

Sowing windows

and suitable cultivars of rainfed crops for higher productivity

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More than 40 crops are cultivated under diverse rainfed agroecologies, i.e. rainfall zones, soil types, rainfed production systems. Despite the progress made so far in rainfed agriculture, productivity of rainfed crops is low due to abiotic and biotic stresses, multiple risks and socio-economic constraints. The key concern for rainfed agriculture is adapting to climate change. The introduction and adoption of more drought tolerant crops and varieties is necessary to realize better crop yields in diverse rainfed agroecologies. Crop diversity is essential for sustainable agriculture and crop along with varietal diversification can boost a rainfed production system's productivity and profitability.

Keywords: Rainfed crops, Sowing windows, Varieties

RAINFED agriculture accounts to 52% of net cultivated area and contributes a lot to country's food basket. The bulk of cereals, millets, pulses and oilseeds are cultivated in rainfed areas. Improvement in the productivity of these crops holds the key to the overall improvement of rainfed agriculture. The whole concept of farming revolves around the seed. Identification of crops and varieties that fit well into changed climatic conditions is common denominator for sustainable crop production in all land use conditions. An ideal variety should be high yielding, plastic enough to withstand against weather aberrations, tolerant to multiple abiotic and biotic stresses, and fits well to farming situations. Sowing right variety of right crops at right time under right land use conditions makes a significant difference towards attaining higher yields. The choice of crops and varieties is more relevant under highly complex rainfed production systems and areas frequented with weather

vagaries. Generally, the crop for rainfed areas should be of short duration with early vigour, deep root system with ramified roots, dwarf plants with erect leaves and stem, moderate tillering in case of tillering crops and varieties, resistance/tolerance to biotic stresses, lesser period between flowering and maturity so that the grain filling is least affected by adverse weather, resistance/tolerance to abiotic stresses, low rate of transpiration, less sensitive to photo-period and wider adaptability. The variety should have a high grain:straw ratio (harvest index) and a relatively high root to shoot ratio in order to yield efficiently.

The network centres of All India Coordinated Research Project for Dryland Agriculture (AICRPDA) have been developing/evaluating drought tolerant varieties of rainfed crops. The state-wise, agroclimatic zone wise and rainfed crop wise, recommended sowing windows and suitable varieties are as follows:

Andhra Pradesh

Scarcity zone of Andhra Pradesh (Ananthapuramu, Kurnool, YSR Kadapa and Chittoor districts)

Sowing window of <i>kharif</i> rainfed crops and suitable cultivars		
June first week–July last week	June first week–August end (Red soils)	June first week–August end
Groundnut	Pigeonpea	Castor
K-9, Kadiri Lepakshi, Dharani, Kadiri Harithandhra, Kadiri, Anantha, ICGV 91114	LRG-52, PRG-176 LRG 105, ICPL 85063	GCH-4, DCH-77, 519 ; PCH-111, 222; ICH-66

Assam

North Bank Plains zone (Dhemaji, Lakhimpur, Biswanath, Sonitpur, Darrang and Udalguri districts)

Sowing window of <i>kharif</i> rainfed crops and suitable cultivars				
June/July	March/April	Feb–April	Mid-August– Mid-September	July–August first fortnight
Sali rice Ranjit, Bahadur, Moniram, Piolo, Lakhimi, Rangalee, Shraboni, Bhogali, Satya, Basundhara, Mahsuri, Keteki Joha, Mahsuri, Monoharsali, Prafulla, Gitesh, Ranjit sub-1, Bahadur sub-1, Jalashree, Jalakunwari, Prasadbhog, Govindabhog	<i>Ahu rice (direct seeded)/</i> Inglongkiri Dehangi, Hacca <i>Bao rice (Deepwater rice)</i> Padumani, Panchanan	Maize Ganga 5, Vivek Maize, Hybrid 47, Vivek Maize Hybrid 53	Blackgram Sonkush, SBC-40, 47; Manas, KU 301, Saoniamah Greengram: SGC-16, 20; SG 21-5, Sonai	Sesame AST-1, ST-1683



