

Handbook of groundnut varieties of India released during 2001-2021



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**All India Coordinated Research Project on Groundnut
ICAR-Directorate of Groundnut Research,
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PREFACE

Groundnut is a leguminous oilseed crop cultivated by the small and medium farmers of the tropics and subtropics, predominantly under rainfed condition with meagre external fertilizers. This crop is very popular among the farmers because of its multiple utilities as nutritious food-feed-fodder-crop. Though groundnut was introduced in India during the sixteenth century, its commercial cultivation gained momentum during the last century. Because of its wider adaptability in poor and marginal soil and fits well in different agroclimatic conditions and cropping systems, it has spread length and breadth of the country- from the peninsular region in the south to the foot hills of J&K and from Gujarat in the west to the NEH regions of the country in the East.

Being an introduced crop, groundnut took time to adapt and acclimatize in Indian climate and thus took its own time to initiate the breeding programme to develop new high yielding groundnut varieties suitable for various agroclimatic conditions of India. So far 238 high yielding and improved groundnut varieties have been developed in India. More than twenty public institutions span over the country are actively involved in developing location specific and/or pan India varieties tolerant to major abiotic and biotic stresses along with matching crop production and protection technologies. Since groundnut is a high-volume and low-value crop and hybrids are not available being a cleistogamous self-pollinating crop, private sector is hardly involved in groundnut research and development.

Although a number of publications on groundnut available in India, an account of the popular varieties developed in India during the last twenty years, their detailed quality traits, and effort in breeder seed production and export, is lacking. There is need of a handy guide for selection of suitable varieties for different parts of the country season- and trait-wise. To fill the space, this compilation "Handbook of groundnut varieties of India released during 2001-2021" will indeed be useful to all stakeholders directly or indirectly involved with the groundnut. The compilation embodies collection of information from different sources including photographs from both regular and voluntary centres of All India Coordinated Research Project on Groundnut. Besides, information from Government of India Gazette notifications, proposals received at coordination unit from proposing centres for identification of entries for consideration of varietal identification committee. In addition, the data on breeder seed production available at the coordinating unit, and data on area, production and productivity from Department of Agriculture & Cooperation, Ministry of Agriculture and Farmers Welfare, Govt. of India, Department of Oilseed Development and other sources are compiled. Previous book on "Groundnut: a crop profile and compendium of varieties notified in India" being a major source of information. The authors acknowledge all the sources of information without specific mention of a particular source.

For each variety, information pertaining to progenitor centre, recommended regions/states and season for cultivation, year of release, both pod and kernel yield as per release proposal, reaction to biotic and abiotic stresses, method(s) adopted for breeding, shelling outturn, testa colour, hundred kernel mass, days to maturity, oil content, etc. have been provided.

While collecting information, the available data with the project coordination unit of All India Coordinated Research Project on Groundnut are consulted and used. This handbook, is a reflection of the sincere research efforts of all groundnut researchers in India in developing high yielding groundnut varieties for utilizing them to enhance productivity of groundnut in India.

The authors hope that this handbook would serve as a handy reference guide for the students, researchers, entrepreneurs, industries, seed agencies, extension workers, administrators and all other stakeholders associated with groundnut cultivation.

Authors



Contents

		Page No.
1.	Introduction	1
2.	Area, production and productivity	1-3
3.	Development of high yielding varieties	3-4
4.	Notification and national identity numbers	4-11
5.	Passport data of groundnut varieties released in last twenty-years	11
	A. Spanish Bunch	12-49
	B. Virginia Bunch	50-64
	C. Virginia Runner	65-70
6.	State-wise area, production and productivity of groundnut during (2010 to 2020)	70-76
7.	Export of groundnut from India	77-78
8.	State-wise recommended varieties	79-87
9.	Centre-wise varieties released in last twenty-years	88-92
10.	Habit group-wise varieties	93-97
11.	Productivity-wise varieties	98-104
12.	Salient features of the promising varieties	105-116
13.	Breeder seed production	117-123
14.	Future strategies for enhancing production and productivity	124
15.	Reference	124



List of Tables

Table No.	Details	Page No.
1	CAGR of groundnut in area, production and productivity during 1989-90 to 2019-20 in decadal increment	2
2	Contribution of major groundnut growing states in area, production and productivity of India during the last five years	3
3	Groundnut varieties notified in India during 2001-2021	5-11
4	Area, production, and productivity of groundnut in India during last ten years	71-76
5	Groundnut export from India during last ten year	78
6	Groundnut varieties recommended for various states in India during 2001-2021	80-97
7	Centre-wise groundnut varieties developed in last twenty-years	89-92
8a	Spanish Bunch groundnut varieties released in India during 2001-2021	94-96
8b	Virginia Bunch groundnut varieties released in India during 2001-2021	96-97
8c	Virginia Runner groundnut varieties released in India during 2001-2021	97
9	Groundnut varieties released in India during 2001-2021 in descending order of their yield	99-104
10	Special attributes of groundnut varieties released in India during 2001-2021	106-112
11	Reaction of groundnut varieties released during 2001-2021 to abiotic and biotic stresses	113-116
12a	Groundnut breeder seed production (q) during 2000-2010 in India	117-119
12b	Groundnut breeder seed production (q) during 2011-2020 in India	120-123



List of Figures

Figure No.	Details	Page No.
1	Trend of area, production and productivity of groundnut in India during 1989-90 to 2019-20	2
2	Export of groundnut from India in last two decades	77



1. Introduction

Groundnut (*Arachis hypogaea* L.) is an important oilseed and ancillary food crop of the world. A native of South America, especially that of Bolivian and Peruvian deserts, groundnut is cultivated in tropical, sub-tropical, and warm temperate regions of the world. The commercial cultivation of groundnut, however, is confined to areas between 40°N and 40°S latitudes. Developing countries account for more than 80% of groundnut area in the world. The production is confined mainly to Asian and African countries. Asia accounts for about 50% of the global area and 60% of production. India accounts for about 17% of global area and contributes 16% to world groundnut production. The average productivity of groundnut in India, however, is quite low (2065 kg/ha) compared to those of the USA ($\approx$ 4500 kg/ha), and China ($\approx$ 3800 kg/ha). About 16% of the domestic edible oil production comes from groundnut.

In India, groundnut is cultivated largely during *kharif* season (June-July to Oct-Nov) under rainfed conditions, with low inputs, and only one or two protective irrigations. Also during *kharif*, the pressure of diseases, insect-pests, and weeds is high and hence the productivity is low. The other growing season is summer cultivation (Jan-Feb to May-June) as irrigated crop. The groundnut is also cultivated in a few pockets during *rabi* season (Oct-Nov to Feb-March) under residual moisture of rice fallows or riverbeds, under minimal irrigation, and also as spring season crop during March to June-July after the harvest of potato. The spring and summer cultivation of groundnut is practiced generally under high input conditions as the pressure of diseases, insect-pests, and weeds is relatively low and hence the productivity is high.

2. Area, production and productivity

The commercial cultivation of groundnut started in India in early 19th century. With 2.3 lakh ha during the first decade of 1900/01-1909/10, the groundnut area in the country rose to 76.6 lakh ha by the turn of last century. The compound annual growth rate for the period 1951-2011 was 0.26% in area while the growth in production (1.15%) and yield (0.88%). During 1999-2011, though there was a decline in area (1.1%), the production (2.28%), yield (3.46%) increased considerably. However, cumulative CAGR for the combined period of 1989-90 to 2019-20 was -2.62%, 4.44% and 7.12% for area, production and productivity, respectively (**Table 1**). The shrinkage in area is a matter of concern, as groundnut has to play a significant role in achieving self-sufficiency in edible oil production in India. The average groundnut area increased from 4.66 million ha (1951-55) to an all-time high of 8.16 million hectares during 1991-95. The productivity fluctuated between 676 and 759 kg/ha before 1970's, registered a steady increase subsequently and reached maximum of 2065 kg/ha in 2019-20 (**Figure 1**). This was due to release of several high yielding and biotic and abiotic stress-tolerant varieties with adoption of matching production technologies for different cropping systems, and also to a certain extent cultivation of groundnut in summer under assured irrigation with high input.

Table 1. CAGR of groundnut in area, production and productivity during 1989-90 to 2019-20 in decadal increment

Compound Average Growth Rate (%)			
Year	Area	Production	Productivity
1989-90 to 1998-99	-1.62	1.036	2.7
1999-00 to 2008-09	-0.989	3.388	4.416
2009-10 to 2019-20	-0.01	0.013	0.007
Cumulative	-2.619	4.437	7.123

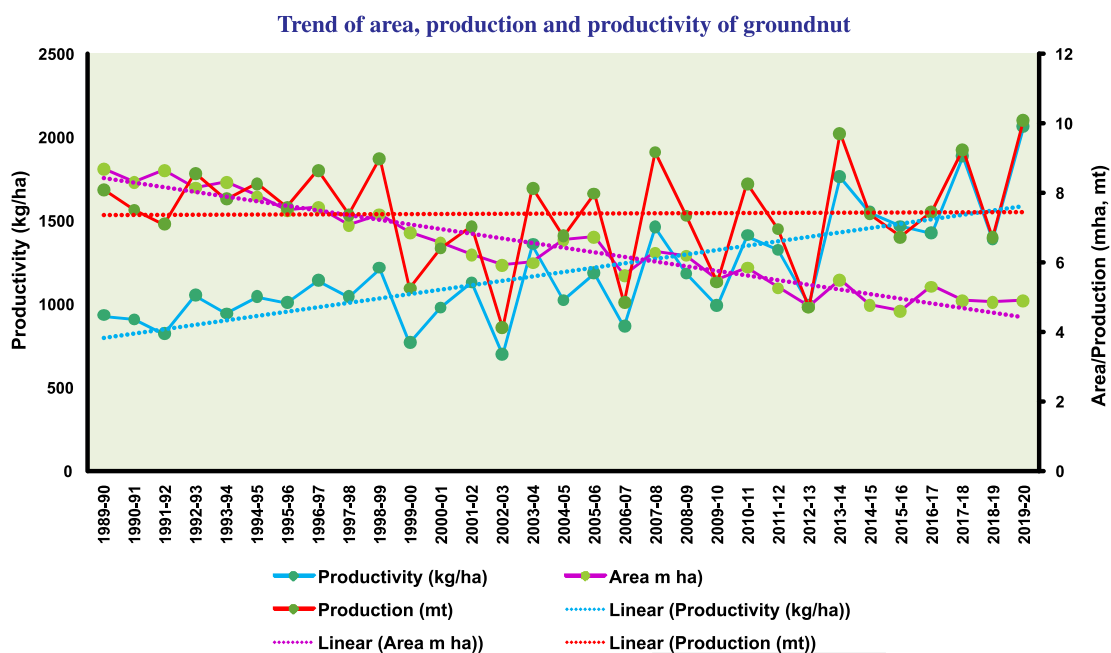


Figure 1. Trend of area, production and productivity of groundnut in India during 1989-90 to 2019-20

The study of area, production and productivity of groundnut during the last five years in respect of main groundnut growing states of India indicate that about 87% of the groundnut area and 85% of production are distributed across six states (Gujarat, Andhra Pradesh, Tamil Nadu, Karnataka, Maharashtra and Rajasthan) (**Table 2**). Gujarat and Andhra Pradesh account for about 33% and 16%, respectively of the total groundnut area while Rajasthan, Karnataka, Tamil Nadu, and Maharashtra account for 12.8%, 11.8%, 6.7%, and 5.97%, respectively on quinquennial average. Though the area is declining in Karnataka, Maharashtra, and Tamil Nadu, the area in Rajasthan is increasing progressively. Gujarat contributed, on an average, about 40% of production during the period of last five years, followed by Rajasthan (16%) and Andhra Pradesh (9.3%).

Table 2. Contribution of major groundnut growing states in area, production and productivity of India during the last five years

States	2015-16			2016-17			2017-18			2018-19			2019-20			Five years average		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Gujarat	1.414	2.339	1654	1.759	3.157	1795	1.679	3.937	2345	1.594	2.203	1382	1.689	4.643	2749	1.627	3.256	1985
Andhra Pradesh	0.775	0.801	1034	1.013	0.603	595	0.735	1.048	1426	0.748	0.462	618	0.661	0.847	1282	0.786	0.752	991
Tamil Nadu	0.347	0.892	2574	0.283	0.426	2169	0.327	0.485	3491	0.335	0.911	2718	0.347	0.984	2840	0.328	0.740	2758
Karnataka	0.570	0.395	693	0.666	0.419	629	0.564	0.553	980	0.515	0.391	759	0.574	0.678	1180	0.578	0.487	848
Maharashtra	0.309	0.334	1081	0.355	0.420	1184	0.291	0.344	1183	0.224	0.239	977	0.282	0.324	1149	0.292	0.332	1115
Rajasthan	0.517	1.049	2029	0.556	1.141	2051	0.641	1.259	1966	0.673	1.382	2053	0.739	1.619	2191	0.625	1.290	2058
Total (six states)	3.932	5.810	-	4.632	6.167	-	4.237	7.627	-	4.090	5.588	-	4.292	9.095	-	4.236	6.857	-
Average Productivity (six states)			1511			1404			1899			1418			1899	0.000	0.000	1626
All India	4.596	6.733	1465	5.338	7.462	1398	4.888	9.253	1893	4.731	6.727	1422	4.890	10.096	2065	4.888	8.054	1649
Percent of total by six states	85.54	86.29		86.76	82.64		86.7	82.4		86.45	83.07		87.78	90.09		86.64	84.90	

A= area in mha; P= production in million tonnes; Y= yield (kg/ha)

Source: Department of Agriculture & Farmers Welfare, GOI

3. Development of high yielding varieties

Though a large number of varieties were released after evaluation of exotic groundnut germplasm at the Agricultural Research Station, Palur, Tamil Nadu (Seshadri, 1962), the systematic breeding programme gained momentum during post-independence period. However, in the pre-independence era, with the concerted efforts in the states of Madras, Mysore, Punjab, Madhya Pradesh, and Bombay, a large number of varieties were developed and released during 1900-1940. HG8, HG7, HG10, R-4, Big Japan, Ah-32, Spanish Improved, Pondicherry-8, Exotic-1-1, Small Japan, Faizpur-1-15, AK 10, AK 8-11, Improved Spanish Groundnut, B-30 and B-31 are the notable among many (Rathnakumar et al. 2013). However, the development of groundnut varieties gained momentum with the involvement of ICRISAT and BARC. Until the establishment of ICRISAT in 1976, only 6000 germplasm accessions of groundnut was available with the groundnut researcher in India to exploit in breeding programme. However, with the active involvement of ICRISAT, nearly 15000 germplasm accessions, representing all gene pool of *Arachis*, were evaluated and characterised and sources of resistance to many abiotic and biotic stresses identified. Subsequently, ICRISAT permitted the access to germplasm accessions including exotic ones and segregating materials for Indian researchers. As a result, groundnut-breeding programme gained a fresh momentum and a large number of high yielding and stress tolerant groundnut varieties were developed, both by ICRISAT and SAUs. Notable varieties are JL24, GG2, M13, J11, ICGS37, ICGS44, ICGV9114, SG99,

Pratap Mungphali 1 & 2, ICGV 00348, ICGV 00350, Mallika, R-2001-2, etc. Besides, Bhaba Atomic Research Centre (BARC), Trombay contributed significantly in mutation breeding programme and a large number of high yielding varieties were released for *kharif* and *rabi*-summer cultivations. TAG24, TG26, TG51, TG37A, TPG41, etc. are most popular among the farmers. However, under the umbrella of All India Coordinated Research Project on Oilseeds (AICORPO), established in 1967, and then All India Coordinated Research Project on groundnut, delineated from AICORPO in 1992, the groundnut breeding programme was given another push. As of now, 238 high yielding groundnut varieties have been developed in India with many of them being tolerant to biotic and abiotic stresses. However, 117 high yielding groundnut varieties were released in India during the period 2001-2021 comprising 76 Spanish Bunch, 29 Virginia Bunch and 12 Virginia Runner varieties. No variety has been released in last twenty years under Valencia habit group.

4. Notification and national identity numbers

The release of crop varieties, developed in public domain, is regulated by the Central Sub-committee on Crop Standards, Notification and Release of Varieties in Agricultural Crops (CSCCSN&RVAC), constituted under the Seed Acts, 1966. However, the major purpose of releasing a variety is to ensure access of the newly developed varieties to the public for cultivation location specifically.

To consider the proposals for release of varieties at central and state levels, two committees namely Central Varietal Release Committee (CVRC) at the central level and State Variety Release Committee (SVRC) at the state level, are in place. Once the proposals are passed by the respective committees, notification and national identification numbers are assigned. The proposal passed at state level must also be passed by the CVRC for getting the national identity number. During the period of 2001-2021, a total of 117 varieties comprising 76 Spanish Bunch, 29 Virginia Bunch and 12 Virginia Runner were released by CVRC and SVRC (**Table 3**). However, 21 varieties released at the state level, have no national identity number.

To preserve all the released varieties, both central and state, National Bureau for Plant Genetic Resources (NBPGR) collects such materials as seed pods from the respective progenitor breeders/institutes and assigns them "National Identity Numbers (ICs') and then preserve them under long-term cold storage facilities available at the National Gene Bank, NBPGR, New Delhi for use in the future.

Table 3. Groundnut varieties notified in India during 2001-2021

S. No.	Name of the variety	National Identity No.	Orininating centre	Year of release	State/ central release	Notification number
1	VRI (Gn) 5	IC-305110	TNAU, Vriddhachalam	2001	State	S.O. 1134(E)/ 15.11.2001
2	Co (Gn) 4 (TNAU 269)	IC-305100	TNAU, Coimbatore	2001	State	S.O. 1134(E)/ 15.11.2001
3	GG 7 (J-38)	IC-305103	JAU, Junagadh	2001	Central	S.O. 1134(E)/ 15.11.2001
4	Manjra (LGN 2)	IC-304980	MAU, Latur	2001	Central	S.O. 92(E)/ 02.02.2001
5	AK 159	IC-305096	PDKV, Akola	2002	Central	S.O. 937(E)/ 04.09.2002
6	Sneha	-	KAU, Vellayani	2002	State	S.O. 937(E)/ 04.09.2002
7	Snigdha	-	KAU, Vellayani	2002	State	S.O. 937(E)/ 04.09.2002
8	GG 6	IC-305107	JAU, Junagadh	2003	State	S.O. 283(E)/ 12.03.2003
9	GG 14 (JSP 28)	IC-296317	JAU, Junagadh	2003	Central	S.O. 283(E)/ 12.03.2003
10	TPG 41	IC-296547	BARC, Trombay	2004	Central	S.O. 161(E)/ 04.02.2004
11	TG 37A	IC-398406	BARC, Trombay	2004	Central	S.O. 161(E)/ 04.02.2004
12	Vikas (GPBD 4)	IC-296810	UAS, Dharwad	2004	Central	S.O. 642(E)/ 31.05.2004
13	TLG 45	IC-323366	MAU, Latur	2004	State	S.O. 122(E)/ 06.02.2007
14	SG 99	IC-412896	PAU, Ludhiana	2004	State	S.O. 1178(E)/ 20.07.2007
15	Phule Unap (JL 286)	IC-308555	MPKV, Jalgaon	2004	State	S.O. 1178(E)/ 20.07.2007
16	Prutha (Dh 86)	IC-420761	UAS, Dharwad	2005	Central	S.O. 122(E)/ 02.02.2005
17	Kadiri 5	IC-412897	ANGRAU, Kadiri	2005	State	S.O. 122(E)/ 02.02.2005

Table 3 contd.

18	Kadiri 6 (K 1240)	IC-412898	ANGRAU, Kadiri	2005	State	S.O. 122(E)/ 02.02.2005
19	Pratap Mugphali 2 (ICUG 92195)	IC-427878	MPUA&T, Udaipur	2005	State	S.O. 1566(E)/ 05.11.2005
20	Pratap Mugphali 1 (ICUG 92035)	IC-427778	MPUA&T, Udaipur	2005	State	S.O. 1566(E)/ 05.11.2005
21	Ratneshwar (LGN 1)	IC-547028	MAU, Latur	2005	State	S.O. 122(E)/ 06.02.2007
22	Co (GN) 5	IC-295971	TNAU, Vriddhachalam	2005	State	S.O. 1177(E)/ 25.08.2005
23	GG 21 (JSSP 15)	IC-445051	JAU, Junagadh	2005	Central	S.O. 449(E)/ 11.02.2009
24	Utkarsh (CSMG 9510)	IC-449057	CSAUA&T, Mainpuri	2005	Central	S.O. 449 (E)/ 11.02.2009
25	RG 382 (Durga)	IC-430410	RAU, Durgapura	2005	State	S.O. 122(E)/ 02.02.2005
26	GG 8 (J 53)	IC-538571	JAU, Junagadh	2006	Central	S.O. 1572(E)/ 20.09.2006
27	TG 38B (TG 38)	IC-323364	BARC, Trombay	2006	Central	S.O. 1572(E)/ 20.09.2006
28	Prasuna (TCGS 341)	IC-546629	ANGRAU, Tirupati	2006	State	S.O. 1178(E)/ 20.07.2007
29	Abhaya (TPT 25)	IC-546628	ANGRAU, Tirupati	2006	State	S.O. 1178(E)/ 20.07.2007
30	TMV (Gn)13	-	TNAU, Coimbatore	2006	State	S.O. 1178(E)/ 20.07.2007
31	GG 16 (JSP 39)	IC-538572	JAU, Junagadh	2006	Central	S.O 1572(E)/ 20.09.2006
32	Vasundhara (Dh 101)	IC-556928	UAS, Dharwad	2007	Central	S.O. 122(E)/ 06.02.2007
33	ICGV 91114	-	ICRISAT, Hyderabad	2007	State	S.O. 1178(E)/ 20.07.2007
34	Kalahasti (TCGS 320)	IC-296315	ANGRAU, Tirupati	2007	State	S.O. 1703(E)/ 5.10.2007
35	Narayani (TCGS 29)	IC-296314	ANGRAU, Tirupati	2007	State	S.O. 1703(E)/ 5.10.2007

Table 3 contd.

36	AK 265	IC-544850	PDKV, Akola	2007	Central	S.O.1703(E)/ 05.10.2007
37	TBG 39 (TG 39)	IC 323365	RAU, Bikaner	2007	State	S.O. 2458(E)/ 16.10.2008
38	AK 303	IC-544849	PDKV, Akola	2007	State	S.O. 449(E)/ 11.2.2009
39	M 548	IC512312	PAU, Ludhiana	2007	State	S.O. 1178(E)/ 20.07.2007
40	TG 51	IC-555946	BARC, Trombay	2008	Central	S.O. 2458(E)/ 16.10.2008
41	Ajeya R2001-3)	IC 557647	UAS, Raichur	2008	Central	S.O. 2458(E)/ 16.10.2008
42	VL- Moongphali-1	IC-563978	VPKAS, Almora	2008	State	S.O. 211(E)/ 29.01.2010
43	Girnar 2 (PBS-24030)	IC-552493	NRCG, Junagadh	2008	Central	S.O. 72(E)/ 10.01.2008
44	ICGV 00348	IC-556930	TNAU, Viriddhachalam	2008	Central	S.O. 2458(E)/ 16.10.2008
45	VRI (Gn) 7	IC-565195	Viriddhachalam	2008	State	S.O. 2187(E)/ 27.08.2009
46	VRI (Gn) 6 (VG 9816)	IC-553320	TNAU, Viriddhachalam	2009	Central	S.O. 449(E)/ 11.02.2009
47	Jawahar Groundnut 23 (JGN 23)	IC 560683	JNKVV, Khargone	2009	State	S.O. 449(E)/ 11.02.2009
48	Kadiri 9	IC 570604	ANGRAU, Kadiri	2009	State	S.O. 2187(E)/ 27.08.2009
49	Greeshma	IC510879	ANGRAU, Tirupati	2009	State	S.O. 2187(E)/ 27.08.2009
50	Kadiri 7	IC 570602	ANGRAU, Kadiri	2009	State	S.O. 2187(E)/ 27.08.2009
51	Kadiri 8	IC 570603	ANGRAU, Kadiri	2009	State	S.O. 2187(E)/ 27.08.2009
52	Mallika (ICHG 00440)	IC 561239	RAU, Hanumangarh	2009	Central	S.O. 2187(E)/ 27.08.2009
53	TGLPS 3 (TDG-39)	IC 556927	UAS, Dharwad	2009	State	S.O. 449(E)/ 11.02.2009
54	JL 501	IC-551599	MPKV, Jalgaon	2010	Central	S.O. 211(E)/ 29.01.2010

Table 3 contd.

55	Vijetha (R 2001-2)	IC-565710	UAS, Raichur	2010	Central	S.O. 211(E)/ 29.01.2010
56	Girnar 3 (PBS 12160)	IC-571728	DGR, Junagadh	2010	Central	S.O. 733(E)/ 01.04.2010
57	Kadiri Harithandhra (K 1319)	IC-570601	ANGRAU, Kadiri	2010	Central	S.O. 733(E)/ 01.04.2010
58	GPBD-5	IC-572918	UAS, Dharwad	2010	Central	S.O. 2137(E)/ 31.8.2010
59	HNG 69	IC 571741	RAU, Hanumangarh	2010	Central	S.O. 211(E)/ 29.01.2010
60	GJG-HPS-1 (JSP-HPS-44)	IC573466	JAU, Junagadh	2010	State	S.O. 2137(E)/ 31.08.2010
61	RARS-T-1	-	ANGRAU, Tirupati	2011	State	S.O. 283(E)/ 07.02.2011
62	RARS-T-2		ANGRAU, Tirupati	2011	State	S.O. 283(E)/ 07.02.2011
63	Pratap Raj Mungphali	IC-569093	MPUA&T, Udaipur	2011	State	S.O. 283(E)/ 07.02.2011
64	Raj Durga (RG 425)	-	RAU, Durgapura	2011	State	S.O. 283(E)/ 07.02.2011
65	Divya (CSMG 2003-19)	IC 573901	CSAUA&T, Mainpuri	2011	Central	S.O. 2326(E)/ 10.10.2011
66	ICGV 00350	IC-587789	ANGRAU, Tirupati	2012	Central	S.O. 456(E)/ 16.03.2012
67	GJG 31 (J 71)	IC -583377	JAU, Junagadh	2012	State	S.O.1708(E)/ 26.07.2012
68	GJG 9 (J 69)	IC-583379	JAU, Junagadh	2012	State	S.O.1708(E)/ 26.07.2012
69	HNG 123	IC 587435	SKRAU, Hanumangarh	2012	Central	S.O. 456(E)/ 16.03.2012
70	CO 6	IC 585621	TNAU, Coimbatore	2012	State	S.O.1708(E)/ 26.07.2012
71	Raj Mungfali-1 (RG 510)	-	SKRAU, Durgapura	2012	Central	S.O. 456(E)/ 16.03.2012
72	Dharani (TCGS 1043)	-	ANGRAU, Tirupati	2013	State	S.O. 2817(E)/ 19.09.2013
73	GJG-22 (JSSP 36)	-	JAU, Junagadh	2013	State	S.O. 312(E)/ 01.02.2013

Table 3 contd.

74	GJG-17 (JSP-48)	-	JAU, Junagadh	2013	State	S.O. 312(E)/ 01.02.2013
75	Groundnut Co 7	-	TNAU, Coimbatore	2015	State	S.O. 2680(E)/ 01.10.2015
76	Phule Bharti (JL 776)	IC-610213	MPKV, Jalgaon	2015	Central	S.O.1228(E)/ 07.05.2015
77	G 2-52	IC-597593	UAS, Dharwad	2015	State	S.O. 2680(E)/ 01.10.2015
78	Raj Mungfali-2 (RG 578)	-	SKRAU, Durgapura	2015	Central	S.O. 268(E)/ 28.01.2015
79	Birsa Groundnut 4 (BAU 25)	IC-598730	BAU, Kanke	2015	State	S.O. 268(E)/ 28.01.2015
80	GJG 18 (JSP 49)	IC 597594	JAU, Junagadh	2015	Central	S.O. 268(E)/ 28.01.2015
81	KCG 6 (CTMG 6)	-	UAS, Bangaluru	2016	State	S.O. 3540(E)/ 22.11.2016
82	GKVK 5	-	UAS, GKVK, Bangaluru	2016	State	S.O. 3540(E)/ 22.11.2016
83	Raj Mungfali 3 (RG 559-3)	IC-613990	SKNAU, Durgapura	2016	Central	S.O. 3540(E)/ 22.11.2016
84	Phule Warna (KDG 128)	IC-598474	MPKV, Digraj	2016	Central	S.O. 3540(E)/ 22.11.2016 and S.O 399 (E) 24.1.2018
85	Phule Morna (KDG 123)	IC-611300	MPKV, Digraj	2016	Central	S.O. 3540(E)/ 22.11.2016 and S.O 399(E) 24.1.2018
86	GJG 19 (JSP 51)	IC-610391	JAU, Junagadh	2016	Central	S.O. 2238(E)/ 29.06.2016
87	ALG -06- 320	IC-598374	TNAU, Tindivanam	2017	Central	S.O. 1007(E)/ 30.03.2017
88	Kadiri Amaravathi (K 1535)	-	ANGRAU, Kadiri	2017	State	S.O. 1007(E)/ 30.03.2017

Table 3 contd.

89	VRI 8 (VG 09220)	-	TNAU, Vridhachalam	2017	State	S.O. 2805(E)/ 25.08.2017
90	GJG 32 (ICGV 03043)	IC 620846	JAU, Junagadh	2018	Central	S.O 399(E)/ 24.1.2018
91	GJG 33 (ICGV 07222)	IC 623505	JAU, Junagadh	2018	Central	S.O 1379(E)/ 27.3.2018
92	DH-232	IC 624121	UAS, Dharwad	2018	State	S.O. 6318 (E)/ 26.12.2018
93	DH-245	IC 624122	UAS, Dharwad	2018	State	S.O. 6318 (E)/ 26.12.2018
94	Nitya Haritha (TCGS 1157)	IC-623430	ANGRAU, Tirupati	2018	Central	S.O. 6318 (E)/ 26.12.2018
95	Avtar (ICGV 93468)	IC 588971	CSAUA&T, Kanpur	2018	State	81 meeting of CSC 24 Dec. 2018
96	TMV 14	IC 625756	TNAU, Tindivanam	2019	State	S.O. 1498 (E)/ 01.04.2019
97	Phule Chaitanya (KDG 160)	IC 620847	MPKV, Digraj	2019	Central	S.O. 1498 (E)/ 01.04.2019
98	AK 335 (PDKVG-335)	IC 623520	PDKV, Akola	2019	State	S.O. 1498 (E)/ 01.04.2019
99	Phule Unnati (RHRG 6083)	-	MPKV, Rahuri	2019	State	S.O. 3220 (E)/ 05.09.2019
100	Phule Dhani (JL 1085)	IC 628587	MPKV, Rahuri	2019	Central	S.O. 3220 (E)/ 05.09.2019
101	Gujarat Groundnut -34 (GG 34)	IC 625904	AAU, Anand	2019	State	S.O. 3220 (E)/ 05.09.2019
102	Dheeraj (TCGS 1073)	IC 620660	ANGRAU, Tirupati	2019	State	S.O. 3220 (E)/ 05.09.2019
103	BSR 2 (BSG 0912)	IC 629214	TNAU, Bhavanisagar	2019	State	S.O. 3220 (E)/ 05.09.2019
104	Central-Pragati (TCGS 894)	IC 628590	ANGRAU, Tirupati	2019	Central	S.O. 99 (E)/ 06/01/2020
105	Dh 256	IC 630697	UAS, Dharwad	2019	Central	S.O. 99 (E)/ 06/01/2020
106	Konkan Bhuratna (RTNG-29)	IC-626087	DBSKKV, Dapoli	2019	State	S.O. 1498 (E)/ 01.04.2019
107	Gujarat Groundnut HPS 2 (GG HPS 2)	-	JAU, Junagadh	2019	State	S.O. 1498 (E)/ 01.04.2019

Table 3 contd.

