Agriedu4u – The complete blog for all Agri-exams

GENERAL AGRICULTURE 2018 new

Latest facts, research updates, figures , tables and all for JRF, SRF, PhD exams, Bank exams for Agriculture

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General Agriculture

ICAR Recent Research updates

- A total of **209 new varieties**/hybrids with potential for higher yields and enhanced tolerance/resistance to various stresses were released by ICAR in 2017-18
- An example of Landmark variety of Rice -> **Pusa Basmati 1121**
- Landmark variety of Wheat -> HD 2697(*HD – stands for Hybrid Delhi*)
- How many biofortified crop varieties have been developed by ICAR -**12**
- DARE is working on a mission mode to achieve "Doubling of Farmers income" by **2022**
- Lab to Land programme is basically through -> "Front line demonstration" by KVK's
- Village adoption scheme is "*Mera Gaon Mera Gaurav*"
- **100 centres** for promoting sustainable agriculture has been through the scheme "*Pandit Deen Dayal Upadhyaya Unnat Bharat Krishi Sikhsa Yojana*"
- The 4th India-ASEAN agriculture ministers meeting held at-> **New Delhi** and hosted by **DARE**
- President, ICAR Society, and Union Minister of Agriculture and Farmers Welfare-> **Shri Radha Mohan Singh**
- Secretary, DARE, and Director General, ICAR -> **Dr.Trilochan Mohapatra**
- The flagship educational initiative launched by Union Agri minister during 89th Foundation day of ICAR was -> **National Agricultural Higher Education Project** (**NAHEP**)
- ***Sankalp se-Siddhi*** → Mass awareness programme for Doubling farmers income by 2022
- AICRP on Integrated Farming Systems (IFS)→ is operational in **24 states** and 1 union territory covering all the 15 Agro-climatic regions of country
- NBSS LUP has developed a "***NBSS BHOOMI** Geoportal*" to access thematic information on geographic, subgeographic, agro-ecological and agro-ecological sub regions of the country
- **Leucaena Biochar** (*Biochar is product of slow pyrolysis of biomass*) may serve as amendment for N transformation in highly acidic soils
- A mobile App for fertilizer recommendations in Maharashtra developed by ICAR and NIC, Pune → **STCR mobile app**(bilingual Marathi and English)
- Groundwater depletion of 1.25cm and 2.1cm water equivalent height was found in Ganges basin and Punjab respectively (both collectively called ***India's grain bowls***)
- **NPOF** stands for Network Project on Organic Farming
- A **DSS** (Decision Support System) was developed for 15 major rainfed crops – Rice, Sorghum, Pearl Millet, Maize,Finger millet, chickpea etc.
- Salt tolerant variety of Indian mustard for conditions of moderate to high salinity -> **CS58**
- 2 varities of **Buffel grass** *Cenchrus ciliaris* released -> CAZRI358, CAZRI2178
- 1 variety of **Sewan grass** *Lasiurus sindicus* was released -> CAZRI Sewan-1
- *Lac mud* is basically a waste product of lac processing industries which process *sticklac*
- ***Enriched Lac mud*** application gave higher yield in vegetables and flower production and also in higher fertilizer efficiency
- Novel Hydrogels were synthesized from **Guar gum** *Cyamopsis tetragonolobus*

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- **Hydrogels** helps combating problems of water scarcity in arid regions by being superabsorbent *(ie nearly it can absorb 600 ml water /gm of the hydrogel)* and are being evaluated as soil conditioners
- ICAR-CIFA, Bhubaneswar has synthesized **Nanoclay** (sodium-bentonite nanoparticles) from matured coconut water that may help in preventing seepage of nutrients from farm ponds
- Decision support system for white fly in cotton was developed -> Havmaana Krishi
- *Bactrocera dorsalis, Bactrocera correcta and Bactrocera zonata* -> Mango fruit fly species
- A composite feed additive for reducing methane emission and improved fibre utilization in ruminants (*ie* cow, buffalo) was developed -> **RESMI**
- For reducing climatic stress in goats, herbal crude powder based bolus developed-> **STRESSOL-G**
- The **largest** division of ICAR -> Crop Science division
- New leaf rust resistance gene identified in wheat called as -> *Lr.Sel G12*
- Manipuri black rice is -> **Chakhao rice**
- **Lnc RNA's** are -> Long non-coding RNAs
- LncRNA have been found to play an important role in stress response in rice
- Three brown midrib genes (bmr 2, 6 and 12) have been pyramided into 2 Sorghum cultivars CSV20 and CSV27, these **bmr genes** are useful for **lignocellulosic biofuel** production
- Genome sequencing of **Indian dark jute** (*corchorus olitorius*) variety JRO524 (Navin) was accomplished
- *Sehima nervosum* a natural range grass which has potential for production of various nutraceuticals for numerous industrial applications
- In 2016-2017 the total breeder seed production in *field crops* was **121,988.5 Quintal**
- SRR – Seed Replacement Rate, VRR- Varietal Replacement Rate
- To make quality seed available to farmers ICAR has adopted the scheme "Seed Production in Agricultural Crops"
- A project was envisaged by ICAR to develop cross between **Holstein-Sahiewal** for evolving a National Breed Milch "**Frieswal**"
- Frieswal will yield 4000kg of milk with 4% butter fat in a mature lactation period of 300 days
- "**Kalrumpscale**" a novel tool for measuring 3D angular and linear orientation of buffalo rump/pelvic surface was developed
- Sheep breeds example -> Muzaffarnagri, Marwari, Deccani, Mandya sheep and Magra sheep
- **NWPS**-> Network Project on Sheep Improvement , Objective -> Improvement of indigeneous sheep breeds through selection for better growth and wool production
- **Mega Sheep Seed Project** -> 1)Development and maintenance of nucleus flock of indigenous sheep breeds 2)Distribution of superior breeding males and inputs for farmers
- Goats breeds-> Barbari goat, Jamunapari goat and Jakharana goat
- Improved cross bred varieties of Pig namely -> **Rani** and **Asha**
- Other pig varieties-> HD-K75, Jharsuk, Mannuthy white, Lumsniang
- Multi-colored dual purpose breed of chicken that lays 120-130 eggs *ie* double (normal hen lays 55-60 eggs/annum is -> **Jharism** developed at AICRP on poultry breeding, BAU, Ranchi)
- Varieties of Quails -> CARI Uttam, CARI Ujjawal, CARI Pearl, CARI Sweta

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- **Khaki Campbell** -> is a variety of duck
- Potential fish species for cage and aquaculture due to faster growth rate and adaptability are -> Indian Pompano (*Trachinotus mookalee*), Pig face bream (*Lethrinus lentjan*), Orange spotted grouper (*Epinephelus coioides*)
- **Indian white shrimp** *Penaeus indicus* is being promoted as an alternative to Exotic white leg shrimp *Penaeus vannamei* for large scale brackish water aquaculture by ICAR-CIBA
- An important food fish of Indian subcontinent -> Hilsa *Tenualosa ilisha*
- A liquid Bio NPK formulation was developed by ICAR that had –> N-fixing *Azotobacter chroococcum*, P solubilising *Paenibacillus tylopili* and K solubilizing *Bacillus decolorationis* bacteria
- An Effective biopriming technology was developed in rice using -> Cyanobacterial consortium *Plectonema sp*., *Anabena sp.*and *Nostoc sp*. in equal quantities
- Emerging pest on bottle gourd -> **Mirid bug** *Nesidiocoris cruentatus*
- **Indo-Blightcast** model was developed to predict -> Late Blight appearance
- Entomopathogenic fungi *Lecanicillium psalliotae* -> First time use in management of Cardamom thrips
- Legislation for Protection of Plant Varieties and Farmers' Rights was enacted in year **2001**
- **NATIONAL SEEDS CORPORATION** -> It is a schedule-B Central Public Enterprise under the Administrative Control of the Department of Agriculture, Cooperation and Farmers Welfare. It enjoys "**Mini Ratna**" (Category-I) status
- **Bt. Cotton** is the only transgenic crop approved in the country for commercial cultivation
- National Designated Agency to coordinate for establishment and maintenance of SAARC Regional Seed Bank in India -> National Seeds Corporation Limited (NSC), New Delhi
- As per the Agriculture Census 2010- 11, the average size of all land holding in India was **1.15 ha**