Rice cv. Ranjit



Rice cv. Gites

Sowing window of <i>rabi</i> rainfed crops and suitable cultivars		
Mid-October–November Torla: TS-36, 38, 46, 67; Jeuti Potato: Kufri Jyoti, Kufri Sindhuri, Kufri Megha, Kufri Chandramukhi, Kufri Pokhraj Lentil: HUL57, Axom Masur 1, 2; PL 406 Rajmah: HUR-203, 301	Mid-October Pea: T-163, HUP-2, Boneville, Pant-14	November–December Boro Rice: Joymati, Kanaklata, Bishnuprasad Jyotiprasad, Swarnabh, Dinanath

Chhattisgarh

Bastar Plateau zone (Bastar, Narayanpur, Kondagaon, Bijapur, Sukma, Dantewada and Kanker districts)

Sowing window	Kharif rainfed crops	Suitable cultivars
May last week–June first week	Dry aerobic rice	Purnima, Samleshwari, Sahabhagidhan MTU-1010, Rajeshwari, Durgeshwari, Maheshwari, Indira Sona (Hyb) Karma Masuri, Shyamla, MTU-1001
Up to second week of August	Lehi system	Bamleshwari, Jaldubbi, Indira Sugandhi Dhan-1
June last week–July first week	Maize Finger millet	JM-216, Navjot, Prakash, Pro-agro 4212, Hicell Indira ragi-1, C.G. ragi-2, C.G. ragi-3 VL-146, BR-708, GPU-28
August third week–September first week	Horse gram Black gram Niger	IndiraKulthi-1 Indira urd Pratham, BK-1, NK-21, JND-2 IGP-76, GA-10, JNS-1, 6;
June last week–July first week	Pigeon pea Little millet	Rajeev lochan, Prabhat, Pragati, Asha C. G.kutki-1, C. G.kutki-2, C.G. Sonkutaki
Sowing window	Rabi rainfed crops	Suitable cultivars
November second week–December second week	Chickpea Mustard	Indira Chana-1, Vaibhav, JG-16,14; JG-130, JSC-55 and 56, JAKI-9218 Chhattisgarh Sarson

Gujarat

North Saurashtra zone (Jamnagar, Devbhoomi Dwarka Morbi, Surendranagar, Amreli, Bhavnagar, and Rajkot districts)

Sowing window of <i>kharif</i> rainfed crops and suitable cultivars		
June first week–July second week	June second week –July last week	June second week–July second week
Groundnut (Bunch) GG-2, GG-5, GG-9 GJG-32, GG HPS -2	Castor GCH-4, 5, 6, 7, 9	Sesame GT-1, 2, 3, 4, 5, 6, 10 and Purva-1
Groundnut (Semi-spreading) GG-20, GJG-22	Cotton G.Cot-10, 13, 15, 18, 21 22; G.Cot-H-8,	Pearl millet GHB-316, 558, 577, 538, 719, 732, 744, 757, 905, 1129, 1225, 1231
Groundnut (spreading) GG-11, GG-13, GJG-17 GJG HPS -1, GJG-18, GJG-19	GJC-101	Greengram GM-4, K-851, GAM-5 Blackgram GU-1,2; T-9

Northern Gujarat zone (Banaskantha, Aravali, Sabarkantha, Patan, Mehsana, Gandhinagar and Kachchh districts)

Sowing window of <i>kharif</i> rainfed crops and suitable cultivars	
June second fortnight–July first fortnight	June second fortnight–July second fortnight
Pearl millet: GHB-558, 538, 1129 Cluster bean: GG-1, 2 Greengram: GM 3, 4, 6 Cowpea: Gujarat Cowpea-1, 2, 4, 6	Castor: GAUCH-1, 2, 4, 5, 6, 7, 8

Sowing window of <i>rabi</i> rainfed crops and suitable cultivars	
2 nd fortnight of October	October last week–November first week
Mustard: GM 2, GDM 4, GDM 5	Chickpea: GJG3, GJG5

Haryana

South western dry zone (Sirsa, Fatehabad, Hisar, Bhiwani, Mahendergarh, Rewari, Jhajjar, Nuh, Palwal, Jind, Gurugram and Panchkula districts)

Sowing window of <i>kharif</i> rainfed crops and suitable cultivars
July first week
Pearl millet: HHB 67 (Improved), HHB 197, 226, 234, 272, 299 Cluster bean: HG 563, 365, 870, 2-20 Green gram: MH 421, 318, 1142



Clusterbean cv. HG-20

Jammu

Low altitude sub-tropical zone (Jammu, Samba, Kathua, Udhampur and Rajouri districts)