108	Pratap Mungphli 3 (UG 116)	-	MPAUT, Udaipur	2020	State	S.O.3482/07.10.2020
109	Jagtial Palli 1 (JGC 2141)	IC 627483	PJTSAT, Jagtial	2020	State	S.O.3482/07.10.2020
110	ICGV 06189	IC 627747	UAS, Dharwad	2020	State	S.O.3482/07.10.2020
111	Girnar 4 (ICGV 15083)	-	ICAR-DGR, Junagadh	2020	Central	S.O. 500 (E)/29/01/2021
112	Girnar 5 (ICGV 15090)	-	ICAR-DGR, Junagadh	2020	Central	S.O. 500 (E)/29/01/2021
113	Gujarat Groundnut 41 (Padma)	IC-628557	JAU, Junagadh	2020	State	S.O.3482/07.10.2020;S.O.6318/26.12.2018
114	K 1719 (Kadiri Chithravathi)	IC-634899	ANGRAU, Kadiri	2021	Central	S.O. 500 (E)/29/01/2021
115	DH 257	IC-634986	UAS, Dharwad	2021	Central	S.O. 500 (E)/29/01/2021
116	K 1812 (Kadiri Lepakshi)	IC-634900	ANGRAU, Kadiri	2021	Central	S.O. 500 (E)/29/01/2021
117	J 87 (Gujarat Groundnut 36)	IC-634358	JAU, Junagadh	2021	Central	S.O. 500 (E)/29/01/2021

5. Passport data of groundnut varieties released in last twenty-years

The habit group-wise detailed information on groundnut varieties released (both central and state level) along with year, progenitor centre, method of breeding, region and season for cultivation, pod and kernel yield, shelling outturn, oil content, testa colour, days to maturity, hundred kernel mass and special characters/traits, are given below with colour photograph. Among these are 76 Spanish Bunch, 29 Virginia Bunch and 12 Virginia Runner varieties. Among the Spanish Bunch groundnut varieties, GPBD4 (Vikas), released in the year 2004 from UAS, Dharwad is the first multiple foliar disease resistant (LLS and rust) variety developed through marker aided selection (MAS). Subsequently, this variety is being widely used as a donor for introgressing foliar disease resistance, on regular basis, in other background. Among the Virginia Bunch varieties, recently developed Dh 245 (2018; 72% oleic acid) from UAS, Dharwad and Girnar 4 (2020; >78% oleic acid) and Girnar 5 (2020; >78% oleic acid) from ICAR-DGR, Junagadh are having high level of oleic acid and considered to be healthy. Both Girnar 4 and Girnar 5 are developed through MABC.

5. Passport data of groundnut varieties released in last twenty-years

A. Spanish Bunch

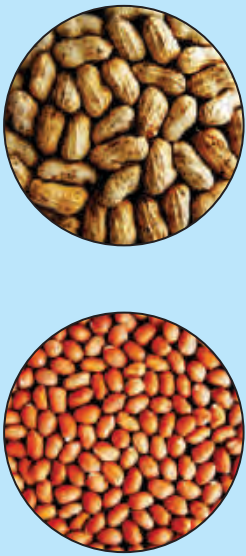
VRI (Gn) 5

Year of release	2001
Developed by	TNAU, ARS, Vriddhachalam
Method of breeding	Pedigree
Recommended state (s)	Tamil Nadu
Growing season	<i>Kharif</i> and <i>rabi</i> -summer
State/central release	State
Pod yield (kg/ha)	2133 (<i>kharif</i>); 2384 (<i>rabi</i> -summer)
Kernel yield (kg/ha)	1578 (<i>kharif</i>); 1764 (<i>rabi</i> -summer)
Shelling (%)	74.0
Oil content (%)	50.0
Maturity days (d)	105-110
Testa colour	Red
100- kernel mass (g)	40.0
Special characters	Resistant to rust and LLS

Co (Gn) 4 (TNAU 269)

Year of release	2001	
Developed by	TNAU, Coimbatore	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	1500 (<i>kharif</i>); 1950 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1095 (<i>kharif</i>); 1424 (<i>rabi</i> -summer)	
Shelling (%)	73.0	
Oil content (%)	53.0	
Maturity days (d)	105-110	
Testa colour	Rose	
100- kernel mass (g)	52.0	
Special characters	High oil content; resistant to rust and LLS	

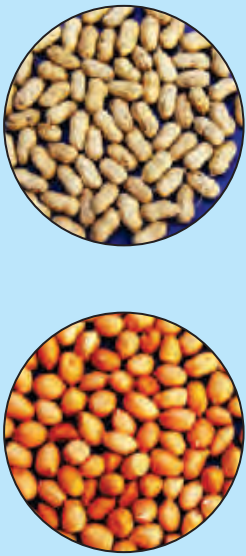
GG 7 (J-38)

Year of release	2001	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat and Southern Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2150	
Kernel yield (kg/ha)	1634	
Shelling (%)	76.0	
Oil content (%)	49.0	
Maturity days (d)	100	
Testa colour	Pink	
100- kernel mass (g)	48.0	
Special characters	Early maturity; tolerant to LLS	

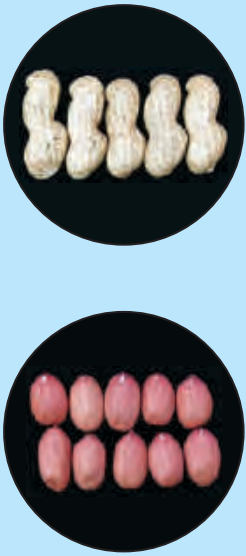
AK 159

Year of release	2002	
Developed by	PDKV, Akola	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra and Madhya Pradesh	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1600	
Kernel yield (kg/ha)	1072	
Shelling (%)	67.0	
Oil content (%)	51.0	
Maturity days (d)	106	
Testa colour	Rose white	
100- kernel mass (g)	34.0	
Special characters	High oil content	

GG 6

Year of release	2003	
Developed by	IAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	<i>Rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2780	
Kernel yield (kg/ha)	2029	
Shelling (%)	73.0	
Oil content (%)	50.0	
Maturity days (d)	100	
Testa colour	Rose	
100- kernel mass (g)	45.0	
Special characters	Early maturity; high shelling percent	

TPG 41

Year of release	2004	
Developed by	BARC, Trombay	
Method of breeding	Pedigree	
Recommended state (s)	All India	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2080	
Kernel yield (kg/ha)	1435	
Shelling (%)	69.0	
Oil content (%)	49.0	
Maturity days (d)	122	
Testa colour	Pink	
100- kernel mass (g)	65.0	
Special characters	Large seeded; high O/L ratio (3.27); fresh seed dormancy up to 25 days; tolerant to rust	

TG 37A

Year of release	2004	
Developed by	BARC, Trombay	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat, Rajasthan, Uttar Pradesh, Punjab, Idisha, West Bengal, Bihar and Assam	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2080 (<i>kharif</i>); 2840 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1331 (<i>kharif</i>); 1818 (<i>rabi</i> -summer)	
Shelling (%)	64.0	
Oil content (%)	48.0	
Maturity days (d)	105-110	
Testa colour	Rose	
100- kernel mass (g)	39.0	
Special characters	Fresh seed dormancy up to 15 days; tolerant to collar rot, rust and LLS	

Vikas (GPBD 4)

Year of release	2004	
Developed by	UAS, Dharwad	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra, Karnataka, Andhra Pradesh and Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2200	
Kernel yield (kg/ha)	1496	
Shelling (%)	68.0	
Oil content (%)	49.0	
Maturity days (d)	107	
Testa colour	Tan	
100- kernel mass (g)	36.0	
Special characters	Resistant to LLS and rust	

TLG 45

Year of release	2004	
Developed by	MAU, Latur	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1500	
Kernel yield (kg/ha)	990	
Shelling (%)	66.0	
Oil content (%)	51.0	
Maturity days (d)	114	
Testa colour	Monochrome rose	
100- kernel mass (g)	59.0	
Special characters	Large seeded	

SG 99

Year of release	2004	 
Developed by	PAU, Ludhiana	
Method of breeding	Bulk pedigree	
Recommended state (s)	Punjab	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2200 (<i>kharif</i>); 2500 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1430 (<i>kharif</i>); 1625 (<i>rabi</i> -summer)	
Shelling (%)	65.0	
Oil content (%)	52-3	
Maturity days (d)	102	
Testa colour	Rose	
100- kernel mass (g)	42.0	
Special characters	Tolerant to PBND, stem rot, thrips, leaf miner and <i>Spodoptera litura</i>	

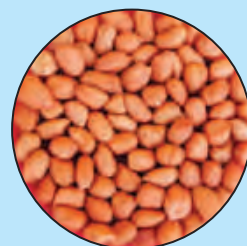
Phule Unap (JL 286)

Year of release	2004
Developed by	MPKV, Jalgaon
Method of breeding	Pedigree
Recommended state (s)	Maharashtra
Growing season	Rabi-summer
State/central release	State
Pod yield (kg/ha)	2230
Kernel yield (kg/ha)	1650
Shelling (%)	74.0
Oil content (%)	49-50
Maturity days (d)	93-95
Testa colour	Brick red
100- kernel mass (g)	37-38
Special characters	Early maturity; tolerant to LLS, rust, stem rot, thrips, leaf miner and <i>Spodoptera litura</i>

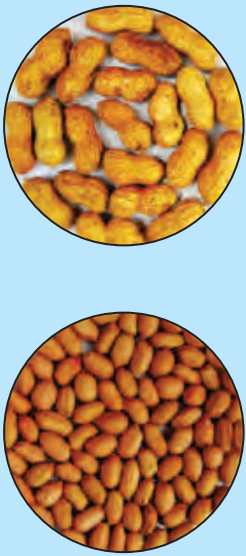


Prutha (Dh 86)

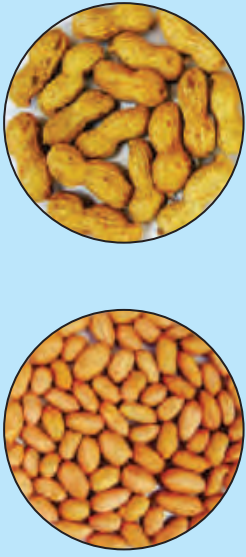
Year of release	2005
Developed by	UAS, Dharwad
Method of breeding	Pedigree
Recommended state (s)	Gujarat, Southern Rajasthan, Maharashtra, Odisha and West Bengal
Growing season	Rabi-summer
State/central release	Central
Pod yield (kg/ha)	4020
Kernel yield (kg/ha)	2734
Shelling (%)	68.0
Oil content (%)	48.0
Maturity days (d)	125-127
Testa colour	Tan
100- kernel mass (g)	43.0
Special characters	Semi dwarf with high harvest index; tolerant to leaf spots and sucking pests



Kadiri 5

Year of release	2005	
Developed by	ANGRAU, Kadiri	
Method of breeding	Pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2200	
Kernel yield (kg/ha)	1540	
Shelling (%)	70.0	
Oil content (%)	48.0	
Maturity days (d)	100-110	
Testa colour	Rose	
100- kernel mass (g)	44.0	
Special characters	Drought tolerant; tolerant to LLS	

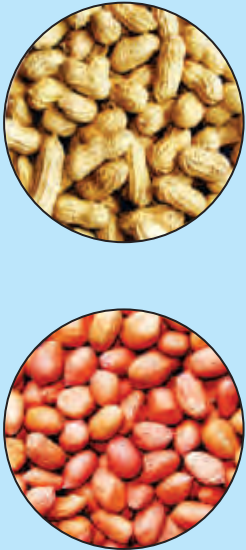
Kadiri 6 (K 1240)

Year of release	2005	
Developed by	ANGRAU, Kadiri	
Method of breeding	Pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	3100-3800	
Kernel yield (kg/ha)	2170-2660	
Shelling (%)	70.0	
Oil content (%)	49.0	
Maturity days (d)	100-105	
Testa colour	Tan	
100- kernel mass (g)	39.0	
Special characters	Tolerant to leaf spots	

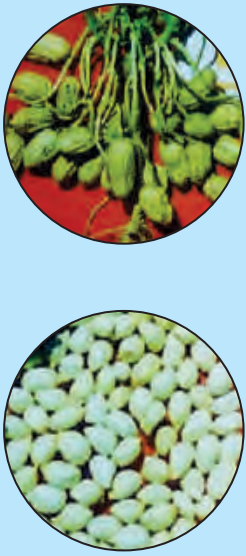
Pratap Mugphali 1 (ICUG 92035)

Year of release	2005	
Developed by	MPUA&T, Udaipur	
Method of breeding	Bulk pedigree	
Recommended state (s)	Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2500-3000	
Kernel yield (kg/ha)	1550-1860	
Shelling (%)	62.0	
Oil content (%)	48-50	
Maturity days (d)	108	
Testa colour	Rose	
100- kernel mass (g)	40.0	
Special characters	Tolerant to ELS, LLS, PBNB, <i>Spodoptera litura</i> , leaf miner and thrips	

Pratap Mugphali 2 (ICUG 92195)

Year of release	2005	
Developed by	MPUA&T, Udaipur	
Method of breeding	Bulk pedigree	
Recommended state (s)	Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1800-2800	
Kernel yield (kg/ha)	1242-1932	
Shelling (%)	69	
Oil content (%)	48-50	
Maturity days (d)	105	
Testa colour	Monochrome pink	
100- kernel mass (g)	38	
Special characters	Tolerant to ELS, LLS, PBNB, <i>Spodoptera litura</i> , leaf miner and thrips	

Ratneshwar (LGN 1)

Year of release	2005	
Developed by	MAU, Latur	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1490	
Kernel yield (kg/ha)	1028	
Shelling (%)	69.0	
Oil content (%)	51.2	
Maturity days (d)	105	
Testa colour	Rose	
100- kernel mass (g)	32.0	
Special characters	Tolerant to LLS, stem rot, rust and PBND	

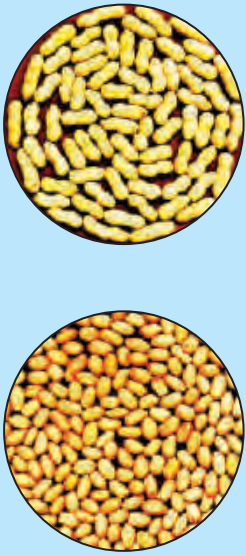
GG 8 (J 53)

Year of release	2006	
Developed by	IAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Northern Maharashtra and Madhya Pradesh	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1710	
Kernel yield (kg/ha)	1180	
Shelling (%)	69.0	
Oil content (%)	46.0	
Maturity days (d)	104-107	
Testa colour	Rose	
100- kernel mass (g)	35.0	
Special characters	Tolerant to PBND, collar rot and other rot diseases	

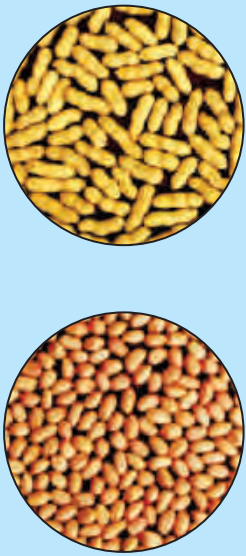
TG 38B (TG 38)

Year of release	2006	
Developed by	BARC, Trombay	
Method of breeding	Mutation breeding and pedigree method	
Recommended state (s)	Odisha, West Bengal, Bihar and North Eastern States	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2770	
Kernel yield (kg/ha)	1967	
Shelling (%)	71.0	
Oil content (%)	48.0	
Maturity days (d)	115-125	
Testa colour	Monochrome pink	
100- kernel mass (g)	44.0	
Special characters	Tolerant to stem rot	

Prasuna (TCGS 341)

Year of release	2006	
Developed by	ANGRAU, Tirupati	
Method of breeding	Modified pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2000 (<i>kharif</i>); 4000 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1500 (<i>kharif</i>); 3000 (<i>rabi</i> -summer)	
Shelling (%)	75.0	
Oil content (%)	50.0	
Maturity days (d)	110	
Testa colour	Rose	
100- kernel mass (g)	45-50	
Special characters	Tolerant to Kalahasti malady	

Abhaya (TPT 25)

Year of release	2006	
Developed by	ANGRAU, Tirupati	
Method of breeding	Single seed descent method with trait based selection	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2300 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1748 (<i>kharif</i>); 2858 (<i>rabi</i> -summer)	
Shelling (%)	76.0	
Oil content (%)	52.3	
Maturity days (d)	106	
Testa colour	Rose	
100- kernel mass (g)	38-40	
Special characters	Tolerant to early and mid-season moisture deficit stress, LLS, sucking insects (jassids and thrips) and <i>Spodoptera litura</i>	

TMV (Gn) 13

Year of release	2006	
Developed by	TNAU, Coimbatore	
Method of breeding	Selection	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2580	
Kernel yield (kg/ha)	1935	
Shelling (%)	75.0	
Oil content (%)	50.0	
Maturity days (d)	105	
Testa colour	Red	
100- kernel mass (g)	40-42	
Special characters	Tolerant to early and mid-season moisture deficit stress, LLS, rust and PBNB	

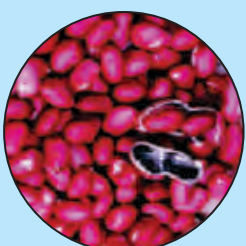
Vasundhara (Dh 101)

Year of release	2007	
Developed by	UAS, Dharwad	
Method of breeding	Pedigree	
Recommended state (s)	West Bengal, Odisha, Jharkhand, and Assam	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2870	
Kernel yield (kg/ha)	1923	
Shelling (%)	67.0	
Oil content (%)	50.0	
Maturity days (d)	120-130	
Testa colour	-	
100- kernel mass (g)	35.0	
Special characters	Tolerant to stem rot, PBNB, thrips and <i>Spodoptera litura</i>	

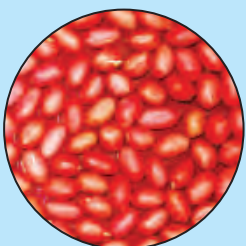
ICGV 91114

Year of release	2007	
Developed by	ICRISAT, Hyderabad	
Method of breeding	Bulk pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2000	
Kernel yield (kg/ha)	1500	
Shelling (%)	75.0	
Oil content (%)	48.0	
Maturity days (d)	90-95	
Testa colour	Light tan	
100- kernel mass (g)	41.0	
Special characters	Early maturity, tolerant to rust and LLS	

Kalahasti (TCGS 320)

Year of release	2007	 
Developed by	ANGRAU, Tirupati	
Method of breeding	Modified pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	1400 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1050 (<i>kharif</i>); 2820 (<i>rabi</i> -summer)	
Shelling (%)	75.0	
Oil content (%)	52.3	
Maturity days (d)	110	
Testa colour	Red	
100- kernel mass (g)	50-60	
Special characters	Suitable for <i>rabi</i> situation for kalahasti malady endemic areas and also for <i>kharif</i> in North Coastal and Andhra Pradesh; tolerant to bud necrosis; resistant to jassids	

Narayani (TCGS 29)

Year of release	2007	 
Developed by	ANGRAU, Tirupati	
Method of breeding	Modified Pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2250 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1665 (<i>kharif</i>); 2782 (<i>rabi</i> -summer)	
Shelling (%)	74.0	
Oil content (%)	47.5	
Maturity days (d)	100	
Testa colour	Light red	
100- kernel mass (g)	40-45	
Special characters	Early maturity and tolerant to mid season moisture deficit stress	

TG 51

Year of release	2008	
Developed by	BARC, Trombay	
Method of breeding	Pedigree	
Recommended state (s)	West Bengal, Odisha, Jharkhand and Assam	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2670	
Kernel yield (kg/ha)	1816	
Shelling (%)	68.0	
Oil content (%)	49.0	
Maturity days (d)	124	
Testa colour	Rose	
100- kernel mass (g)	39.0	
Special characters	Tolerant to stem and root rot	

Ajeya (R 2001-3)

Year of release	2008	
Developed by	UAS, Raichur	
Method of breeding	Bulk pedigree	
Recommended state (s)	Southern Maharashtra, Karnataka, Andhra Pradesh and Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2440	
Kernel yield (kg/ha)	1659	
Shelling (%)	68.0	
Oil content (%)	46-48	
Maturity days (d)	105-120	
Testa colour	Salmon	
100- kernel mass (g)	30-36	
Special characters	Drought tolerant, wider adaptability and resistant to PBNB	

VL- Moongphali-1

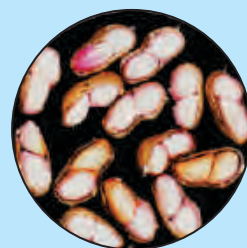
Year of release	2008
Developed by	VPKAS, Almora
Method of breeding	Selection
Recommended state (s)	Uttarakhand
Growing season	<i>Kharif</i>
State/central release	State
Pod yield (kg/ha)	1940
Kernel yield (kg/ha)	1408
Shelling (%)	72.6
Oil content (%)	42.2
Maturity days (d)	125-130
Testa colour	Rose tan
100- kernel mass (g)	42.0
Special characters	Resistant to LLS and root rot diseases

VRI (Gn) 6 (VG 9816)

Year of release	2009	
Developed by	TNAU, Vriddhachalam	
Method of breeding	Pedigree	
Recommended state (s)	Southern Maharashtra, Karnataka, Andhra Pradesh and Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2260	
Kernel yield (kg/ha)	1492	
Shelling (%)	66.0	
Oil content (%)	47.0	
Maturity days (d)	100-106	
Testa colour	Light rose	
100- kernel mass (g)	29.0	
Special characters	Tolerant to LLS, rust and PBNB	

Jawahar Groundnut 23 (JGN 23)

Year of release	2009
Developed by	JNKVV, Khargone
Method of breeding	Bulk pedigree
Recommended state (s)	Madhya Pradesh
Growing season	<i>Kharif</i>
State/central release	State
Pod yield (kg/ha)	1630
Kernel yield (kg/ha)	1141
Shelling (%)	70.0
Oil content (%)	49.0
Maturity days (d)	104
Testa colour	Tan
100- kernel mass (g)	36.0
Special characters	Drought tolerant; tolerant to ELS and LLS

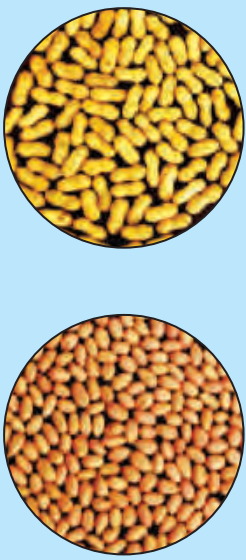


Kadiri 9

Year of release	2009
Developed by	ANGRAU, Kadiri
Method of breeding	Modified pedigree method
Recommended state (s)	Andhra Pradesh
Growing season	<i>Kharif</i>
State/central release	State
Pod yield (kg/ha)	2750.0
Kernel yield (kg/ha)	1870
Shelling (%)	68.0
Oil content (%)	50.0
Maturity days (d)	105-110
Testa colour	Rose
100- kernel mass (g)	31-35
Special characters	Tolerant to early and late season drought



Greeshma

Year of release	2009	
Developed by	ANGRAU, Tirupati	
Method of breeding	Modified pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2100 (<i>kharif</i>); 4000 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1575 (<i>kharif</i>); 3000 (<i>rabi</i> -summer)	
Shelling (%)	75.0	
Oil content (%)	48-50	
Maturity days (d)	95-100	
Testa colour	Rose with flesh tinge	
100- kernel mass (g)	42-45	
Special characters	Tolerant to drought, high temperature, aflatoxin and LLS; early maturing	

JL 501

Year of release	2010	
Developed by	MPKV, Jalgaon	
Method of breeding	Selection	
Recommended state (s)	Gujarat and Southern Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1660	
Kernel yield (kg/ha)	1112	
Shelling (%)	67.0	
Oil content (%)	48.0	
Maturity days (d)	102	
Testa colour	Light Tan	
100- kernel mass (g)	36.0	
Special characters	Suitable for early as well as late sown conditions	

Vijetha (R 2001-2)

Year of release	2010	
Developed by	UAS, Raichur	
Method of breeding	Pedigree	
Recommended state (s)	WB, Odisha, Jharkhand, Assam, Maharashtra, Karnataka, AP and TN	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1630 (Zone IV); 2522 (Zone V)	
Kernel yield (kg/ha)	1108 (Zone IV); 1715 (Zone V)	
Shelling (%)	68.0	
Oil content (%)	46-48	
Maturity days (d)	105-110	
Testa colour	Salmon	
100-kernel mass (g)	30-36	
Special characters	Resistant to PBNB	

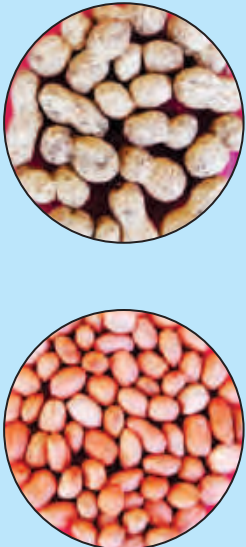
Girnar 3 (PBS 12160)

Year of release	2010	
Developed by	DGR, Junagadh	
Method of breeding	Bulk pedigree	
Recommended state (s)	West Bengal, Odisha, Manipur	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1520	
Kernel yield (kg/ha)	1064	
Shelling (%)	70.0	
Oil content (%)	45.0	
Maturity days (d)	104-111	
Testa colour	Rose	
100-kernel mass (g)	34.0	
Special characters	Tolerant of leaf miner and thrips	

Kadiri Harithandhra (K 1319)

Year of release	2010	
Developed by	ANGRAU, Kadiri	
Method of breeding	Modified pedigree	
Recommended state (s)	Karnataka and Maharashtra	
Growing season	Rabi-summer	
State/central release	Central	
Pod yield (kg/ha)	3720	
Kernel yield (kg/ha)	2530	
Shelling (%)	68.0	
Oil content (%)	48.0	
Maturity days (d)	122	
Testa colour	Rose	
100-kernel mass (g)	41.0	
Special characters	Fresh seed dormancy upto 20 days; multiple diseases (rust, ELS, LLS, stem rot, PBNB) and insect pests (thrips, <i>Spodoptera litura</i> , jassid, <i>Helicoverpa</i>) resistance	

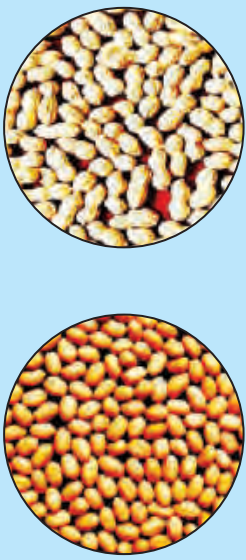
GPBD-5

Year of release	2010	
Developed by	UAS, Dharwad	
Method of breeding	Pedigree	
Recommended state (s)	Jharkhand and Manipur	
Growing season	Kharif	
State/central release	Central	
Pod yield (kg/ha)	1500	
Kernel yield (kg/ha)	1020	
Shelling (%)	68.0	
Oil content (%)	46.0	
Maturity days (d)	105-110	
Testa colour	Tan	
100-kernel mass (g)	37.0	
Special characters	Resistant to LLS and rust	

RARS-T-1

Year of release	2011	
Developed by	ANGRAU, Tirupati	
Method of breeding	Pedigree method	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2500 (<i>kharif</i>); 4000 (<i>rabi</i>)	
Kernel yield (kg/ha)	1575 (<i>kharif</i>); 2520 (<i>rabi</i>)	
Shelling (%)	63	
Oil content (%)	44	
Maturity days (d)	115	
Testa colour	-	
100-kernel mass (g)	-	
Special characters	Large seeded; tolerant to leaf spots and rust, sucking pests (thrips and jassids)	

RARS-T-2 (TCGS APNL 913)

Year of release	2011	
Developed by	ANGRAU, Tirupati	
Method of breeding	Pedigree	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	3734 (<i>kharif</i>); 4200 (<i>rabi</i>)	
Kernel yield (kg/ha)	2614 (<i>kharif</i>); 2940 (<i>rabi</i>)	
Shelling (%)	70	
Oil content (%)	48	
Maturity days (d)	90-95	
Testa colour	-	
100-kernel mass (g)	-	
Special characters	Early maturity; moderate tolerance to <i>Spodoptera litura</i> and leaf hoppers	

Pratap Raj Mungphali

Year of release	2011	
Developed by	MPUA and T, Udaipur	
Method of breeding	Bulk Pedigree	
Recommended state (s)	Rajasthan	
Growing season	<i>Kharif</i> and summer	
State/central release	State	
Pod yield (kg/ha)	1432	
Kernel yield (kg/ha)	974	
Shelling (%)	68	
Oil content (%)	48	
Maturity days (d)	97	
Testa colour	Rose	
100-kernel mass (g)	42	
Special characters	Early maturity; tolerant to ELS, LLS, PBND, jassids, thrips and leaf miner and <i>Spodoptera litura</i>	

ICGV 00350

Year of release	2012	
Developed by	ANGRAU, Tirupati	
Method of breeding	Bulk Pedigree	
Recommended state (s)	TN and AP	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2988	
Kernel yield (kg/ha)	1942	
Shelling (%)	65	
Oil content (%)	50	
Maturity days (d)	114	
Testa colour	Rose	
100-kernel mass (g)	38	
Special characters	Resistant to LLS and rust, tolerant to stem rot	

GJG 31 (J 71)

Year of release	2012	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	Summer	
State/central release	State	
Pod yield (kg/ha)	3483	
Kernel yield (kg/ha)	2460	
Shelling (%)	70.62	
Oil content (%)	49.24	
Maturity days (d)	117	
Testa colour	Rose	
100-kernel mass (g)	40.77	
Special characters	Tolerant to stem rot	

GJG 9 (J 69)

Year of release	2012	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1632	
Kernel yield (kg/ha)	1175	
Shelling (%)	72	
Oil content (%)	48	
Maturity days (d)	103	
Testa colour	Rose	
100-kernel mass (g)	37	
Special characters	Tolerant to stem rot	

Dharani (TCGS 1043)

Year of release	2013	
Developed by	ANGRAU, Tirupati	
Method of breeding	Modified pedigree method	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and summer	
State/central release	State	
Pod yield (kg/ha)	1887 (<i>kharif</i>); 2666 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1434 (<i>kharif</i>); 2026 (<i>rabi</i> -summer)	
Shelling (%)	76	
Oil content (%)	48-50	
Maturity days (d)	105-110	
Testa colour	Light rose	
100-kernel mass (g)	38-43	
Special characters	Drought tolerant; tolerant to stem and dry root rot	

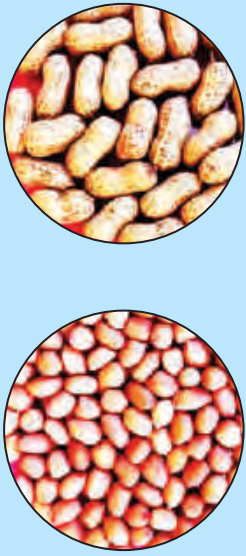
Co 7

Year of release	2015	
Developed by	TNAU, Coimbatore	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i> and summer	
State/central release	State	
Pod yield (kg/ha)	2300 (<i>kharif</i>); 2806 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1633 (<i>kharif</i>); 1992 (<i>rabi</i> -summer)	
Shelling (%)	71	
Oil content (%)	51	
Maturity days (d)	100-105	
Testa colour	Tan	
100-kernel mass (g)	35-44	
Special characters	Resistant to rust	

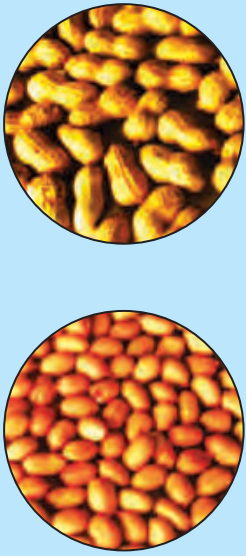
Phule Bharti (JL 776)