New Varieties of Food and Cash crops

Crop	*Varieties*
Rice *Oryza sativa*	**BLB** resistant - **HRI-183**(Arize swift gold**), HRI-180**(Arize Tej Gold), **BS 129G** DSR system suitable -**PAC129** (Arize 6129) *Scented rice* – **Malviya Sugandha** Dhan (UP) Near Isogenic line of Pusa 1121-> **Pusa Basmati 1718** Others – **Nandyala sona**, **CARI Dhan-5**
Wheat *Triticum aestivum*	High Zinc content – **WB-02**(*42ppm*) High protein, iron and Zinc – **Pusa Tejas**(*durum wheat*), **Pusa Ujala** Rust resistant – **Unnat PBW343**, **MACS3949**, **PBW1Zn**(also high Zn content), **HD3171**

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Maize *Zea mays*	Baby corn hybrid – **Maize VL baby corn** Sweet corn – **Hi-brix-39** Multiple disease resistance – **HTMH 5402**, GK-3150 QPM hybrid developed through MAS-> **Pusa HM-8 Improved**, **Pusa HM-9 Improved** and **Pusa HM-4 Improved** ***Pusa Vivek QPM-9*** Improved -> enhanced tryptophan(74%), Lysine(60%) and high protein (3.62%)
Sorghum *Sorghum bicolor*	PDKV Kalyani (no leaf diseases and non lodging)
Pearl millet *Pennisetum typhoides*	PBH306(resistant to downy mildew and smut)
Little millet *Panicum sumatrense*	Chattisgarh Kutki 1(rich in Zn and Ca)
Finger millet *Elusine coracana*	Dapoli 2, CO-15
Indian mustard *Brassica juncea*	CS-58, Pant Rai 21
Yellow sarson *Brassica nigra*	Pant Sweta
Toria *Brassica napus*	Pant Hill Toria 1
Soybean *Glycine max*	Raj soya 24, Pant soybean 21
Groundnut *Arachis hypogea*	Central Groundnut ALG06-320, Kadiri Amaravathi, Gujarath Junagadh Groundnut GJG-32
Greengram *Vigna radiata*	Pusa 1371, Pant Mung 8
Lentil *Lens culinaris*	**Pusa Ageti Mansoor** (L4717)
Faba Bean	HFB 1 (High protein of 25%, contain *levo-dopa* precursor of many neurochemicals)
Linseed *Linum usitatissimum*	Indu, Uma, Priyam
Sunflower *Helianthus annus*	Kaveri champ,Prabat
Castor *Ricinus communis*	GNCH-1, YRCH-2
Chickpea *Cicer arietinum*	Meera, Gujarat Gram-5, Nandyal Gram 49, Pant Gram 4, Phule Vikram
Pigeon pea *Cajanus cajan*	Amravati, BDN716
Rajmash/French bean *Phaseolus vulgaris*	Shalimash, Rajmash 2
Cotton *Gossypium hirsutum*	DHB-915, CSH-3129, MR-68
Jute *Corchoris capsularis*	Kisan pat, NCJ-28-10
Suagrcane *Saccarum officinarum*	Revathi, Co 9022, Buddhi 2003 A255

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New Varieties of Fruit crops

Fruit	*Variety*	*Other info*
Guava	CISH-G-14	Half sib of Allahabad safeda, BrixTSS of 12.5
Aonla	CISH-A-33	Large size fruits, rich in neutraceuticals
Citrus	US Pummelo 145, Cutter Valencia and Flame grapefruit	These 3 varieties were introduced
	NRCC Pummelo-5 and NRCC Grapefruit 6	In central India for diversification and processing
Litchi	Gandaki Sampada, Gandaki yogitha, Gandaki Lalima	Gandaki yogitha – suitable for High density planting
Pomegranate	Solapur lal	Table purpose variety, High yield, High Zinc and Iron content
	Solapur Anardana	Suitable for processing
Coconut	Kalpa Shatabdi	High copra out-turn, good tender nut quality
Arecanut	Shatamangala	Suitable for production of dry kernels
Cocoa	Nethra Centura	Highly suitable for chocolate industry

Vegetable, Tuber and Spice crop varieties

Crop	Variety	Features
Brinjal	CARI Brinjal 2	Resistant to bacterial wilt
Tomato	Kashi Adarsh	Rest . to monopartite and bipartite viruses
Ridge gourd	Kashi Shivani	High yielding variety
	Arka Prasan	Early fruiting hybrid 42-45 days
	Arka Vikram	Early fruiting hybrid 46 days
Onion (Red)	Bhima super (kharif)	Maturity in 105 DAT
	Bhima shakti (rabi)	Maturity in 125-135 DAT
Okra	Arka Nikita	Early flowering Okra hybrid(1st picking in 39 days)
Potato	Kufri Mohan	Medium maturity(75-90 days)
Sweet Potato	Bhu Sona	Beta carotene rich, salt tolerant
	Bhu Krishna	Anthocyanin rich 85-90mg/100g
Turmeric	IISR Pragati	Short duration(180 days), nematode tolerant, High yield (35 T/ha) and curcumin content(5%)
Fennel	Fennel-2	High yield(17.9q/ha), moderate resistance to ramularia blight
Isabgol	Vallabh Isabgol-1 and Vallabh Isabghol-2	Early maturity(100days) and improved seed yield

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Budget Highlights 2018-2019- Agriculture

- In General the Budget of 2018-19 was guided by the mission to strengthen agriculture, rural development, health, education, MSME and infrastructure
- The Minimum support price (MSP) for all **unannounced** *kharif* crops will be **1.5** times of their production costs like the majority of *Rabi* crops
- Around 22,000 rural **Haats** to be upgraded to **GrAMs** (Gramin Agriculture Markets) to protect the interests of the 86% Small and Marginal farmers
- The ***Institutional farm credit*** that was 10 Lakh crore in 2017-2018 was raised to **11 Lakh crore in 2018-2019**
- Under the **Pradhan Mantri Krishi Sinchai Yojana**(PMKSY) – *Har ket ko Pani* **96** irrigation water deficit districts would be covered with an outlay of **Rs.2600 Crores**
- Under **Operation Greens** the price fluctuations and availability of Major Vegetables like TOP(**Tomato, Onion and Potato**) to be addressed, with an outlay of **500 Crores** by the **Ministry of food Processing Industries** on the lines of Operation flood(Milk production)
- Organic farming by FPO, VPO's in large clusters to be encouraged (1000ha each) and also SHG's to take up organic agriculture in clusters under National Rural Livelihood programme
- Restructured National Bamboo Mission to get a financial assistance of -> **1290 Crore**, Bamboo is also called the "Green gold"
- New funds of **10,000 crore** was announced for both Fisheries and Animal husbandry sectors
- Allocation of Ministry of Food Processing has been doubled from Rs.715 crore in 2017-18 to **Rs.1400 crore in 2018-19**
- Prime Minister Krishi Sampada Yojana the flagship programme for boosting the food processing sector and state of the art testing facilities to be set up in the **42 Mega Food parks**
- The committee that was appointed on doubling of farmers income-> **Ashok Dalwai committee**
- Seven point strategy for Doubling the farmers income (Ministry of Agriculture)

