gossypium herbaceum</i>	Kapas, Rui	Kapas	Kapus	Paruthi	Farthi	Kapas, tula Pat, Pata,	Puruthi	Tengu, Fatti
43. Jute	<i>Corchorus Capsularis</i>		Jut	Jut	-	-	Kushta	-	Goni naru, Chunchala
44. Sunn Hemp	<i>Crotolaria Junecea</i>				Sanappu or Shanai	Janumu			Gidadinara