Year of release	2015	
Developed by	MPKV, Jalgaon	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra and Madhya Pradesh	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2110	
Kernel yield (kg/ha)	1456	
Shelling (%)	69	
Oil content (%)	50	
Maturity days (d)	108	
Testa colour	Rose	
100-kernel mass (g)	35	
Special characters	Resistant to <i>S. litura</i> and rust	

G 2-52

Year of release	2015	
Developed by	UAS, Dharwad	
Method of breeding	Induced mutation	
Recommended state (s)	Karnataka	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2000-2500	
Kernel yield (kg/ha)	1420-1775	
Shelling (%)	71	
Oil content (%)	48	
Maturity days (d)	105-110	
Testa colour	Tan	
100-kernel mass (g)	40	
Special characters	Foliar disease resistant	

KCG 6 (CTMG 6)

Year of release	2016	
Developed by	UAS, Bangaluru	
Method of breeding	Bulk Pedigree	
Recommended state (s)	Karnataka	
Growing season	<i>Rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	3663	
Kernel yield (kg/ha)	2454	
Shelling (%)	67	
Oil content (%)	51	
Maturity days (d)	116	
Testa colour	Tan	
100-kernel mass (g)	39	
Special characters	Moderately resistance to rust and late leaf spot	

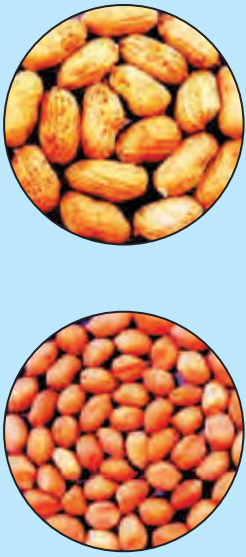
GKVK 5

Year of release	2016	
Developed by	UAS, GKVK, Bangaluru	
Method of breeding	Pedigree method	
Recommended state (s)	Southern Karnataka	
Growing season	<i>Kharif</i> and summer	
State/central release	State	
Pod yield (kg/ha)	2500-2800	
Kernel yield (kg/ha)	1850-2072	
Shelling (%)	74	
Oil content (%)	50	
Maturity days (d)	115-120	
Testa colour	-	
100-kernel mass (g)	46	
Special characters	Drought tolerant; moderately resistant to rust and LLS	

ALG -06-320

Year of release	2017	
Developed by	TNAU, Tindivanam	
Method of breeding	Bulk Pedigree	
Recommended state (s)	Tamil Nadu and Andhra Pradesh	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2741	
Kernel yield (kg/ha)	1938	
Shelling (%)	71	
Oil content (%)	50.3	
Maturity days (d)	115	
Testa colour	Light tan	
100-kernel mass (g)	35	
Special characters	Tolerant to rust, LLS and PBND, <i>S. litura</i> , leaf miner and thrips	

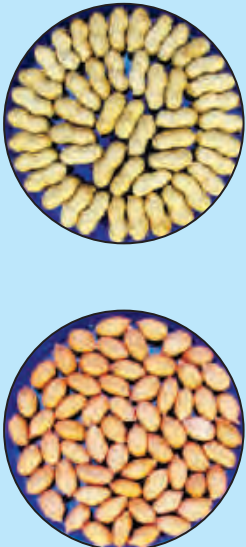
Kadiri Amaravathi (K 1535)

Year of release	2017	
Developed by	ANGRAU, Kadiri	
Method of breeding	Modified pedigree method	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1600-1800	
Kernel yield (kg/ha)	1040-1170	
Shelling (%)	65	
Oil content (%)	50	
Maturity days (d)	110-115	
Testa colour	Rose	
100-kernel mass (g)	48	
Special characters	Tolerant to early and late season drought, leaf spot and sucking pests (thrips and jassids)	

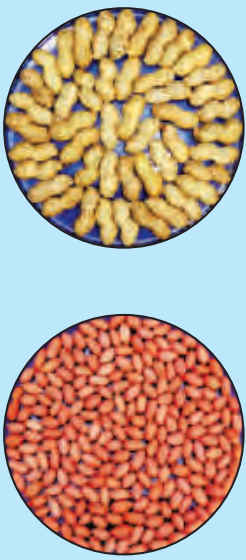
VRI 8 (VG 09220)

Year of release	2017	
Developed by	TNAU, Vridhachalam	
Method of breeding	Pedigree method	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i> and summer	
State/central release	State	
Pod yield (kg/ha)	2130 (<i>kharif</i>); 2700 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1491 (<i>kharif</i>); 1890 (<i>rabi</i> -summer)	
Shelling (%)	70	
Oil content (%)	49	
Maturity days (d)	105-110	
Testa colour	-	
100-kernel mass (g)	44	
Special characters	Moderately resistant to sucking pest (jassids and thrips), LLS and rust	

GJG 32 (ICGV 03043)

Year of release	2018	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu, Andhra Pradesh, Karnataka, Southern Maharashtra and Telangana, Gujarat (Area expansion)	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1947	
Kernel yield (kg/ha)	1285	
Shelling (%)	66	
Oil content (%)	50	
Maturity days (d)	109	
Testa colour	Monochrome rose	
100-kernel mass (g)	35	
Special characters	Tolerant to stem and color rot and rust	

GJG 33 (ICGV 07222)

Year of release	2018	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu, Andhra Pradesh, and Telangana	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	3064	
Kernel yield (kg/ha)	2053	
Shelling (%)	67	
Oil content (%)	51	
Maturity days (d)	113	
Testa colour	Monochrome rose	
100-kernel mass (g)	38	
Special characters	Tolerant to color rot and rust	

Dh-232

Year of release	2018	
Developed by	UAS, Dharwad	
Method of breeding	Pedigree	
Recommended state (s)	Karnataka	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2500-3000	
Kernel yield (kg/ha)	1968-2361	
Shelling (%)	78.7	
Oil content (%)	46.9	
Maturity days (d)	105-110	
Testa colour	Tan	
100-kernel mass (g)	35-40	
Special characters	High Shelling (78.7%); resistant to foliar diseases	

Dh-245

Year of release	2018	
Developed by	UAS, Dharwad	
Method of breeding	Mutation	
Recommended state (s)	Karnataka	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2500-2900	
Kernel yield (kg/ha)	1825-2117	
Shelling (%)	73	
Oil content (%)	45.9	
Maturity days (d)	105-108	
Testa colour	Tan	
100-kernel mass (g)	32-36	
Special characters	High oleic acid (>70%); resistance to foliar diseases	

Nitya Haritha (TCGS 1157)

Year of release	2018	
Developed by	ANGRAU, Tirupati	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra and Madhya Pradesh	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2657	
Kernel yield (kg/ha)	1833	
Shelling (%)	69	
Oil content (%)	49	
Maturity days (d)	110	
Testa colour	Monochrome rose	
100-kernel mass (g)	47	
Special characters	Tolerance against late leaf spot, rust and PSND	

Avtar (ICGV 93468)

Year of release	2018	
Developed by	CSAUAT, Kanpur	
Method of breeding	Pedigree	
Recommended state (s)	Uttar Pradesh	
Growing season	<i>Rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2400	
Kernel yield (kg/ha)	1694	
Shelling (%)	71	
Oil content (%)	51.1	
Maturity days (d)	85-95	
Testa colour	Red	
100-kernel mass (g)	40	
Special characters	Early maturity; tolerant to PBNB, fungal diseases, Jassid and pod borer	

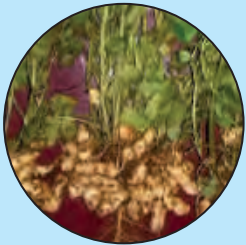
TMV 14

Year of release	2019	 
Developed by	TNAU, Tindivanam	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2124	
Kernel yield (kg/ha)	1500	
Shelling (%)	71	
Oil content (%)	48	
Maturity days (d)	95-100	
Testa colour	Rose	
100-kernel mass (g)	38	
Special characters	Early maturity; tolerant to <i>S. litura</i> , thrips, leaf minor; moderately resistance to LLS and rust	

Phule Chaitanya (Central- KDG 160)

Year of release	2019	 
Developed by	MPKV, Digraj	
Method of breeding	Selection	
Recommended state (s)	Tamil Nadu, Telangana, and Andhra Pradesh	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2184	
Kernel yield (kg/ha)	1457	
Shelling (%)	66.69	
Oil content (%)	51.6	
Maturity days (d)	116	
Testa colour	Red	
100-kernel mass (g)	43.1	
Special characters	High oil content	

AK 335 (PDKVG-335)

Year of release	2019	 
Developed by	PDKV, Akola	
Method of breeding	Selection	
Recommended state (s)	Maharashtra	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2200-2400	
Kernel yield (kg/ha)	1511-1649	
Shelling (%)	68.7	
Oil content (%)	48-49	
Maturity days (d)	110-113	
Testa colour	Rose	
100-kernel mass (g)	35-40	
Special characters	Moderately resistance to leaf spots, color rot, stem rot, jassid, thrips, and aphids	

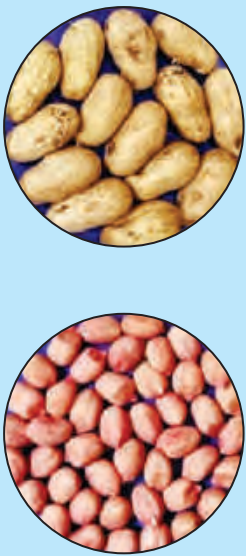
Phule Unnati (RHRG 6083)

Year of release	2019	 
Developed by	MPKV, Rahuri	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra	
Growing season	<i>Kharif</i> and <i>rabi</i> - Summer	
State/central release	State	
Pod yield (kg/ha)	2854 (<i>kharif</i>); 3990 (<i>rabi</i> -Summer)	
Kernel yield (kg/ha)	1941 (<i>kharif</i>); 2713 (<i>rabi</i> -Summer)	
Shelling (%)	68	
Oil content (%)	52	
Maturity days (d)	111-128	
Testa colour	Red	
100-kernel mass (g)	42	
Special characters	High oil; resistance to LLS, stem rot, rust, <i>S. litura</i> , and thrips	

Phule Dhani (JL 1085)

Year of release	2019	 
Developed by	MPKV, Rahuri	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu, Andhra Pradesh and Karnataka	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	3333	
Kernel yield (kg/ha)	2266	
Shelling (%)	68	
Oil content (%)	50	
Maturity days (d)	109	
Testa colour	Tan	
100-kernel mass (g)	38	
Special characters	Resistant to LLS and rust	

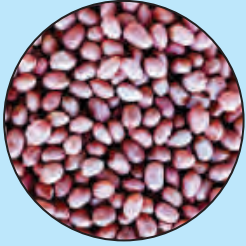
Gujarat Groundnut-34 (GG 34)

Year of release	2019	
Developed by	AAU, Anand	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	Summer	
State/central release	State	
Pod yield (kg/ha)	3715	
Kernel yield (kg/ha)	2522	
Shelling (%)	67.9	
Oil content (%)	52.8	
Maturity days (d)	111-125	
Testa colour	Monochrome	
100-kernel mass (g)	50.9	
Special characters	High Oil content	

Dheeraj (TCGS 1073)

Year of release	2019	
Developed by	ANGRAU, Tirupati	
Method of breeding	Modified pedigree method	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i> and summer	
State/central release	State	
Pod yield (kg/ha)	2547 (<i>kharif</i>); 3690 (summer)	
Kernel yield (kg/ha)	1962 (<i>kharif</i>); 2841 (summer)	
Shelling (%)	77	
Oil content (%)	48-49	
Maturity days (d)	105-115	
Testa colour	Light rose	
100-kernel mass (g)	54-70	
Special characters	Water use efficient and tolerant to heat	

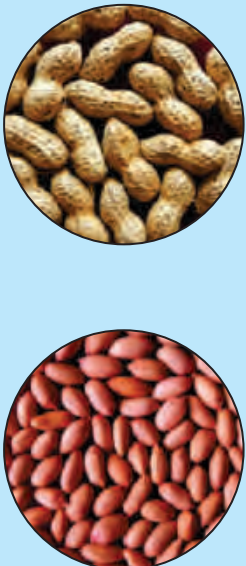
BSR 2 (BSG 0912)

Year of release	2019	 
Developed by	TNAU, Bhavanisagar	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i> and <i>rabi</i> -summer	
State/central release	State	
Pod yield (kg/ha)	2222 (<i>kharif</i>); 2360 (<i>rabi</i> -summer)	
Kernel yield (kg/ha)	1560 (<i>kharif</i>); 1657 (<i>rabi</i> -summer)	
Shelling (%)	70.2	
Oil content (%)	45	
Maturity days (d)	105-110	
Testa colour	Tan	
100-kernel mass (g)	41	
Special characters	Moderately resistance to rust, LLS, jassid, thrips and aphids	

Pragati (TCGS 894)

Year of release	2019	 
Developed by	ANGRAU, Tirupati	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu, Telangana, and Andhra Pradesh	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	2816	
Kernel yield (kg/ha)	1971	
Shelling (%)	70	
Oil content (%)	48	
Maturity days (d)	115	
Testa colour	Monochrome rose	
100-kernel mass (g)	41	
Special characters	-	

Dh 256

Year of release	2019	
Developed by	UAS, Dharwad	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu, Andhra Pradesh, Karnataka and Telangana	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	3258	
Kernel yield (kg/ha)	2215	
Shelling (%)	68	
Oil content (%)	50	
Maturity days (d)	110-115	
Testa colour	Dark tan	
100-kernel mass (g)	36	
Special characters	Tolerant to mid season drought, <i>S. litura</i> , thrips and leaf miner and leaf hopper	

Pratap Mungphli 3 (UG 116)

Year of release	2020	
Developed by	MPAUT, Udaipur	
Method of breeding	-	
Recommended state (s)	Rajasthan,	
Growing season	<i>Kharif</i> and summer	
State/central release	State	
Pod yield (kg/ha)	3388	
Kernel yield (kg/ha)	2372	
Shelling (%)	70	
Oil content (%)	47	
Maturity days (d)	108	
Testa colour	Monochrome-Pink	
100-kernel mass (g)	44	
Special characters	Moderately tolerant to ELS, LLS, rust, collar rot and dry root rot; moderately resistant to <i>Spodoptera litura</i> , leaf miner, defoliators, jassids, thrips and leafhopper	

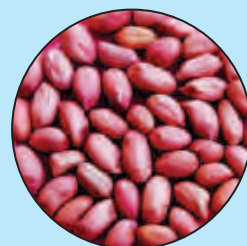
Jagtial Palli 1 (JGC 2141)

Year of release	2020
Developed by	PJTSAU, Jagtial
Method of breeding	Pedigree
Recommended state (s)	Telangana
Growing season	<i>Kharif</i> and summer
State/central release	State
Pod yield (kg/ha)	3330-3500
Kernel yield (kg/ha)	2131-2240
Shelling (%)	64
Oil content (%)	51.5
Maturity days (d)	110
Testa colour	Rose
100-kernel mass (g)	29
Special characters	Tolerant to early season drought; resistant to leaf spots and rust diseases; tolerant to thrips and Jassids



ICGV 06189

Year of release	2020
Developed by	UAS, Dharwad
Method of breeding	Modified pedigree with single seed descent method
Recommended state (s)	Karnataka
Growing season	<i>Kharif</i>
State/central release	State
Pod yield (kg/ha)	2100-2500
Kernel yield (kg/ha)	1560-1858
Shelling (%)	74.3
Oil content (%)	43
Maturity days (d)	105-110
Testa colour	Tan
100-kernel mass (g)	65-75
Special characters	High yield with confectionary traits



K 1719 (Kadiri Chithravathi)

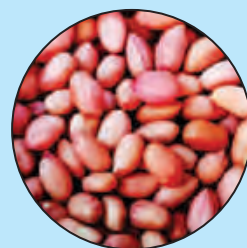
Year of release	2021	
Developed by	ANGRAU, Kadiri	
Method of breeding	Pedigree	
Recommended state (s)	Andhra Pradesh, Telangana, and Tamil Nadu	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	3092	
Kernel yield (kg/ha)	2164	
Shelling (%)	70	
Oil content (%)	49	
Maturity days (d)	113	
Testa colour	Rose	
100-kernel mass (g)	54	
Special characters	Tolerant to collar rot, PBNB and thrips	

Dh 257

Year of release	2021	
Developed by	UAS, Dharwad	
Method of breeding	Pedigree	
Recommended state (s)	Karnataka and Maharashtra	
Growing season	<i>Rabi</i> -summer	
State/central release	Central	
Pod yield (kg/ha)	3397	
Kernel yield (kg/ha)	2446	
Shelling (%)	72	
Oil content (%)	48	
Maturity days (d)	120-125	
Testa colour	Tan	
100-kernel mass (g)	44	
Special characters	Tolerant to drought	

K 1812 (Kadiri Lepakshi)

Year of release	2021
Developed by	ANGRAU, Kadiri
Method of breeding	Modified Pedigree
Recommended state (s)	AP, Telangana, Karnataka and Tamilnadu
Growing season	<i>Kharif</i>
State/central release	Central
Pod yield (kg/ha)	3514
Kernel yield (kg/ha)	2460
Shelling (%)	70
Oil content (%)	51
Maturity days (d)	107-113
Testa colour	Rose
100-kernel mass (g)	40
Special characters	Tolerant to drought, multiple disease and pests resistant



J 87 (Gujarat Groundnut 36)

Year of release	2021
Developed by	JAU, Junagadh
Method of breeding	Pedigree
Recommended state (s)	Punjab and Uttar Pradesh
Growing season	<i>Rabi</i> -summer
State/central release	Central
Pod yield (kg/ha)	4165
Kernel yield (kg/ha)	2916
Shelling (%)	70
Oil content (%)	50
Maturity days (d)	108
Testa colour	Monochrome rose
100-kernel mass (g)	63
Special characters	High yielding and bold kernel



B. Virginia Bunch

Manjra (LGN 2)

Year of release	2001
Developed by	MAU, Latur
Method of breeding	Pedigree
Recommended state (s)	Gujarat and Southern Rajasthan
Growing season	<i>Kharif</i>
State/central release	Central
Pod yield (kg/ha)	1500-2000
Kernel yield (kg/ha)	1020-1360
Shelling (%)	68.0
Oil content (%)	49.0
Maturity days (d)	115-120
Testa colour	Dark rose
100-kernel mass (g)	43-48
Special characters	Suitable for early sown rainfed conditions; tolerant to sucking pests (Jassids and Leaf miner)

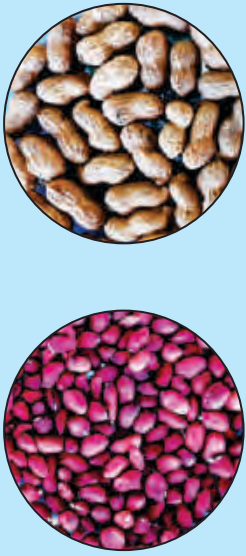
Sneha

Year of release	2002
Developed by	KAU, Vellayani
Method of breeding	Pedigree
Recommended state (s)	Kerala
Growing season	<i>Kharif</i>
State/central release	State
Pod yield (kg/ha)	3820
Kernel yield (kg/ha)	-
Shelling (%)	-
Oil content (%)	-
Maturity days (d)	115
Testa colour	-
100-kernel mass (g)	-
Special characters	Early maturity

Snigdha

Year of release	2002
Developed by	KAU, Vellayani
Method of breeding	Pedigree
Recommended state (s)	Kerala
Growing season	<i>Kharif</i>
State/central release	State
Pod yield (kg/ha)	3550
Kernel yield (kg/ha)	-
Shelling (%)	-
Oil content (%)	-
Maturity days (d)	115
Testa colour	-
100-kernel mass (g)	-
Special characters	Resistant to pest and diseases

Co(Gn) 5

Year of release	2005	
Developed by	TNAU, Vriddhachalam	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1580	
Kernel yield (kg/ha)	1166	
Shelling (%)	73.8	
Oil content (%)	53.8	
Maturity days (d)	125	
Testa colour	Red	
100-kernel mass (g)	46.0	
Special characters	Tolerant to rust, PBNB, leaf miner and <i>Spodoptera</i>	

GG 21 (JSSP 15)

Year of release	2005	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Uttar Oradesh, Punjab, and Northern Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1840	
Kernel yield (kg/ha)	1178	
Shelling (%)	64.0	
Oil content (%)	53.0	
Maturity days (d)	123	
Testa colour	Monochrome rose	
100-kernel mass (g)	53.0	
Special characters	High oil content	

AK 265

Year of release	2007	
Developed by	PDKV, Akola	
Method of breeding	Pedigree	
Recommended state (s)	Southern Maharashtra, Karnataka, Andhra Pradesh, and Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1900	
Kernel yield (kg/ha)	1292	
Shelling (%)	68.0	
Oil content (%)	47.0	
Maturity days (d)	120	
Testa colour	Rose	
100-kernel mass (g)	42.0	
Special characters	Drought tolerant, resistant to foliar diseases	

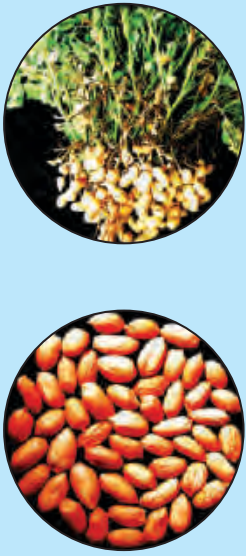
TBG 39 (TG 39)

Year of release	2007	
Developed by	RAU, Bikaner	
Method of breeding	Pedigree	
Recommended state (s)	Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	3150	
Kernel yield (kg/ha)	2032	
Shelling (%)	64.5	
Oil content (%)	50.0	
Maturity days (d)	116	
Testa colour	Rose	
100-kernel mass (g)	66.2	
Special characters	Large seeded and high yielding; moderately resistant to rust, LLS and stem root	

AK 303

Year of release	2007	 
Developed by	PDKV, Akola	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2100	
Kernel yield (kg/ha)	1512	
Shelling (%)	72.0	
Oil content (%)	49.0	
Maturity days (d)	125	
Testa colour	Tan	
100-kernel mass (g)	80.0	
Special characters	Large seeded	

Girnar 2 (PBS-24030)

Year of release	2008	
Developed by	NRCG, Junagadh	
Method of breeding	Selection	
Recommended state (s)	Uttar Pradesh, Punjab, and Northern Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2910	
Kernel yield (kg/ha)	2008	
Shelling (%)	69.0	
Oil content (%)	51.0	
Maturity days (d)	130	
Testa colour	Salmon	
100-kernel mass (g)	61.0	
Special characters	Large seeded; stay green leaves at harvest; tolelant to rust, LLS, PSND and sucking pests	

ICGV 00348

Year of release	2008	
Developed by	TNAU, Viriddhachalam	
Method of breeding	Pedigree	
Recommended state (s)	Southern Maharashtra, Karnataka, Andhra Pradesh and Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2010	
Kernel yield (kg/ha)	1327	
Shelling (%)	66.0	
Oil content (%)	47.0	
Maturity days (d)	124	
Testa colour	Rose	
100-kernel mass (g)	41.0	
Special characters	Tolerant to leaf spotss and rust	

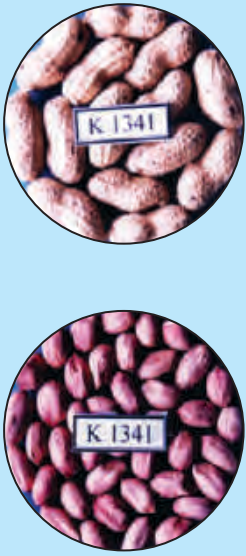
VRI (Gn) 7

Year of release	2008	
Developed by	Viriddhachalam	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1860	
Kernel yield (kg/ha)	1339	
Shelling (%)	72.0	
Oil content (%)	48.0	
Maturity days (d)	120-125	
Testa colour	Rose	
100-kernel mass (g)	46.0	
Special characters	Tolerant to leaf miner, LLS and rust	

Kadiri 7

Year of release	2009	
Developed by	ANGRAU, Kadiri	
Method of breeding	Modified bulk method	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1640	
Kernel yield (kg/ha)	1115	
Shelling (%)	68.0	
Oil content (%)	47.0	
Maturity days (d)	120-125	
Testa colour	Rose	
100-kernel mass (g)	65-75	
Special characters	Large seeded, tolerant to sucking pest and leaf spots	

Kadiri 8

Year of release	2009	
Developed by	ANGRAU, Kadiri	
Method of breeding	Modified bulk method	
Recommended state (s)	Andhra Pradesh	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1520	
Kernel yield (kg/ha)	1049	
Shelling (%)	69.0	
Oil content (%)	47.0	
Maturity days (d)	120-125	
Testa colour	Rose	
100-kernel mass (g)	65-75	
Special characters	Large seeded; tolerant to sucking pests and leaf spots	

Mallika (ICHG 00440)

Year of release	2009	
Developed by	RAU, Hanumangarh	
Method of breeding	Modified pedigree	
Recommended state (s)	All India	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2580	
Kernel yield (kg/ha)	1754	
Shelling (%)	68.0	
Oil content (%)	48.0	
Maturity days (d)	125-130	
Testa colour	Tan	
100-kernel mass (g)	73.0	
Special characters	Large seeded; resistant to collar rot and PBNB	

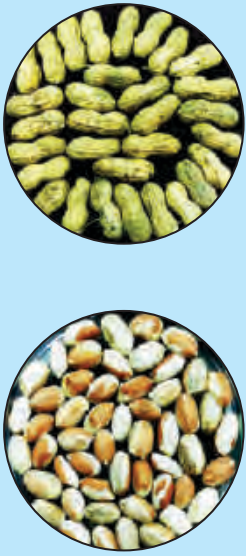
TGLPS 3 (TDG-39)

Year of release	2009	
Developed by	UAS, Dharwad	
Method of breeding	Mutation breeding	
Recommended state (s)	Karnataka	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2500-3000	
Kernel yield (kg/ha)	1750-2100	
Shelling (%)	70.0	
Oil content (%)	-	
Maturity days (d)	115-120	
Testa colour	-	
100-kernel mass (g)	-	
Special characters	High harvest index, bold confectionary type with less aflatoxin; tolerant to <i>A. flavus</i> and LLS	

HNG 69

Year of release	2010	
Developed by	RAU, Hanumangarh	
Method of breeding	Pedigree	
Recommended state (s)	Uttar Pradesh, Punjab and Northern Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2800	
Kernel yield (kg/ha)	1848	
Shelling (%)	66.0	
Oil content (%)	50.0	
Maturity days (d)	131	
Testa colour	Tan	
100-kernel mass (g)	51.0	
Special characters	Tolerant to collar rot, stem rot and ELS	

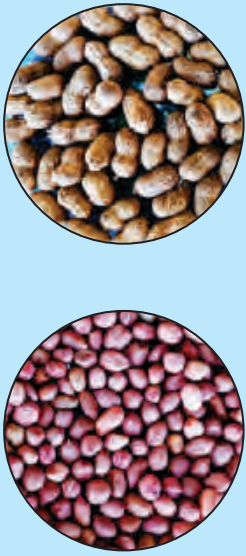
Raj Durga (RG 425)

Year of release	2011	
Developed by	RAU, Durgapura	
Method of breeding	Pedigree	
Recommended state (s)	Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1788	
Kernel yield (kg/ha)	1259	
Shelling (%)	70.4	
Oil content (%)	49.8	
Maturity days (d)	128	
Testa colour	Variegated	
100-kernel mass (g)	60.0	
Special characters	Moderately resistant to leaf spots, rust, PBND, collar rot and stem rot	

HNG 123

Year of release	2012	
Developed by	SKRAU, Hanumangarh	
Method of breeding	Pedigree	
Recommended state (s)	Rajasthan, Uttar Pradesh and Punjab	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2648	
Kernel yield (kg/ha)	1774	
Shelling (%)	67	
Oil content (%)	49	
Maturity days (d)	124	
Testa colour	Salmon	
100-kernel mass (g)	54	
Special characters	Tolerant to collar rot, stem rot, LLS, <i>Spodoptera litura</i> and leaf miner	

CO (Gn) 6

Year of release	2012	
Developed by	TNAU, Coimbatore	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1914	
Kernel yield (kg/ha)	1407	
Shelling (%)	73.5	
Oil content (%)	49.5-51	
Maturity days (d)	125-130	
Testa colour	Tan	
100-kernel mass (g)	48-50	
Special characters	Resistant to LLS and rust	

GJG-22 (JSSP 36)

Year of release	2013	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1770	
Kernel yield (kg/ha)	1274	
Shelling (%)	72	
Oil content (%)	51.6	
Maturity days (d)	118	
Testa colour	Rose	
100-kernel mass (g)	44	
Special characters	Tolerant to collar rot	

Raj Mungfali-2 (RG 578)

Year of release	2015	
Developed by	SKRAU, Durgapura	
Method of breeding	Pedigree	
Recommended state (s)	Odisha, West Bengal and Manipur	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1480	
Kernel yield (kg/ha)	1066	
Shelling (%)	72	
Oil content (%)	46	
Maturity days (d)	120	
Testa colour	Tan	
100-kernel mass (g)	53	
Special characters	Resistant to LLS, dry root rot, ELS and rust ; tolerant to <i>S. litura</i> , thrips, jassids and leaf miner	

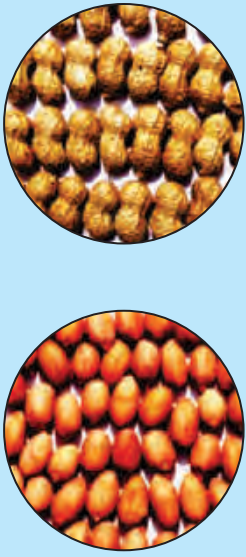
Birsa Groundnut 4 (BAU 25)

Year of release	2015	
Developed by	BAU, Kanke	
Method of breeding	Pedigree	
Recommended state (s)	Jharkhand	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2000-2200	
Kernel yield (kg/ha)	1440-1584	
Shelling (%)	72	
Oil content (%)	50.78	
Maturity days (d)	115-120	
Testa colour	-	
100-kernel mass (g)	64-69	
Special characters	Large seeded; resistant to LLS	

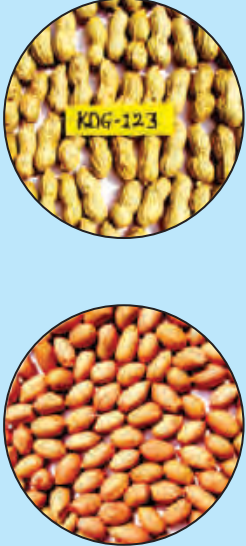
Raj Mungfali 3 (RG 559-3)

Year of release	2016	
Developed by	SKNAU, Durgapura	
Method of breeding	Pedigree	
Recommended state (s)	Rajasthan, Uttar Pradesh, and Punjab	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	3173	
Kernel yield (kg/ha)	2189	
Shelling (%)	69	
Oil content (%)	49	
Maturity days (d)	125	
Testa colour	Salmon	
100-kernel mass (g)	65	
Special characters	High yielding, large seeded, tolerant to <i>S.litura</i> , leafminer and thrips	

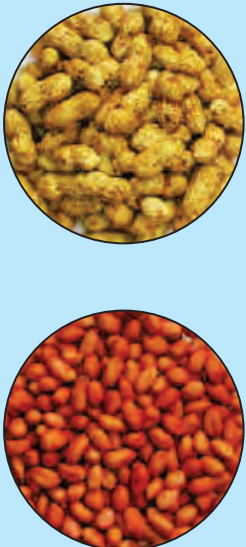
Phule Warna (KDG 128)

Year of release	2016	
Developed by	MPKV, Digraj	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu, Andhra Pradesh, Karnataka, Southern Maharashtra, Gujarat and Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2425	
Kernel yield (kg/ha)	1576	
Shelling (%)	65	
Oil content (%)	50.9	
Maturity days (d)	113	
Testa colour	Red	
100-kernel mass (g)	41	
Special characters	Moderately resistance to rust and leaf spot	

Phule Morna (KDG 123)