  1. Increase in Agri. Production *through Pradhan Mantri Krishi Sinchayee yojana* by fast-tracking irrigation projects and watershed development programmes
  2. Effective use of Inputs *via* Soil Health Card, Neem coated Urea, Quality seeds, Fertilizers etc.
  3. Reduction in the Post Harvest losses by warehouses and Integrated Cold chains in rural areas
  4. Value addition of food products through agri processing clusters, *Pradhan Mantri Kisan Sampada Yojana*
  5. Risk, Insurance, Security and Assistance through *Pradhan Mantri Fasal Bhima Yojana*
  6. Various Reforms in Agricultural marketing through e-NAM, APMC reforms and contract farming
  7. Promoting allied agriculture activities *via* use of Integrated farming system with focus on bee keeping, horticulture and livestock

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- Central government has established a Dairy Infrastructure Development Fund (**DIDF**) at a cost of **Rs.10,881 crore** from the period 2017-18 to 2028-29
- Ministry of Agriculture and Farmers welfare have launched a **3000 crore Umbrella scheme** called "*Blue revolution: Integrated Development and Management of Fisheries*" by merging existing schemes
- The scheme comprises of Inland fisheries, aquaculture, marine fisheries and all activities of National Fisheries Development Board(NFDP)

Statistics and Related facts

- Percentage share of horticultural output in Indian Agriculture –> **30%**
- During 2017-18 the production of horticultural crops was about **305.42** million tons(MT) from an area of **24.9 million hectares** with productivity of **12.3MT/ha**
- The production of Vegetables stand at **175 million tonnes** in 2016-2017
- India is **second** largest producer of fruits in the world
- India stands **first** in production of -> Mango, Banana, Sapota, Pomegranate and Aonla
- As of 2017-18 (1st estimate) area under Fruit crops -> **6.4 million hectare** , with total production of **94.8 MT**
- Per capita availability of fruits (2016-17) -> **201 gm/person/day**
- India is the **second** largest producer of vegetables after China
- India stands first in prodn of -> **Peas and Okra**
- India stands **second** in prodn. Of -> Brinjal, Cabbage, Cauliflower and Onion
- India stands **third** in prodn. Of ->Potato and Tomato
- As of 2017-18 (1st estimate) area under vegetables-> **10.1 million hectare**, with total production of **180.7 MT** and average productivity of **17.8 tonnes/ha**
- Per capita availability of vegetables since 2016-2017 ->**385gm/person/day**
- Floriculture during 2017-18(1st estimates) covered an area of **0.31 million ha** with a production of 1.81 m. MT of loose flowers and **0.7 m. MT**
- India is the largest producer, consumer exporter of spices and spice products
- Total production of spices during 2017-18(1st estimate) was **8.2 m.MT** from an area of **3.71m. ha**
- India's rank in milk production in the world -> **1st**
- Contribution of India to worlds total milk production -> **19%**
- Milk production in 2015-2016 stood at -> **155.49 mt**
- As per 4th Advance estimates in 2016-17 record kharif food grain production of -> 138.52 million tones
- As per 1st Advance estimates during 2017 kharif foodgrains was -> 134.67 MT
- Total area, production and productivity of oilseeds during 2016-17 -> **26.2 Million hectare**, **32.10 Million tones** and **1225kg/ha**(highest productivity ever) respectively
- Currently, India is the second largest producer of fruits and vegetables in the world, and a top producer of crops like banana, mango and lemons
- Total Geographical area of the country -> **328.7 million hectare**

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- Net sown area in India -> **140 million hectare**(*ie* 43% of total geographical area)
- Gross cropped area -> **198.4 million hectare**
- Cropping Intensity -> **142%**
- Net Irrigated Area ->**68.4 million hectare**
- According to Central Statistical Office estimates Agriculture and allied sectors contributed approximately 17.4% of India's GVA(Gross Value Added) at current prices during 2016-2017
- The agriculture credit flow for 2017-18 has been fixed at Rs.10,00,000 crore
- Out of total geographical area of 328.7 million hectare (m.ha), about **120.4 m.ha(37%) is affected by land degradation**
- Water and wind erosion (94.9 m.ha), water logging (0.9 m.ha), soil alkalinity/ sodicity (**3.7 m.ha),** soil acidity (**17.9 m.ha**), soil salinity (**2.7 m.ha)** and mining and industrial waste (0.3 m.ha)
- As per available estimates (ICAR-2010), the area under problem soils is about **243 lakh hectare**., comprising **alkali soil (37.00lakh ha.)**, **saline soil (27.3 lakh ha.)** and **acid soil (179.3 lakh ha.)**
- First comprehensive Agriculture Census was carried out in the country with Agricultural Year 1970-71 as the reference year
- The *current Agriculture Census* 2015-16 is **tenth** in the series
- Agricultural Produce and Livestock Marketing (Promotion & Facilitation) Act, **2017**
- The World Food Programme (WFP) was set up in 1963 jointly by the United Nations and Food & Agriculture Organization
- World Food Day (WFD) was celebrated throughout the country on **16th October, 2017** , theme of WFD was "Change the future of migration**: Invest in food security and rural development**."

Production and Area of Important crops 2016-2017

Sl.No	Crop	Area(Lakh hectare)	Production(Million tonnes)	Remark
1.	Rice	431.94	110.15	New Record production
2.	Wheat	305.97	98.38	New Record production
3.	Sugarcane	43.89	306.72	-
4.	Coarse cereals	247.71	44.19	New Record production
5.	Cotton	108.45	33.09*	
4.	Total pulse production	294.65	22.95	New Record production
5.	Total food grain production	1280.26	275.68	New Record production
6.	Total oilseed production	262.06	32.10	-
7.	Jute and Mesta	7.66	10.60#	-

*Cotton production in million bales (1 bale of cotton -> 170kg each) ,# Production in million bales (1 bale of jute/mesta -> 180kg each)

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CACP and MSP

- The CACP was set up with a view to evolve a balanced and integrated price structure
- It is mandated to advise on the price policy (MSP) of **23 crops**
  Seven cereal crops -> *paddy, wheat, jowar, bajra, maize, ragi and barley*
  Five Pulse Crops -> *gram, tur, moong, urad and lentil*
  Seven oilseed crops -> *groundnut, sunflower seed, soybean, rapeseed-mustard, safflower, nigerseed and sesamum*
  Others -> *Copra* (Dried coconut), *Cotton, Raw jute, Sugarcane*
- The Government announces the Minimum Support Price for **22 Major crops** and Fair and Remunerative Price(**FRP**) for sugarcane as per recommendation of CACP , that is fixed at Rs.255/quintal for 2017-18

MSP of Kharif and Rabi Crops for 2017-2018

Kharif crops

Sl.no	Crop Name	Minimum Support Price (Rupees Per **Quintal**)
1.	Paddy(Common)	1550
	Paddy(Grade A)	1590
2.	Jowar/Sorghum (Hybrid)	1700
	Jowar/Sorghum(Maldandi)	1725
3.	Bajra/Pearlmillet	1425
4.	Maize	1425
5.	Ragi	1900
6.	Cotton(Medium staple)	4020
	Cotton(Long staple)	4320
7.	Arhar / Pigeon pea	5450
8.	Moong /Green gram	5575
9.	Urad/Black gram	5400
10.	Sunflower seed	4100
11.	Sesamum	5300
12.	Niger seed	4050
13.	Groundnut in shell	4450
14.	Soyabean	3050

Rabi Crops

Sl. No	Crop	MSP(per quintal in rupees)
15.	Wheat	1735
16.	Barley	1410
17.	Gram	4400
18.	Lentil/Masur	4250
19.	Rapeseed/Mustard	4000
20.	Safflower	4100

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Other crops

Sl.No	Crop	MSP
21.	Copra (Dried Coconut)	
	FAQ variety of Milling Copra	6500
	FAQ variety of Ball Copra	6785
22.	Raw Jute	3500
23.	Toria (2018-19)	3900

Agri-related Schemes

Pradhan Mantri Krishi Sinchayee Yojana(PMKSY)

