

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

LOK SABHA
UNSTARRED QUESTION NO. 4232
TO BE ANSWERED ON 19TH AUGUST, 2025

CLIMATE RESILIENT SEED VARIETIES DEVELOPED BY NICRA

4232. SHRI BASTIPATI NAGARAJU:
SHRI B K PARTHASARATHI:

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

- (a) the details regarding the number of climate resilient seed varieties developed under National Innovations in Climate Resilient Agriculture (NICRA) project, year-wise;
- (b) the details regarding the total number of farm demonstrations held for such seed varieties, State/district and year-wise;
- (c) the total number and list of NICRA villages, State and district-wise for Andhra Pradesh;
- (d) the details regarding the number of farmers provided such seed varieties, State/district and year-wise for Andhra Pradesh;
- (e) the details of crops for which climate resilient seed varieties have been developed, especially for Andhra Pradesh;
- (f) whether the Government is monitoring the yield and inputs such as water & fertilizers used for such climate resilient seed varieties to better assess their efficiency; and
- (g) if so, the details of the crop yield and input usage, State/district and year-wise for Andhra Pradesh and if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE FOR AGRICULTURE AND FARMERS WELFARE
कृषि और किसान कल्याण राज्य मंत्री (SHRI BHAGIRATH CHOUDHARY)

(a): A total of 17 climate resilient seed varieties have been developed under National Innovations in Climate Resilient Agriculture (NICRA) project. The year wise details of varieties developed under NICRA are given at **Annexure-I**.

Besides this 477 climate resilient varieties have been evaluated in NICRA project.

(b): A total of 9088 farm demonstrations were conducted for the seed varieties under NICRA in different states/districts.

The details of farm demonstrations are given at **Annexure-II**.

(c): NICRA project has been operational in five districts (Anantapur, Kurnool, Srikakulam, Chittoor and West Godavari) of Andhra Pradesh. NICRA villages, for these five districts of Andhra Pradesh are as;

District	Number of Village	Name of village
Anantapur	7	Chakrayapeta, Chamaluru, East Narasapuram, Peravali, Pothurajukaluva, Sodanapalli, Bandamedapalli
Kurnool	5	Cherlokotturu, Chinnarajupalem, Krishnagiri, Meerapuram, Yagantipalle
Srikakulam	4	Isakalapalem, Kondavalasa, Sirusuwada, VN Puram
Chittoor	1	Chittecherla
West Godawari	1	Matsyapuri

(d): A total of 14293 number of farmers were given seed of climate resilient varieties in Andhra Pradesh. Year wise and districts wise details are given in **Annexure-III**.

(e): The crops for which climate resilient seed varieties have been developed/evaluated especially for Andhra Pradesh are Red gram, Groundnut, Castor, Bengalgram, Jowar, Green gram, Sunflower, Foxtail millet, Sesame and Paddy.

(f) & (g): Under NICRA project, yield and input use was monitored for the developed and evaluated varieties. The inputs were used as per recommended dose for the agroecological situation and the average crop yields of various climate resilient seed varieties were monitored and recorded. The Details are given at **Annexure-IV**.

[Part (a) of Lok Sabha USQ No. 4232 dated 19TH AUGUST, 2025]**The details of varieties developed under NICRA: -**

Crop	Variety	Trait	Year
Rice	CR Dhan 201	Drought	2014
	NICRA Aerobic Dhan 1	Drought	2021
	CR Dhan 412	Salinity	2021
	Pusa Basmati 1882	Drought	2022
	NICRA Hill Rice 2022-2	Drought	2022
	NICRA Boro Dhan 1	Drought	2022
	CR Dhan 414	Salinity	2023
	NICRA Aerobic Dhan 2	Drought	2023
Wheat	HD 3411	Drought	2023
Maize	CMH 08-287	Drought	2014
Greengram	Virat	Yellow Mosaic Virus resistant	2016
	Varsha	Yellow Mosaic Virus & Powdery mildew resistant	2018
	Kanika	Yellow Mosaic Virus resistant	2018
	Heera	Yellow Mosaic Virus, Powdery mildew & Cercospora resistant	2019
Lentil	IPL 534	Extra early & avoids force maturity	2020
Tomato	Kashi Adbhut	Temperature	2023
	Kashi Tapas	Temperature	2023

[Part (b) of Lok Sabha USQ No. 4232 dated 19TH AUGUST, 2025]