Year of release	2016	
Developed by	MPKV, Digraj	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat, Rajasthan, Odisha, West Bengal, Jharkhand, Manipur, Tamil Nadu, Andhra Pradesh, Karnataka and Southern Maharashtra	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2212	
Kernel yield (kg/ha)	1548	
Shelling (%)	70	
Oil content (%)	44	
Maturity days (d)	114	
Testa colour	Red	
100-kernel mass (g)	41	
Special characters	Moderately resistance to rust and leaf spot	

Konkan Bhuratna (RTNG-29)

Year of release	2019	
Developed by	DBSKKV, Dapoli	
Method of breeding	Pedigree	
Recommended state (s)	Maharashtra	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2500-3000	
Kernel yield (kg/ha)	1850-2220	
Shelling (%)	74	
Oil content (%)	50.01	
Maturity days (d)	110-115	
Testa colour	Variegated	
100-kernel mass (g)	45-50	
Special characters	Resistance to ELS, LLS, rust, PBND, thrips, jassids and leaf miner	

Gujarat Groundnut HPS 2 (GG HPS 2)

Year of release	2019	
Developed by	IAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2835	
Kernel yield (kg/ha)	1945	
Shelling (%)	68.6	
Oil content (%)	48.8	
Maturity days (d)	115-124	
Testa colour	Rose	
100-kernel mass (g)	67	
Special characters	Large seeded	

Girnar 4 (ICGV 15083)

Year of release	2020	
Developed by	ICAR-DGR, Junagadh	
Method of breeding	MABC with Pedigree selection method	
Recommended state (s)	Rajasthan, Gujarat, Karnataka, Tamil Nadu, and Andhra Pradesh	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	3218	
Kernel yield (kg/ha)	2156	
Shelling (%)	67	
Oil content (%)	53	
Maturity days (d)	110-112	
Testa colour	Rose	
100-kernel mass (g)	43	
Special characters	78.5% oleic acid and 4.8% linoleic acid; tolerant to LLS, rust, stem rot and Peanut Bud Necrosis diseases, leaf hopper, leaf miner, thrips and <i>Spodoptera litura</i>	

Girnar 5 (ICGV 15090)

Year of release	2020	
Developed by	ICAR-DGR, Junagadh	
Method of breeding	MABC with Pedigree selection method	
Recommended state (s)	Rajasthan, Gujarat, Karnataka, Tamil Nadu and Andhra Pradesh	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	3124	
Kernel yield (kg/ha)	2093	
Shelling (%)	67	
Oil content (%)	53	
Maturity days (d)	110-115	
Testa colour	Rose	
100-kernel mass (g)	41	
Special characters	78.4% oleic acid and 4.6% linoleic acid; tolerant to Late Leaf spot, Rust, Stem rot and Collar rot, Leaf hopper, Leaf miner, thrips and Spodoptera litura	

C. Virginia Runner

GG 14 (JSP 28)

Year of release	2003	
Developed by	IAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Northern Rajasthan, Punjab, Haryana and Uttar Pradesh	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2159	
Kernel yield (kg/ha)	1403	
Shelling (%)	65.0	
Oil content (%)	52.0	
Maturity days (d)	123	
Testa colour	Pink	
100-kernel mass (g)	49.0	
Special characters	Tolerant of thrips, <i>Spodoptera</i> , leaf miner	

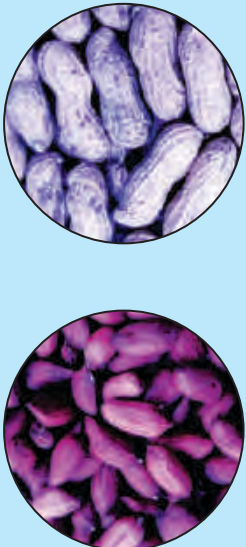
RG 382 (Durga)

Year of release	2005	
Developed by	RAU, Durgapura	
Method of breeding	Pedigree	
Recommended state (s)	Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2200	
Kernel yield (kg/ha)	1408	
Shelling (%)	64.0	
Oil content (%)	50.0	
Maturity days (d)	129	
Testa colour	Red rose	
100-kernel mass (g)	59.0	
Special characters	Drought tolerant; tolerant to ELS and rust, jassids, leaf miner and thrips	

GG 16 (JSP 39)

Year of release	2006	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Tamil Nadu, Andhra Pradesh, Kerala and Southern Maharashtra	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2058	
Kernel yield (kg/ha)	1297	
Shelling (%)	63.0	
Oil content (%)	46.0	
Maturity days (d)	119	
Testa colour	Rose	
100-kernel mass (g)	43.0	
Special characters	Tolerant of PBNB, root rot, thrips, <i>Spodoptera</i> , Leaf miner	

M 548

Year of release	2007	
Developed by	PAU, Ludhiana	
Method of breeding	Pedigree	
Recommended state (s)	Punjab	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2180	
Kernel yield (kg/ha)	1504	
Shelling (%)	69.0	
Oil content (%)	51.4	
Maturity days (d)	123	
Testa colour	Purple red	
100-kernel mass (g)	61.0	
Special characters	Large seeded; high protein content; tolerant to leaf spots and collar rot	

GJG-HPS-1 (JSP-HPS-44)

Year of release	2010	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2120	
Kernel yield (kg/ha)	1442	
Shelling (%)	68.0	
Oil content (%)	49.0	
Maturity days (d)	116	
Testa colour	Rose	
100-kernel mass (g)	56.0	
Special characters	Tolerant to PBND	

Divya (CSMG 2003-19)

Year of release	2011	
Developed by	CSAUAT, Regional Centre Mainpuri	
Method of breeding	Pedigree	
Recommended state (s)	Uttar Pradesh and Rajasthan	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2757	
Kernel yield (kg/ha)	1764	
Shelling (%)	64	
Oil content (%)	49	
Maturity days (d)	129	
Testa colour	Rose	
100-kernel mass (g)	56	
Special characters	Tolerant to PBND	

Raj Mungfali-1 (RG 510)

Year of release	2012	
Developed by	SKRAU, Durgapurabulk	
Method of breeding	Pedigree	
Recommended state (s)	Rajasthan and Punjab	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	2558	
Kernel yield (kg/ha)	1739	
Shelling (%)	68	
Oil content (%)	49	
Maturity days (d)	125-130	
Testa colour	Rose	
100-kernel mass (g)	54	
Special characters	Tolerant to collar rot, stem rot, LLS, PBND, thrips, jassids and grass hopper	

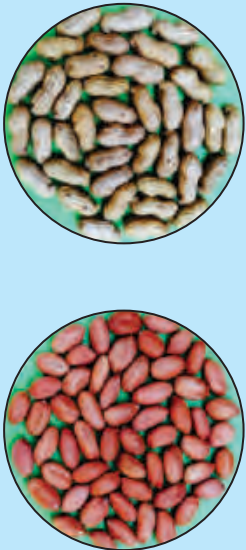
GJG-17 (JSP-48)

Year of release	2013	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	1798	
Kernel yield (kg/ha)	1187	
Shelling (%)	66	
Oil content (%)	48	
Maturity days (d)	121	
Testa colour	Rose	
100-kernel mass (g)	38	
Special characters	Tolerant to stem rot	

GJG 18 (JSP 49)

Year of release	2015	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Odisha, West Bengal, Jharkhand, and Manipur	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1450	
Kernel yield (kg/ha)	1001	
Shelling (%)	69	
Oil content (%)	48	
Maturity days (d)	121	
Testa colour	Rose	
100-kernel mass (g)	50	
Special characters	Moderately resistant to PBNB and PSND	

GJG 19 (JSP 51)

Year of release	2016	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Odisha, West Bengal, Jharkhand and Manipur	
Growing season	<i>Kharif</i>	
State/central release	Central	
Pod yield (kg/ha)	1876	
Kernel yield (kg/ha)	1294	
Shelling (%)	69	
Oil content (%)	47	
Maturity days (d)	122	
Testa colour	Monochrome rose	
100-kernel mass (g)	50	
Special characters	Tolerant to stem rot, dry root rot and rust	

Gujarat Groundnut 41 (Padma)

Year of release	2020	
Developed by	JAU, Junagadh	
Method of breeding	Pedigree	
Recommended state (s)	Gujarat	
Growing season	<i>Kharif</i>	
State/central release	State	
Pod yield (kg/ha)	2722	
Kernel yield (kg/ha)	2014	
Shelling (%)	74	
Oil content (%)	51.4	
Maturity days (d)	120	
Testa colour	Rose	
100-kernel mass (g)	56	
Special characters	High shelling and oil per cent	

6. State-wise area, production and productivity of groundnut during (2010 to 2020)

Although CAGR in production and productivity of groundnut are 0.013% and 0.007% during the period of 2009-10 to 2019-20 (**Table 4**). Among the major groundnut growing states, Rajasthan is picking up area under cultivation from 0.35 mha in 2010-11 to 0.73 mha in 2019-20 an increase of over 108%. Contrary, area has declined in Maharashtra over the years among the major states and lost its ground to competing crop like soybean. The production of groundnut, however, was dwindling in different years because of decrease in acreage and or because of incidence of drought and or disease and pests. However, all time record production of 10.10 mt was achieved in the year 2019-20 (**Table 4**). The average productivity of groundnut in India has steadily improved from 1335 kg/ha in 2010-11 to 2065 kg/ha in 2019-20, a jump of 54.68%. That is the reason why even after steady decline in area, the CAGR in production is 0.013% and remains, more or less, stable. Among the major states, Gujarat remains the major contributor in terms of area and production (**Table 4**).

Table 4. Area, production, and productivity of groundnut in India during last ten years

State	2010-11			2011-12			2012-13			2013-14			2014-15		
	Kharif	Rabi- summer	Total	Kharif	Rabi- summer	Total	Kharif	Rabi- summer	Total	Kharif	Rabi- summer	Total	Kharif	Rabi- summer	Total
Gujarat	A	16.910	18.060	14.540	2.320	16.860	12.190	0.660	12.850	17.480	0.950	18.430	13.460	0.550	14.010
	P	31.590	33.661	22.730	4.440	27.170	6.070	1.510	7.580	47.476	1.700	49.176	29.180	1.000	30.180
	Y	1868	1864	1563	1914	1612	498	2288	590	2716	1789	2668	2168	1818	2154
Andhra Pradesh	A	13.470	16.220	10.570	2.500	13.070	10.430	1.150	11.580	10.860	0.900	11.760	8.040	0.700	8.740
	P	8.880	14.580	3.820	4.620	8.440	5.400	2.404	7.804	6.810	2.003	8.813	3.300	1.630	4.930
	Y	659	899	361	1848	646	518	2090	674	627	2226	749	410	2329	0
Tamil Nadu	A	2.681	1.174	3.855	2.491	1.365	3.856	2.240	1.143	3.383	2.158	3.366	2.103	1.262	3.365
	P	5.046	8.957	5.485	5.122	10.607	4.233	3.599	7.832	4.776	4.383	9.159	4.920	4.344	9.264
	Y	1882	3333	2202	3751	2751	1890	3149	2315	2213	3628	2721	2340	3442	2753
Karnataka	A	6.590	1.890	5.090	1.680	6.770	4.050	1.840	5.890	4.730	1.840	6.550	4.790	1.750	6.540
	P	5.620	7.420	3.310	1.540	4.850	2.270	1.680	3.950	3.990	1.680	5.650	3.490	1.530	5.020
	Y	853	952	650	917	716	560	913	671	844	913	863	729	874	768
Telengana	A	-	-	-	-	-	-	1.710	1.870	-	1.887	2.079	-	1.420	1.550
	P	-	-	-	-	-	-	3.106	3.346	-	3.227	3.547	-	2.740	2.960
	Y	-	-	-	-	-	1500	1816	1789	1524	1710	1691	1692	1930	1910
Maharashtra	A	2.750	3.570	2.380	0.650	3.030	2.380	0.320	2.700	2.440	0.710	3.150	2.440	0.830	3.270
	P	3.460	4.600	2.570	0.940	3.510	2.360	0.490	2.850	2.960	0.970	3.930	2.530	1.260	3.790
	Y	1258	1390	1080	1446	1158	992	1531	1056	1213	1366	1248	1037	1518	1159
Rajasthan	A	3.469	-	4.147	0.035	4.181	3.978	0.007	3.985	4.620	0.000	4.620	5.008	0.000	5.008
	P	6.811	-	8.006	0.047	8.054	6.163	0.009	6.173	9.009	0.000	9.009	10.112	0.000	10.112
	Y	1963	-	1931	1370	1926	1550	1286	1549	1950	0	1950	2019	0	2019
Madhya Pradesh	A	2.016	-	2.130	-	2.130	2.057	-	0.057	0.069	0.000	2.069	2.310	-	2.310
	P	3.016	-	3.446	-	3.446	3.117	-	3.117	3.242	0.000	3.242	3.700	-	3.700
	Y	1496	-	1618	-	1618	1515	-	1515	1567	0	1567	1602	-	1602
Odisha	A	0.351	0.377	0.728	0.299	0.663	0.277	0.387	0.664	0.258	0.341	0.599	2.224	0.264	0.599
	P	0.343	0.513	0.856	0.248	0.788	0.296	0.520	0.817	0.287	0.581	0.868	0.231	0.388	0.868
	Y	977	1361	1176	830	1189	1069	1344	1230	1112	1704	1449	1030	1471	1449

A=Area in lakh hectares, P=Production in lakh tonnes and Y=Yield in kg/ha

Table 4 contd.

West Bengal	A	0.022	0.599	0.622	0.015	0.530	0.544	0.025	0.650	0.675	0.038	0.750	0.788	0.020	0.754	0.774
	P	0.019	1.013	1.032	0.013	1.043	1.056	0.025	1.680	1.705	0.035	1.970	2.005	0.019	1.780	1.799
	Y	849	1690	1660	864	1969	1939	1000	2585	2526	917	2627	2544	925	2362	2324
Uttar Pradesh	A	0.850	-	0.850	0.920	-	0.920	0.940	-	0.940	0.960	0.000	0.960	0.980	-	0.980
	P	0.840	-	0.840	0.920	-	0.920	0.940	-	0.940	0.860	0.000	0.860	0.840	-	0.840
	Y	988	-	988	1000	-	1000	1000	-	1000	896	0	896	857	-	857
Chhattisgarh	A	0.290	-	0.290	0.284	-	0.284	0.253	-	0.253	0.256	0.000	0.256	0.257	-	0.257
	P	0.424	-	0.424	0.375	-	0.375	0.349	-	0.349	0.373	0.000	0.373	0.363	-	0.363
	Y	1462	-	1462	1320	-	1320	1379	-	1379	1457	0	1457	1412	-	1412
Arunachal Pradesh	A	0.005	-	-	0.005	-	0.005	0.006	-	0.006	0.006	0.000	0.006	0.006	-	0.006
	P	0.004	-	-	0.005	-	0.005	0.005	0.014	0.020	0.006	0.000	0.006	0.006	-	0.006
	Y	800	-	-	882	-	882	833	-	3333	949	0	949	1000	-	1000
Goa	A	0.005	0.024	0.029	0.004	0.028	0.032	0.005	0.026	0.031	0.004	0.022	0.026	0.004	0.019	0.023
	P	0.014	0.069	0.083	0.010	0.070	0.080	0.013	0.061	0.075	0.010	0.056	0.066	0.007	0.036	0.043
	Y	2800	2875	2862	2833	2458	2500	2600	2346	2419	2436	2564	2544	2028	1874	1899
Haryana	A	0.020	-	0.020	0.030	-	0.030	0.028	-	0.028	0.056	0.000	0.056	0.037	-	0.037
	P	0.020	-	0.020	0.029	-	0.029	0.032	-	0.032	0.062	0.000	0.062	0.042	-	0.042
	Y	1000	-	1000	967	-	967	1143	-	1143	1107	0	1107	1135	-	1135
Himachal Pradesh	A	0.007	-	0.007	0.001	-	0.001	0.000	-	-	0.001	0.000	0.001	0.001	-	0.001
	P	0.005	-	0.005	0.001	-	0.001	0.000	-	-	0.000	0.000	0.000	0.000	-	0.000
	Y	742	-	742	917	-	917	0	-	-	600	0	600	600	-	600
Jharkhand	A	0.255	-	0.255	0.170	-	0.170	0.235	-	0.235	0.225	0.000	0.225	0.245	-	0.245
	P	0.233	-	0.233	0.204	-	0.204	0.275	-	0.275	0.569	0.000	0.269	0.248	-	0.248
	Y	914	-	914	1196	-	1196	1170	-	1170	1194	0	1194	1013	-	1013
Bihar	A	0.004	-	-	0.008	-	0.008	0.008	-	0.008	0.009	0.000	0.009	0.006	-	0.006
	P	0.004	-	-	0.008	-	0.008	0.008	-	0.008	0.009	0.000	0.009	0.006	-	0.006
	Y	900	-	-	1025	-	1025	1000	-	1000	1022	0	1022	1035	-	1035
Kerala	A	0.015	-	0.015	0.016	0.001	0.017	0.008	0.000	0.017	0.003	0.004	0.007	0.005	0.000	0.005
	P	0.019	-	0.019	0.021	0.001	0.022	0.010	0.000	0.010	0.004	0.005	0.009	0.007	0.000	0.007
	Y	1267	-	1267	1346	909	1318	1250	1111	1272	1250	1209	1225	1426	2000	1438
Nagaland	A	0.007	-	0.007	0.008	-	0.008	0.008	-	0.008	0.009	-	0.009	0.009	-	0.009
	P	0.007	-	0.007	0.008	-	0.008	0.008	-	0.008	0.009	-	0.009	0.009	-	0.009
	Y	1000	-	1000	1013	-	1013	1000	-	1000	1023	-	1023	1023	-	1023
Manipur	A	0.017	-	0.017	0.018	-	0.018	0.003	-	0.003	0.032	-	0.032	0.031	-	0.031
	P	0.010	-	0.010	0.013	-	0.013	0.006	-	0.006	0.026	-	0.026	0.025	-	0.025
	Y	612	-	612	727	-	727	2000	-	2000	805	-	805	819	-	819

Table 4 contd.

Punjab	A	0.022	-	0.022	0.020	-	0.020	0.017	-	0.017	0.013	0.000	0.013	0.014	-	0.014
	P	0.039	-	0.039	0.030	-	0.030	0.030	-	0.030	0.024	0.000	0.024	0.026	-	0.026
	Y	1773	-	1773	1500	-	1500	1765	-	1765	1846	0	1846	1857	-	1857
Tripura	A	0.003	0.003	0.007	0.002	0.004	0.006	0.002	0.004	0.006	0.003	0.004	0.006	0.003	0.003	0.005
	P	0.004	0.003	0.007	0.002	0.005	0.007	0.003	0.005	0.007	0.003	0.004	0.007	0.003	0.003	0.006
	Y	1190	917	1056	1091	1297	1220	1500	1250	1167	1077	1257	1180	1080	1280	1180
Uttarakhand	A	0.011	-	0.011	0.010	-	0.010	0.010	-	0.010	0.010	0.000	0.010	0.010	-	0.010
	P	0.012	-	0.012	0.010	-	0.010	0.012	-	0.012	0.012	0.000	0.012	0.011	-	0.011
	Y	1071	-	1071	1000	-	1000	1200	-	1200	1176	0	1176	1103	-	1103
Puduchery	A	0.004	-	0.004	0.003	0.000	0.003	0.003	0.000	0.003	0.004	-	0.004	0.003	-	0.004
	P	0.008	-	0.008	0.004	0.000	0.005	0.007	0.001	0.008	0.009	-	0.009	0.010	-	0.010
	Y	1962	-	1962	1406	1810	1433	2333	2486	2667	2486	-	2486	3000	1333	2833
Jammu and Kashmir	A	-	-	-	0.000	-	0.000	-	-	-	0.001	0.000	0.001	0.000	-	0.000
	P	-	-	-	-	-	-	-	-	-	0.001	0.000	0.001	0.000	-	0.000
	Y	-	-	-	-	-	-	-	-	-	643	0	643	0	-	0
D and N Havelli	A	-	-	-	0.000	-	0.000	-	-	-	-	-	-	-	-	-
	P	-	-	-	0.000	-	0.000	-	-	-	-	-	-	-	-	-
	Y	-	-	-	1000	-	1000	-	-	-	-	-	-	-	-	-
Other States	A	0.041	0.027	0.068	0.000	0.000	0.000	-	-	-	-	-	-	-	-	-
	P	0.047	0.072	0.119	0.000	0.000	0.000	-	-	-	-	-	-	-	-	-
	Y	1152	2640	1746	0	0	0	-	-	-	-	-	-	-	-	-
Total All India	A	49.774	8.787	58.563	43.161	9.477	52.637	39.313	7.897	47.219	46.454	9.642	55.049	40.135	7.520	47.687
	P	66.438	16.220	82.658	51.269	18.368	69.637	31.873	15.079	46.954	80.580	18.596	97.139	59.305	14.712	74.017
	Y	1335	1846	1411	1188	1938	1323	811	1909	994	1735	1929	1765	1478	1948	1552

A=Area in lakh hectares, P=Production in lakh tonnes and Y=Yield in kg/ha

Source: Department of Agriculture & Cooperation, Ministry of Agriculture & Farmers Welfare, GOI

Table 4 contd.

State	2015-16			2016-17			2017-18			2018-19			2019-20 (4th advance estimate)		
	Kharif	Rabi - summer	Total	Kharif	Rabi - summer	Total	Kharif	Rabi - summer	Total	Kharif	Rabi - summer	Total	Kharif	Rabi - summer	Total
Gujarat	A	13.560	14.140	16.960	0.630	17.590	16.270	0.520	16.790	15.664	0.278	15.942	16.293	0.598	16.891
	P	22.431	23.391	30.443	1.130	31.573	38.413	0.958	39.371	21.428	0.600	22.028	45.033	1.395	46.429
	Y	1654	1655	1795	1794	1795	2361	1842	2345	1368	2156	1382	2764	2334	2749
Andhra Pradesh	A	6.820	0.930	9.330	0.800	10.130	6.480	0.870	7.350	6.870	0.610	7.480	5.680	0.930	6.610
	P	5.980	2.030	3.910	2.120	6.030	8.366	2.118	10.484	3.325	1.294	4.620	6.220	2.254	8.474
	Y	877	2183	1034	419	2650	595	2435	1426	484	2122	618	1095	2424	1282
Tamil Nadu	A	2.228	1.238	3.466	1.947	0.878	2.825	1.885	3.274	1.965	1.390	3.353	2.099	1.365	3.465
	P	4.846	4.077	8.923	3.052	4.638	4.263	2.837	4.851	5.889	10.075	9.114	5.221	4.617	9.838
	Y	2175	3293	2574	1567	2460	2169	3232	3917	2084	3078	2718	2487	3382	2840
Karnataka	A	4.060	1.640	5.700	4.970	1.690	6.660	3.900	1.740	5.640	3.781	1.368	5.149	3.930	1.811
	P	2.740	1.210	3.950	2.480	1.710	4.190	3.456	2.070	5.526	2.722	1.188	3.910	3.667	3.110
	Y	675	738	693	499	1012	629	886	1190	980	720	868	759	933	1717
Telengana	A	-	-	-	0.260	1.400	1.660	0.210	1.460	1.670	0.130	1.260	0.120	1.020	1.140
	P	-	-	-	0.520	2.900	3.420	0.459	3.265	3.724	0.326	2.813	0.329	2.387	2.716
	Y	-	-	-	2000	2071	2060	2188	2236	2230	2504	2489	2743	2340	2382
Maharashtra	A	2.240	0.850	3.090	2.350	1.199	3.549	2.400	0.510	2.910	2.173	0.268	2.441	1.938	0.886
	P	2.170	1.170	3.340	2.869	1.334	4.203	2.755	0.688	3.443	2.035	0.351	2.386	1.707	1.536
	Y	969	1376	1081	220	1113	1184	207	1349	1183	169	977	881	1734	1149
Rajasthan	A	5.169	-	5.169	5.561	0.000	5.561	6.406	0.000	6.406	6.689	0.045	6.734	7.346	7.390
	P	10.487	-	10.487	11.406	0.000	11.406	12.594	0.000	12.594	13.752	0.071	13.823	16.124	16.193
	Y	2029	-	2029	2051	0	2051	1966	0	1966	2056	1583	2053	2195	2191
Madhya Pradesh	A	2.360	-	2.360	2.550	0.000	2.550	2.180	0.060	2.240	2.160	0.070	2.230	2.170	0.040
	P	3.316	-	3.316	3.780	0.000	3.780	3.380	0.110	3.490	3.994	0.127	4.120	3.444	0.063
	Y	1405	-	1405	1482	0	1482	1550	1833	1558	1849	1809	1587	1570	1587
Odisha	A	0.184	0.328	0.512	0.256	0.194	0.449	0.162	0.171	0.333	0.130	0.279	0.116	0.163	0.279
	P	0.154	0.408	0.562	0.255	0.297	0.552	0.154	0.224	0.378	0.139	0.356	0.128	0.251	0.379
	Y	837	1242	1097	998	1533	1229	950	1308	1134	1074	1277	1107	1540	1360

A=Area in lakh hectares, P=Production in lakh tonnes and Y=Yield in kg/ha

Table 4 contd.

West Bengal	A	0.021	0.821	0.842	0.022	0.747	0.770	0.025	0.680	0.705	0.039	0.635	0.674	0.041	0.672	0.713
	P	0.019	1.880	1.899	0.022	1.733	1.755	0.024	1.628	1.652	0.039	1.841	1.880	0.046	1.531	1.577
	Y	902	2290	2255	964	2318	2279	960	2394	2343	984	2899	2788	1120	2279	2212
Uttar Pradesh	A	0.970	-	0.970	0.940	0.000	0.940	0.880	0.000	0.880	1.010	0.000	1.010	0.940	0.000	0.940
	P	0.650	-	0.650	0.850	0.000	0.850	0.891	0.000	0.891	1.004	0.000	1.004	0.885	0.000	0.885
	Y	670	-	670	904	0	904	1013	0	1013	994	0	994	942	0	942
Chhattisgarh	A	0.273	-	0.273	0.252	0.000	0.252	0.203	0.000	0.203	0.301	0.000	0.301	0.274	0.000	0.274
	P	0.336	-	0.336	0.464	0.000	0.464	0.334	0.000	0.334	0.403	0.000	0.403	0.418	0.000	0.418
	Y	1231	-	1231	1841	0	1841	1645	0	1645	1338	0	1338	1524	0	1524
Arunachal Pradesh	A	0.006	-	0.006	0.009	0.000	0.009	0.009	0.000	0.009	0.009	0.000	0.009	-	-	-
	P	0.007	-	0.007	0.009	0.000	0.009	0.009	0.000	0.009	0.009	0.000	0.009	-	-	-
	Y	1040	-	1040	977	0	977	980	0	980	981	0	981	-	-	-
Goa	A	0.004	0.015	0.019	0.003	0.014	0.017	0.003	0.013	0.015	0.002	0.002	0.004	-	-	-
	P	0.007	0.033	0.040	0.009	0.031	0.040	0.007	0.028	0.035	0.005	0.005	0.010	-	-	-
	Y	2042	2146	2126	2557	2302	2352	2325	2243	2258	2370	2320	2345	-	-	-
Haryana	A	0.046	-	0.046	0.048	0.000	0.048	0.030	0.000	0.030	0.037	0.000	0.037	0.028	0.000	0.028
	P	0.046	-	0.046	0.048	0.000	0.048	0.036	0.000	0.036	0.033	0.000	0.033	0.034	0.000	0.034
	Y	1000	-	1000	1000	0	1000	1202	0	1202	900	0	900	1201	0	1201
Himachal Pradesh	A	-	-	-	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	P	-	-	-	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Y	943	-	943	1020	0	1020	1028	0	1028	1030	0	1030	1030	0	1030
Jharkhand	A	0.251	-	0.251	0.271	0.000	0.271	0.323	0.000	0.323	0.301	0.000	0.301	0.261	0.000	0.261
	P	0.208	-	0.208	0.284	0.000	0.284	0.359	0.000	0.359	0.310	0.000	0.310	0.288	0.000	0.288
	Y	830	-	830	1049	0	1049	1111	0	1111	1032	0	1032	1104	0	1104
Bihar	A	0.005	-	0.005	0.010	0.000	0.010	0.006	0.000	0.006	0.009	0.000	0.009	0.008	0.000	0.008
	P	0.005	-	0.005	0.010	0.000	0.010	0.006	0.000	0.006	0.009	0.000	0.009	0.009	0.000	0.009
	Y	1018	-	1018	1015	0	1015	1019	0	1019	1020	0	1020	1017	0	1017

A=Area in lakh hectares, P=Production in lakh tonnes and Y=Yield in kg/ha

Table 4 contd.

Kerala	A	0.005	-	0.005	0.004	0.000	0.004	0.003	0.001	0.001	0.002	0.001	0.001	0.001	0.001
	P	0.006	-	0.006	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.001	0.001	0.001
	Y	1379	-	1379	1411	0	1394	0	1394	1261	1247	1258	1255	1256	1256
Nagaland	A	0.009	-	0.009	0.000	0.000	0.010	0.010	0.010	0.010	0.010	-	-	-	-
	P	0.009	-	0.009	0.010	0.000	0.010	0.010	0.011	0.011	0.011	-	-	-	-
	Y	1034	-	1034	1032	0	1041	0	1041	1040	1040	-	-	-	-
Manipur	A	-	0.034	0.034	0.000	0.034	0.000	0.033	0.033	0.000	0.032	0.032	-	-	-
	P	-	0.030	0.030	0.000	0.030	0.000	0.031	0.031	0.000	0.030	0.030	-	-	-
	Y	-	879	879	0	888	0	941	941	0	931	931	-	-	-
Punjab	A	0.010	-	0.010	0.012	0.000	0.012	0.012	0.013	0.013	0.013	0.018	0.000	0.018	0.018
	P	0.019	-	0.019	0.023	0.000	0.023	0.023	0.026	0.026	0.026	0.036	0.000	0.036	0.036
	Y	1900	-	1900	1917	0	1950	0	1950	1980	1980	1980	0	1980	1980
Tripura	A	0.005	0.009	0.014	0.008	0.010	0.011	0.011	0.023	0.013	0.010	0.023	-	-	-
	P	0.006	0.010	0.016	0.011	0.016	0.013	0.014	0.028	0.017	0.014	0.031	-	-	-
	Y	1146	1160	1154	1310	1584	1198	1231	1215	1328	1438	1376	-	-	-
Uttarakhand	A	0.011	-	0.011	0.010	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.000	0.010	0.010
	P	0.015	-	0.015	0.010	0.000	0.014	0.000	0.014	0.010	0.010	0.011	0.000	0.011	0.011
	Y	1415	-	1415	1000	0	1377	0	1377	1038	0	1038	1089	1089	1089
Puduchery	A	0.002	0.001	0.003	0.002	0.000	0.003	0.000	0.003	0.003	0.003	-	-	-	-
	P	0.007	0.002	0.009	0.006	0.001	0.008	0.007	0.008	0.009	0.009	-	-	-	-
	Y	2984	3000	2987	3000	2800	3000	3000	3000	3197	3231	3199	-	-	-
Jammu and Kashmir	A	-	-	-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	-
	P	-	-	-	0.001	0.000	0.000	0.000	0.000	0.000	0.000	-	-	-	-
	Y	-	-	-	0	0	0	0	0	0	0	-	-	-	-
Other States	A	-	-	-	-	-	-	-	-	-	-	0.037	0.056	0.093	0.093
	P	-	-	-	-	-	-	-	-	-	-	0.075	0.066	0.140	0.140
	Y	-	-	-	-	-	-	-	-	-	-	2041	1166	2212	2212
Total All India	A	38.378	7.585	45.963	45.785	7.596	53.380	41.420	48.877	41.319	5.988	47.308	41.310	7.586	48.896
	P	53.675	13.658	67.333	60.476	14.139	74.615	75.954	92.526	53.870	13.402	67.272	83.675	17.281	100.956
	Y	1399	1801	1465	1321	1861	1398	1834	1893	1304	2238	1422	2026	2278	2065

A=Area in lakh hectares, P=Production in lakh tonnes and Y=Yield in kg/ha

Source: Department of Agriculture & Cooperation, Ministry of Agriculture & Farmers Welfare, GOI

7. Export of groundnut from India

Groundnut, a major oilseed crop, is also rich in protein (25-30%), minerals, anti-oxidants, and vitamins. It has a rich nutty flavour, sweet taste, crunchy texture and a relatively longer shelf life. Because of this, nearly 30% of the produce is consumed for food purpose. Export of groundnut from India is in the range of 3-10% of the total produce because of aflatoxin contamination and strict adherence to aflatoxin load between 2-4 ppb by European Union. But with the availability of superior varieties, advance technologies for sorting of aflatoxin free groundnuts and clean cultivation and processing, the problem associated with post-harvest aflatoxin contamination has, by and large, been solved. Consequently, the export of groundnut from India has gained momentum in the recent past. The growing awareness among the processor and exporters to maintain highest standard in both quality and hygiene has also helped improving export. As a result, multiple sorting and grading in processing export quality groundnut become a new normal. Besides raw shelled edible groundnut, India is also in a position to supply blanched, roasted salted and dry roasted groundnuts and a variety of other groundnut based products to different countries on demand.