- Approved with an outlay of 50,000 crore from 2015-16 to 2019-20
- Objectives ->
  - ✓ achieve convergence of investments in irrigation at the field level
  - ✓ expand cultivable area under assured irrigation
  - ✓ improve on-farm water use efficiency to reduce wastage of water
  - ✓ enhance the adoption of precision-irrigation and other water saving technologies **(More crop per drop)**
  - ✓ enhance recharge of aquifers and introduce sustainable water conservation practices by exploring the feasibility of reusing treated municipal waste water for peri-urban agriculture and attract greater private investment in precision irrigation system
  - ✓ to create protected irrigation by using rainwater by "Jal Sanchay" and "Jal Sinchan"
- Mission administered by Ministry of water resources, River Development and Ganga rejuvenation with Per Drop More crop component by Department of Agriculture, Cooperation and Farmers welfare
- PMKSY was formed after amalgamating the following schemes
  - ✓ AIBP(Accelerated Irrigation Benefit Programme) of Ministry of water resources
  - ✓ River Development & Ganga Rejuvenation (MoWR,RD&GR)
  - ✓ Integrated Watershed Management Programme (IWMP) of Department of Land Resources (DoLR)
  - ✓ On Farm Water Management (OFWM) of Department of Agriculture and Cooperation (DAC)
- As of 31st December 2017 an area of 4.97 lakh hectare has been covered under micro-irrigation and 39808 water harvesting structures have been constructed

Interest subvention Scheme of Dept.of Agri and Farmers welfare

- Interest subvention on Short term loans to farmers Upto Rs.3 Lakh for one year

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- To farmers a subvented interest rate of 7% per annum and if in case of timely repayment the interest rate is further reduced to 4% per annum

Crop Insurance scheme

- In 2016 the Pradhan Mantri Fasal Bhima Yojana(PMFBY) was approved for implementation from Kharif 2016 along with UPIS and RWBICS
- UPIS -> Pilot Unified Package Insurance Scheme
- RWBCIS -> Restructured Weaher Based Crop Insurance Scheme
- Under PMFBY a uniform maximum premium pan-India
    - ✓ **2%** for all Kharif crops
    - ✓ **1.5%** for all Rabi crops and
    - ✓ **5%** for all annual commercial and horticultural crops to be paid by the farmer
- Balance of the premium amount is to be paid equally by Central and state Governments to provide full insured amount to farmers against crop loss on natural calamities
- Non-Preventable risks like Natural Fire, Storm, Hailstorm, Cyclone and Inundation has been included as a localized calamity, post Harvest losses also been covered
- Cluster approach to be adopted under which a group of districts with variable risk profile will be allotted to an insurance company
- The expenditures of PMFBY will be funded through "Krishi Kalyan Kosh" in which money obtained through Krishi Kalyan Cess is credited

National Food Security Mission

- NFSM was launched in 2007-08 to basically increase rice , wheat and pulse production by 10, 8 and 2 MT respectively by the end of 11th Five year Plan
- NFSM continued further upto the 12th FYP with a new target of 25MT by end of the 12th FYP
- As of 2017-2018 the NFSM is being implemented in **638 districts of 29 states** into components –
    - ✓ **NFSM-Rice**(in 194 districts of 25 states)
    - ✓ **NFSM-Wheat** (in 126 districts of 11 states)
    - ✓ **NFSM-Pulses**(638 districts of 29 states)
    - ✓ **NFSM-Coarse cereals**(265 districts of 28 states except Goa)
- Basic strategy of NFSM-> Promote and extend improved technologies *ie* seed, micronutrients, farm implements and machinery, soil amendments, IPM, Irrigation devices along with the capacity building of farmers
- Major activities under NFSM
    - ✓ Cluster demonstration of rice, wheat, pulses and coarse cereals (through KVK's)
    - ✓ Distribution of hybrids/improved variety seeds
    - ✓ Need based inputs
    - ✓ Resource conservation techniques/energy management
    - ✓ Efficient water/application tools

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- ✓ Cropping system based trainings and local initiatives

- *Funding of NFSM* – Till 2014-15 NFSM was implemented on 100% Central assistance. Since 2015 -16 the funding is implemented on **60:40 basis** (Central:State Govt) in general and **90:10** in case of North Eastern and 3 Himalayan states

Bringing Green Revolution to Eastern India (BGREI)

- A **sub-scheme** of Rashtriya Krishi Vikas Yojana(**RKVY**) that was initiated in **2011**
- Main objective to -> *Address Constraints that limit the productivity of "Rice based Cropping Systems" in Eastern India*
- It comprised of **7 states** -> Assam, Bihar, Chhattisgarh, Jharkhand, Odisha, Eastern UP and West Bengal
- Major activities under BGREI –
  - ✓ Block demonstrations of rice and wheat in cluster mode
  - ✓ Asset building activities like building of shallow tube wells, Bore wells
  - ✓ Need based site specific activities eg: renovating irrigation channels, electricity for agri purpose
  - ✓ Marketing support also included

- Funding -> Since 2015-16 it is being implemented in 60:40 basis (Central:State) and 90:10 basis in Assam
- Fund of Rs. 450Crore as central share has been earmarked for implementation during 2017-18

Mission for Integrated development of Horticulture

- MIDH was launched in the 12th plan, effective from the year 2014-15
- MIDH was formed by subsuming the following schemes on Horticulture-
  - (i) National Horticulture Mission (NHM)
  - (ii) Horticulture Mission for North East and Himalayan States (HMNEH)
  - (iii) National Bamboo Mission (NBM)
  - (iv) National Horticulture Board (NHB)
  - (v) Coconut Development Board (CDB)
  - (vi) Central Institute of Horticulture (CIH), Nagaland
- During 2017-18 a budget of Rs.2329.13 Crore was earmarked for MIDH
- NHM -> Launched in the year 2005-06 aimed at holistic development of Horti sector by ensuring forward and backward linkages through cluster approach with active participation of stake holders.
- Horticulture Mission for North East and Himalayan States (HMNEH)-> Earlier called as "Technology Mission for Integrated Development of Horticulture in North Eastern States" launched in 2001-02 and in 2003-04 was extended to 3 Himalayan states- Himachal Pradesh,

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Uttarakhand and J&K. It covers entire spectrum of horticulture activities from planting to consumption with backward and forward linkages, it was subsumed under MIDH from 2014-15.

- National Agro Forestry & Bamboo Mission (NABM) -> National Bamboo Mission (NBM) was a Centrally Sponsored Scheme of DAC&FW w.e.f. 2006-07 across the country except Haryana. It was subsumed under MIDH during 2014-15 and renamed as **National Agroforestry & Bamboo Mission** (NABM) in July, 2015
- National horticulture Board(NHB) -> NHB was established in the year **1984** by the Government of India. It is an autonomous organization with headquarters at **Gurugram** and 35 field offices.Its broad objectives are Creation of production hubs for commercial horticulture development, post harvest infrastructure and cold chain facilities, promotion of new crops, and promotion of growers' associations
- Coconut Development Board (CDB) -> Situated at Cochin. It is a statutory body established by Govt. of India under the Coconut Development Board Act 1979 and came in to existence in January 1981. India is the largest producer of coconut in the world and occupies a 31% of global production. Many sub-schemes Coconut Palm Insurance Scheme, KeraSuraksha Insurance scheme, Technology Mission for Coconut etc come under the CDB.