Sowing window for <i>kharif</i> rainfed crops and suitable cultivars		
June second fortnight–July first fortnight	July first fortnight	
Maize: Kanchan-517, Kanchan-612, Kanchan-517 Gold, Double dekalb, JMC 3,Mansar	Pearl millet: Nandi 65, MHB-110, MHB-179	
	Green gram: PDM-54, IPM-2-3, ML-818	
	Black gram: Pant U-31, Uttara, Mash-338	
	Sesame: Punjab Til No. 2, RT 351, RT 346	
Sowing window for <i>rabi</i> rainfed crops and suitable cultivars		
November first fortnight	October second fortnight- November first week	November second fortnight
Wheat: WH-1080, HD-3237, JAUW-598	<i>Gobhi sarson</i> : DGS 1, GSL 2	Lentil: VL 125 PL 639, PL 406
Chickpea: GNG 1581, 469, RSG 963		

Jharkhand

Western Plateau zone (Palamu, Garhwa, Latehar, Chatra, Lohardaga, Gumla and Simdega districts)

Sowing window for <i>kharif</i> rainfed crops and suitable cultivars	
June second fortnight	
Rice: Vandana, BVD108, 109, 110; Naveen, Sahbhagi, PAC 801, 807; Maize: Birsa Makka-1, Suwan composite Pigeonpea: Birsa Arhar -1, Narendra Arhar, Bahar Blackgram: T9, Birsa Urd-1, Pant U-19	
Sowing window for <i>rabi</i> rainfed crops and suitable cultivars	
October second week–November second week	
Chickpea: Pant G114, KPG-59, JG-14, K-9107, K307, Birsa Gehune-2, 3	



Finger millet cv. MR-1

Karnataka

Northern dry zone (Vijayapura, Bagalkote, Gadag, Bellary, Koppal, parts of Dharwad, Belagavi and Raichur districts)

Sowing window of <i>kharif</i> and <i>rabi</i> rainfed crops and suitable cultivars					
<i>Kharif</i>			<i>Rabi</i>		
May third week–June third week	June second week–mid August	June third week–July second week	August third week–September last week	September third week–October second week	October first week–November second week
Green gram BGS-9 Selection-4 Shining Mung Pusa Baisaki	Pearl millet ICTP-8203 VPMH-7, 9 MH-946 ICMV-221	Pigeonpea TS-3R, ICP-8863, Asha	Sunflower KBSH-41, DSFH-3, KBSH-53	Sorghum Maldandi, Muguti BJV-44, DSV-4, 5 CSV-29R	Chickpea A-1, JG-11 JAKI-9218, GBM-2, Safflower A-1,2

Eastern, southern and central dry zones (Mysore, Tumkur, Kolar, Ramanagara, Bengaluru (Rural and Urban), Chamarajanagar, Hassan, Chikkaballapur and Mandya districts)

Sowing window	<i>Kharif</i> rainfed crops	Suitable cultivars
July first week–August last week	Finger millet	MR-1, 6; HR-911, GPU-28, 45, 48, 66, KMR-301, 204, ML-365, Indaf-5
May third week–July last week	Maize	Nithyashri (NAH-2049), Hema, MAH 14-5
April Third week–July last week	Pigeon pea	TTB-7, BRG-1, 2, 4, 5
August third week–September last week	Horse gram	PHG-9, KBH-1
May first week–September First fortnight	Cowpea	KBC-1, IT-38956-1, TVX-944-1, KBC-2, KM-5
May and also during August–September	Field bean	HA-3, 4
May third week–July second week	Groundnut	TMV-2, GKVK-5, JL-24, KCG-2 KCG-6
April third week–May second week	Sesame	TMV-3, GT-1, NAVILE, T-7

Madhya Pradesh

Malwa zone (Mandsaur, Ratlam, Ujjain, Rajgarh, Shajapur, Indore, Dewas, Dhar, Jhabua and, Sehore districts)