From 1.12 lakh metric tonnes during 2001-02 worth Rs. 250 crores, the export of groundnut grew steadily to about 6.38 lakh metric tonnes in 2020-21 worth Rs. 5381 crores with highest of 8.33 lakh metric tonnes worth Rs. 5246 crores during 2011-12 (**Figure 2, Table 5**).

During the last decade Indonesia remained the major export destination for groundnut from India (Table 5), Besides, Malaysia, Philippines, Pakistan, UAE, China, Vietnam, and Thailand are the other major export destination for groundnut from India (**Table 5**).

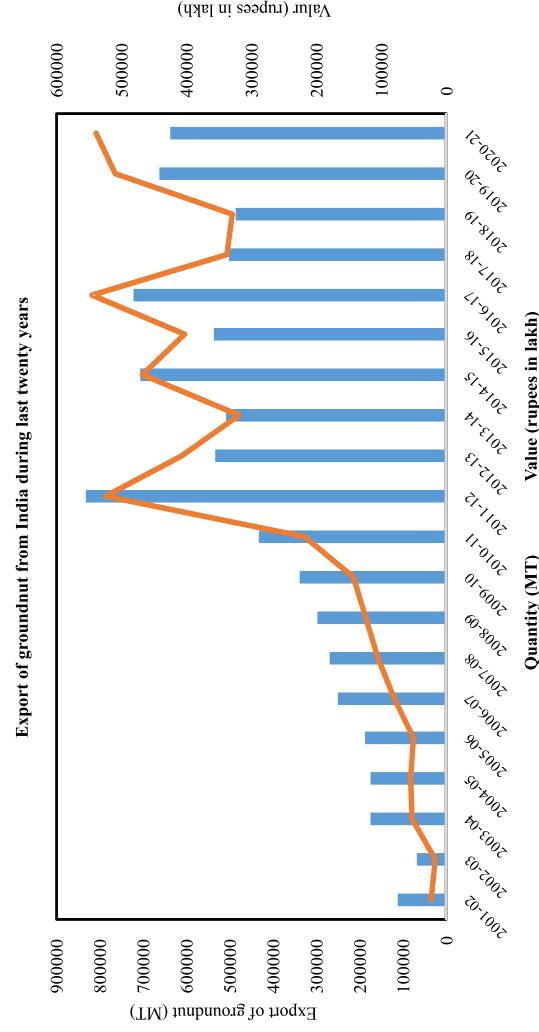


Figure 2. Export of groundnut from India in last two decades
Source: <http://agriexchange.apeda.gov.in/>

Table 5. Groundnut export from India during last ten year

Year	Quantity (MT Shelled nuts)	Value (Crores)	Top five importers from India														
			Country	Qtn (MT)	Value (Crores)	Country	Qtn (MT)	Value (Crores)	Country	Qtn (MT)	Value (Crores)	Country	Qtn (MT)	Value (Crores)	Country	Qtn (MT)	Value (Crores)
2009-10	340256	1425.93	Indonesia	136282	560.35	Malaysia	63839	269.37	Philippines	61620	265.98	Pakistan Ir	17291	64.33	U Arab Emts	9069	38.98
2010-11	433762	2178.41	Indonesia	182809	932.71	Malaysia	71175	376.33	Philippines	46009	234.03	China P Rp	19675	91.23	Pakistan Ir	22685	90.11
2011-12	832619	5246.45	Indonesia	252666	1589.93	Vietnam Soc Rep	241497	1505.14	Malaysia	76596	487.6	Philippines	54824	351.09	China P Rp	38340	240.21
2012-13	535637	4065.36	Indonesia	170179	1256.64	Vietnam Soc Rep	139362	1060.66	Malaysia	70275	535.01	Philippines	57906	452.83	Thailand	22766	178.04
2013-14	509751	3187.66	Indonesia	227845	1407.01	Philippines	60384	387.98	Malaysia	59261	372.23	Vietnam Soc Rep	40466	240.46	Thailand	23116	148.48
2014-15	708376	4675.24	Vietnam Soc Rep	183771	1251.57	Indonesia	183355	1166.36	Malaysia	68928	460.58	Philippines	66320	460.38	Thailand	34457	244.37
2015-16	536815	4038.57	Indonesia	173966	1326.88	Malaysia	72211	579.77	Thailand	63048	486.74	Philippines	50699	397.97	Pakistan Ir	33542	184.1
2016-17	725114	5453.18	Indonesia	186203	1447.19	Vietnam Soc Rep	159625	1156.19	Malaysia	62963	503.78	Philippines	50834	408.85	Thailand	44125	350.95
2017-18	503155	3384.42	Indonesia	218788	1505.37	Vietnam Soc Rep	50781	320.51	Philippines	44180	303.97	Malaysia	34567	257.31	Pakistan Ir	28024	146.42
2018-19	488233	3295.54	Indonesia	203095	1346.98	Philippines	47064	324.59	Vietnam Soc Rep	38225	269.19	Malaysia	29967	207.84	Thailand	25440	182.4
2019-20	664436	5096.39	Indonesia	213822	1682.53	Vietnam Soc Rep	140455	1060.84	Philippines	47673	380.67	Malaysia	35146	286.28	Thailand	30022	248.27
2020-21	638551	5381.45	Indonesia	211860	1774.26	Vietnam Soc Rep	129922	1129.36	China P Rp	73191	571.33	Philippines	45751	396.2	Malaysia	35349	315.76

Source: <http://agriexchange.apeda.gov.in/>

8. State-wise recommended varieties

With the separation of AICRP-Groundnut from AICORPO in 1992, development of groundnut varieties, with special emphasis on high yield and biotic and abiotic stress tolerance, gained momentum in India. The research centres under AICRP-Groundnut, SAUs, BARC, and ICRISAT work in tandem by exchanging materials among themselves for development of superior varieties. By now 238 groundnut varieties have been developed of these a total of 117 high yielding groundnut varieties were developed during last twenty years (2001-2021) and recommended for cultivation in *kharif* and *rabi*-summer seasons in different agro-climatic zone across different states. The state-wise recommended varieties are described in **Table 6**. As in most of the cases varieties are developed and recommended zone-wise and in few cases for several zones, a single variety is recommended for cultivation in many states in case of centrally released varieties. In case of state release, however, recommendation is restricted within the state. If a variety is released for all the zones, it becomes a pan India variety like TPG41 for *rabi*-summer (2004) and Mallika (2009) for *kharif* cultivation. Among the released varieties during this period, the order of varieties recommended for cultivation in the states are Andhra Pradesh and Telangana (36), Tamil Nadu (28), Rajasthan and Maharashtra (23 each), Karnataka (21), Gujarat (17), West Bengal and Odisha (13 each), Punjab and NEH regions (12 each), Uttar Pradesh (11), Bihar and Jharkhand (10), Madhya Pradesh and Kerala (4 each), Pan India (2) and Uttarakhand (1).



Dh 257, a high yielding groundnut variety released from UAS, Dharwad

Table 6. Groundnut varieties recommended for various states in India during 2001-2021

State	Name of variety	Habit Group	Developed by	Year of release	Season	Central (C)/ State (S) release
All India	TPG -41	SB	BARC, Mumbai	2004	<i>Rabi</i> -summer	C
	Mallika (ICHG-00440)	VB	RAU, Hanumangarh	2009	<i>Kharif</i>	C
Andhra Pradesh and Telengana	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	Kadiri-5	SB	ANGRAU, Kadiri	2005	<i>Kharif</i>	S
	Kadiri-6 (K-1240)	SB	ANGRAU, Kadiri	2005	<i>Rabi</i> -summer	S
	GG -16 (JSP-39)	VR	JAU, Junagadh	2006	<i>Kharif</i>	C
	Kalahasti (TCGS-320)	SB	ANGRAU, Tirupati	2007	<i>Kharif</i> and <i>rabi</i> -summer	S
	Narayani (TCGS-29)	SB	ANGRAU, Tirupati	2007	<i>Kharif</i> and <i>rabi</i> -summer	S
	Prasuna (TCGS-341)	SB	ANGRAU, Tirupati	2007	<i>Kharif</i> and <i>rabi</i> -summer	S
	Abhaya (TPT-25)	SB	ANGRAU, Tirupati	2007	<i>Kharif</i> and <i>rabi</i> -summer	S
	ICGV-91114	SB	ICRISAT, Hyderabad	2007	<i>Kharif</i>	S
	AK- 265	VB	PDKV, Akola	2007	<i>Kharif</i>	C
	Ajeya (R-2001-3)	SB	UAS, Raichur	2008	<i>Kharif</i>	C
	ICGV-00348	VB	TNAU, Vriddhachalam	2008	<i>Kharif</i>	C
	Kadiri-9	SB	ANGRAU, Kadiri	2009	<i>Kharif</i>	S
	Greeshma	SB	ANGRAU, Tirupati	2009	<i>Kharif</i> and <i>rabi</i> -summer	S
	Kadiri-7	VB	ANGRAU, Kadiri	2009	<i>Kharif</i>	S
	Kadiri-8	VB	ANGRAU, Kadiri	2009	<i>Kharif</i>	S
	VRI (Gn)-6 (VG -9816)	SB	TNAU, Vriddhachalam	2009	<i>Kharif</i>	C
	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	ICGV 00350	SB	ANGRAU, Tirupati	2012	<i>Kharif</i> and <i>rabi</i> -summer	C
	Dharani (TCGS 1043)	SB	ANGRAU, Tirupati	2013	<i>Kharif</i> and summer	S
	Phule Warna (KDG 128)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	ALG -06-320	SB	TNAU, Tindivanam	2017	<i>Rabi</i> -summer	C
	Kadiri Amaravathi (K 1535)	SB	ANGRAU, Kadiri	2017	<i>Kharif</i>	S
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	GJG 32 (ICGV 03043)	SB	JAU, Junagadh	2018	<i>Kharif</i>	C
	Phule Chaitanya (KDG 160)	SB	MPKV, Digraj	2019	<i>Rabi</i> -summer	C
	Phule Dhani (JL 1085)	SB	MPKV, Rahuri	2019	<i>Kharif</i>	C
	Dheeraj (TCGS 1073)	SB	ANGRAU, Tirupati	2019	<i>Kharif</i> and summer	S
	Pragati (TCGS 894)	SB	ANGRAU, Tirupati	2019	<i>Rabi</i> -summer	C

Table 6 contd.

	Dh 256	SB	UAS, Dharwad	2019	<i>Kharif</i>	C
	Girnar 4 (ICGV 15083)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Girnar 5 (ICGV 15090)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Jagtial Palli 1 (JGC 2141)	SB	PJTSAT, Jagtial	2020	<i>Kharif and summer</i>	S
	K 1719 (Kadiri Chithravathi)	SB	ANGRAU, Kadiri	2021	<i>Rabi-summer</i>	C
	K 1812 (Kadiri Lepakshi)	SB	ANGRAU, Kadiri	2021	<i>Kharif</i>	C
Gujarat	GG -7 (J-38)	SB	JAU, Junagadh	2001	<i>Kharif</i>	C
	GG -6	SB	JAU, Junagadh	2003	<i>Rabi-summer</i>	S
	TG -37A	SB	BARC, Mumbai	2004	<i>Kharif and rabi-summer</i>	C
	Prutha (Dh-86)	SB	UAS, Dharwad	2005	<i>Rabi-summer</i>	C
	JL-501	SB	MPKV, Jalgaon	2010	<i>Kharif</i>	C
	GJG-HPS-1	VR	JAU, Junagadh	2010	<i>Kharif</i>	S
	GJG 31 (J 71)	SB	JAU, Junagadh	2012	<i>Kharif</i>	S
	GJG 9 (J 69)	SB	JAU, Junagadh	2012	Summer	S
	GJG-22 (JSSP 36)	VB	JAU, Junagadh	2013	<i>Kharif</i>	S
	GJG-17 (JSP-48)	VR	JAU, Junagadh	2013	<i>Kharif</i>	S
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	Phule Warna (KDG 128)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	Gujarat Groundnut HPS 2 (GG HPS 2)	VB	JAU, Junagadh	2019	<i>Kharif</i>	S
	Gujarat Groundnut-34 (GG 34)	SB	AAU, Anand	2019	Summer	S
	Girnar 4 (ICGV 15083)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Girnar 5 (ICGV 15090)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Gujarat Groundnut 41 (Padma)	VR	JAU, Junagadh	2020	<i>Kharif</i>	S
Kerala	Sneha	VB	KAU, Vellayani	2002	<i>Kharif</i>	S
	Snigdha	VB	KAU, Vellayani	2002	<i>Kharif</i>	S
	GG -16 (JSP-39)	VR	JAU, Junagadh	2006	<i>Kharif</i>	C
	ICGV-00348	VB	TNAU, Vriddhachalam	2008	<i>Kharif</i>	C
Karnataka	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	AK- 265	VB	PDKV, Akola	2007	<i>Kharif</i>	C
	Ajeya (R-2001-3)	SB	UAS, Raichur	2008	<i>Kharif</i>	C
	ICGV-00348	VB	TNAU, Vriddhachalam	2008	<i>Kharif</i>	C

Table 6 contd.

	TGLPS-3 (TDG-39)	VB	UAS, Dharwad	2009	<i>Kharif and rabi-summer</i>	S
	VRI (Gn)-6 (VG -9816)	SB	TNAU, Vriddhachalam	2009	<i>Kharif</i>	C
	Kadiri Haritandhra (K-1319)	SB	ANGRAU, Kadiri	2010	<i>Rabi-summer</i>	C
	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	Phule Warna (KDG 128)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	KCG 6 (CTMG 6)	SB	UAS, Bangaluru	2016	<i>Rabi-summer</i>	S
	GKVK 5		GKVK, Bengaluru	2016	<i>Kharif and Summer</i>	S
	G 2-52	SB	UAS, Dharwad	2016	<i>Kharif</i>	S
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	GJG 32 (ICGV 03043)	SB	IAU, Junagadh	2018	<i>Kharif</i>	C
	Phule Dhani (JL 1085)	SB	MPKV, Rahuri	2019	<i>Kharif</i>	C
	Dh 256	SB	UAS, Dharwad	2019	<i>Kharif</i>	C
	Girnar 4 (ICGV 15083)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Girnar 5 (ICGV 15090)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	ICGV 06189	SB	UAS, Dharwad	2020	<i>Kharif</i>	S
	Dh 257	SB	UAS, Dharwad	2021	<i>Rabi-summer</i>	C
	K 1812 (Kadiri Lepakshi)	SB	ANGRAU, Kadiri	2021	<i>Kharif</i>	C
Madhya Pradesh	AK-159	SB	PKV, Akola	2002	<i>Kharif</i>	C
	GG -8 (J-53)	SB	IAU, Junagadh	2006	<i>Kharif</i>	C
	Jawaher Groundnut-23 (JGN-23)	SB	JNKVV, Khargone	2009	<i>Kharif</i>	S
	Phule Bharti (JL 776)	SB	MPKV, Jalgaon	2015	<i>Kharif</i>	C
Bihar and Jharkhand	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	TG -38B (TG -38)	SB	BARC, Mumbai	2006	<i>Rabi-summer</i>	C
	Vasundhara (Dh 101)	SB	UAS, Dharwad	2007	<i>Rabi-summer</i>	C
	TG 51	SB	BARC, Mumbai	2008	<i>Rabi-summer</i>	C
	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	GPBD-5	SB	UAS, Dharwad	2010	<i>Kharif</i>	C
	GJG 18 (JSP 49)	VR	IAU, Junagadh	2015	<i>Kharif</i>	C
	Birsa Groundnut 4 (BAU 25)	VB	BAU, Kanke	2015	<i>Kharif</i>	S
	GJG 19 (JSP 51)	VR	IAU, Junagadh	2016	<i>Kharif</i>	C

Table 6 contd.

	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
Maharashtra	AK-159	SB	PDKV, Akola	2002	<i>Kharif</i>	C
	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	Prutha (Dh-86)	SB	UAS, Dharwad	2005	<i>Rabi-summer</i>	C
	Ratneshwar (LGN-1)	SB	MAU, Latur	2005	<i>Kharif</i>	S
	GG -8 (J-53)	SB	JAU, Junagadh	2006	<i>Kharif</i>	C
	GG -16 (JSP-39)	VR	JAU, Junagadh	2006	<i>Kharif</i>	C
	TLG -45	SB	MAU, Latur	2007	<i>Kharif</i>	S
	Phule Unap (JL-286)	SB	MPKV, Jalgaon	2007	<i>Rabi-summer</i>	S
	AK-303	VB	PDKV, Akola	2007	<i>Kharif</i>	S
	AK- 265	VB	PDKV, Akola	2007	<i>Kharif</i>	C
	Ajeya (R-2001-3)	SB	UAS, Raichur	2008	<i>Kharif</i>	C
	ICGV-00348	VB	TNAU, Vriddhachalam	2008	<i>Kharif</i>	C
	VRI (Gn)-6 (VG-9816)	SB	TNAU, Vriddhachalam	2009	<i>Kharif</i>	C
	Kadiri Haritandhra (K-1319)	SB	ANGRAU, Kadiri	2010	<i>Rabi-summer</i>	C
	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	Phule Warna (KDG 128)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	Phule Bharti (JL 776)	SB	MPKV, Jalgaon	2015	<i>Kharif</i>	C
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	GJG 32 (ICGV 03043)	SB	JAU, Junagadh	2018	<i>Kharif</i>	C
	Konkan Bhuratna (RTNG-29)	VB	DBSKKV, Dapoli	2019	<i>Kharif</i>	S
	Phule Unnati (RHRG 6083)	SB	MPKV, Rahuri	2019	<i>Kharif and Rabi- summer</i>	S
	AK 335 (PDKVG-335)	SB	PDKV, Akola	2019	<i>Kharif</i>	S
	Dh 257	SB	UAS, Dharwad	2021	<i>Rabi-summer</i>	C
Odisha	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	TG -37A	SB	BARC, Mumbai	2004	<i>Kharif and rabi-summer</i>	C
	Prutha (Dh-86)	SB	UAS, Dharwad	2005	<i>Rabi-summer</i>	C
	TG -38B (TG -38)	SB	BARC, Mumbai	2006	<i>Rabi-summer</i>	C
	Vasundhara (Dh 101)	SB	UAS, Dharwad	2007	<i>Rabi-summer</i>	C
	ICGV-91114	SB	ICRISAT, Hyderabad	2007	<i>Kharif</i>	S
	TG 51	SB	BARC, Mumbai	2008	<i>Rabi-summer</i>	C

Table 6 contd.

	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	Girnar-3 (PBS-12160)	SB	DGR, Junagadh	2010	<i>Kharif</i>	C
	GJG 18 (JSP 49)	VR	JAU, Junagadh	2015	<i>Kharif</i>	C
	Raj Mungfali-2 (RG 578)	VB	SKRAU, Durgapura	2015	<i>Kharif</i>	C
	GJG 19 (JSP 51)	VR	JAU, Junagadh	2016	<i>Kharif</i>	C
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
Punjab	GG -14 (JSP-28)	VR	JAU, Junagadh	2003	<i>Kharif</i>	C
	TG -37A	SB	BARC, Mumbai	2004	<i>Kharif and rabi-summer</i>	C
	GG -21 (JSSP-15)	VB	JAU, Junagadh	2005	<i>Kharif</i>	C
	Utkarsh (CSMG -9510)	VR	CSAUA&T Mainpuri	2005	<i>Kharif</i>	C
	SG -99	SB	PAU, Ludhiana	2007	<i>Kharif and rabi-summer</i>	S
	M-548	VR	PAU, Ludhiana	2007	<i>Kharif</i>	S
	Girnar-2 (PBS-24030)	VB	NRCG, Junagadh	2008	<i>Kharif</i>	C
	HNG -69	VB	RAU, Hanumangarh	2010	<i>Kharif</i>	C
	HNG 123	VB	SKRAU, Hanumangarh	2012	<i>Kharif</i>	C
	Raj Mungfali-1 (RG 510)	VR	SKRAU, Durgapura	2012	<i>Kharif</i>	C
	Raj Mungfali 3 (RG 559-3)	VB	SKNAU, Durgapura	2016	<i>Kharif</i>	C
	J 87 (Gujarat Groundnut 36)	SB	JAU, Junagadh	2021	<i>Rabi-summer</i>	C
Rajasthan	GG -7 (J-38)	SB	JAU, Junagadh	2001	<i>Kharif</i>	C
	GG -14 (JSP-28)	VR	JAU, Junagadh	2003	<i>Kharif</i>	C
	TG -37A	SB	BARC, Mumbai	2004	<i>Kharif and rabi-summer</i>	C
	Prutha (Dh-86)	SB	UAS, Dharwad	2005	<i>Rabi-summer</i>	C
	GG -21(JSSP-15)	VB	JAU, Junagadh	2005	<i>Kharif</i>	C
	Utkarsh (CSMG -9510)	VR	CSAUA&T Mainpuri	2005	<i>Kharif</i>	C
	Pratap Mugphali-1 (ICUG -92035)	SB	MPAU&T, Udaipur	2005	<i>Kharif</i>	S
	Pratap Mugphali-2 (ICUG -92195)	SB	MPAUand T, Udaipur	2005	<i>Kharif</i>	S
	Durga (RG -382)	VR	RAU, Durgapura	2005	<i>Kharif</i>	S
	TBG -39 (TG -39)	VB	RAU, Bikaner	2007	<i>Kharif</i>	S
	Girnar-2 (PBS-24030)	VB	NRCG, Junagadh	2008	<i>Kharif</i>	C
	JL-501	SB	MPKV, Jalgaon	2010	<i>Kharif</i>	C

Table 6 contd.

	HNG -69	VB	RAU, Hanumangarh	2010	<i>Kharif</i>	C
	Pratap Raj Mungphali	SB	MPUA&T, Udaipur	2011	<i>Kharif and summer</i>	S
	Divya (CSMG 2003-19)	VR	CSAUA&T, Mainpuri	2011	<i>Kharif</i>	C
	HNG 123	VB	SKRAU, Hanumangarh	2012	<i>Kharif</i>	C
	Raj Mungfali-1 (RG 510)	VR	SKRAU, Durgapura	2012	<i>Kharif</i>	C
	Raj Mungfali 3 (RG 559-3)	VB	SKNAU, Durgapura	2016	<i>Kharif</i>	C
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	Phule Warna (KDG 128)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	Girnar 4 (ICGV 15083)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Girnar 5 (ICGV 15090)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Pratap Mungphli 3 (UG 116)	SB	MPAUT, Udaipur	2020	<i>Kharif and Summer</i>	S
Tamil Nadu	VRI (Gn) 5	SB	TNAU, Vriddhachalam	2001	<i>Kharif and rabi-summer</i>	S
	Co (Gn)-4 (TNAU-269)	SB	TNAU, Coimbatore	2001	<i>Kharif and rabi-summer</i>	S
	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	Co(GN)-5	VB	TNAU, Vriddhachalam	2005	<i>Kharif</i>	S
	GG -16 (JSP-39)	VR	JAU, Junagadh	2006	<i>Kharif</i>	C
	AK- 265	VB	PDKV, Akola	2007	<i>Kharif</i>	C
	TMV (Gn)-13	SB	TNAU, Coimbatore	2007	<i>Kharif</i>	S
	VRI (Gn)-7	VB	TNAU, Vriddhachalam	2008	<i>Kharif</i>	S
	Ajeya (R-2001-3)	SB	UAS, Raichur	2008	<i>Kharif</i>	C
	ICGV-00348	VB	TNAU, Vriddhachalam	2008	<i>Kharif</i>	C
	VRI (Gn)-6 (VG -9816)	SB	TNAU, Vriddhachalam	2009	<i>Kharif</i>	C
	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	ICGV 00350	SB	ANGRAU, Tirupati	2012	<i>Kharif and rabi-summer</i>	C
	CO 6	VB	TNAU, Coimbatore	2012	<i>Kharif</i>	S
	Groundnut Co 7	SB	TNAU, Coimbatore	2015	<i>Kharif</i>	S

Table 6 contd.

	Phule Warna (KDG 128)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	ALG -06-320	SB	TNAU, Tindivanam	2017	<i>Rabi-summer</i>	C
	VRI 8 (VG 09220)	SB	TNAU, Vridhachalam	2017	<i>Kharif and Summer</i>	S
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	GJG 32 (ICGV 03043)	SB	JAU, Junagadh	2018	<i>Kharif</i>	C
	Phule Dhani (JL 1085)	SB	MPKV, Rahuri	2019	<i>Kharif</i>	C
	TMV 14	SB	TNAU, Tindivanam	2019	<i>Kharif</i>	S
	BSR 2 (BSG 0912)	SB	TNAU, Bhavanisagar	2019	<i>Kharif and Rabi- Summer</i>	S
	Central-Pragati (TCGS 894)	SB	ANGRAU, Tirupati	2019	<i>Rabi-summer</i>	C
	Dh 256	SB	UAS, Dharwad	2019	<i>Kharif</i>	C
	Girnar 4 (ICGV 15083)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	Girnar 5 (ICGV 15090)	VB	ICAR-DGR, Junagadh	2020	<i>Kharif</i>	C
	K 1719 (Kadiri Chithravathi)	SB	ANGRAU, Kadiri	2021	<i>Rabi-summer</i>	C
	K 1812 (Kadiri Lepakshi)	SB	ANGRAU, Kadiri	2021	<i>Kharif</i>	C
West Bengal	TG -37A	SB	BARC, Mumbai	2004	<i>Kharif and rabi-summer</i>	C
	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	Prutha (Dh-86)	SB	UAS, Dharwad	2005	<i>Rabi-summer</i>	C
	TG -38B (TG -38)	SB	BARC, Mumbai	2006	<i>Rabi-summer</i>	C
	Vasundhara (Dh 101)	SB	UAS, Dharwad	2007	<i>Rabi-summer</i>	C
	TG 51	SB	BARC, Mumbai	2008	<i>Rabi-summer</i>	C
	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	Girnar-3 (PBS-12160)	SB	DGR, Junagadh	2010	<i>Kharif</i>	C
	GJG 18 (JSP 49)	VR	JAU, Junagadh	2015	<i>Kharif</i>	C
	Raj Mungfali-2 (RG 578)	VB	SKRAU, Durgapura	2015	<i>Kharif</i>	C
	GJG 19 (JSP 51)	VR	JAU, Junagadh	2016	<i>Kharif</i>	C
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C
	Phule Chaitanya (KDG 160)	SB	MPKV, Digraj	2019	<i>Rabi-summer</i>	C

Table 6 contd.

Uttarakhand	VL- Moongphali-1	SB	VPKAS, Almora	2008	<i>Kharif</i>	S
Uttar Pradesh	GG -14 (JSP-28)	VR	JAU, Junagadh	2003	<i>Kharif</i>	C
	TG -37A	SB	BARC, Mumbai	2004	<i>Kharif and rabi-summer</i>	C
	GG -21 (JSSP-15)	VB	JAU, Junagadh	2005	<i>Kharif</i>	C
	Utkarsh (CSMG -9510)	VR	CSAU A and T, Mainpuri	2005	<i>Kharif</i>	C
	Girnar-2 (PBS-24030)	VB	NRCG, Junagadh	2008	<i>Kharif</i>	C
	HNG -69	VB	RAU, Hanumangarh	2010	<i>Kharif</i>	C
	Divya (CSMG 2003-19)	VR	CSAUAandT, Mainpuri	2011	<i>Kharif</i>	C
	HNG 123	VB	SKRAU, Hanumangarh	2012	<i>Kharif</i>	C
	Raj Mungfali 3 (RG 559-3)	VB	SKNAU, Durgapura	2016	<i>Kharif</i>	C
	Avtar (ICGV 93468)	SB	CSAUA and T, Kanpur	2018	<i>Rabi-summer</i>	S
	J 87 (Gujarat Groundnut 36)	SB	JAU, Junagadh	2021	<i>Rabi-summer</i>	C
NEH States	TG -37A	SB	BARC, Mumbai	2004	<i>Kharif and rabi-summer</i>	C
	Vikas (GPBD-4)	SB	UAS, Dharwad	2004	<i>Kharif</i>	C
	TG -38B (TG -38)	SB	BARC, Mumbai	2006	<i>Rabi-summer</i>	C
	Vasundhara (Dh 101)	SB	UAS, Dharwad	2007	<i>Rabi-summer</i>	C
	TG 51	SB	BARC, Mumbai	2008	<i>Rabi-summer</i>	C
	Vijetha (R 2001-2)	SB	UAS, Raichur	2010	<i>Kharif</i>	C
	Girnar-3 (PBS-12160)	SB	DGR, Junagadh	2010	<i>Kharif</i>	C
	GPBD-5	SB	UAS, Dharwad	2010	<i>Kharif</i>	C
	GJG 18 (JSP 49)	VR	JAU, Junagadh	2015	<i>Kharif</i>	C
	Raj Mungfali-2 (RG 578)	VB	SKRAU, Durgapura	2015	<i>Kharif</i>	C
	GJG 19 (JSP 51)	VR	JAU, Junagadh	2016	<i>Kharif</i>	C
	Phule Moma (KDG 123)	VB	MPKV, Rahuri	2016	<i>Kharif</i>	C

9. Centre-wise varieties released in last twenty-years

During the last twenty years, with the active participation of research institutes, the various centres under All India Coordinated Research Project on Groundnut, State Agricultural Universities, BARC, ICRISAT and other public institutions, nearly half (117) of the total groundnut varieties (238) released in India so far, have been developed and recommended for cultivation for different states. Being a leader in groundnut breeding programme and located in the state of Andhra Pradesh, which is one of the major groundnut growing states, Acharya N. G. Ranga Agricultural University (ANGRAU) has developed maximum number of varieties (22) with its centres located at Kadiri (10) and Tirupati (12), contributing more than 18% of the total released varieties during the last twenty years in India. Another leading centre in groundnut breeding programme is Junagadh Agricultural University (JAU), Junagadh and has developed 18 high yielding and popular groundnut varieties contributing more than 15% of total varieties released during 2001-2021. This was followed by Tamil Nadu Agricultural University (TNAU) (13) with its centres at Vriddhachalam (6), Coimbatore (4), Tindivanam (2) and Bhavanisagar (1). Besides, University of Agricultural Sciences (UAS), Dharwad (11); RAU, Durgapura (5); BARC (4); MPAU&T, Udaipur (4), ICAR-DGR, Junagadh (4); PDKV, Akola (4); SKRAU, Hanumangarh (3); MAU, Latur (3); MPKV, Digraj (3); MPKV, Jalgaon (3), CASUAT, Kanpur and Mainpuri (3); PAU, Ludhiana (2); MPKV, Rahuri (2); KAU, Vellayani (2); UAS, Bengaluru (2); UAS, Raichur (2) and one each by VPKAS, Almora; RAU, Binaker; PJTSAU, Palem; JNKVV, Khargone; DBSKVV, Dapoli; and AAU, Anand contributed to this endeavor. The centre-wise released varieties are provided in **Table 7**.