National Mission on Oilseeds and Oil Palm (NMOOP)

- It is a Centrally Sponsored Scheme considering the importance of Oilseeds for encouraging cultivation oilseed crops, Oil Palm and Tree Borne Oilseeds
- It is implemented from 2014-2015
- It comprises of three Mini Missions(MM) ->
    - ✓ Oilseeds(MM-I) in 27 states
    - ✓ Oil Palm (MM-II) in 13 states
    - ✓ TBOs (MM-III) in 10 states
- Funding on shared basis ie 60:40 (Centre:State) for General States and 90:10 for North Eastern and Himalayan states
- MiniMission-I (oilseeds) -> Scheme implemented through State department of Agriculture Financial assistance for –
    - ✓ **Seed Components** (production & distribution of certified seeds & minikits, variety specific targeted seed production)
    - ✓ **Inputs** (Plant Protection Equipments/eco friendly, light-trap, Biopesticides, Distribution of Micro-nutrients, bio-fertilizers, improved farm implements, pipes, sprinklers, seed storage bins, seed treatment drums)
    - ✓ **Transfer of Technology** through Block demonstrations, Frontline Demonstrations (FLDs), farmers and extension workers training
- Mini Mission-II (Oil Palm) -> Oilpalm is the highest vegetable oil yielding perennial crop. With good management it yields 20-30 MT Fresh Fruit Bunches(FFB) per hectare and further 4-5MT of palm oil and 0.4 to 0.5 MT palm kernel oil

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- Mini Mission-III - Tree Borne Oilseeds (TBOs) -> Assistance is given to TBOs namely Simarouba, Neem, Jojoba, Karanja, Mahua, Wild apricot, Cheura, Kokum, Tung and Olive having capability to grow and establish in varied agro-climatic conditions as well in the waste land of the country

National Mission for Sustainable Agriculture (NMSA)

- It is one of the eight missions under National Action Plan on Climate Change (NAPCC)
- It aims at making agriculture more productive, sustainable, and remunerative and climate resilient
- It was made operational from the year 2014-15
- Major components of NMSA are – 1)**RAD** and 2)**SHM**
- RAD -> stands for **Rainfed Area Development**, it focuses on Integrated Farming System (IFS).In this system cropping system is integrated with activities like horticulture, apiculture, fishery for not only farm returns for sustenance but also mitigating extreme weather conditions like drought, flood etc.
- SHM -> stands for **Soil Health Management**, it is aimed at promoting location and crop specific sustainable soil health management including residue management, organic farming practices linking soil fertility maps with macro-micro nutrient management, appropriate land use based on land type.
- Under the framework of NMSA a dedicated Sub-Mission on Agroforestry (**SMAF**) was approved in 2016-17 with outlay of 935 crore for a 4 year period
- Climate Change Sustainable Agriculture Monitoring, Modelling and Networking (CCSAMMN) component of NMSA funds projects oriented to various climate change adaptation practices in Agriculture
- Paramparagat Krishi Vikas Yojana (PKVY) is a scheme under NMSA to promote certified Organic cultivation in 2Lakh hectares covering 10,000 clusters. Financial assistance of Rs.50,000 crore per hectare per farmer to be provided in 3 years

Mission Organic Value Chain Development for North Eastern Region

- Central sector scheme to utilize the potential of organic farming in the North Eastern Region of the country
- Implemented states -> Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim and Tripura from 2015-16 to 2017-18
- Financial outlay of Rs. 400 crores for 3 years
- Objectives -> Aims at development of certified organic production in a value chain mode to link growers with consumers creating an entire value chain starting from inputs, seeds, certification, to the creation of facilities for collection, aggregation, processing, marketing and brand building initiative

Reclamation of Problem Soils (Alkali/ Saline & Acid)

- It is a sub Scheme of Rashtriya Krishi Vikash Yojana (RKVY) on Pilot basis in 15 States

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- Objective to sustain soil fertility and productivity of problematic soil
- In 2017-2018 an amount of Rs. 30 crore has been allocated as Central share for this programme

National Mission on Agricultural Extension and Technology (NMAET)

- Sub Mission on Agricultural Extension (SMAE) under NMAET is currently implemented
- SMAE aims to appropriately strengthen, expand and upscale existing Extension & Information Technology (IT) Schemes
- Support to State Extension Programmes for Extension Reforms (ATMA) implemented since 2005 is now a component of SMAE
- ATMA at district level, is an institutional arrangement for dissemination of technology and promotes decentralized farmer-driven and farmer accountable extension system
- MASS MEDIA SUPPORT TO AGRICULTURAL EXTENSION-> The Prasar Bharati, a 'National Public Service Broadcaster' is implementing this scheme, Objective of the scheme is to enhance and boost the Agriculture Extension system in the present scenario
- ESTABLISHMENT OF AGRICLINICS AND AGRI-BUSINESS CENTRES (AC&ABC)
    - ✓ AC&ABC is under implementation since April, 2002
    - ✓ Aims at creating gainful self-employment opportunities to unemployed agricultural graduates, agricultural diploma holders, post grad for agri devpmt and extension
    - ✓ Training component under the scheme is through **MANAGE** via Nodal Training Institutes(NTI's)
    - ✓ **NABARD** is implementing the subsidy component under the scheme on the behalf of GoI and is monitoring credit support to Agri-Clinics and Agri-Business Centres through Commercial Banks.
- KISAN CALL CENTERS (KCC)
    - ✓ It was launched on 21st January 2004
    - ✓ To provide answer to farmers' queries on agriculture and allied sectors through toll free telephone lines
    - ✓ **'1800-180-1551'** Toll free KCC number
- Extension training institutions -> National Institute of Agricultural Extension Management (MANAGE) at Hyderabad, and Four Extension Education Institutes namely Nilokeri (Haryana), Rajendranagar, Hyderabad (Telangana), Anand (Gujarat), Jorhat (Assam)

Seed : Sub Mission on Seed and Planting Material (SMSP)

- Under Centrally Sponsored Scheme "National Mission on Agricultural Extension and Technology (NMAET)
- Objectives -> to develop/ strengthen seed sector and to enhance production ,multiplication of high yielding certified/ quality seeds of all agricultural crops and making it available to the farmers at affordable prices and also place an effective system for protection of plant varieties, rights of farmers and plant breeders to encourage development of new varieties of plants.

Sub Mission on Agricultural Mechanization (SMAM)

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- It was launched in the year 2014-15
- To increase the availability of farm power from 1.841 kW per ha (2012-13) to 4.0 kW per ha by the end of 2030 to cope up with increasing demand of food grains

Sub Mission on Plant Protection and Plant Quarantine (SMPP)

- Aim - to minimize loss to quality and yield of agricultural crops from the ravage of insect pests, and to shield our bio-security from the incursions and spread of alien species.
- It has 4 Important components-
    - ✓ (i) Strengthening and Modernization of Plant Quarantine Facilities (SMPQF)
    - ✓ (ii) Strengthening and Modernization of Pest Management Approach (SMPMA)
    - ✓ (iii) Monitoring of Pesticide Residues at National Level (MPRNL)
    - ✓ (iv) National Institute of Plant Health Management (NIPHM)
- NIPHM is located at Hyderabad, NIPHM in collaboration with MANAGE is implementing the District Pest Management Plan (DPMP) which is district specific.

National Crop Insurance Programme (NCIP)

- The first Agriculture Insurance Scheme, National Agricultural Insurance Scheme (NAIS) was notified/ implemented with effect from 1999
    - ✓ Weather Based Crop Insurance Scheme (WBCIS) in Kharif 2007
    - ✓ Coconut Palm Insurance Scheme (CPIS) in Kharif 2010
    - ✓ Modified NAIS (MNAIS) in Rabi 2011
- National Crop Insurance Programme (NCIP)was formed by merging the above three programmes and was started from Rabi 2013-14 but due to some issues NAIS was also allowed still 2015-16
- Currently PMFBY has been approved for implementation from kharif 2016 along with UPIS(pilot Unified Package Insurance Scheme), Restructured Weather Based Crop Insurance Scheme (RWBCIS) and Coconut Palm Insurance Scheme (CPIS)
- PMFBY & RWBCIS are being implemented in the country on 'Area Approach' basis and weather data of notified Reference Automatic Weather Stations (AWSs) under RWBCIS are taken as one unit for payment of claims for calamities

Market Intervention Scheme and Price Support Scheme (MIS-PSS)

- Under this scheme NAFED, Central Warehousing Corporation, National Consumer Cooperative Federation of India and Small Farmers' Agro Business Consortium have been designated as Central agencies to undertake procurement ***of Oil seed and Pulses under price support scheme*** and also work to provide remunerative prices to farmers for their produce.