Sowing window of <i>kharif</i> and <i>rabi</i> rainfed crops and suitable cultivars	
<i>Kharif</i>	<i>Rabi</i>
June third week–July first week	September last week–October first week
Soybean: JS 20-34, JS- 20-29, JS-20-69, RVS-18, JS95-60, RVS2001-4, RVS-24	Chickpea: RVG-201, 202, 203, 204, 205
Maize (Composite): JM- 216, JM-12, JM-218, JM-215	
Maize (Hybrids): HM-10, PEMH-2, Pusa JHM-1	Chickpea (<i>Kabuli</i>): RVKG-101, 102; JGK-1, 3; KAK-2
Sorghum: RVJ 2357, CSV 27, CSH-27, 30, 41	
Pigeonpea (short-duration): TJT-501, RVSA-28, Pusa-33, 992, ICPL-87, 151	

Keymore plateau and Satpura hill zone (Rewa, Sidhi, Singroli, Satna, Panna, Katni, Jabalpur and Seoni districts)

Sowing window of <i>kharif</i> and <i>rabi</i> rainfed crops and suitable cultivars	
<i>Kharif</i>	<i>Rabi</i>
June first week–July second week	October first week–November second week
Soybean: JS20-98, JS20-119, JS20-34, RVS 2001-4	Chickpea: JG 62, 12, 36
Upland rice: JR201, Sahbhagi, Danteshwari, VirsaVikash 109	Linseed: JLS66, 67, 79
Pigeonpea: TJT-501, JA4, Rajeswari, Asha	Mustard: Pusa bold, PusaTarak
Blackgram: PU35, IPU2-43, Indira urd1	Lentil: JL1, 3; IPL 316
Greengram: TJM3, Shikha, PDM-139	

Maharashtra

Western vidarbha zone (Akola, Washim, Buldana, Yavatmal, Amravati, Wardha and of Nagpur districts)

Sowing window of <i>kharif</i> and <i>rabi</i> rainfed crops and suitable cultivars				
	<i>Kharif</i>		<i>Rabi</i>	
Entire June	June third week – July second week	Third to fourth week of June	June third week – July first week	Third to fourth week of October
Cotton	Soybean	Greengram	Sorghum	Chickpea
AKH-09-5; AKH-9916; PKY HY-2; PDKV JKAL; AKA-5,7, 8	JS-33,5; PDKV Yellow, Gold; Suwarn Soya, JS-9560, JS-9305 Pigeonpea: TAT-10, AKT-8811, BDN-2, PKV Tara, BSMR-853,736; ICPL-87	PDKV; Greengold; PKV AKM-4	CSH-9, 14, 16, 17, 25, 30, 35; SPH-1635, SPV-669,15; PVK-400; SPV-1616; CSV-23, 27,28,34; PDKV Kalyani	Jaki-9218, Vijay, Green Chaffa, PKV Harita, PKV Kabuli-2, 4; PDKV Kanchan, Gulak-1

Central Maharashtra plateau zone (Parbhani, Hingoli, Nanded, Beed, Latur Osmanabad, Aurangabad and Jalna districts)

Sowing window of <i>kharif</i> and <i>rabi</i> rainfed crops and suitable cultivars			
	<i>Kharif</i>		<i>Rabi</i>
June second week–July second week	May last week–July second week	June second week–July first week	First to second week of October
Soybean MAUS-71, 158, 162, 612	Cotton NHH-44, Bt BG-II	Sorghum: Parbhani moti, Parbhani Jyoti, Parbhani Shakti, Parbhani Super moti Pigeon pea: BSMR-853, BDN-711, 716, 781 Green gram: BDN 2003-02 Blackgram: TAU-1	Safflower PBNS-12,40,86 Chickpea BDN-797

Scarcity zone (Solapur, Ahmednager, Sangli, Pune, Dhule, Jalgoan, Nandurbar, Satara districts)

Sowing window of <i>kharif</i> rainfed crops and suitable cultivars			
June third week–July second week	Third to fourth week of June	First to second week of July	June second fortnight– July first fortnight
Pearlmillet Phule Adishakti Phule Mahashakti Phule Dhanshakti	Pigeonpea Rajeshwari BDN-711,716	Sunflower Bhanu, Phule Bhaskar/Hybrid Phule, Raviraj	Blackgram: BDU-1, TAU-1 TPU-4 Greengram: Vaibhav Utkarshya, Phule Chetak Cowpea: Phule Sonali Phule Pandhari, Phule Vitai
Sowing window for <i>rabi</i> rainfed crops and suitable cultivars			
September third week–October second week	Last week of September	October first week –November second week	September second fortnight–October first week
Sorghum Shallow soil Phule Mauli, Phule Anuradha		Sunflower Bhanu, Phule Bhaskar, Phule Raviraj	Safflower Phule Gold Phule Kiran, SSF-708 Phule Karadai-733 Phule Chandrabhaga