Groundnut cultivation in farmers' field at Junagadh, Gujarat

7. Centre-wise groundnut varieties developed in last twenty-years

S. No.	Developed by	Name of the variety	Habit Group	Year of release	Season	State/ release central
1	AAU, Anand	Gujarat Groundnut-34 (GG 34)	SB	2019	Summer	State
2	ANGRAU, Kadiri	Kadiri 5	SB	2005	<i>Kharif</i>	State
		Kadiri 6 (K 1240)	SB	2005	<i>Rabi</i> -summer	State
		Kadiri 9	SB	2009	<i>Kharif</i>	State
		Kadiri 7	VB	2009	<i>Kharif</i>	State
		Kadiri 8	VB	2009	<i>Kharif</i>	State
		Kadiri Harithandhra (K 1319)	SB	2010	<i>Rabi</i> -summer	Central
		Kadiri Amaravathi (K 1535)	SB	2017	<i>Kharif</i>	State
		K 1719 (Kadiri Chithravathi)	SB	2021	<i>Rabi</i> -summer	Central
		K 1812 (Kadiri Lepakshi)	SB	2021	<i>Kharif</i>	Central
3	ANGRAU, Tirupati	Prasuna (TCGS 341)	SB	2006	<i>Kharif</i> and <i>rabi</i> -summer	State
		Abhaya (TPT 25)	SB	2006	<i>Kharif</i> and <i>rabi</i> -summer	State
		Kalahasti (TCGS 320)	SB	2007	<i>Kharif</i> and <i>rabi</i> -summer	State
		Narayani (TCGS 29)	SB	2007	<i>Kharif</i> and <i>rabi</i> -summer	State
		Greeshma	SB	2009	<i>Kharif</i> and <i>rabi</i> -summer	State
		RARS-T-1	SB	2011	<i>Kharif</i> and <i>rabi</i> -summer	State
		RARS-T-2	SB	2011	<i>Kharif</i> and <i>rabi</i> -summer	State
		ICGV 00350	SB	2012	<i>Rabi</i> -summer	Central
		Dharani (TCGS 1043)	SB	2013	<i>Kharif</i> and summer	State
		Nitya Haritha (TCGS 1157)	SB	2018	<i>Kharif</i>	Central
		Dheeraj (TCGS 1073)	SB	2019	<i>Kharif</i> and summer	State
		Pragati (TCGS 894)	SB	2019	<i>Rabi</i> -summer	Central
4	BARC, Trombay	TPG 41	SB	2004	<i>Rabi</i> -summer	Central
		TG 37A	SB	2004	<i>Kharif</i> and <i>rabi</i> -summer	Central
		TG 38B (TG 38)	SB	2006	<i>Rabi</i> -summer	Central
		TG 51	SB	2008	<i>Rabi</i> -summer	Central
5	BAU, Kanke	Birsa Groundnut 4 (BAU 25)	VB	2015	<i>Kharif</i>	State
6	CSAUA&T, Kanpur	Avtar (ICGV 93468)	SB	2018	<i>Rabi</i> -summer	State
	CSAUA&T, Mainpuri	Utkarsh (CSMG 9510)	VR	2005	<i>Kharif</i>	Central
		Divya (CSMG 2003-19)	VR	2011	<i>Kharif</i>	Central

7	DBSKKV, Dapoli	Konkan Bhuratna (RTNG-29)	VB	2019	<i>Kharif</i>	State
8	ICAR-DGR, Junagadh	Girnar 2 (PBS-24030)	VB	2008	<i>Kharif</i>	Central
		Girnar 3 (PBS 12160)	SB	2010	<i>Kharif</i>	Central
		Girnar 4 (ICGV 15083)	VB	2020	<i>Kharif</i>	Central
		Girnar 5 (ICGV 15090)	VB	2020	<i>Kharif</i>	Central
9	ICRISAT, Hyderabad	ICGV 91114	SB	2007	<i>Kharif</i>	State
10	JAU, Junagadh	GG 7 (J-38)	SB	2001	<i>Kharif</i>	Central
		GG 6	SB	2003	<i>Rabi-summer</i>	State
		GG 14 (JSP 28)	VR	2003	<i>Kharif</i>	Central
		GG 21 (JSSP 15)	VB	2005	<i>Kharif</i>	Central
		GG 8 (J 53)	SB	2006	<i>Kharif</i>	Central
		GG 16 (JSP 39)	VR	2006	<i>Kharif</i>	Central
		GJG-HPS-1 (JSP-HPS-44)	VR	2010	<i>Kharif</i>	State
		GJG 31 (J 71)	SB	2012	Summer	State
		GJG 9 (J 69)	SB	2012	<i>Kharif</i>	State
		GJG-22 (JSSP 36)	VB	2013	<i>Kharif</i>	State
		GJG-17 (JSP-48)	VR	2013	<i>Kharif</i>	State
		GJG 18 (JSP 49)	VR	2015	<i>Kharif</i>	Central
		GJG 19 (JSP 51)	VR	2016	<i>Kharif</i>	Central
		GJG 32 (ICGV 03043)	SB	2018	<i>Kharif</i>	Central
		GJG 33 (ICGV 07222)	SB	2018	<i>Rabi-summer</i>	Central
		Gujarat Groundnut HPS 2 (GG HPS 2)	VB	2019	<i>Kharif</i>	State
		Gujarat Groundnut 41 (Padma)	VR	2020	<i>Kharif</i>	State
		J 87 (Gujarat Groundnut 36)	SB	2021	<i>Rabi-summer</i>	Central
11	JNKVV, Khargone	Jawahar Groundnut 23 (JGN 23)	SB	2009	<i>Kharif</i>	State
12	KAU, Vellayani	Sneha	VB	2002	<i>Kharif</i>	State
		Snigdha	VB	2002	<i>Kharif</i>	State
13	MAU, Latur	Manjra (LGN 2)	VB	2001	<i>Kharif</i>	Central
		TLG 45	SB	2004	<i>Kharif</i>	State
		Ratneshwar (LGN 1)	SB	2005	<i>Kharif</i>	State
14	MPKV, Digraj	Phule Warna (KDG 128)	VB	2016	<i>Kharif</i>	Central
		Phule Morna (KDG 123)	VB	2016	<i>Kharif</i>	Central
		Phule Chaitanya (KDG 160)	SB	2019	<i>Rabi-summer</i>	Central

15	MPKV, Jalgaon	Phule Unap (JL 286)	SB	2004	<i>Rabi-summer</i>	State
		JL 501	SB	2010	<i>Kharif</i>	Central
		Phule Bharti (JL 776)	SB	2015	<i>Kharif</i>	Central
16	MPKV, Rahuri	Phule Unnati (RHRG 6083)	SB	2019	<i>Kharif and rabi-summer</i>	State
		Phule Dhani (JL 1085)	SB	2019	<i>Kharif</i>	Central
17	MPUA&T, Udaipur	Pratap Mugphali 1 (ICUG 92035)	SB	2005	<i>Kharif</i>	State
		Pratap Mugphali 2 (ICUG 92195)	SB	2005	<i>Kharif</i>	State
		Pratap Raj Mungphali	SB	2011	<i>Kharif and summer</i>	State
		Pratap Mungphali 3 (UG 116)	SB	2020	<i>Kharif and Summer</i>	State
18	PAU, Ludhiana	SG 99	SB	2004	<i>Kharif and rabi-summer</i>	State
		M 548	VR	2007	<i>Kharif</i>	State
19	PDKV, Akola	AK 159	SB	2002	<i>Kharif</i>	Central
		AK 265	VB	2007	<i>Kharif</i>	Central
		AK 303	VB	2007	<i>Kharif</i>	State
		AK 335 (PDKVG-335)	SB	2019	<i>Kharif</i>	State
20	PJTSAU, Jagtial	Jagtial Palli 1 (JGC 2141)	SB	2020	<i>Kharif and summer</i>	State
21	RAU, Bikaner	TBG 39 (TG 39)	VB	2007	<i>Kharif</i>	State
22	SKRAU, Hanumangarh	Mallika (ICHG 00440)	VB	2009	<i>Kharif</i>	Central
		HNG 69	VB	2010	<i>Kharif</i>	Central
		HNG 123	VB	2012	<i>Kharif</i>	Central
23	RARI, RAU Durgapura	RG 382 (Durga)	VR	2005	<i>Kharif</i>	State
		Raj Durga (RG 425)	VB	2011	<i>Kharif</i>	State
		Raj Mungfali-1 (RG 510)	VR	2012	<i>Kharif</i>	Central
		Raj Mungfali-2 (RG 578)	VB	2015	<i>Kharif</i>	Central
		Raj Mungfali 3 (RG 559-3)	VB	2016	<i>Kharif</i>	Central
24	ARS, TNAU, Vriddha chalam	VRI (Gn) 5	SB	2001	<i>Kharif and rabi-summer</i>	State
		Co(GN) 5	VB	2005	<i>Kharif</i>	State
		ICGV 00348	VB	2008	<i>Kharif</i>	Central
		VRI (Gn) 7	VB	2008	<i>Kharif</i>	State
		VRI (Gn) 6 (VG 9816)	SB	2009	<i>Kharif</i>	Central
		VRI 8 (VG 09220)	SB	2017	<i>Kharif and summer</i>	State
25	ARS, TNAU, Bhavanisagar	BSR 2 (BSG 0912)	SB	2019	<i>Kharif and rabi-summer</i>	State

26	TNAU, Coimbatore	Co (Gn) 4 (TNAU 269)	SB	2001	<i>Kharif</i> and <i>rabi</i> -summer	State
		TMV (Gn) 13	SB	2006	<i>Kharif</i>	State
		Co 6	VB	2012	<i>Kharif</i>	State
		Groundnut Co 7	SB	2015	<i>Kharif</i> and summer	State
27	ARS, TNAU, Tindivanam	ALG -06-320	SB	2017	<i>Rabi</i> -summer	Central
		TMV 14	SB	2019	<i>Kharif</i>	State
28	UAS, Bangaluru	KCG 6 (CTMG 6)	SB	2016	<i>Rabi</i> -summer	State
		GKVK 5	SB	2016	<i>Kharif</i> and summer	State
29	UAS, Dharwad	Vikas (GPBD 4)	SB	2004	<i>Kharif</i>	Central
		Prutha (Dh 86)	SB	2005	<i>Rabi</i> -summer	Central
		Vasundhara (Dh 101)	SB	2007	<i>Rabi</i> -summer	Central
		TGLPS 3 (TDG-39)	VB	2009	<i>Kharif</i>	State
		GPBD-5	SB	2010	<i>Kharif</i>	Central
		G 2-52	SB	2015	<i>Kharif</i>	State
		Dh-232	SB	2018	<i>Kharif</i>	State
		Dh-245	SB	2018	<i>Kharif</i>	State
		Dh 256	SB	2019	<i>Kharif</i>	Central
		ICGV 06189	SB	2020	<i>Kharif</i>	State
30	UAS, Raichur	Ajeya (R 2001-3)	SB	2008	<i>Kharif</i>	Central
		Vijetha (R 2001-2)	SB	2010	<i>Kharif</i>	Central
31	VPKAS, Almora	VL- Moongphali-1	SB	2008	<i>Kharif</i>	State

SB= Spanish Bunch: VB= Virginia Bunch: VR= Virginia Runner

10. Habit group-wise varieties

During the period of 2001-02 to 2020-21, a total of 117 high yielding groundnut varieties were released which contains 76 Spanish Bunch (SB), 29 Virginia Bunch and 12 Virginia Runner varieties. Among the 76 Spanish Bunch varieties, 44 and 32 are released by state and centrally, respectively (**Table 8a**). Among the SB varieties, 34, 19 and two varieties are exclusively released for cultivation at different states during *kharif*, *rabi*-summer and summer season, respectively. However, 13 and eight SB varieties are also released for cultivation in both *kharif* and *rabi*-summer and *kharif* and summer season, respectively. As SB varieties are of short duration (90-110 days), they fit well in all the three seasons and also in various cropping system as intercrops. These varieties are also suitable under late sown condition due to delayed arrival of monsoon. The *rabi*-summer and summer cultivation being under assured irrigated condition, productivity is quite high as compared to rainfed condition. The high yield is also attributed due to less disease and pest pressure, and better management of nutrients, weeds and water and other agronomic practices. Maximum number of SB varieties was developed by ANGRAU (Kadiri and Tirupati; 19) followed by UAS, Dharwad (10); TNAU (9); JAU, Junagadh (8) and MPKV (Jalgaon, Rahuri and Digraj; 6) (**Table 8a**).

There are 29 Virginia Bunch (VB) varieties released for cultivation in India during 2001-2021 for *kharif* season only as these varieties are of long duration (110-140 days). Among these, 15 and 14 varieties were released at state and central level, respectively (**Table 8b**). Because of comparatively wider spaced and long duration, these group of varieties do not fit well as intercrops in different cropping system. With assured irrigation during *kharif* season, these varieties produce higher biomass and productivity. Among the various centres, TNAU (Vriddhachalam and Coimbatore; 4); JAU, Junagadh (3); ICAR-DGR, Junagadh (3), MPKV, Digraj (3), RAU, Dhurapura (3) and RAU, Hanumangarh (3) are the leading centres in developing high yielding Virginia Bunch varieties.

In Virginia Runner category, only 12 varieties were released during 2001-2021 and recommended for cultivation in *kharif* season. Among these five and seven varieties were released at state and central level, respectively. Most of these varieties are long-duration and widely spaced (60 cm). Most of them were developed by JAU, Junagadh (7) and two each by CSAUA&T, Mainpuri and RAU, Hanumangarh. Remaining one, M548, was released by PAU, Ludhiana. The details of these group of varieties are provided in **Table 8c**.

a. Spanish Bunch

Table 8a. Spanish Bunch groundnut varieties released in India during 2001-2021

S. No.	Name of the variety	Year of release	Developed by	Season	State/central release
1	VRI (Gn) 5	2001	TNAU, Vriddhachalam	<i>Kharif</i> and <i>rabi</i> -summer	State
2	Co (Gn) 4 (TNAU 269)	2001	TNAU, Coimbatore	<i>Kharif</i> and <i>rabi</i> -summer	State
3	GG 7 (J-38)	2001	JAU, Junagadh	<i>Kharif</i>	Central
4	AK 159	2002	PKV, Akola	<i>Kharif</i>	Central
5	GG 6	2003	JAU, Junagadh	<i>Rabi</i> -summer	State
6	TPG 41	2004	BARC, Trombay	<i>Rabi</i> -summer	Central
7	TG 37A	2004	BARC, Trombay	<i>Kharif</i> and <i>rabi</i> -summer	Central
8	Vikas (GPBD 4)	2004	UAS, Dharwad	<i>Kharif</i>	Central
9	TLG 45	2004	MAU, Latur	<i>Kharif</i>	State
10	SG 99	2004	PAU, Ludhiana	<i>Kharif</i> and <i>rabi</i> -summer	State
11	Phule Unap (JL 286)	2004	MPKV, Jalgaon	<i>Rabi</i> -summer	State
12	Prutha (Dh 86)	2005	UAS, Dharwad	<i>Rabi</i> -summer	Central
13	Kadiri 5	2005	ANGRAU, Kadiri	<i>Kharif</i>	State
14	Kadiri 6 (K 1240)	2005	ANGRAU, Kadiri	<i>Rabi</i> -summer	State
15	Pratap Mugphali 2 (ICUG 92195)	2005	MPUA&T, Udaipur	<i>Kharif</i>	State
16	Pratap Mugphali 1 (ICUG 92035)	2005	MPUA&T, Udaipur	<i>Kharif</i>	State
17	Ratneshwar (LGN 1)	2005	MAU, Latur	<i>Kharif</i>	State
18	GG 8 (J 53)	2006	JAU, Junagadh	<i>Kharif</i>	Central
19	TG 38B (TG 38)	2006	BARC, Trombay	<i>Rabi</i> -summer	Central
20	Prasuna (TCGS 341)	2006	ANGRAU, Tirupati	<i>Kharif</i> and <i>rabi</i> -summer	State
21	Abhaya (TPT 25)	2006	ANGRAU, Tirupati	<i>Kharif</i> and <i>rabi</i> -summer	State
22	TMV (Gn) 13	2006	TNAU, Coimbatore	<i>Kharif</i>	State
23	Vasundhara (Dh 101)	2007	UAS, Dharwad	<i>Rabi</i> -summer	Central
24	ICGV 91114	2007	ICRISAT, Hyderabad	<i>Kharif</i>	State
25	Kalahasti (TCGS 320)	2007	ANGRAU, Tirupati	<i>Kharif</i> and <i>rabi</i> -summer	State
26	Narayani (TCGS 29)	2007	ANGRAU, Tirupati	<i>Kharif</i> and <i>rabi</i> -summer	State
27	TG 51	2008	BARC, Trombay	<i>Rabi</i> -summer	Central
28	Ajeya (R 2001-3)	2008	UAS, Raichur	<i>Kharif</i>	Central
29	VL- Moongphali-1	2008	VPKAS, Almora	<i>Kharif</i>	State
30	VRI (Gn) 6 (VG 9816)	2009	TNAU, Vriddhachalam	<i>Kharif</i>	Central

31	Jawahar Groundnut 23 (JGN 23)	2009	JNKVV, Khargone	<i>Kharif</i>	State
32	Kadiri 9	2009	ANGRAU, Kadiri	<i>Kharif</i>	State
33	Greeshma	2009	ANGRAU, Tirupati	<i>Kharif and rabi-summer</i>	State
34	JL 501	2010	MPKV, Jalgaon	<i>Kharif</i>	Central
35	Vijetha (R 2001-2)	2010	UAS, Raichur	<i>Kharif</i>	Central
36	Girnar 3 (PBS 12160)	2010	DGR, Junagadh	<i>Kharif</i>	Central
37	Kadiri Harithandhra (K 1319)	2010	ANGRAU, Kadiri	<i>Rabi-summer</i>	Central
38	GPBD-5	2010	UAS, Dharwad	<i>Kharif</i>	Central
39	RARS-T-1	2011	ANGRAU, Tirupati	<i>Kharif and rabi-summer</i>	State
40	RARS-T-2	2011	ANGRAU, Tirupati	<i>Kharif and rabi-summer</i>	State
41	Pratap Raj Mungphali	2011	MPUAandT, Udaipur	<i>Kharif and summer</i>	State
42	ICGV 00350	2012	ANGRAU, Tirupati	<i>Rabi-summer</i>	Central
43	GJG 31 (J 71)	2012	JAU, Junagadh	Summer	State
44	GJG 9 (J 69)	2012	JAU, Junagadh	<i>Kharif</i>	State
45	Dharani (TCGS 1043)	2013	ANGRAU, Tirupati	<i>Kharif and summer</i>	State
46	Groundnut Co 7	2015	TNAU, Coimbatore	<i>Kharif and summer</i>	State
47	Phule Bharti (JL 776)	2015	MPKV, Jalgaon	<i>Kharif</i>	Central
48	G 2-52	2015	UAS, Dharwad	<i>Kharif</i>	State
49	KCG 6 (CTMG 6)	2016	UAS, Bangaluru	<i>Rabi-summer</i>	State
50	GKVK 5	2016	UAS, GKVK, Bangaluru	<i>Kharif and Summer</i>	State
51	ALG -06-320	2017	TNAU, Tindivanam	<i>Rabi-summer</i>	Central
52	Kadiri Amaravathi (K 1535)	2017	ANGRAU, Kadiri	<i>Kharif</i>	State
53	VRI 8 (VG 09220)	2017	TNAU, Vridhachalam	<i>Kharif and Summer</i>	State
54	GJG 32 (ICGV 03043)	2018	JAU, Junagadh	<i>Kharif</i>	Central
55	GJG 33 (ICGV 07222)	2018	JAU, Junagadh	<i>Rabi-summer</i>	Central
56	DH-232	2018	UAS, Dharwad	<i>Kharif</i>	State
57	DH-245	2018	UAS, Dharwad	<i>Kharif</i>	State
58	Nitya Haritha (TCGS 1157)	2018	ANGRAU, Tirupati	<i>Kharif</i>	Central
59	Avtar (ICGV 93468)	2018	CSAUA&T, Kanpur	<i>Rabi-summer</i>	State
60	TMV 14	2019	TNAU, Tindivanam	<i>Kharif</i>	State
61	Phule Chaitanya (KDG 160)	2019	MPKV, Digraj	<i>Rabi-summer</i>	Central
62	AK 335 (PDKVG-335)	2019	PDKV, Akola	<i>Kharif</i>	State

63	Phule Unnati (RHRG 6083)	2019	MPKV, Rahuri	<i>Kharif</i> and <i>rabi</i> -summer	State
64	Phule Dhani (JL 1085)	2019	MPKV, Rahuri	<i>Kharif</i>	Central
65	Gujarat Groundnut-34 (GG 34)	2019	AAU, Anand	Summer	State
66	Dheeraj (TCGS 1073)	2019	ANGRAU, Tirupati	<i>Kharif</i> and summer	State
67	BSR 2 (BSG 0912)	2019	TNAU, Bhavanisagar	<i>Kharif</i> and <i>rabi</i> -summer	State
68	Pragati (TCGS 894)	2019	ANGRAU, Tirupati	<i>Rabi</i> -summer	Central
69	Dh 256	2019	UAS, Dharwad	<i>Kharif</i>	Central
70	Pratap Mungphli 3 (UG 116)	2020	MPAUT, Udaipur	<i>Kharif</i> and summer	State
71	Jagtial Palli 1 (JGC 2141)	2020	PJTSAT, Jagtial	<i>Kharif</i> and summer	State
72	ICGV 06189	2020	UAS, Dharwad	<i>Kharif</i>	State
73	K 1719 (Kadiri Chithravathi)	2021	ANGRAU, Kadiri	<i>Rabi</i> -summer	Central
74	DH 257	2021	UAS, Dharwad	<i>Rabi</i> -summer	Central
75	K 1812 (Kadiri Lepakshi)	2021	ANGRAU, Kadiri	<i>Kharif</i>	Central
76	J 87 (Gujarat Groundnut 36)	2021	JAU, Junagadh	<i>Rabi</i> -summer	Central

b. Virginia Bunch

Table 8b. Virginia Bunch groundnut varieties released in India during 2001-2021

S. No.	Name of the variety	Year of release	Developed by	Season	State/ central release
1	Manjra (LGN 2)	2001	MAU, Latur	<i>Kharif</i>	Central
2	Sneha	2002	KAU, Vellayani	<i>Kharif</i>	State
3	Snigdha	2002	KAU, Vellayani	<i>Kharif</i>	State
4	Co(GN) 5	2005	TNAU, Vriddhachalam	<i>Kharif</i>	State
5	GG 21 (JSSP 15)	2005	JAU, Junagadh	<i>Kharif</i>	Central
6	AK 265	2007	PDKV, Akola	<i>Kharif</i>	Central
7	TBG 39 (TG 39)	2007	RAU, Bikaner	<i>Kharif</i>	State
8	AK 303	2007	PDKV, Akola	<i>Kharif</i>	State
9	Girnar 2 (PBS-24030)	2008	NRCG, Junagadh	<i>Kharif</i>	Central
10	ICGV 00348	2008	TNAU, Viriddhachalam	<i>Kharif</i>	Central
11	VRI (Gn) 7	2008	Viriddhachalam	<i>Kharif</i>	State
12	Kadiri 7	2009	ANGRAU, Kadiri	<i>Kharif</i>	State
13	Kadiri 8	2009	ANGRAU, Kadiri	<i>Kharif</i>	State

14	Mallika (ICHG 00440)	2009	RAU, Hanumangarh	<i>Kharif</i>	Central
15	TGLPS 3 (TDG-39)	2009	UAS, Dharwad	<i>Kharif</i>	State
16	HNG 69	2010	RAU, Hanumangarh	<i>Kharif</i>	Central
17	Raj Durga (RG 425)	2011	RAU, Durgapura	<i>Kharif</i>	State
18	HNG 123	2012	SKRAU, Hanumangarh	<i>Kharif</i>	Central
19	Co 6	2012	TNAU, Coimbatore	<i>Kharif</i>	State
20	GJG-22 (JSSP 36)	2013	JAU, Junagadh	<i>Kharif</i>	State
21	Raj Mungfali-2 (RG 578)	2015	SKRAU, Durgapura	<i>Kharif</i>	Central
22	Birsa Groundnut 4 (BAU 25)	2015	BAU, Kanke	<i>Kharif</i>	State
23	Raj Mungfali 3 (RG 559-3)	2016	SKNAU, Durgapura	<i>Kharif</i>	Central
24	Phule Warna (KDG 128)	2016	MPKV, Digraj	<i>Kharif</i>	Central
25	Phule Morna (KDG 123)	2016	MPKV, Digraj	<i>Kharif</i>	Central
26	Konkan Bhuratna (RTNG-29)	2019	DBSKKV, Dapoli	<i>Kharif</i>	State
27	Gujarat Groundnut HPS 2 (GG HPS 2)	2019	JAU, Junagadh	<i>Kharif</i>	State
28	Girnar 4 (ICGV 15083)	2020	ICAR-DGR, Junagadh	<i>Kharif</i>	Central
29	Girnar 5 (ICGV 15090)	2020	ICAR-DGR, Junagadh	<i>Kharif</i>	Central

c. Virginia Runner

Table 8c. Virginia Runner groundnut varieties released in India during 2001-2021

S. No.	Name of the variety	Year of release	Developed by	Season	State/ central release
1	GG 14 (JSP 28)	2003	JAU, Junagadh	<i>Kharif</i>	Central
2	Utkarsh (CSMG 9510)	2005	CSAUA&T, Mainpuri	<i>Kharif</i>	Central
3	RG 382 (Durga)	2005	RAU Durgapura	<i>Kharif</i>	State
4	GG 16 (JSP 39)	2006	JAU, Junagadh	<i>Kharif</i>	Central
5	M 548	2007	PAU, Ludhiana	<i>Kharif</i>	State
6	GJG-HPS-1 (JSP-HPS-44)	2010	JAU, Junagadh	<i>Kharif</i>	State
7	Divya (CSMG 2003-19)	2011	CSAUA&T, Mainpuri	<i>Kharif</i>	Central
8	Raj Mungfali-1 (RG 510)	2012	SKRAU, Durgapura	<i>Kharif</i>	Central
9	GJG-17 (JSP-48)	2013	JAU, Junagadh	<i>Kharif</i>	State
10	GJG 18 (JSP 49)	2015	JAU, Junagadh	<i>Kharif</i>	Central
11	GJG 19 (JSP 51)	2016	JAU, Junagadh	<i>Kharif</i>	Central
12	Gujarat Groundnut 41 (Padma)	2020	JAU, Junagadh	<i>Kharif</i>	State

11. Productivity-wise varieties

The productivity of groundnut is high during *rabi*-summer and spring/summer irrigated condition throughout the country. Varieties are released each year on the basis of 10% higher kernel yield of the proposed entries over the best check of the particular zone. Therefore, productivity of the newly released varieties generally are higher than the previously released varieties. The yield-wise variety released in India during 201-2021 are provided in **Table 9**. Among the varieties recommended for cultivation during *rabi*-summer season, RARS-T-2 is having the highest productivity (4200 kg/ha) as per release proposal during 2011 from ANGRAU, Tirupati as a state release variety and recommended for Andhra Pradesh. However, this variety could not become popular and now not under seed chain. Other high yielding varieties in the top five recommended for *rabi*-summer cultivation are J87 with productivity of 4165 kg/ha (centrally released in 2021 and developed by JAU, Junagadh for Uttar Pradesh and Punjab); Dh 86 (4020 kg/ha; centrally released in 2005 for the states of Gujarat, UP, WB, Odisha, Punjab, Maharashtra and Rajasthan), developed by UAS, Dharwad; TGGS 341 (4000 kg/ha; state released variety for Andhra Pradesh in 2006), developed by ANGRAU, Tirupati; and Greeshma (4000 kg/ha; a state release variety for the state of Andhra Pradesh in 2009), developed by ANGRAU, Tirupati. Among the varieties recommended for *kharif* season, productivity wise top five varieties are Sneha (state release from KAU, Vellayani in 2002; 3820 kg/ha), RARS-T-2 (3734 kg/ha; state release from ANGARU, Tirupati in 2011), Snigdha (3550 kg/ha; state release from KAU, Vellayani in 2002); K1812 (3514 kg/ha; central release from ANGRAU, Kadiri in 2021), and Pratap Munghali 3 (3388 kg/ha; state release from MPAUT, Udaipur in 2020).



Flowering in wild *Arachis*

Table 9. Groundnut varieties released in India during 2001-2021 in descending order of their yield

S. No.	Name of the variety	Habit Group	Year of release	Recommended state (s)	Season	Pod yield (kg/ha)
1	RARS-T-2	SB	2011	Andhra Pradesh	<i>Kharif</i> and <i>rabi</i> -summer	3734 (<i>kharif</i>); 4200 (<i>rabi</i>)
2	J 87 (Gujarat Groundnut 36)	SB	2021	Punjab and Uttar Pradesh	<i>Rabi</i> -summer	4165
3	Prutha (Dh 86)	SB	2005	Gujarat, Southern Rajasthan, Maharashtra, Idisha and WB	<i>Rabi</i> -summer	4020
4	Prasuna (TCGS 341)	SB	2006	Andhra Pradesh	<i>Kharif</i> and <i>rabi</i> -summer	2000 (<i>kharif</i>); 4000 (<i>rabi</i> -summer)
5	Greeshma	SB	2009	Andhra Pradesh	<i>Kharif</i> and <i>rabi</i> -summer	2100 (<i>kharif</i>); 4000 (<i>rabi</i> -summer)
6	RARS-T-1	SB	2011	Andhra Pradesh	<i>Kharif</i> and <i>rabi</i> -summer	2500 (<i>kharif</i>); 4000 (<i>rabi</i>)
7	Phule Unnati (RHRG 6083)	SB	2019	Maharashtra	<i>Kharif</i> and <i>rabi</i> -summer	2854 (<i>kharif</i>); 3990 (<i>rabi</i> -summer)
8	Sneha	VB	2002	Kerala	<i>Kharif</i>	3820
9	Abhaya (TPT 25)	SB	2006	Andhra Pradesh	<i>Kharif</i> and <i>rabi</i> -summer	2300 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)
10	Kalahasti (TCGS 320)	SB	2007	Andhra Pradesh	<i>Kharif</i> and <i>rabi</i> -summer	1400 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)
11	Narayani (TCGS 29)	SB	2007	Andhra Pradesh	<i>Kharif</i> and <i>rabi</i> -summer	2250 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)
12	Kadiri Harithandhra (K 1319)	SB	2010	Karnataka and Maharashtra	<i>Rabi</i> -summer	3720
13	Gujarat Groundnut-34 (GG 34)	SB	2019	Gujarat	Summer	3715
14	Dheeraj (TCGS 1073)	SB	2019	Andhra Pradesh	<i>Kharif</i> and Summer	2547 (<i>kharif</i>); 3690 (<i>rabi</i>)
15	KCG 6 (CTMG 6)	SB	2016	Karnataka	<i>Rabi</i> -summer	3663
16	Snigdha	VB	2002	Kerala	<i>Kharif</i>	3550
17	K 1812 (Kadiri Lepakshi)	SB	2021	AP, Telangana, Karnataka and Tamilnadu	<i>Kharif</i>	3514
18	GJG 31 (J 71)	SB	2012	Gujarat	Summer	3483
19	Dh 257	SB	2021	Karnataka and Maharashtra	<i>Rabi</i> -summer	3397
20	Pratap Mungphli 3 (UG 116)	SB	2020	Rajasthan	<i>Kharif</i> and summer	3388

Table 9 contd.