The details of farm demonstrations: -

SN	State/ Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total
1	Andhra Pradesh	30	34	35	24	21	21	22	32	19	19	23	25	29	28	362
2	Arunachal Pradesh	10	10	13	15	13	13	13	20	14	12	15	13	14	16	191
3	Assam	11	10	14	15	15	13	15	21	12	13	15	15	14	16	199
4	Bihar	15	18	20	27	25	23	25	30	18	22	27	32	35	40	357
5	Chhattisgarh				12	11	11	11	20	10	8	11	10	12	16	132
6	Goa	2	3	2	5	5	5	5	9	6	5	10	9	10	12	88
7	Gujarat	19	19	25	25	22	22	22	35	19	19	28	27	24	28	334
8	Haryana	17	19	22	28	26	26	26	32	16	16	24	18	29	24	323
9	Himachal Pradesh	15	13	19	20	18	15	18	25	10	11	15	11	15	19	224
10	Jammu and Kashmir	16	14	21	23	21	19	21	26	6	8	12	9	11	20	227
11	Jharkhand	16	15	20	22	20	18	20	28	12	12	16	12	14	21	246
12	Karnataka	29	34	38	45	47	48	48	50	21	20	28	33	33	40	514
13	Kerala	3	6	4	9	10	6	10	15	6	6	10	10	10	16	121
14	Madhya Pradesh	39	46	50	65	55	56	55	49	28	30	38	35	41	37	624
15	Maharashtra	25	30	33	43	38	38	38	35	23	24	32	29	32	29	449
16	Manipur	5	6	7	9	8	8	9	15	12	12	15	13	15	18	152
17	Meghalaya	8	11	10	12	11	7	11	18	12	13	16	15	13	16	173
18	Mizoram	6	8	7	12	11	9	11	16	10	12	15	17	10	12	156
19	Nagaland	8	10	10	13	12	11	12	18	9	10	12	13	12	14	164
20	Odisha	20	23	25	35	32	28	32	30	15	19	25	25	28	23	360
21	Punjab	12	14	15	20	18	18	18	25	15	16	23	24	20	19	257
22	Rajasthan	45	53	60	72	65	67	69	55	32	34	41	43	44	41	721
23	Sikkim	15	19	15	25	26	26	26	25	18	22	26	23	29	20	315
24	Tamilnadu	20	18	25	27	23	23	23	30	23	23	28	25	27	23	338
25	Telangana				25	25	25	25	10	9	9	11	10	15	8	172
26	Tripura				7	8	8	8	12	11	6	7	8	10	9	94
27	Uttar Pradesh	75	83	76	112	124	125	129	85	56	78	94	102	108	97	1344
28	Uttarakhand	15	17	23	26	27	28	27	25	18	20	24	18	23	19	310
29	West Bengal	12	13	20	14	15	15	15	22	20	20	23	25	17	10	241
	Total	488	546	609	787	752	732	764	713	480	519	664	649	694	691	9088

[Part (d) of Lok Sabha USQ No. 4232 dated 19TH AUGUST, 2025]

The details of number of farmers provided seed varieties in Andhra Pradesh

Year	District	No. of farmers benefitted
2024	Anantapur	90
	Srikakulam	50
	Kurnool	12
2023	Anantapur	99
	Srikakulam	49
	Kurnool	75
2022	Anantapur	73
	Srikakulam	25
	Kurnool	17
2021	Anantapur	26
	Srikakulam	5
	Kurnool	52
2020	Srikakulam	12673 (upscaled)
	Kurnool	175
	Chittoor	72
	West Godavari	800
Total		14293

[Part (f) & (g) of Lok Sabha USQ No. 4232 dated 19TH AUGUST, 2025]

Yield of varieties evaluated for drought situation		
Crop	Varieties	Average Yield (q/ha)
Red gram	PRG-176	14.62
	TRG-59	6.09
	LRG-105	7.00
	ICPL-87119	7.53
	PRG-158	10.00
	LRG-52	16.00
Groundnut	Kadiri Lepakshi	15.80
	Dharani	16.85
	TCGS-1694	24.00
	Kadiri Chitravati	20.00
Castor	ICH 66	11.50
Bengalgram	NBeG49	9.62
	NBeG-452	11.00
Jowar	NTJ-5	23.36
	M35-1	19.50
Green gram	WGG-42	17.29
	LBG 787	11.50
Foxtail millet	SIA3088	17.45
	SIA3085	16.90
Sesame	YLM 66	5.25
Varieties evaluated for flood situation		
Paddy	MTU 1061	66.78
	MTU 1064	67.54
	MTU 1156	58.75
	MTU 1153	54.50
	MTU1121 (Sridhruthi)	93.75
	RGL-2537	50.50