Soybean cv. JS-9305



Pigeonpea cv. BDN 711

Odisha

Northeastern ghat zone (Kandhamal, Gajapati, Rayagada, Ganjam, and part Koraput (Laxmipur block) districts)

Sowing window for <i>kharif</i> rainfed crops and suitable cultivars	
June second week–July second week	Upland rice: Sahabhagi, Khandagiri Maize: Nirmal 51, Maharaja
June second week–June fourth week	Finger millet: Bhairabi
June third week–June fourth week	Pigeonpea: NTL-724
July fourth week–August first week	Niger: Utkal Niger; Sesame: Prachi
July third week–August fourth week	Blackgram: Ujala, T-9; Greengram: Dhauri, PDM-54
May third week–May fourth week	Turmeric: Lakdong

Punjab

Kandi region of Punjab (Roopnagar, Hoshiarpur, Shaheed Bhagat Singh Nagar, Pathankot, Sahibzada Ajit Singh Nagar districts)

Sowing window for <i>Kharif</i> rainfed crops and suitable cultivars				
June third week–July first week	Onset of monsoon–July third week	Second fortnight of July	First to second week of July	
Maize	Blackgram	Greengram	Sesame	
PMH-1, 11, 13; JC-12, 4	Mash 114 , 338	ML 1808, 2056	Punjab Til No. 2	
Sowing window for <i>rabi</i> rainfed crops and suitable cultivars				
October last week–November first week	October third week–November lastweek	Entire October	Third to fourth week of October	Second to third week of October
Wheat	Mustard	Taramira	Lentil	Chickpea
Unnat PBW 343, 550; PBW 725, 660, PBW 771, 752, 757 (late sown)	PBR 97, 357; RLC 3, Giriraj, RLM-619	TMLC-2	LL 1373, 931	PBG - 8, 7

Rajasthan

Southern zone (Bhilwara, Chittaurgarh, Rajsamand, Udaipur and part of Sirohi districts)

Sowing window for rainfed crops and suitable cultivars			
<i>Kharif</i>		<i>Rabi</i>	
June third week–July second week	Entire July	Entire October	September third week–October second week
Maize	Blackgram	Chickpea	Taramira
PEHM-2, Pratap Makka-3, 5, 9; Pratap Hy. Makka-3	KU 96-3, PU 31	CSJ 515	RTM 314
Sorghum	Pratap Urd 1	RSG 991	RTM 2002
CSV 17	Greengram	Raj Pratap Chana	RTAS
Pratap Jowar-1430	SML668, GM 4	Pratap Chana1	
CSV15, 23 (Dual purpose)	IPM-02-03		
Soybean	RMG 492		
JS 93-05, JS 20-34, JS 71-05, JS 9560	Clusterbean		
Pratap Soya 2	RGC-936, 986, 1003, 1002, 1017;		
Pratap Raj Soya 24			
Groundnut	Sesame		
TG37-A, GPBD 4	RT-346, 351, 127;		
Pratap Mugfali 2,	Horsegram		
Pratap Raj Mugfali,	AK 21		
Raj Durga	Pratap Kulthi-1,2;		

Tamil Nadu

Southern zone (Thoothukudi, Tirunelveli, Madurai, Tenkasi and Virudhnagar districts)

Sowing window	Crops and cultivars
September third week–October last week	Cotton: KC 3, CO17, SVPR 2, Thulasi, Mallika, Jadoo, RCH-314 Maize: COH(M) 6, COH(M)8, NK30, Pioneer3302, NK6240
Entire October	Sorghum: K8, Co-26, CSH16, APK1, K12, CO 30, 32 Blackgram: CO6, VBN-1, 4, 6, 8, 9, 10; MDU 1 Greengram: Co-6, 7, 8; VBN 2, 4;
September third week–November last week	Pearlmillet: CO9, Co(CU)9, WCC-75, ICH301, Kanjan, CO10, Hybrid Bajra 1827, Hybrid Bajra 1818