21	Phule Dhani (JL 1085)	SB	2019	Tamil Nadu, Andhra Pradesh and Karnataka	<i>Kharif</i>	3333
22	Jagtial Palli 1 (JCG 2141)	SB	2020	Telangana	<i>Kharif</i> and summer	3330-3500
23	Dh 256	SB	2019	Tamil Nadu, Andhra Pradesh, Karnataka and Telangana	<i>Kharif</i>	3258
24	Girnar 4 (ICGV 15083)	VB	2020	Rajasthan, Gujarat, Karnataka, Tamil Nadu and Andhra Pradesh	<i>Kharif</i>	3218
25	Raj Mungfali 3 (RG 559-3)	VB	2016	Rajasthan, UP and Punjab	<i>Kharif</i>	3173
26	TBG 39 (TG 39)	VB	2007	Rajasthan	<i>Kharif</i>	3150
27	Girnar 5 (ICGV 15090)	VB	2020	Rajasthan, Gujarat, Karnataka, Tamil Nadu and Andhra Pradesh	<i>Kharif</i>	3124
28	Kadiri 6 (K 1240)	SB	2005	Andhra Pradesh	<i>Rabi</i> -summer	3100-3800
29	K 1719 (Kadiri Chithravathi)	SB	2021	Andhra Pradesh, Telangana, and Tamil Nadu	<i>Rabi</i> -summer	3092
30	GJG 33 (ICGV 07222)	SB	2018	Tamil Nadu, Andhra Pradesh and Telangana	<i>Rabi</i> -summer	3064
31	ICGV 00350	SB	2012	TN and AP	<i>Rabi</i> -summer	2988
32	Girnar 2 (PBS-24030)	VB	2008	U.P., Punjab, Northern Rajasthan	<i>Kharif</i>	2910
33	Vasundhara (Dh 101)	SB	2007	W.B, Odisha, Jharkhand and Assam	<i>Rabi</i> -summer	2870
34	TG 37A	SB	2004	Gujarat, Rajasthan, U.P., Punjab, Odisha, W.B. Bihar and Assam	<i>Kharif</i> and <i>rabi</i> -summer	2080 (<i>kharif</i>); 2840 (<i>rabi</i> -summer)
35	Gujarat Groundnut HPS 2 (GG HPS 2)	VB	2019	Gujarat	<i>Kharif</i>	2835
36	Pragati (TCGS 894)	SB	2019	Tamil Nadu, Telangana and Andhra Pradesh	<i>Rabi</i> -summer	2816
37	Groundnut Co 7	SB	2015	Tamil Nadu	<i>Kharif</i> and summer	2300 (<i>kharif</i>); 2806 (<i>rabi</i> -summer)
38	HNG 69	VB	2010	U.P., Punjab and Northern Rajasthan	<i>Kharif</i>	2800

Table 9 contd.

39	GG 6	SB	2003	Gujarat	<i>Rabi</i> -summer	2780
40	TG 38B (TG 38)	SB	2006	Idisha, WB, Bihar and North Eastern states	<i>Rabi</i> -summer	2770
41	Divya (CSMG 2003-19)	VR	2011	UP and Rajasthan	<i>Kharif</i>	2757
42	Kadiri 9	SB	2009	Andhra Pradesh	<i>Kharif</i>	2750.0
43	ALG -06-320	SB	2017	Tamil Nadu and Andhra Pradesh	<i>Rabi</i> -summer	2741
44	Gujarat Groundnut 41 (Padma)	VR	2020	Gujarat	<i>Kharif</i>	2722
45	VRI 8 (VG 09220)	SB	2017	Tamil Nadu	<i>Kharif</i> and summer	2130 (<i>kharif</i>); 2700 (<i>rabi</i> -summer)
46	TG 51	SB	2008	W.B., Idisha, Jharkhand and Assam	<i>Rabi</i> -summer	2670
47	Dharani (TCGS 1043)	SB	2013	Andhra Pradesh	<i>Kharif</i> and summer	1887 (<i>kharif</i>); 2666 (<i>rabi</i> -summer)
48	Nitya Haritha (TCGS 1157)	SB	2018	Maharashtra and Madhya Pradesh	<i>Kharif</i>	2657
49	HNG 123	VB	2012	Rajasthan, UP and Punjab	<i>Kharif</i>	2648
50	TMV (Gn) 13	SB	2006	Tamil Nadu	<i>Kharif</i>	2580
51	Mallika (ICHG 00440)	VB	2009	All India	<i>Kharif</i>	2580
52	Raj Mungfali-1 (RG 510)	VR	2012	Rajasthan and Punjab	<i>Kharif</i>	2558
53	Vijetha (R 2001-2)	SB	2010	WB, Odisha, Jharkhand, Assam, Maharashtra, Karnataka, A.P. and, T.N.	<i>Kharif</i>	1630 (Zone IV); 2522 (Zone V)
54	SG 99	SB	2004	Punjab	<i>Kharif</i> and <i>rabi</i> -summer	2200 (<i>kharif</i>); 2500 (<i>rabi</i> -summer)
55	Pratap Mugphali 1 (ICUG 92035)	SB	2005	Rajasthan	<i>Kharif</i>	2500-3000
56	GKVK 5	SB	2016	Southern Karnataka	<i>Kharif</i> and summer	2500-2800
57	Dh-232	SB	2018	Karnataka	<i>Kharif</i>	2500-3000
58	Dh-245	SB	2018	Karnataka	<i>Kharif</i>	2500-2900
59	TGLPS 3 (TDG-39)	VB	2009	Karnataka	<i>Kharif</i>	2500-3000
60	Konkan Bhuratna (RTNG-29)	VB	2019	Maharashtra	<i>Kharif</i>	2500-3000
61	Ajeya (R 2001-3)	SB	2008	Southern Maharashtra, Karnataka, A.P., and T.N.	<i>Kharif</i>	2440

Table 9 contd.

62	Phule Warna (KDG 128)	VB	2016	Tamil Nadu, Andhra Pradesh, Karnataka, southern Maharashtra Gujarat and Rajasthan	<i>Kharif</i>	2425
63	Avtar (ICGV 93468)	SB	2018	Uttar Pradesh	<i>Rabi</i> -summer	2400
64	VRI (Gn) 5	SB	2001	Tamil Nadu	<i>Kharif</i> and <i>rabi</i> -summer	2130 (<i>Kharif</i>); 2380 (<i>Rabi</i> -summer)
65	BSR 2 (BSG 0912)	SB	2019	Tamil Nadu	<i>Kharif</i> and <i>rabi</i> -summer	2222 (<i>Kharif</i>); 2360 (<i>Rabi</i> -summer)
66	VRI (Gn) 6 (VG 9816)	SB	2009	Southern Maharashtra, Karnataka, A.P., and T.N.	<i>Kharif</i>	2260
67	Phule Unap (JL 286)	SB	2004	Maharashtra	<i>Rabi</i> -summer	2230
68	Phule Morna (KDG 123)	VB	2016	Gujarat, Rajasthan Odisha, WB, Jharkhand, Manipur, Tamil Nadu, AP, Karnataka and Southern Maharashtra	<i>Kharif</i>	2212
69	Vikas (GPBD 4)	SB	2004	Maharashtra, Karnataka, A.P. and T.N.	<i>Kharif</i>	2200
70	Kadiri 5	SB	2005	Andhra Pradesh	<i>Kharif</i>	2200
71	AK 335 (PDKVG-335)	SB	2019	Maharashtra	<i>Kharif</i>	2200-2400
72	RG 382 (Durga)	VR	2005	Rajasthan	<i>Kharif</i>	2200
73	Utkarsh (CSMG 9510)	VR	2005	U.P., Punjab, and Northern Rajasthan	<i>Kharif</i>	2190
74	Phule Chaitanya (KDG 160)	SB	2019	Tamil Nadu, Telangana and Andhra Pradesh	<i>Rabi</i> -summer	2184
75	M 548	VR	2007	Punjab	<i>Kharif</i>	2180
76	GG 14 (JSP 28)	VR	2003	Northern Rajasthan, Punjab, Haryana and U.P	<i>Kharif</i>	2159
77	GG 7 (J-38)	SB	2001	Gujarat and southern Rajasthan	<i>Kharif</i>	2150
78	TMV 14	SB	2019	Tamil Nadu	<i>Kharif</i>	2124
79	GJG-HPS-1 (JSP-HPS-44)	VR	2010	Gujarat	<i>Kharif</i>	2120

Table 9 contd.

80	Phule Bharti (JL 776)	SB	2015	Maharashtra and Madhya Pradesh	<i>Kharif</i>	2110
81	ICGV 06189	SB	2020	Karnataka	<i>Kharif</i>	2100-2500
82	AK 303	VB	2007	Maharashtra	<i>Kharif</i>	2100
83	TPG 41	SB	2004	All India	<i>Rabi-summer</i>	2080
84	GG 16 (JSP 39)	VR	2006	Tamil Nadu, A.P, Kerala and southern Maharashtra	<i>Kharif</i>	2058
85	ICGV 00348	VB	2008	Southern Maharashtra, Karnataka, A.P., and T.N.	<i>Kharif</i>	2010
86	ICGV 91114	SB	2007	Andhra Pradesh	<i>Kharif</i>	2000
87	G 2-52	SB	2015	Karnataka	<i>Kharif</i>	2000-2500
88	Birsa Groundnut 4 (BAU 25)	VB	2015	Jharkhand	<i>Kharif</i>	2000-2200
89	Co (Gn) 4 (TNAU 269)	SB	2001	Tamil Nadu	<i>Kharif and rabi-summer</i>	1500 (<i>kharif</i>); 1950 (<i>rabi-summer</i>)
90	GJG 32 (ICGV 03043)	SB	2018	Tamil Nadu, Andhra Pradesh, Karnataka, southern Maharashtra and Telangana, Gujarat (Area extention)	<i>Kharif</i>	1947
91	VL- Moongphali-1	SB	2008	Uttarakhand	<i>Kharif</i>	1940
92	CO 6	VB	2012	Tamil Nadu	<i>Kharif</i>	1914
93	AK 265	VB	2007	Southern Maharashtra, Karnataka, AP, and TN	<i>Kharif</i>	1900
94	GJG 19 (JSP 51)	VR	2016	Odisha, West Bengal, Jharkhand and Manipur	<i>Kharif</i>	1876
95	VRI (Gn) 7	VB	2008	Tamil Nadu	<i>Kharif</i>	1860
96	GG 21 (JSSP 15)	VB	2005	U.P., Punjab, northern Rajasthan	<i>Kharif</i>	1840
97	Pratap Mugphali 2 (ICUG 92195)	SB	2005	Rajasthan	<i>Kharif</i>	1800-2800
98	GJG-17 (JSP-48)	VR	2013	Gujarat	<i>Kharif</i>	1798
99	Raj Durga (RG 425)	VB	2011	Rajasthan	<i>Kharif</i>	1788
100	GJG-22 (JSSP 36)	VB	2013	Gujarat	<i>Kharif</i>	1770
101	GG 8 (J 53)	SB	2006	Northern Maharashtra and Madhya Pradesh	<i>Kharif</i>	1710

Table 9 contd.

102	JL 501	SB	2010	Gujarat and Southern Rajasthan	<i>Kharif</i>	1660
103	Kadiri 7	VB	2009	Andhra Pradesh	<i>Kharif</i>	1640
104	GJG 9 (J 69)	SB	2012	Gujarat	<i>Kharif</i>	1632
105	Jawahar Groundnut 23 (JGN 23)	SB	2009	Madhya Pradesh	<i>Kharif</i>	1630
106	AK 159	SB	2002	Maharashtra and M.P	<i>Kharif</i>	1600
107	Kadiri Amaravathi (K 1535)	SB	2017	Andhra Pradesh	<i>Kharif</i>	1600-1800
108	Co (Gn) 5	VB	2005	Tamil Nadu	<i>Kharif</i>	1580
109	Girnar 3 (PBS 12160)	SB	2010	W.B, Odisha, Manipur	<i>Kharif</i>	1520
110	Kadiri 8	VB	2009	Andhra Pradesh	<i>Kharif</i>	1520
111	TLG 45	SB	2004	Maharashtra	<i>Kharif</i>	1500
112	GPBD-5	SB	2010	Jharkhand and Manipur	<i>Kharif</i>	1500
113	Manjra (LGN 2)	VB	2001	Gujarat and Southern Rajasthan	<i>Kharif</i>	1500-2000
114	Ratneshwar (LGN 1)	SB	2005	Maharashtra	<i>Kharif</i>	1490
115	Raj Mungfali-2 (RG 578)	VB	2015	Odisha, WB and Manipur	<i>Kharif</i>	1480
116	GJG 18 (JSP 49)	VR	2015	Odisha, WB, Jharkhand and Manipur	<i>Kharif</i>	1450
117	Pratap Raj Mungphali	SB	2011	Rajasthan	<i>Kharif and summer</i>	1432

12. Salient features of the promising varieties

It is important for a breeder to select correct donors as sources of particular traits for introgressing in desired background. Although trait specific varieties are not generally released except large seeded ones, all the entries received for evaluation are tested for their reaction to biotic stress at multilocations in natural epiphytotic conditions. In most of the cases, yield is considered as the criteria for releasing a variety. All the AICRP-Groundnut trials are generally conducted with assured irrigation unless otherwise defined and hence not evaluated for drought, heat and high temperature tolerance. However, entries could be evaluated in in-station trails for abiotic stress tolerance before propose for AICRP-Groundnut evaluation. Moreover, reaction to disease and pests varied from year to year depending upon their pressure. As disease and pest reaction data are mandatory for proposal for varietal release, the multilocation data are available in the release proposal. The entries are also evaluated for oil, sugar, protein, fatty acid, free amino acids, etc. and are also available in the release proposal. On the basis of available data, the salient features of the varieties released during 2001-2021 are provided in **Table 10 and 11**. Generally, groundnut contains 48-50% oil and 22-28% protein. Over the normal values are considered high and graded accordingly. As varieties with multiple biotic and abiotic stress tolerance are emphasized in future, the information compiled will be very useful. As per the release proposal, Dh 257, Ajeya (R2001-3), GKVK5, K1812 (Kadiri Lepakshi), AK265, RG 382 (Durga), Jawahar Groundnut 3 (JGN3), Dharani, Kadiri 5, Greeshma, kadiri 9, Kadiri Amravathi, Abhaya, TMV (Gn) 13, etc. are categorized as having drought tolerance. The varieties GG6, Sneha, Narayani, RARS-T-2, Pratap Raj Mungphali, GG7, Phule Unap (JL 286), ICGV 91114, Avtar and TMV14 are early maturing. The Utkarsh and K1319 are having fresh seed dormancy of 40-45 days and 20 days, respectively. Among the varieties, GJG21, AK159, KDG 160, Phule Unnati, GG34, and Co(Gn)4 are having high oil content (>52%). Similarly, Dh 245 (72%), Girnar 4 (>78%) and Girnar 5 (>78%) are having high oleic acid and thus have better shelf-life. A number of varieties have also been released as large seeded varieties having 100 kernel mass > 60 g are AK303 (80 g), GGHPS2 (67 g), M548 (61 g), TBG 39 (66 g), Malikka (73 g), TPG41 (65 g), BAU 25 (64-69 g), Kadiri (65-75 g) and Kadiri 8 (65-75 g). Late leaf spot (LLS) and rust are major foliar fungal disease and tolerant varieties are need of the hour. The varieties Vikas (GPBD4), Phule Dhani (JL1085), Co (Gn)6, ICGV 00350, Konkan Bhuratna, Raj Mungphali 2 and VRI (Gn)5 are tolerant to LLS and rust. However, GPBD4 is the first such MAS derived variety resistant to LLS and rust. In case of viral diseases, Vijetha (R2001-2), SG99, GJGHPS-1, Divya, GG8, Co(Gn)5, and ALG06-320 are tolerant to PBND. Collar rot and stem rot are major soil-borne fungal disease causing devastation throughout the groundnut growing area in India. Resistance sources are very limited. However, as per release proposal, GJG22, K1719, HNG69, Raj Mungphali 1, HNG123 and GJG 33 are tolerant to collar rot. Similarly, TG38B, GJG8, GJG17, GJG31, TG51, GJG32, GJG19 and Dh 101 are reported to have tolerance to stem rot pathogen.

Table 10. Special attributes of groundnut varieties released in India during 2001-2021

S. No.	Name of the variety	Year of release	Pod yield (kg/ha) (%)	Shell-ing (%)	Oil con-tent	Maturity in days mass (g)	100-kernel	Special characters
1	VRI (Gn) 5	2001	2130 (<i>kharif</i>); 2380 (<i>rabi</i> -summer)	74.0	50.0	105-110	40.0	Resistant to rust and LLS
2	Co (Gn) 4 (TNAU 269)	2001	1500 (<i>kharif</i>); 1950 (<i>rabi</i> -summer)	73.0	53.0	105-110	52.0	High oil content; resistant to rust and LLS
3	GG 7 (J-38)	2001	2150	76.0	49.0	100	48.0	Early maturity; tolerant to LLS
4	Manjra (LGN 2)	2001	1500-2000	68.0	49.0	115-120	43-48	Suitable for early sown rainfed conditions; tolerant to sucking pests (Jassids and Leaf miner)
5	AK 159	2002	1600	67.0	51.0	106	34.0	High oil content
6	Sneha	2002	3820	-	-	115	-	Early maturity
7	Snigdha	2002	3550	-	-	115	-	Resistant to pest and diseases
8	GG 6	2003	2780	73.0	50.0	100	45.0	Early maturity
9	GG 14 (JSP 28)	2003	2159	65.0	52.0	123	49.0	Tolerant of thrips, <i>Spodoptera</i> , leaf miner
10	TPG 41	2004	2080	69.0	49.0	122	65.0	Large seeded; high O/L ratio (3.27); possesses fresh seed dormancy (up to 25 days); tolerant to rust
11	TG 37A	2004	2080 (<i>kharif</i>); 2840 (<i>rabi</i> -summer)	64.0	48.0	105-110	39.0	Fresh seed dormancy (up to 15 days); olerant to collar rot, rust and LLS
12	Vikas (GPBD 4)	2004	2200	68.0	49.0	107	36.0	Resistant to LLS and rust
13	TLG 45	2004	1500	66.0	51.0	114	59.0	Large seeded
14	SG 99	2004	2200 (<i>kharif</i>); 2500 (<i>rabi</i> -summer)	65.0	52.3	102	42.0	Tolerant to PBND
15	Phule Unap (JL 286)	2004	2230	74.0	49-50	93-95	37-38	Early maturity; tolerant to LLS, rust and stem rot, Tolerant to thrips, leaf miner and <i>Spodoptera litura</i>

Table 10 contd.

16	Prutha (Dh 86)	2005	4020	68.0	48.0	125-127	43.0	Semi dwarf with high harvest index (HI); tolerant to leaf spots and sucking pests
17	Kadiri 5	2005	2200	70.0	48.0	100-110	44.0	Tolerant to drought and LLS
18	Kadiri 6 (K 1240)	2005	3100-3800	70.0	49.0	100-105	39.0	Tolerant to leaf spots
19	Pratap Mugphali 2 (ICUG 92195)	2005	1800-2800	69	48-50	105	38	Tolerant to ELS, LLS, PBND, <i>S. litura</i> , leaf miner and thrips
20	Pratap Mugphali 1 (ICUG 92035)	2005	2500-3000	62.0	48-50	108	40.0	Tolerant to ELS, LLS, PBND, <i>S. litura</i> , leaf miner and thrips
21	Ratneshwar (LGN 1)	2005	1490	69.0	51.2	105	32.0	Tolerant to LLS, stem rot, rust and PBND
22	Co(GN) 5	2005	1580	73.8	53.8	125	46.0	Tolerant to rust and PBND, leaf miner and <i>Spodoptera</i>
23	GG 21 (JSSP 15)	2005	1840	64.0	53.0	123	53.0	High oil content
24	Utkarsh (CSMG 9510)	2005	2190	66.0	49.0	125	54.0	Fresh seed dormancy (up to 40-45 days); resistant to rust
25	RG 382 (Durga)	2005	2200	64.0	50.0	129	59.0	Drought tolerant; tolerant to ELS and rust, jassids, leaf miner and thrips
26	GG 8 (J 53)	2006	1710	69.0	46.0	104-107	35.0	Tolerant to PBND, collar and root rot diseases
27	TG 38B (TG 38)	2006	2770	71.0	48.0	115-125	44.0	Tolerant to stem rot
28	Prasuna (TCGS 341)	2006	2000 (<i>kharif</i>); 4000 (<i>rabi</i> -summer)	74-77	50.0	110	45-50	Tolerant to Kalahasti malady
29	Abhaya (TPT 25)	2006	2300 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)	76.0	52.3	106	38-40	Tolerant to early and mid season moisture deficit stress conditions; tolerant to LLS, sucking insects (jassids and thrips) and <i>Spodoptera litura</i>
30	TMV (Gn) 13	2006	2580	75.0	50.0	105	40-42	Tolerant to early and mid season moisture stress conditions; tolerant to LLS, rust and bud necrosis

Table 10 contd.

31	GG 16 (JSP 39)	2006	2058	63.0	46.0	119	43.0	Tolerant of PBND, root rot, thrips, <i>Spodoptera</i> , Leaf miner
32	Vasundhara (Dh 101)	2007	2870	67.0	50.0	120-130	35.0	Tolerant to stem rot, PBND, thrips and <i>Spodoptera litura</i>
33	ICGV 91114	2007	2000	75.0	48.0	90-95	41.0	Early maturity; tolerant to rust and LLS
34	Kalahasti (TCGS 320)	2007	1400 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)	75.0	52.3	110	50-60	Suitable for <i>rabi</i> situation for Kalahasti malady endemic areas and also for <i>kharif</i> in North-Coastal and North Telengana of Andhra Pradesh; tolerant to bud necrosis, resistant to jassids
35	Narayani (TCGS 29)	2007	2250 (<i>kharif</i>); 3760 (<i>rabi</i> -summer)	74.0	47.5	100	40-45	Early maturity, Tolerant to mid season moisture stress conditions
36	AK 265	2007	1900	68.0	47.0	120	42.0	Drought tolerant; resistant to foliar diseases
37	TBG 39 (TG 39)	2007	3150	64.5	50.0	116	66.2	Large seeded, high yielding; moderately resistant to rust, LLS and stem root
38	AK 303	2007	2100	72.0	49.0	125	80.0	Large seeded
39	M 548	2007	2180	69.0	51.4	123	61.0	Large seeded, high protein content; tolerant to leaf spots and collar rot
40	TG 51	2008	2670	68.0	49.0	124	39.0	Tolerant to stem rot and root rot
41	Ajeya (R 2001-3)	2008	2440	68.0	46-48	105-120	30-36	Drought tolerant, wider adaptability; resistant to PBND
42	VL-Moongphali-1	2008	1940	72.6	42.2	125-130	42.0	Resistant to LLS and root rot diseases
43	Girnar 2 (PBS-24030)	2008	2910	69.0	51.0	130	61.0	Large seeded; stay green leaves at harvest; tolelant to rust, LLS, PSND and sucking pests
44	ICGV 00348	2008	2010	66.0	47.0	124	41.0	Tolerant to leaf spotss and rust disease
45	VRI (Gn) 7	2008	1860	72.0	48.0	120-125	46.0	Tolerant to leaf miner, LLS and rust

Table 10 contd.

46	VRI (Gn) 6 (VG 9816)	2009	2260	66.0	47.0	100-106	29.0	Tolerant to LLS, rust, PBND
47	Jawahar Groundnut 23 (JGN 23)	2009	1630	70.0	49.0	104	36.0	Drought tolerant; tolerant to ELS and LLS
48	Kadiri 9	2009	2750	68.0	-	105-110	31-35	Tolerant to early and late season drought
49	Greeshma	2009	2100 (<i>kharif</i>); 4000 (<i>rabi</i> - summer)	75.0	48-50	95-100	42-45	Tolerant to drought, high temperature, aflatoxin and LLS; early maturing
50	Kadiri 7	2009	1640	68.0	47.0	120-125	65-75	Large seeded; tolerant to sucking pest and leaf spots
51	Kadiri 8	2009	1520	69.0	47.0	120-125	65-75	Large seeded; tolerant to sucking pest and leaf spots
52	Mallika (ICHG 00440)	2009	2580	68.0	48.0	125-130	73.0	Large seeded; resistant to collar rot and PBND
53	TGLPS 3 (TDG-39)	2009	2500-3000	70.0	-	115-120	-	High harvest index (HI), bold kernel with less aflatoxin and confectionary type; tolerant to <i>A. flavus</i> and LLS
54	JL 501	2010	1660	67.0	48.0	102	36.0	Suitable for early as well as late sown conditions
55	Vijetha (R 2001-2)	2010	1630 (Zone IV); 2522 (Zone V)	68.0	46-48	105-110	30-36	Resistant to PBND
56	Girnar 3 (PBS 12160)	2010	1520	70.0	45.0	104-111	34.0	Tolerant of leaf miner and thrips
57	Kadiri Harithandhra (K 1319)	2010	3720	68.0	48.0	122	41.0	Fresh seed dormancy (upto 20days); multiple diseases (rust, ELS, LLs, stem rot, PBND) and insect pests (thrips, <i>Spodoptera litura</i> , jassid, <i>Helicoverpa</i>) resistant
58	GPBD-5	2010	1500	68.0	46.0	105-110	37.0	Resistant to LLS and rust
59	HNG 69	2010	2800	66.0	50.0	131	51.0	Tolerant to collar rot, stem rot and ELS
60	GJG-HPS-1 (JSP-HPS-44)	2010	2120	68.0	49.0	116	56.0	Tolerant to PBND

Table 10 contd.

61	RARS-T-1	2011	2500 (<i>kharif</i>); 4000 (<i>rabi</i>)	63	44	115	-	Large seeded; tolerant to leaf spots and rust, sucking pests (thrips and jassids)
62	RARS-T-2	2011	3734 (<i>kharif</i>); 4200 (<i>rabi</i>)	70	48	90-95	-	Early maturity; moderate tolerance to <i>Spodoptera litura</i> and leaf hoppers
63	Pratap Raj Mungphali	2011	1432	68	48	97	42	Early maturity; tolerant to ELS, LLS, PBND, jassids, thrips and leaf miner and <i>Spodoptera litura</i>
64	Raj Durga (RG 425)	2011	1788	70.4	49.8	128	60.0	Moderately resistant to leaf spots, rust, PBND, collar rot and stem rot
65	Divya (CSMG 2003-19)	2011	2757	64	49	129	56	Tolerant to PBND
66	ICGV 00350	2012	2988	65	50	114	38	Resistant to LLS and rust; tolerant to stem rot
67	GJG 31 (J 71)	2012	3483	70.62	49.24	117	40.77	Tolerant to stem rot
68	GJG 9 (J 69)	2012	1632	72	48	103	37	Tolerant to stem rot
69	HNG 123	2012	2648	67	49	124	54	Tolerant to collar rot, stem rot, LLS, <i>Spodoptera litura</i> and leaf miner
70	CO 6	2012	1914	73.5	49.5-51	1125-130	48-50	Resistant to LLS and rust
71	Raj Mungfali-1 (RG 510)	2012	2558	68	49	125-130	54	Tolerant to collar rot, stem rot, LLS, PBND, thrips, jassids and grass hopper
72	Dharani (TCGS 1043)	2013	1887 (<i>kharif</i>); 2666 (<i>rabi</i> - summer)	76	48-50	105-110	38-43	Drought tolerant; tolerant to stem rot, dry root rot
73	GJG-22 (JSSP 36)	2013	1770	72	51.6	118	44	Tolerant to collar rot
74	GJG-17 (JSP-48)	2013	1798	66	48	121	38	Tolerant to stem rot
75	Groundnut Co 7	2015	2300 (<i>kharif</i>); 2806 (<i>rabi</i> - summer)	71	50.5-51	100-105	35-44	Resistant to rust
76	Phule Bharti (JL 776)	2015	2110	69	50	108	35	Resistant to <i>S.litura</i> and rust in field condition
77	G 2-52	2015	2000-2500	71	48	105-110	40	Foliar disease resistant
78	Raj Mungfali-2 (RG 578)	2015	1480	72	46	120	53	Resistant to LLS, dry root rot, ELS and rust

Table 10 contd.

79	Birsa Groundnut 4 (BAU 25)	2015	2000-2200	72	50.78	115-120	64-69	Large seeded; resistant to LLS
80	GJG 18 (JSP 49)	2015	1450	69	48	121	50	Moderately resistant to PBND and PSND
81	KCG 6 (CTMG 6)	2016	3663	67	51	116	39	Moderately resistance to rust and late leaf spot
82	GKVK 5	2016	2500-2800	74	50	115-120	46	Drought tolerant; moderately resistance to rust and LLS
83	Raj Mungfali 3 (RG 559-3)	2016	3173	69	49	125	65	High yielding; large seeded; tolerant to <i>S.litura</i> , leafminer and thrips
84	Phule Warna (KDG 128)	2016	2425	65	50.9	113	41	Moderately resistance to rust and leaf spot
85	Phule Morna (KDG 123)	2016	2212	70	44	114	41	Moderately resistance to rust and leaf spot
86	GJG 19 (JSP 51)	2016	1876	69	47	122	50	Tolerant to stem rot, dry root rot and rust
87	ALG -06-320	2017	2741	70.7	50.3	115	35	Tolerant to rust, LLS and PBND, <i>S. litura</i> , leaf miner and thrips
88	Kadiri Amaravathi (K 1535)	2017	1600-1800	65	50	110-115	48	Tolerant to early and late season drought; tolerant to leaf spot, sucking pests
89	VRI 8 (VG 09220)	2017	2130 (<i>kharif</i>); 2700 (<i>rabi</i> -summer)	70	49	105-110	44	Moderately resistant to sucking pest), moderately resistant to LLS and rust
90	GJG 32 (ICGV 03043)	2018	1947	66	50	109	35	Tolerant to stem rot, color rot and rust
91	GJG 33 (ICGV 07222)	2018	3064	67	51	113	38	Tolerant to color rot and rust
92	DH-232	2018	2500-3000	78.7	46.9	105-110	35-40	High Shelling (78.7%); resistance to foliar diseases
93	DH-245	2018	2500-2900	73	45.9	105-108	32-36	High oleic acid (>70%)
94	Nitya Haritha (TCGS 1157)	2018	2657	69	49	110	47	Tolerance against late leaf spot, rust and PSND
95	Avtar (ICGV 93468)	2018	2400	70.6	51.1	85-95	40	Early maturity; tolerant to BND, Fungal diseases, Jassid and pod borer
96	TMV 14	2019	2124	70.6	48	95-100	38	Early maturity; tolerant to <i>S. litura</i> , thrips

Table 10 contd.

