

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURAL RESEARCH & EDUCATION

LOK SABHA
STARRED QUESTION NO. 205
TO BE ANSWERED ON 3RD AUGUST, 2021

PROPAGATING NEW PLANT VARIETIES

***205.** SHRI RAJIV PRATAP RUDY:

Will the Minister of AGRICULTURE & FARMERS WELFARE
कृषि और किसान कल्याण मंत्री be pleased to state:

- (a) whether agricultural research universities in the country including PUSA Agricultural University are assisting in propagating new varieties of plants to farmers;
- (b) if so, the details of the number of mother plants propagated by agricultural research universities in the country and given to farmers;
- (c) the details of ongoing innovation research studies on developing new varieties of seeds at different agricultural universities in the country along with locations for their testing;
- (d) the number of registered and operational plant nurseries in the country, State-wise; and
- (e) the details of the process and scope of involvement of State Governments in agricultural research in collaboration with research universities?

ANSWER

THE MINISTER OF AGRICULTURE AND FARMERS WELFARE

कृषि और किसान कल्याण मंत्री

(SHRI NARENDRA SINGH TOMAR)

(a) to (e): A Statement is laid on the Table of the House.

**STATEMENT IN RESPECT OF PARTS (a) to (e) OF LOK SABHA STARRED
QUESTION NO. 205 TO BE ANSWERED ON 3RD AUGUST, 2021 REGARDING
“PROPAGATING NEW PLANT VARIETIES”**

(a) & (b): Yes, Sir. The National Agricultural Research System (NARS) comprising of Institutes of Indian Council of Agricultural Research (ICAR), and State and Central Agricultural Universities including Indian Agricultural Research Institute (Pusa), New Delhi are involved in development and propagation of new high yielding and biotic/abiotic stress tolerant varieties of field and horticultural crops. During last 7 years (2014 up to Jan 2021), 1575 varieties of 75 field crops and 288 varieties of 58 horticultural crops were developed (**Annexure-I**) which include 21 varieties of fruits. Mandate of ICAR Institutes and Agricultural Universities is mainly research, yet for promoting the newly released varieties of fruit crops, during 2019 and 2020, total 744.73156 lakh planting material were propagated and distributed to the farmers by Agricultural Universities, ICAR Institutes and their Krishi Vigyan Kendras (**Annexure-II**) including 83049 plants of 12 fruit crops propagated by IARI (Pusa Institute), New Delhi and its Regional Stations. During the same period 87212 mother plants of different fruit crops were also propagated and distributed to various nurseries for further multiplication of planting material.

(c) ICAR has a strong network of All India Coordinated Research Projects (AICRPs)/ All India Network Projects (AINPs), coordinated by commodity Institutes, which are operational in the various Central and State Agricultural Universities and ICAR Institutes and focusing on innovative research on developing new varieties seed of field and horticultural crops. Presently 44 AICRPs/AINPs of field and horticultural crops are taking up innovative research to address and resolve intricate agricultural problems of national and regional significance and evaluation of technologies through 50 SAUs/CAUs/DUs and 55 ICAR Institutes across the country at 1017 locations (**Annexure-III**).

(d) Data of registered nurseries remains with states; however operational nurseries are accredited by National Horticulture Board for a period of two years. Since 2009-10 to July, 2021, National Horticultural Board (NHB) has accredited 691 eligible operational plant nurseries across 17 States. The details of State-wise accredited plant nurseries in the country under NHB Scheme from 2009-10 to July 2021 is given at **Annexure-IV**. To streamline the information on registered nurseries and display of availability of planting material, a National Portal on Plant Nurseries (<http://nnp.nhb.gov.in/>) has been launched by National Horticulture Board and data of 1014 nurseries has already been uploaded on the site.

(e) State governments are supporting agricultural research by providing funding to SAUs through plan (25%) and non-plan (100%) research schemes.

Officers of State Department of Agriculture give their feed back during Agriculture Officer Workshops about the various technologies developed and demonstrated in the states. All the outcome of research i.e., recommended varieties, production and protection technologies, seed production and popularization and spread of agricultural technologies are implemented with the involvement of State Department of Agriculture.

Representatives of State Department of Agriculture as members of the Varietal Release Committee play important role in identification and release of new varieties. Breeder and quality seed production is monitored along with the officials of state department of agriculture and the difficulties faced in the seed production of any variety are pointed out by the state department of agriculture which are addressed through research.

ICAR has eight Regional Committees covering all states and UTs. Scientists of ICAR Institutes, Agricultural Universities, KVKs, and officers of States Department of Agriculture participate and discuss various problems being faced by the states in the different areas of agriculture during Regional Committee meetings and programmes are formulated by the Agricultural Universities and ICAR Institutes for addressing these issues.