Uttar Pradesh

South-western semi-arid zone (Agra, Mathura, Mainpuri, Aligarh, Hathras, Firozabad, Etah and Kanshiram Nagar districts)

Sowing window for <i>kharif</i> rainfed crops and suitable cultivars		
Entire July	Pearlmillet: Pro agro-9001, 86 M 88 Sesame: Sekhar, HT-1 Clusterbean: RGC-1002, 1017, 1025; Greengram: PantMung-1, 2, PDM Blackgram: Type-9, Pant-U-19, 30, 35 Pigeonpea: UPAS-120 , IPA-203, Narendra Arhar-1, 2	
Sowing window for <i>rabi</i> rainfed crops and suitable cultivars		
First to second week of October	First to second week of November	October third week–November second week
Mustard: DRMRIJ-31 RH-749, 406; RCHB-101	Chickpea: Avrodhi, Udai	Lentil: DPL-62, L-4594, Barley: Narendra-2, T-36, Pant-206, 209

Northeastern plain zone (Faizabad, Sultanpur, Basti, Gonda, Ambedkarnagar districts)

Sowing window for <i>kharif</i> rainfed crops and suitable cultivars	
Entire July	Rice: NDR-118, 97; Barandeep, Govind, Narendra Lalmati, Suska Samrat, Gontra Bidhan-3
July–August	Sesame: Type-4, Sekhar, Pragati
July first week–August last week	Pigeonpea: Narendra Arhar-1, 2; Bahar, Malviya Arhar-13 Blackgram: NDU-1, Uttara, Pant Urd-1 Greengram: Narendra Mung-1, Pant moong-1, 4; Malviya Jyoti
July first week–August second week	Maize: Naveen, MM-1107, Pragati, Kanchan, Prakash Sorghum: Varsha, CHB-13

Sowing window for *rabi* rainfed crops and suitable cultivars

Entire October	Chickpea: Pusa-362, Awarodhi, Radhey, Udai, GJ 4 Lentil: Narendra Masoor-1, HUL-57, Pusa Baibhav Mustard: Narendra Rai-1, Varuna, Vaibhav, Narendra Ageti Rai Narendra Swarna-8 Linseed: Garima, Sekher, Sweata
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Eastern plain and Vindhayan zone (Varanasi, Chandauli, Sant Ravidas Nagar, Jaunpur, Ghazipur, Mirzapur and Sonbhadra districts)

Sowing window for *kharif* rainfed crops and suitable cultivars

June third week–July second week	Rice: NDR-97, 118; Govind, Vandana, Shusk Samrat, HUR 3022 Maize: Gangasafed-2, Kanchan, Ganga-5, Sweta, Pragati Pigeonpea: Bahar, Narendra Arhar-1, Malviya Chamatkar, Malviya Vikas Sesame: Type-4, 12, 13; Shekhar, Pragati, GT-1
July second week–August second week	Greengram: Pant Moong-1, 2; Narendra Moong-1, Jyoti, Jan Chetna, Jan Kalyani, Type-21

Sowing window for *rabi* rainfed crops and suitable cultivars

October second/ third week–November second week	Chickpea: Awarodhi, Pusa-256, Pant G-186 Lentil: Pant L406, Pant L-5, K-75, HUL-57 Mustard: Varuna, Vardhan, Kranti, Vaibhav
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SUMMARY

In view of growing demand for food grains in the country, there is a need to develop and enhance the productivity of rainfed areas. If properly managed, the lands have potential to increase agricultural growth and food production. Crop diversity is fundamental to agricultural growth and crops along with varietal diversification can improve the productivity and profitability of a crop production system. In present context of agriculture, diversification is a viable option to mitigate the risk of climate change and introduction of more drought resistance crop varieties is viewed as a critical step in food security. For selecting a variety under rainfed/dryland situation, the maturity group, yield potential and herbicide technology of the selected variety should always be considered for better profitability. Moreover, the yield stability across multiple location and years is also an important consideration during varietal selection.

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Know Krishi Unnati Yojana

The *Krishi Unnati Yojana*, a central sector scheme, is envisaged as umbrella programme for focusing on food security, by merging schemes on Soil-health Card, Integrated Scheme on Agricultural Co-operation and Agricultural Marketing, National Mission on Agriculture Extension, Horticulture Development, Price Stabilization Fund, National Mission on Sustainable Agriculture and other programmes.