97	Phule Chaitanya (KDG 160)	2019	2184	66.69	51.6	116	43.1	High oil content (51.6%)
98	AK 335 (PDKVG-335)	2019	2200-2400	68.7	48-49	110-113	35-40	Moderately resistance to leaf spots, color rot
99	Phule Unnati (RHRG 6083)	2019	2854 (<i>kharif</i>); 3990 (<i>rabi</i> -summer)	68	52	111-128	42	High Oil content (52%); resistance to LLS, stem rot, rust
100	Phule Dhani (JL 1085)	2019	3333	68	50	109	38	Resistance to LLS and rust
101	Gujarat Groundnut -34 (GG 34)	2019	3715	67.9	52.8	111-125	50.9	High Oil content (52.8%)
102	Dheeraj (TCGS 1073)	2019	2547 (<i>kharif</i>); 3690 (<i>rabi</i>)	77	48-49	105-115	54-70	Heat tolerance and high water use efficiency
103	BSR 2 (BSG 0912)	2019	2222 (<i>kharif</i>); 2360 (<i>rabi</i> -summer)	70.2	45	105-110	41	Moderately resistance to rust, LLS, jassid, thrips and aphids
104	Pragati (TCGS 894)	2019	2816	70	48	115	41	-
105	Dh 256	2019	3258	68	50	110-115	36	Tolerant to mid season drought, <i>S. litura</i>
106	Konkan Bhuratna (RTNG-29)	2019	2500-3000	74	50.01	110-115	45-50	Resistance to ELS, LLS, rust, PBND, thrips
107	Gujarat Groundnut HPS 2 (GG HPS 2)	2019	2835	68.6	48.8	115-124	66.7	Large seeded
108	Pratap Mungphli 3 (UG 116)	2020	3388	70	47	108	44	Moderately tolerant to ELS, LLS, rust, collar rot and dry root rot
109	Jagtial Palli 1 (JGC 2141)	2020	3330-3500	64	51.5	110	29	Tolerant to early season drought; resistant to Leaf spots
110	ICGV 06189	2020	2100-2500	74.3	43	105-110	65-75	High yield with confectionary traits
111	Girnar 4	2020	3218	67	53	110-112	43	78.5% oleic acid
112	Girnar 5 (ICGV 15090)	2020	3124	67	53	110-115	41	78.4% oleic acid
113	Gujarat Groundnut 41 (Padma)	2020	2722	74	51.4	120	56	High shelling and oil per cent
114	K 1719 (Kadiri Chithravathi)	2021	3092	70	49	113	54	Tolerant to collar rot, PBND and thrips
115	DH 257	2021	3397	72	48	120-125	44	Drought tolerant
116	K1812 (Kadiri Lepakshi)	2021	3514	70	51	107-113	40	Drought tolerant; multiple disease and pests resistant
117	J 87 (Gujarat Groundnut 36)	2021	4165	70	50	108	63	High yielding and bold kernel (HKW 63g)

Table 11. Reaction of groundnut varieties released during 2001-2021 to abiotic and biotic stresses

S. No.	Name of the variety	Year of release	Resistant/Tolerant to diseases									Resistant/ Tolerant to insect pest				Tolerant to abiotic stresses
			ELS	LLS	Rust	Stem rot	Root rot	Collor rot	PBND	<i>A. flavus</i>	Nematode/ Kalahasti melody	Spodoptera	Jassids	Thrips	Leaf miner	
1	VRI (Gn) 5	2001	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
2	Co (Gn) 4 (TNAU 269)	2001	-	-	✓	-	-	-	-	-	-	-	-	-	-	-
3	GG 7 (J-38)	2001	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
4	Manjra (LGN 2)	2001	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
5	Snigdha	2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	GG 14 (JSP 28)	2003	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-
7	TPG 41	2004	-	-	✓	-	-	-	-	-	-	-	-	-	-	-
8	TG 37A	2004	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-
9	Vikas (GPBD 4)	2004	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-
10	SG 99	2004	-	-	-	-	-	-	✓	-	-	-	-	-	-	-
11	Phule Unap (JL 286)	2004	-	✓	✓	-	✓	-	-	-	-	✓	-	✓	-	-
12	Prutha (Dh 86)	2005	-	✓	-	-	-	-	-	-	-	-	✓	-	-	-
13	Kadiri 5	2005	-	✓	-	-	-	-	-	-	-	-	-	-	-	✓
14	Kadiri 6 (K 1240)	2005	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
15	Pratap Mughali 2 (ICUG 92195)	2005	✓	✓	-	-	-	-	-	-	✓	-	✓	-	-	-
16	Pratap Mughali 1 (ICUG 92035)	2005	✓	✓	-	-	-	-	-	-	✓	-	✓	-	-	-
17	Rameshwar (LGN 1)	2005	-	✓	✓	✓	-	-	✓	-	-	-	-	-	-	-
18	Co(GN) 5	2005	-	-	✓	-	-	-	-	-	✓	-	-	✓	-	-
19	Utkarsh (CSMG 9510)	2005	-	-	✓	-	-	-	-	-	-	-	-	-	-	-
20	RG 382 (Durga)	2005	✓	-	✓	-	-	-	-	-	-	✓	✓	-	✓	-
21	GG 8 (J 53)	2006	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-
22	TG 38B (TG 38)	2006	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
23	Prasuna (TCGS 341)	2006	-	-	-	-	-	-	-	-	✓	-	-	-	-	-
24	Abhaya (TPT 25)	2006	-	✓	-	-	-	-	-	-	-	✓	✓	-	-	✓
25	TMV (Gn) 13	2006	-	✓	✓	-	-	-	✓	-	-	-	-	-	-	✓
26	GG 16 (JSP 39)	2006	-	-	-	-	-	-	✓	-	-	✓	-	✓	-	-
27	Vasundhara (Dh 101)	2007	-	-	-	✓	-	-	✓	-	-	✓	-	✓	-	-

Table 11 contd.

28	ICGV 91114	2007	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Kalahasti (TCGS 320)	2007	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-
30	Narayani (TCGS 29)	2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓
31	AK 265	2007	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
32	M 548	2007	-	✓	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
33	TG 51	2008	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Ajeva (R 2001-3)	2008	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	✓
35	VL- Moongphali-1	2008	-	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Gimar 2 (PBS-24030)	2008	-	✓	✓	-	-	-	-	✓	-	-	-	-	-	-	✓	-	-	-
37	ICGV 00348	2008	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	VRI (Gn) 7	2008	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
39	VRI (Gn) 6 (VG 9816)	2009	-	✓	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
40	Jawahar Groundnut 23 (JGN 23)	2009	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓
41	Kadiri 9	2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
42	Greeshma	2009	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
43	Kadiri 7	2009	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
44	Kadiri 8	2009	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
45	Malika (ICHG 00440)	2009	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-	-
46	TGLPS 3 (TDG-39)	2009	-	✓	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
47	Vijetha (R 2001-2)	2010	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
48	Gimar 3 (PBS 12160)	2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
49	Kadiri Harithandhra (K 1319)	2010	✓	✓	✓	-	✓	-	-	✓	-	-	-	✓	-	-	-	-	-	-
50	GPBD-5	2010	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	HNG 69	2010	✓	-	-	✓	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
52	GJG-HPS-1 (JSP-HPS-44)	2010	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
53	RARS-T-1	2011	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
54	Pratap Raj Mungphali	2011	✓	✓	-	-	-	-	-	✓	-	-	-	✓	-	-	-	✓	-	-
55	Divya (CSMG 2003-19)	2011	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-
56	ICGV 00350	2012	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57	GJG 31 (J 71)	2012	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	GJG 9 (J 69)	2012	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59	HNG 123	2012	-	✓	-	-	✓	-	-	-	-	-	-	✓	-	-	-	-	✓	-
60	CO 6	2012	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11 contd.

52	GJG-HPS-1 (JSP- HPS-44)	2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	RARS-T-1	2011	-	✓	-	-	-	-	-	-	-	-	-	✓	-	-	-	-
54	Pratap Raj Mungphali	2011	✓	✓	-	-	-	-	✓	-	-	-	-	✓	-	-	-	-
55	Divya (CSMG 2003- 19)	2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	ICGV 00350	2012	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
57	GjG 31 (J 71)	2012	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
58	GjG 9 (J 69)	2012	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
59	HNG 123	2012	-	✓	-	✓	-	-	✓	-	-	-	-	-	-	-	✓	-
60	CO 6	2012	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61	Raj Mungfali-1 (RG 510)	2012	-	✓	-	✓	-	-	-	-	-	-	-	✓	-	-	-	-
62	Dharani (TCGS 1043)	2013	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	✓
63	GjG-22 (JSSP 36)	2013	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-
64	GjG-17 (JSP-48)	2013	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
65	Groundnut Co 7	2015	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66	Phule Bharti (JL 776)	2015	-	✓	-	-	-	-	-	-	-	-	-	✓	-	-	-	-
67	G 2-52	2015	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
68	Raj Mungfali-2 (RG 578)	2015	✓	✓	-	-	✓	-	-	-	-	✓	-	✓	-	-	✓	-
69	Birsa Groundnut 4 (BAU 25)	2015	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70	GKVK 5	2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
71	Raj Mungfali 3 (RG 559-3)	2016	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	✓	-
72	ALG -06-320	2017	-	✓	✓	-	-	-	-	✓	-	-	-	-	-	-	✓	-
73	Kadiri Amaravathi (K 1535)	2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
74	GjG 32 (ICGV 03043)	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	GjG 33 (ICGV 07222)	2018	-	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-
76	Dh-232	2018	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
77	Dh-245	2018	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
78	Nitya Haritha (TCGS 1157)	2018	-	✓	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-
79	Avatar (ICGV 93468)	2018	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-
80	TMV 14	2019	-	-	-	-	-	-	-	-	-	✓	-	✓	-	✓	-	-

Table 11 contd.

78	Nitya Haritha (TCGS 1157)	2018	-	✓	✓	-	-	-	-	✓	-	-	-	-	-	-	-	-	-
79	Avtar (ICGV 93468)	2018	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-
80	TMV 14	2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81	Phule Unnati (RHRG 6083)	2019	-	✓	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
82	Phule Dhani (JL 1085)	2019	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83	Dheeraj (TCGS 1073)	2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
84	Dh 256	2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
85	Konkan Bhuratna (RTNG-29)	2019	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
86	Jagtial Palli 1 (JGC 2141)	2020	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
87	Gimar 4 (ICGV 15083)	2020	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
88	Gimar 5 (ICGV 15090)	2020	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
89	K 1719 (Kadiri Chithravathi)	2021	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
90	Dh 257	2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
91	K 1812 (Kadiri Lepakshi)	2021	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	✓

13. Breeder seed production

The availability of quality seed in groundnut is a major issue. Being a high volume crop with low SMR (1:8), requirement of breeder seed is very high in groundnut as compared to other field crop only next to soybean. As seed rate is also very high (around 200 kg pod/ha), around 1 million tonnes of certified seeds are required to cover about 5mha in a year. That accounts for nearly 10% of the total production of groundnut as in 2019-20. This requires a huge task of producing that much quantity of certified seed of improved groundnut varieties. Even considering 1:10 as SMR, there will be requirement of 1.0 lakh tonnes of foundation seeds and 10,000 tonnes of breeders seeds. However, nearly 10% i.e. about 1000 tonnes of breeder seeds is indented to DAC (Department of Agriculture and Cooperation) and nearly same quantity is produced in AICRP-Groundnut system each year. The rest amount is produced by State Seed Corporations and SAUs concerned. As of now, nearly 50 high yielding groundnut varieties <10 years old are in seed chain. Since the release of Kadiri 6 variety in 2005, it contributes between 30-40% of total DAC indent for breeder seeds in subsequent years. Other notable varieties having high breeder seed demand are Vikas (GPBD4), TG37A, Narayani and Dharani. The details of breeder seed produced in India as per DAC indent has been provided in **Table 12**.



Seed production at DGR, Junagadh

Table 12a. Groundnut breeder seed production (q) during 2000-2010 in India

Sr. No.	Variety	Year of release	2000-01		2001-02		2002-03		2003-04		2004-05		2005-06		2006-07		2007-08		2008-09		2009-10	
			I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P
1	AK 12-24	1976	425.0	201.3	109.0	130.0	65.0	80.0	241.3	160.0	230.0	284.8	267.0	210.0	195.3	112.0	118.0	140.0	36.0	100.0	92.3	120.0
2	Chandra	1977	6.2	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Chitra	1984	13.0	60.0	11.0	10.0	7.6	35.0	22.6	33.8	10.0	80.3	-	-	2.0	10.0	16.0	6.4	16.0	2.2	32.0	0.0
4	GG 2	1985	366.0	280.0	412.4	660.0	150.0	35.0	50.0	50.0	-	75.0	52.0	33.0	163.0	70.3	-	-	-	-	42.0	0.0
5	ICGS 11	1986	102.0	102.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	ICGS 44	1988	23.3	25.0	4.0	23.0	13.2	18.0	13.8	-	14.5	20.0	15.5	15.5	17.0	37.0	36.5	36.5	25.3	40.0	25.3	40.0
7	ICGS 76	1989	14.0	14.0	10.0	20.0	10.0	18.8	10.0	10.0	20.0	25.0	0.7	0.7	-	-	8.0	23.0	3.3	25.0	1.3	25.0
8	JL 24	1983	579.0	540.5	638.6	648.0	509.6	514.7	699.0	1140.0	675.8	1043.0	571.5	876.1	1930.2	430.0	1903.1	1525.0	1625.0	766.7	3413.5	350.0
9	Kaushal	1985	30.0	40.0	20.0	15.0	22.7	12.0	54.0	20.0	53.00	27.00	40.0	30.0	27.0	44.0	32.0	11.0	32.0	16.8	64.0	29.6
10	KRG 1	1983	-	-	-	-	3.0	10.0	3.0	-	3.00	60.00	10.0	10.0	-	-	-	-	-	-	-	-
11	M 13	1978	37.2	0.3	32.0	1.0	34.0	6.0	30.0	9.0	27.80	47.00	40.0	29.0	100.0	150.0	20.0	3.0	120.0	0.0	110.0	0.0
12	M 335	1988	-	-	13.0	-	16.4	-	15.0	7.0	7.80	4.00	25.0	8.5	67.0	0.0	-	-	80.0	0.00	70.0	0.0
13	S 206	1969	-	-	13.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	SB XI/J 11	1969	447.0	324.0	183.0	223.7	122.0	196.2	135.0	82.2	143.8	215.0	187.5	115.0	280.0	38.7	230.0	70.0	385.0	114.52	150.0	150.0
15	Somnath	1990	20.0	2.0	-	-	-	-	-	-	-	-	-	-	5.00	0.0	4.5	0.00	-	-	-	-
16	TG 3	1985	30.0	28.0	-	-	22.0	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	TMV 2	1975	492.0	365.0	51.0	460.0	473.0	515.0	1128.0	1200.0	1190.0	1505.9	958.0	1810.0	2471.6	680.0	2350.0	3230.0	2105.0	2500.0	9523.0	1800.0
18	TMV 7	1967	-	-	10.0	10.0	20.0	-	2.0	67.8	20.0	-	10.0	10.0	-	-	-	-	-	-	20.0	20.0
19	VRI 2	1989	-	-	200.0	138.2	50.0	50.0	75.0	132.2	100.0	100.0	21.3	25.0	50.0	129.0	100.0	100.0	110.0	110.0	150.0	100.0
20	TAG 24	1992	393.0	284.8	385.0	287.1	375.0	823.0	371.0	1227.0	365.0	683.5	471.5	754.3	708.9	486.6	562.4	863.0	1350.3	834.6	1193.0	1117.0
21	ICGV 86590	1991	10.0	10.0	2.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	DRG 12	1995	30.0	11.7	12.5	12.5	12.0	17.0	10.0	10.0	60.0	50.7	0.6	1.00	20.0	25.0	20.0	25.0	20.0	20.0	10.0	15.0
23	Amber (CSMG 84-1)	1993	20.0	23.0	3.5	5.5	2.6	16.0	3.2	18.95	5.5	3.75	6.0	10.0	7.0	12.0	12.0	11.0	12.0	5.0	24.0	29.3
24	Birsa Bold	1993	12.0	0.0	10.0	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	DRG 17	1995	-	-	-	-	-	-	10.0	-	10.0	-	10.5	-	-	-	5.0	0.0	5.0	0.0	-	-
26	TG 26	1996	90.0	139.0	41.0	11.0	85.0	75.0	105.0	205.0	130.0	176.0	127.5	162.0	160.4	267.5	30.0	310.0	40.0	50.0	77.0	0.0
27	GG 11	1984	-	-	102.0	125.0	100.0	-	-	-	-	-	-	-	150.0	0.0	-	-	-	-	10.0	0.0
28	GAUG 10	1973	-	-	50.0	80.0	50.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	TKG 19A	1993	-	-	26.5	2.5	-	-	-	-	42.0	60.0	14.0	64.0	20.5	50.0	28.0	0.0	3.0	3.0	-	-
30	M 522	1996	25.0	13.0	-	-	-	-	3.5	7.0	5.3	12.0	1.75	8.0	1.4	7.00	6.4	2.2	6.4	7.2	1.1	1.5

Table 12a contd.

31	GG 3	1995	250	0.0	2.5	6.0	-	-	2.0	5.0	50.0	1.6	-	-	-	-	-
32	Kadiri 4	1997	500	10.0	20.0	14.0	20.0	20.0	20.0	50.0	90.0	85.0	40.0	50.0	50.0	30.0	30.0
33	GG 20	1992	40.0	40.0	314.0	450.0	345.0	45.0	55.0	90.0	83.0	54.4	112.5	0.0	182.0	62.0	210.0
34	K 134	1996	645.0	125.0	228.3	128.0	156.0	162.0	190.0	112.0	61.0	85.0	20.0	20.0	-	50.0	50.0
35	R 8808	1997	-	-	-	-	-	-	2.0	20.0	-	-	-	-	10.0	10.0	25.0
36	Smruti (OG 52-1)	1997	-	-	84.0	70.0	150.0	85.0	47.0	70.0	85.8	50.5	45.0	130.0	10.0	70.0	70.0
37	VRI 4	1997	50.0	50.0	10.0	10.0	20.0	-	20.0	-	5.0	0.0	-	-	-	-	-
38	GG 5	1999	20.0	20.0	82.0	100.0	10.0	20.0	20.0	30.0	55.0	56.2	100.0	24.6	100.0	54.7	-
39	HNG 10	1999	60.0	60.0	24.0	30.0	20.8	15.0	45.0	50.0	88.0	110.0	185.0	200.0	110.0	120.0	240.0
40	Prakash (CSMG 884)	1999	-	-	9.70	6.0	9.4	5.0	41.0	8.0	43.0	41.9	35.0	21.0	38.0	38.0	4.0
41	GG 7	2001	-	-	10.0	3.6	102.0	25.0	30.0	70.0	123.0	12.3	150.0	20.1	190.0	11.7	3.0
42	JGN 3	1999	-	-	5.0	16.0	5.0	4.0	10.0	45.0	93.0	34.0	38.0	9.6	43.4	17.0	5.5
43	B 95	1993	-	-	10.0	-	-	-	-	-	-	-	-	-	-	-	-
44	LGN 2	2000	-	-	10.0	8.6	-	-	-	-	-	-	10.0	9.0	-	-	-
45	R 9251	1992	-	-	-	-	2.0	10.0	2.0	20.0	5.0	-	-	-	-	-	-
46	Phule Vyas (JL 220)	2000	-	-	-	-	-	-	10.0	4.0	40.0	3.8	30.0	7.0	54.0	13.0	40.0
47	Prutha (Dh 86)	2002	-	-	-	-	-	-	10.0	60.0	20.0	50.2	26.2	234.0	230.0	500.0	50.0
48	GG 14	2002	-	-	-	-	-	-	10.0	15.0	56.4	30.0	207.0	45.6	180.0	48.0	25.0
49	Vikas (GPBD 4)	2004	-	-	-	-	-	-	-	-	70.0	135.0	97.0	335.0	675.0	1000.0	1225.0
50	TG 37A	2004	-	-	-	-	-	-	-	-	94.0	139.0	250.0	368.2	201.9	233.0	489.0
51	TPG 41	2004	-	-	-	-	-	-	-	-	93.0	209.6	110.0	110.0	95.0	130.0	180.0
52	VRI 6	2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	K 154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54	VRI 5	2001	-	-	-	-	-	-	-	-	70.0	0.0	40.0	40.0	70.0	0.0	50.0
55	Sneha	2002	-	-	-	-	-	-	-	-	10.0	0.0	15.0	0.0	33.0	0.0	10.0
56	AK159	2002	-	-	-	-	-	-	-	-	80.4	56.8	95.0	65.0	95.5	27.7	108.0
57	Konkan Gaurav	1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	DSG 1	1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59	RGN 132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	GG 21	2005	-	-	-	-	-	-	-	-	30.0	14.0	10.0	27.0	10.0	13.0	10.0
61	GG 6	2003	-	-	-	-	-	-	-	-	21.4	18.2	20.0	12.0	50.0	21.4	-
62	ICGV 91114	2007	-	-	-	-	-	-	-	-	90.0	177.0	135.0	135.0	110.0	140.0	530.0
63	Kadiri 6	2003	-	-	-	-	-	-	-	-	50.0	50.0	65.0	65.0	100.0	2450.0	4000.0
64	M 548	2007	-	-	-	-	-	-	-	-	1.1	6.0	1.1	5.0	0.7	1.0	0.00

Table 12a contd.

[illegible]

I= DAC Indent (q); P= Quantity Produced (q); **Source:** Department of Agricultural & Cooperation, Ministry of Agriculture & Farmers Welfare, GOI

Table 12b. Groundnut breeder seed production (q) during 2011 to 2020

Sr. No.	Variety	Year of release	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		2016-17		2017-18		2018-19		2019-20	
			I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P
1	AK 12-24	1976	114.4	130.0	33.3	35.0	59.1	0.1	90.7	0.0	91.0	0.0	-	-	-	-	-	-	-	-	-	-
2	Chitra	1984	-	-	13.0	4.3	6.0	9.6	5.0	3.5	6.9	2.0	-	-	-	-	-	-	-	-	-	-
3	GG 2	1985	2.0	2.0	2.0	2.0	-	-	-	-	3.0	3.0	-	-	-	5.0	5.0	3.0	-	-	-	-
4	ICGS 44	1988	2.0	2.0	11.0	15.0	-	-	-	-	0.2	0.2	-	-	-	-	-	-	-	-	-	-
5	ICGS 76	1989	-	-	1.0	6.0	-	-	-	-	0.5	0.5	2.0	0.5	50.0	50.0	0.2	0.2	0.5	0.5	0.5	0.0
6	JL 24	1983	3146.4	1169.0	2489.9	1630.0	470.9	600.0	30.0	90.0	11.2	0.0	-	-	-	-	-	-	-	-	-	-
7	Kaushal	1985	140.0	17.0	10.5	2.5	6.0	3.3	10.0	5.5	21.4	4.0	-	-	-	-	-	-	-	-	-	-
8	M 13	1978	20.0	0.0	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	SB XI/J 11	1969	200.0	67.0	802.0	-	307.0	0.0	107.0	3.0	105.3	0.0	-	-	58.0	0.0	-	65.0	0.0	36.5	0.0	0.0
10	TG 3	1985	-	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	TMV 2	1975	7183.0	5524.0	3953.0	-	1903.0	0.0	353.5	0.0	-	-	-	-	-	-	-	-	-	249.0	0.0	0.0
12	TMV 7	1967	-	-	20.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	VRI 2	1989	153.0	110.0	71.5	0.0	151.5	75.0	100.0	50.0	250.0	60.0	100.0	30.0	405.8	20.0	-	-	-	-	-	-
14	TAG 24	1992	1084.8	917.2	2112.6	958.8	803.2	1000.0	1025.0	1082.4	923.1	751.7	435.8	508.8	428.0	459.6	265.1	494.0	271.4	305.0	127.9	127.0
15	DRG 12	1995	50.0	10.0	50.0	-	50.0	0.0	23.6	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Amber (CSMG 84-1)	1993	-	-	10.0	2.2	9.0	8.0	1.0	4.3	5.5	2.5	-	-	-	-	-	-	-	-	-	-
17	Birsa Bold	1993	20.0	0.0	-	-	-	-	25.0	2.0	-	-	-	-	5.9	3.0	9.9	1.8	64.2	4.0	91.7	2.0
18	DRG 17	1995	5.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	TG 26	1996	50.0	0.0	50.0	-	36.4	15.0	31.0	18.0	-	-	-	-	-	-	5.0	0.0	2.0	0.0	-	-
20	GAUG 10	1973	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.0	5.0	-	-	30.0	10.0
21	TKG 19A	1993	-	-	-	-	-	-	-	-	0.3	12.8	-	-	-	-	-	-	-	-	-	-
22	M 522	1996	6.4	2.5	0.4	-	1.4	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Kadiri 4	1997	30.0	30.0	30.0	50.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	GG 20	1992	418.0	10.0	200.0	50.0	126.0	30.0	113.0	50.0	83.0	50.0	-	-	8.0	9.0	69.0	70.0	61.5	66.0	60.0	63.0
25	K 134	1996	50.0	50.0	20.0	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Smruti (OG 52-1)	1997	40.2	70.0	35.0	35.0	30.0	30.0	30.0	60.0	20.1	50.0	20.1	30.0	20.0	20.0	-	-	-	-	-	-
27	HNG 10	1999	220.0	260.0	160.0	280.0	40.0	50.0	30.0	100.0	20.0	20.0	-	-	-	-	0.4	4.0	-	-	-	-
28	Prakash (CSMG 884)	1999	-	-	4.0	2.8	-	-	1.0	6.1	13.9	4.3	-	-	-	-	-	-	-	-	-	-
29	GG 7	2001	53.0	53.0	8.0	8.0	3.0	4.0	3.0	3.0	-	-	-	-	-	-	-	-	-	-	-	-
30	JGN 3	1999	10.5	12.0	3.5	7.0	9.0	5.3	-	-	-	-	6.0	-	5.0	1.8	-	-	-	-	-	-

Table 12b contd.

31	Phule Vyas (JL 220)	2000	50.0	2.5	40.0	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Pruthi (Dh 86)	2002	100.0	85.0	14.0	14.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	GG 14	2002	225.0	14.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Vikas (GPBD 4)	2004	625.0	1250.0	940.0	1500.0	780.0	1170.0	1100.0	1600.0	1050.1	1193.2	350.0	500.0	570.0	902.0	525.0	600.0	490.0	665.0	525.0	625.0
35	TG 37A	2004	535.0	752.0	414.3	500.0	555.6	170.0	633.3	535.0	621.9	555.7	366.0	500.0	549.0	834.0	101.5	140.0	96.5	105.0	98.7	110.0
36	TPG 41	2004	290.0	350.0	138.0	130.0	128.0	80.0	210.0	50.0	200.0	200.0	100.0	60.0	40.0	40.0	1.0	1.0	1.5	2.0	1.0	1.0
37	VRI 5	2001	30.0	0.0	30.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Sneha	2002	10.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	AK159	2002	113.2	43.4	11.0	24.3	10.1	10.2	5.0	1.6	-	-	6.0	4.4	4.0	4.0	-	-	-	-	-	-
40	GG 21	2005	10.0	10.0	10.0	8.0	-	-	32.0	2.0	39.7	10.0	62.0	20.0	24.0	25.0	4.0	4.0	4.0	6.0	-	-
41	GG 6	2003	250.0	90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	ICGV 91114	2007	460.0	480.0	1041.5	1050.0	1156.5	1157.0	1705.0	1695.0	1350.0	1500.1	980.0	600.0	1030.0	900.0	715.0	550.0	916.0	850.0	510.0	550.0
43	Kadiri 6	2003	1930.0	1950.0	7231.5	8397.0	4926.6	6396.2	4437.0	4825.0	4330.0	3667.1	1963.2	4412.3	3943.0	4780.0	3797.5	4130.0	4028.0	3469.0	3252.6	3257.1
44	M 548	2007	1.1	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	Narayani (TCGS 29)	2007	1070.0	1255.9	2039.5	1800.0	564.5	564.0	105.0	400.0	145.0	200.0	228.0	228.0	160.0	166.0	170.0	170.0	173.0	173.0	34.0	34.0
46	RG 382	2005	200.0	93.0	175.0	49.0	50.0	5.5	125.0	20.0	30.0	23.0	-	-	-	-	-	-	-	-	-	-
47	Utkarsh (CSMG 9510)	2005	10.0	9.6	19.0	5.2	13.0	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	Pollachi 1	1968	100.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	Vasundhara																					
	(Dh 101)	2007	10.0	10.0	-	-	-	-	-	-	-	-	4.0	7.2	4.0	8.8	4.0	8.0	2.0	5.0	2.0	2.0
50	GG 16	2006	20.0	20.0	20.0	21.0	-	-	26.0	20.0	24.0	24.0	-	-	-	-	-	-	-	-	-	-
51	GG 8	2006	5.0	5.0	20.0	20.0	-	-	5.0	5.0	5.0	10.0	20.0	20.0	-	-	-	-	-	-	-	-
52	Pratap Mughali 1																					
	ICUG 92035	2005	100.0	3.0	120.0	3.2	10.0	0.0	10.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-
53	Pratap Mughali 2																					
	(ICUG 92195)	2005	110.0	2.0	130.0	7.0	15.0	3.0	15.0	0.0	5.0	0.5	-	-	-	-	-	-	-	-	-	-
54	SG 99	2004	26.1	30.0	1.1	6.0	1.1	5.0	1.1	1.1	1.1	1.2	-	-	-	-	1.1	1.5	1.1	2.0	1.1	1.5
55	TG 38B	2006	65.0	70.0	80.0	80.0	100.0	100.0	90.0	120.0	90.1	100.0	67.0	67.0	236.0	150.0	336.0	340.0	37.5	40.0	2.0	2.0
56	TLG 45	2007	10.0	0.0	-	-	-	-	10.0	3.0	10.0	2.1	2.0	1.0	-	-	5.0	1.8	51.5	25.0	71.0	71.0
57	AK 265	2007	25.0	0.5	20.0	1.5	-	-	-	-	-	-	30.0	-	-	-	-	-	-	-	-	-
58	Gimar 2	2008	45.0	0.0	45.0	11.9	15.0	15.0	20.0	20.0	20.0	16.0	13.0	13.0	59.0	130.0	64.0	45.0	4.0	42.0	-	-
59	TMV (Gn) 13	2007	65.0	0.0	15.0	4.0	30.0	15.0	30.0	15.0	75.0	17.0	-	-	-	-	-	-	-	-	-	-
60	TG 39	2009	70.0	18.0	8.0	7.0	8.0	0.0	20.0	25.0	35.0	10.5	82.0	38.2	80.0	41.8	30.0	57.0	10.5	18.0	10.0	12.0
61	TG 51	2008	70.0	112.0	5.0	50.0	30.5	60.5	71.5	100.0	87.1	90.0	98.5	100.0	49.0	49.0	59.5	60.0	86.8	90.0	109.5	109.5

Table 12b contd.

[illegible]

Table 12b contd.

93	RajMongfali-2 (RG 578)	2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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= DAC Indent (q); P= Quantity Produced (q); **Source:** Department of Agricultural & Cooperation, Ministry of Agriculture & Farmers Welfare, GOI

14. Future strategies for enhancing production and productivity

There is significant improvement in the productivity of groundnut in India over the last five years and during 2019-20 reached a record production of more than 10 mt with productivity of 2065 kg/ha. However, as groundnut is cultivated under suboptimal conditions, it suffers nutrient deficiencies and are attacked by a gamut of pests and diseases (Singh et al. 2021). To improve the productivity of groundnut vis-à-vis production in India in the next five years, the yield gaps has to be brought from 40 % to about 15 %. This can be achieved in the next five years by addressing the followings:

- Improvement in SRR from 20 % at present to 50 %
- Effective management of irrigation water and protective irrigation coverage from 10% at present to 35% through micro-irrigation
- Ensuring availability of quality seed
- Development of high yielding varieties biofortified with essential nutrients and high oleic acid and tolerant to major biotic and abiotic stresses
- Development, popularization and adoption of matching agronomic and plant protection measures to maximize yield in all cropping system
- Therefore, the future researchable issues to enhance productivity and production of groundnut in India would be:
 - Pre-breeding for development of groundnut genotypes by introgressing resistance/tolerance to biotic (LLS, rust, stem and collar rot and PBND) and abiotic (drought, salinity and temperature) stresses and quality aspects (high Fe, Zn, oleic, oil >54%, etc.)
 - Breeding groundnut varieties for high yield (>3000 kg/ha for rainfed and >4000 kg/ha for irrigated) having multiple disease and insect pest resistance (stem and collar rot, foliar disease, defoliators, PBND, etc.), short duration with FSD and quality traits (high oleic, high Fe and Zn)
 - Plant nutrition, soil health and biofortification of Fe and Zn in groundnut through fertilizer, agronomic and microbial package
 - Management of abiotic stresses (drought, salinity and temperature) through agronomic, microbial, nutrient and water management practices.
 - Popularization of technologies having potential of yield more than 5000 kg/ha for improving farmer's income
 - Enhancing quality traits through value addition and fortification (reducing off flavour and anti-nutritional) in high protein and low oil confectionary groundnut for better health and enhancing export

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