Rashtriya Gokul Mission

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- It aims to conserve and develop indigenous breeds in a focused and scientific manner.
- It comes under the National Programme for Bovine Breeding and Dairy Development.

Objectives :

- ✓ Development and conservation of indigenous breeds;
- ✓ Undertake breed improvement programmes for indigenous cattle
- ✓ breeds so as to improve the genetic makeup and increase the stock;
- ✓ Enhance milk production and productivity;
- ✓ Distribute disease free high genetic merit bulls for natural service.

- The implementation of the Mission will be under the purview of the State Implementing Agency(SIA viz Livestock Development Boards).
- Establishment of Integrated Indigenous Cattle Centres *ie* "Gokul Gram"is also an objective

Project CHAMAN

- CHAMAN stands for -> **Coordinated Horticulture Assessment and Management**
- **OBJECTIVE** -> The ministry will use remote sensing and geoinformatics data to integrate information on weather, soil, land-use, and crop mapping to prepare horticulture development plans *ie* to provide strategic development to the horticulture sector
- It is being implemented by the Delhi-based **Mahalanobis National Crop Forecast Centre**
- The project will help states develop horticulture clusters and related infrastructure like cold chains

Soil Health Card Scheme

- SHC scheme was launched in the year 2015 at Rajasthan
- Soil Health Card is issued once in every 3 years to a farm containing details of Nutrient status in soil
- Parameters analyzed in soil samples -> pH, EC, O.C
- Soil Nutrients analyzed -> N, P, K, S, B, Cu, Fe, Mn, Zn
- Crop wise recommendation of appropriate dosage of the fertilizers and nutrients to be used
- In the first phase of the scheme (2015-17), 100 million soil health cards have been distributed
- The scheme is being implemented in collaboration with State Governments with 50:50 fund sharing pattern

RKVY-RAFTAAR

- RKVY stands for Rashtriya Krishi Vikas Yojana
- RKVY is a centrally sponsored scheme
- It has been approved by the Govt. to continue as RKVY-RAFTAAR(Remunerative Approaches for Agriculture and Allied sector Rejuvenation) for a period of 3 years 2017-18 to 2019-20

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- Funding on the lines of 60:40 (Central:State) and 90:10 (Central:State) for North Eastern States and Himalayan States
- Preparing District and State Agriculture plans is mandatory under this scheme, also it helps in creation of agri-infrastructure and in promotion of agri-entrepreneurship
- The scheme is to incentivize states in increasing funding to Agriculture and allied sectors, and further enabling the sector to achieve the targeted growth rate of 4%
- Sub-schemes under RKVY include: ->

I. Bringing Green Revolution to Eastern India (BGREI)
II. Additional Fodder Development Programme (AFDP)
III. Saffron Mission
IV. Crop Diversification Program
V. Livestock Health & Disease Control / Foot & Mouth Diseases (FMD)
VI. Beekeeping
VII. Targeting Rice Fallow Areas (TRFA)

Integrated Scheme for Agricultural Marketing (ISAM)

- It came into effect from 01.04.2014
- It has six sub schemes ->
    1. Agricultural Marketing Infrastructure (AMI)
    2. Marketing Research and Information Network (MRIN)
    3. Strengthening of Agmark Grading Facilities (SAGF)
    4. Training, Research and Consultancy through *Choudhary Charan Singh National Institute of Agricultural Marketing* (NIAM)
    5. Agribusiness Development through Venture Capital Assistance (VCA) and Project Development Facility
    6. National Agriculture Market (e-NAM)
- AMI, MRIN and SAGF is implemented by Directorate of Marketing & Inspection (DMI)
- Agri. Business development through VCA and eNAM is being implemented by -> Small Farmers AgriBusiness Consortium (SFAC), New Delhi
- **AMI**
    - ✓ The erstwhile two schemes of DAC&FW Grameen Bhandaran Yojana (GBY) implemented since 01.04.2001and Scheme for Development/Strengthening of Agricultural Marketing Infrastructure, Grading & Standardization (AMIGS) implemented since 20.10.2004 were subsumed to form AMI scheme
    - ✓ AMI has been implemented since 01-04-2014
    - ✓ Under AMI sub-scheme, there are two components (i) Storage Infrastructure (ii) Marketing Infrastructure other than Storage
    - ✓ Objective -> to develop agricultural marketing infrastructure for effectively managing marketable surplus of agriculture including horticulture and allied sectors, and promoting superior technologies, creation of storage facilities etc.
- MRIN

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- ✓ It was launched as Central Sector Scheme in March, 2000
- ✓ Objective -> To collect and disseminate information on price, arrival and other market related data for the benefit of farmers and other market users
- ✓ DMI implements the scheme in collaboration with Agricultural Marketing Boards/Directorates, APMC and NIC

- Strengthening of Agmark Grading Facilities (SAGF)
  - ✓ The Agricultural Produce (Grading and Marking) Act, 1937 provides for the grading and marking of agricultural produce
  - ✓ This programme requires analysis of check samples and research samples in Agmark Laboratories
  - ✓ SAGF scheme aims to meet the expenditure for the purchase of equipment, chemicals, glassware and apparatus for labs and also for renovation and repair works in labs
  - ✓ Central Agmark Laboratory is located at Nagpur
- National Institute of Agricultural Marketing (NIAM)
  - ✓ Was set up as a registered society in 1988
  - ✓ To offer specialized training, research, education and consultancy in the field of Agricultural Marketing
  - ✓ NIAM is situated at Jaipur, Rajasthan
- Small Farmers' Agribusiness Consortium (SFAC)
  - ✓ It was set up as a registered society on 18 January, 1994
  - ✓ The members of SFAC include RBI, SBI, IDBI, EXIM Bank, Oriental Bank of Commerce, NABARD, Canara Bank, NAFED etc.
  - ✓ SFAC implements Venture Capital Assistance (VCA) to projects that promotes linkages with farmers for procurement of their produce as raw material, provides rural employment and term loans sanctioned by notified financial institutions
  - ✓ SFAC was mandated by Department of Agriculture, Cooperation and Farmers Welfare, Government of India to support State governments in formation of Farmer Producer Organizations (FPOs)

eNAM

- It is a pan India electronic trading portal deployed in selected regulated wholesale markets in reformed States across the country
- Farmers can showcase their produce online from their nearest market and traders can quote price from anywhere
- In eNAM platform common tradeable parameters have been developed for **90 commodities**
- Willing states enact suitable provisions in their APMC act for integration with the e-platform
- Under e-National Agriculture Market 585 wholesale regulated markets are proposed to be linked by 31 March 2018

e-RAKAM PORTAL

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- Launched by the Govt. for helping farmers in selling their agricultural produce.
- The portal is a joint initiative of MSTC Ltd.(a mini ratna company) and Central Railside Warehousing Company
- It is launched to help farmers get reasonable price for their produce and not get cheated by middlemen as well as to save the effort involved in transporting the produce to the mandis

e-KRISHI SAMVAD

- It was recently launched by the Union Agriculture and Farmers Welfare Minister
- It is an interface for farmers and other stakeholders in the agricultural sector
- Through this interface farmers can directly approach ICAR with their problems and get remedial measures from specialists through SMS

AGRI UDAAN-FOOD and Agribusiness accelerator 2.0

- Launched by ICAR-NAARM and IIM-A's incubation centres
- It focuses on catalyzing scale-up Food & Agribusiness start-ups through rigorous mentoring, industry networking and Investor pitching
- Main objective is to **attract rural youth** and train them to **add value to agriculture and farmer's produce**

MISSION FINGERLING

•It aims to achieve enhanced fish production in the country to further meet the targets under the Blue revolution by 2020-21.
• Under this mission potential states will be identified to strengthen the fish seed infrastructure and to facilitate the establishment of hatcheries and Fingerling rearing pond.