Annexure-I
[Part (a) & (b) of Lok Sabha SQ No.205 dated 03/08/2021]

Field and horticultural crops varieties released during 2014 to 2021

Crop	Varieties released	Crop	Varieties released	Crop	Varieties released
Cereals		Oilseeds		Pulses	
Rice	364	Soybean	53	Mungbean	34
Maize	131	Groundnut	43	Urdbean	28
Sorghum	43	Sesame	12	Pigeon pea	35
Pearl millet	51	Niger	5	Cowpea	13
Little millet	11	Sunflower	12	Horsegram	6
Proso millet	4	Castor	14	Rajmash	3
Kodo millet	4	Indian Mustard	28	Cluster bean	1
Finger millet	28	Yellow sarson	5	Faba bean	1
Foxtail millet	8	Brown sarson	3	Moth bean	1
Barnyard millet	4	Gobhi sarson	2	Indian bean	2
Wheat	106	Toria	10	Chickpea	61
Barley	18	Taramira	2	Lentil	30
Forage crops		Raya	1	Field pea	20
Forage pearl pillet	5	Karan rai	1	Lathyrus	1
Forage maize	1	Linseed	33	Total	1575
Forage sorghum	15	Safflower	11		
Forage cowpea	5	Commercial crops		Horticultural crops	
Guinea grass	3	Cotton	79	Spices	18
Fescue grass	1	Bt cotton	60	Seed spices	29
Rice bean	5	Jute	15	Tuber crops	46
Marvel grass	4	Mesta	7	Plantation crops	12
Anjan grass	4	Kenaf	4	Vegetables	151
Dhaman grass	2	Sunhemp	1	Flowers	11
Setaria grass	1	Roselle	3	Fruits	21
Ryegrass	2	Ramie	1	Total	288
Kolukattai grass	1	Sugarcane	52		
Bajra Napier hybrid	8	Others			
Bundel Bajra	1	Amaranth	8	Field and Horticultural crops	
Aparajita	1	Kalingada	2	Grant total	1863
Jawahar Vicia	1				
Forage Sewan grass	2				
Sesbania	1				
Oats	27				
Lucerne	7				
Berseem	3				

Annexure-II
[Part (a) & (b) of Lok Sabha SQ No.205 dated 03/08/2021]

**Planting material and mother plants produced by Agricultural Universities, KVKs
and ICAR Institutes during 2019 and 2020**

Planting Material Propagating Unit	2018-19	2019-20	Total (Nos. in lakhs)
Agricultural Universities	13.75845	14.2962	28.05465
Krishi Vigyan Kendras	365.532	348.010	713.542
IARI, New Delhi	0.40733	0.42316	0.83049
IIHR, Bengalore	1.10595	1.19847	2.30442
Total	380.8037	363.9278	744.73156

Mother plants propagated and distributed Agricultural Universities: **87212**

Centres of All India Coordinated Research Projects/ All India Network Project operating in different Agricultural Universities and ICAR Institutes for taking up innovative research and testing of technologies in field and horticultural crops

Subject Matter Division/AICRP	No. of centres in different SAUs
Crop Science	
All India Coordinated Research Projects	
Wheat & Barley, Karnal	29
Rice, Hyderabad	45
Maize, Ludhiana	32
Sorghum, Hyderabad	19
Pearl millet, Jodhpur	13
Small Millets, Bengaluru	13
Forage Crops, Jhansi	22
Chickpea, Kanpur	28
MULLaRP, Kanpur	28
Pigeonpea, Kanpur	24
NSP (Crops), Mau	41
Groundnut, Junagarh	20
Soybean, Indore	21
Rapeseed & Mustard, Bharatpur	22
Oilseed, Hyderabad	27
Linseed, Kanpur	15
Sesame and Niger, Jabalpur	17
Sugarcane, Lucknow	22
Cotton, Coimbatore	32
Nematodes in Cropping System, New Delhi	24
Biocontrol of Crop Pests, Bengaluru	12
Honeybees & Pollinators, New Delhi	19
All India Network Projects	
Potential Crops, New Delhi	16
Transgenics (NPTC), New Delhi	46
Arid Legumes, Kanpur	10
Tobacco, Rajamundry	6
Jute & Allied Fibres, Barrackpore	8
Soil Arthropod Pests, Durgapura, Rajasthan	5
Agricultural Acarology	9
Pesticides Residues, New Delhi	15
Vertebrate Pest Management, Jodhpur	8
ICAR Seed Project, Mau	63
AMAAS	20
Total Crop Science	731
Horticulture	
All India Coordinated Research Projects	
Vegetable Crops	36
Fruits	50

Arid fruits	18
Plantation Crops (Palm)	30
Medicinal & Aromatic Plants and Betelvine	22
Mushroom	22
Cashew	14
Floriculture	18
Onion & Garlic	11
Potato	25
Spices	19
Tuber Crops	21
Total Horticulture Science	286
Grand total (Crop and Horticultural Science)	1017

Annexure-IV
[Part (d) of Lok Sabha SQ No.205 dated 03/08/2021]

Details of State-wise Accredited Plant Nurseries under NHB Scheme from 2009-10 to July, 2021

SN.	State Name	Nurseries Accredited
1.	Andhra Pradesh	6
2.	Chhattisgarh	56
3.	Gujarat	100
4.	Haryana	28
5.	Himachal Pradesh	21
6.	Jammu & Kashmir	94
7.	Jharkhand	11
8.	Karnataka	13
9.	Kerala	5
10.	Madhya Pradesh	8
11.	Maharashtra (Nagpur, Nasik, Pune)	153
12.	Odisha	22
13.	Punjab	27
14.	Rajasthan	25
15.	Uttar Pradesh (Lucknow, Varanasi)	67
16.	Uttarakhand	15
17.	West Bengal	40
	Total	691