RASHTRIYA GOKUL MISSION contd…

- Chief objective of conservation and development of indigenous breeds in a focused and scientific manner
- The mission comes under the National Programme for Bovine Breeding and Dairy Development
- The mission is being implemented through —*State Implementing Agencies* (SIA) through Livestock
  Development Boards
- It is implemented via ->
  - ✓ Establishing "Gokul Grams " *ie* Integrated Indigenous centres
  - ✓ Farmer award -> Gopal Ratna and to Breeder societies "Kamadhenu"
  - ✓ Establishing Breeder's societies called "Gopalan Sangh"
  - ✓ Providing assistance to institutes that provide superior germplasm to farmers

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National Dairy Plan-I

- Central sector multi-state scheme implemented from 2011-12 to 2018-19
- Objectives of NDP- I ->
    - ✓ Help increase productivity of milch animals and further the production of milk to meet the increase demands of milk
    - ✓ To increase accessibility of rural milk producers to the organised milk-processing sector
- The scheme focuses on development and conservation of indigenous breeds of cattle and buffalo by progeny testing and pedigree selection programme with special focus on the following breeds
    - ✓ 6 indigenous breeds of cattle (Gir, Sahiwal, Rathi, Kankrej, Tharparkar and Hariana)
    - ✓ 6 buffalo breeds (Murrah, Mehsani, Jaffarabadi, Nili Ravi, Pandharpuri and Banni)
- It focuses on 18 major milk producing states that accounts for 90% of the country's milk production

AGRICULTURE PIB FACT COMPILATION -2018

- KUSUM scheme **Kisan Urja Suraksha evam Utthaam Mahabhiyan** to be implemented by the Govt for providing Solar water pumps to farmers and also in selling surplus solarpower to DISCOM
- International Day of Forests is observed on **March 21st** everyear, Theme of this year 2018 was " **Forest and Sustainable Cities**"
- **Pt Deendayal Upadhyay Krishi Vigyan Protsahan Award- 2017** was given to Dr. S K Patil, vice chancellor of IGKV in Raipur, and Birbal Sahu, coordinator of Kanker Krishi Vigyan Kendra
- Krishi Vigyan Kendra of **Kanker district of Chhattisgarh** was named best agri science centre
- A **Centre for Agriculture**, with collaboration of Israeli expertise, is going to be inaugurated in Mizoram on March 7, 2018 and is exclusively for **processing of citrus fruits**
- India and Nepal signed MoU to promote cooperation in agricultural science and technology, agricultural production and agro-processing
- Agriculture sector grew at 4.1 percent from 2.7 percent in the previous quarter in the Q3 of the current fiscal year
- NABARD's authorized capital was raised to **Rs30,000 crore** by the Government
- Government has approved a **Rs 1,151 crore scheme** to tackle air pollution in Punjab, Haryana and Uttar Pradesh and NCT of Delhi via **in-situ** (in the farm itself) management of crop residue
- Theme of Krishi Unnati Mela held at New Delhi -> **Doubling farmers income by 2022**
- Zero Budget Natural Farming (**ZBNF**) project has been launched by the Himachal Pradesh government , by the Governor of Himachal Pradesh, Mr Acharya Devrat It was officially launched on 29th January 2018
- **Urea Subsidy Scheme** has been approved by Cabinet Committee on Economic Affairs from 2017 upto 2020 at cost of Rs. 1,64,935 crore and also implementing DBT(Direct Benefit Transfer) for disbursing the fertilizer subsidy

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- Department of Atomic Energy (DAE) & Bhabha Atomic Research Centre (BARC) in particular is engaged in extensive research on use of radiation processing for extending **shelf life of food products**
- DAE has developed **42** new varieties of crops using radiation induced mutation and conventional breeding methods
- 10th edition of Global Forum for Food & Agriculture was held in **Berlin, Germany** from 18th - 20th January 2018
- Fourth ASEAN-India Ministerial Meeting on Agriculture and Forestry (**AIMMAF**) was held on 12th January 2018 in **New Delhi, India**
- Cabinet approves MoU between India and Iran in agriculture and allied sectors
- **National Banana Festival 2018** was held in **Thiruvananthapuram, Kerala**
- **Jackfruit** declared as Kerala's official fruit
- **India-Russia Agriculture Business Summit** was held in **New Delhi** it organized by the Ministry of Agriculture & Farmers Welfare
- 'Agricon 2018' and 'Agriexpo 2018' was held at **Chandrashekhar Azad University of Agriculture & Technology (CSAUT), Kanpur, Uttar Pradesh**
- 4th ASEAN-India Ministerial Meeting on Agriculture and Forestry held in New Delhi
- 10th Global Forum for Food and Agriculture (GFFA) held in Berlin its theme was **"Shaping the Future of Livestock – sustainably, responsibly, efficiently"**
- India ranks **177** on Environment Performance Index 2018
- As per ISFR 2017, Forest and tree cover in India is 802088 sq km i.e. **24.39 per cent** of the total geographical area, it ranks **10th in terms of forest and tree cover**
- Indian Council of Agricultural Research (ICAR) and Ministry of Agriculture and Rural Development of Vietnam signed a work plan for the years 2018-2022
- Central Government has sanctioned **Rs 1500 crore** to promote organic farming in Uttarakhand.
- Union Ministry of Skill Development and Entrepreneurship (MSDE) and Union Ministry of Agriculture and Farmers' Welfare have signed a memorandum of understanding (MoU) to conduct skill development training programmes for agriculture and allied sector.
- **Union Environment Minister Harshvardhan** launched '**Mihir**', a **2.8 PetaFlops capacity** high-performance computer system in Noida, to predict weather and climate accurately and to solveissues related to Agriculture
- On 27th January 2018, noted agricultural scientist **Gurcharan Singh Kalkat** passed away
- **CHAMAN** --> Co-ordinated Horticulture Assessment and Management Using geoinformatics
- States of Punjab, Uttar Pradesh, Rajasthan, Haryana, Uttarakhand, Jharkhand have been recognized by the govt as non-traditional states for banana cultivation
- In 2017-2018 a record production of **277.48 mt** of food grains and **305.42 mt fruits and vegetables** have been achieved in the country
- Minister of State for Agriculture and farmers welfare--> **Shri Parshottam Rupala**

- Portal for connecting breeders and farmers of indigenous breeds of cow was launched --> e-Pashu Haat (***www.epashuhaat.gov.in)***

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- **India** is currently the **leading country** in ***coconut production*** and ***productivity*** in the world-->Shri Radha Mohan Singh
- The *theme of ICAR tableau* at its first ever participation in the republic day parade on January 26,2018 was --> **'Mishrit kheti, Khushiyon ki kheti'** ie. Integrated farming system for doubling farm income
- **Grape Hybrid-Pusa Swarnika** --> a hybrid between Hur x Cardinal
- **Brinjal-Pusa Hara Baigan-1** --> the first green coloured oval fruited variety suitable for kharif season under north Indian condition
- **Brinjal - *Pusa Safed Baigan-1*** --> white colored oval round fruited variety suitable for kharif season under north Indian plains
- **Bitter gourd hybrid - *Pusa Hybrid-4*** --> first gynoecious based bitter gourd hybrid developed by ICAR-IARI,New Delhi
- **March 3rd** was celebrated as--> **World wild life day**
- Under Price Support Scheme **(PSS)** of **NAFED** the govt. has doubled the guarantee to **19,000Crore** for procurement of pulses and oilseed from farmers
- National Conference ***"Agriculture 2022 - Doubling Farmers' Income"*** was held at **NASC complex- Pusa, New Delhi**
- Full form of GRAM --> **Gramin Retail Agriculture Market**
- Union Minister of Agriculture and Farmers' Welfare congratulated ICAR for completing **88 glorious years**
- **India** was chosen the host country for **"World Environment Day"** this year on **June 5**
- Recently highly toxic insecticide ***Endosulphan*** and 20 other was banned by the ***Punjab Govt***
- To curb pollution by paddy stubble burning in punjab the Govt. has made attachment of ***Super straw mgmt system*** compulsory to combine harvester machine
- ***Galvanizing Organic Bio-Agro Resources Dhan*** (GOBAR-DHAN) scheme was announced
- GOBAR-DHAN focus on *converting cattle dung, solid waste* into compost, biogas and bio-CNG
- Maharashtra's first Mega Food Park named as **Satara Mega Food Park** at Satara district
- Six new features were added to the **e-NAM platform** (it was launched in 2016)
- India has a total of around **6,800 APMC's** (public-sector markets)
- The ***International Horticulture Innovation and Training Center*** is located in ***Jaipur, Rajasthan***
- An incidence of **yellow rust** was observed at Kurukshetra in Haryana
- India's seed vault is located at ***Chang La*** in the himalayas at 17,300 feet with 5000 accesions
- **CMFRI** launches e-commerce app "**marinefishsales**" that will help fishermen sell fish directly to customers without middle men
- **Women farmers day** to be observed on **15th October** every year as declared by Ministry of Agriculture and Farmers welfare
- **NABARD** chairman - **Harsh Kumar Bhanwala** HQ- Mumbai
- ICICI bank on engaging with the govt. is to enable online payments at **470 mandis** integrated with the national portal of National Agricultural Market eNAM
- An MoU was signed between India and Israel to enhance cooperation in the areas of Agriculture
- **4th ASEAN** Inter ministerial meeting on Agriculture and Forestry was held - **New Delhi**
- **International Day of Rural women** - 15th October theme of this year - Challenges & opportunities in climate-resilient agriculture for gender equality & the empowerment of rural women & girls
- **LDF Mobile App** (Livestock Disease Forewarning Mobile App) was developed by ICAR -NIVEDI, Bangalore
- **2018** is declared as - **National year of Millets** by the Government of India

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IMPORTANT APPS AND PORTALS RELATED TO AGRICULTURE -2018

1. ***M-Kisan*** *portal* – mkisan (mkisan.gov.in), where around 2.5 crore farmers are registered and experts/scientists of different departments like IMD, ICAR, State Government, State Agriculture Universities send information to farmers in local languages.Weather and Market Information are provided to farmers through this portal

2. ***Farmers' portal*** (www.farmer.gov.in) a one stop shop for farmers where a farmer can get relevant information on range of topics including seeds, fertilizer, pesticides, credit, good practices, dealer network, availability of inputs, agromet advisory etc

3. Portal for connecting breeders and farmers of indigenous breeds of cow was launched --> **e-Pashu Haat** (www.epashuhaat.gov.in)

4. An Android based mobile application- '***BHUVAN PDMC***' was developed in collaboration with NRSC, Hyderabad for geo-tagging of intervention/ assets created under PMKSY- Per Drop More Crop and work started.

5. **KisanSuvidha App** - It is an omnibus mobile app to help farmers by providing relevant information to them quickly, it provides information on five critical parameters—weather, input dealers, market price, plant protection and expert advisories

6. **Pusa Krishi App**: This Mobile App "PUSA KRISHI'' has been developed to realize the dream "LAB to LAND" of our Prime Minister. This app will help farmers to get information about technologies developed by IARI, which will eventually help in increasing returns to farmers.

7. **Agrimarket App**- Agri Market mobile App can be used to get the market price of crops in market within 50 km of the devices location.

8. **Shetkari Masik App** – The most popular monthly magazines in the Agriculture sector, under publication since 1965. It is published by Department of Agriculture, Maharashtra

9. **Farm-O-Pedia** - Developed by CDAC, Mumbai. The application is a multilingual Android application targeted for rural Gujarat. The app is useful for farmers or anyone related to agriculture. It is available in English and Gujarati languages.

10. Bhuvan Hailstorm App - A mobile app has been developed to capture crop loss happened due to hailstorm. Agriculture Officer to go to the field with mobile or tablet loaded with this mobile app

11. **Crop Insurance mobile app** - used to calculate the Insurance Premium for notified crops based on area, coverage amount and loan amount in case of loanee farmer. It can also be used to get

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details of normal sum insured, extended sum insured, premium details and subsidy information of any notified crop in any notified area.

12. **Sikkim Horticulture And CashCrop Assistance -** is used for submitting online application for obtaining Departmental assistance by farmers of Sikkim

13. **Pashu Poshan -** Balanced ration is formulated while optimizing the cost considering animal profile, i.e. cattle or buffalo, age, milk production, milk fat, and feeding regime etc

14. **Digital Mandi India -** This App helps in checking the latest Indian agricultural commodities Mandi prices from different states and districts. Easy to use and intuitive, the app enables farmers, traders and all others to know the updated Mandi price from anywhere

15. **MNCFC –** It was developed by National Remote Sensing Centre, ISRO, is useful for field data collection for crop assessment using satellite data under FASAL project of Ministry of Agriculture

Some important institutes and miscellaneous facts

1.Soil and Land Use Survey of India (SLUSI) - Head Quarter office situated at Indian Agricultural Research Institute (IARI) campus, New Delhi. After its inception in 1958,

2. National Rainfed Area Authority (NRAA) was established as an attached office of DAC &FW on 3rd November, 2006. National Rainfed Area Authority (NRAA) was established as an attached office of DAC &FW on 3rd November, 2006.

3. National Seed Research and Training Centre (NSRTC), Varanasi

4. Central Insecticides Laboratory (CIL) is located at Faridabad

5. Locust warning Organization (LWO) was established during 1939 and later merged with directorate of PPQ&S in 1946, its field Headquarters at Jodhpur and Central Headquarter at Faridabad. It has a total of 10 LOC's ie Locust Circle Offices

6. Field Station for Investigation on Locust (FSIL) is situated at Bikaner

7. SFAC was set up as a registered society on 18 January, 1994

8. Directorate of Marketing and Inspection (DMI) set up in the year 1935. The Directorate is headed by the Agricultural Marketing Adviser to the Government of India (AMA). It has its Head Office at Faridabad (Haryana)

9. NIPHM(National Institute of plant Health Management) is located at Hyderabad, Telangana

10.Total Number of Krishi Vigyan Kendras in India (accto ICAR website)-> **690**

11.Total Institutions under the Indian Council of Agricultural Research ->

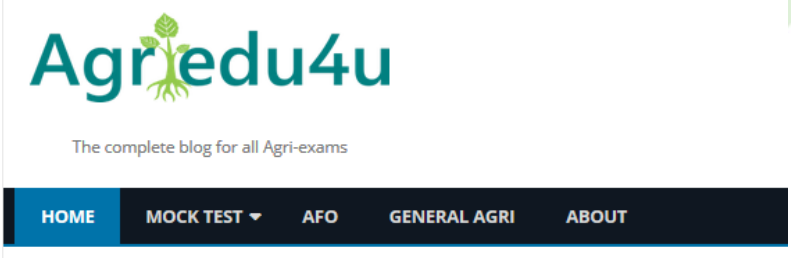
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- ✓ Deemed Universities -> 4
- ✓ Central Institutes -> 64
- ✓ NRC's -> 16
- ✓ National Bureaux -> 6
- ✓ Project Directorates-> 13

12.IIMR Indian Institute of Maize Research Headquarters was shifted from New Delhi to Ludhiana

13.ICAR grabbed the prestigious BGRI(Borlaug Global Rust Initiative) Gene Stewardship award in recognition of outstanding work carried out by Indian wheat Programme in releasing agronomically superior rust resistant varieties and in effective management of wheat varieties

14.KRISHI -> Knowledge based Resources Information Systems Hub for Innovations in agriculture, it is the ICAR Research Data Repository for Knowledge management.



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