

Improved Groundnut Varieties Recommended for Rajasthan and Uttar Pradesh


In Rajasthan and Uttar Pradesh, groundnut is mainly cultivated in the *kharif* season but in few pockets groundnut is cultivated in summer season also. Groundnut varieties are classified into different botanical groups according to their growth habit. Virginia runner varieties grow parallel to the soil surface therefore these varieties are known as 'spreading-type' and Virginia bunch varieties are known as 'semi-spreading type'. Spanish bunch varieties are erect types due to upright branches and so they are called 'bunch type'. In last two decades a total 22 and 12 varieties of groundnut of different habit group have been recommended for Rajasthan and Uttar Pradesh respectively for growing in *kharif* (rainy) and summer season.


Groundnut varieties recommended for Rajasthan is given below.

Virginia runner and bunch varieties suitable for <i>Kharif</i> /rainy season		Spanish bunch varieties suitable for <i>Kharif</i> /rainy and summer season	
Virginia runner (Spreading)	Virginia bunch (Semi-spreading)	<i>Kharif</i> /rainy season (Bunch type)	Summer season (Bunch type)
GG-14 (JSP-28) Utkarsh (CSMG-9510) Durga (RG-382) Divya (CSMG-2003-19) Raj Mungphali-1 (RG-510)	HNG-10 Prakash (CSMG-884) Manjra (LGN-2) GG-21 (JSSP-15) TBG-39 (TG-39) Girnar-2 (PBS-24030) Mallika	GG-7 (J-38) TG-37A Pratap Mungphali-1 (ICUG-92035) Pratap Mungphali-2 (ICUG-92195) JL-501	TG-37A Prutha (Dh-86)
(ICHG 00440), HNG-69, Raj Durga (RG-425), HNG-123, Raj Mungfali-3 (RG-559-3)			


Groundnut varieties recommended for Uttar Pradesh is given below.

GG-14 Utkarsh Divya	HNG-10, Prakash GG-21, Girnar-2 HNG-69, HNG-123 Mallika	TG-37A	TG-37A Prutha (Dh-86)
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	Variety	GG-14 (JSP-28)
	Year of release	2003
	Developed by	Junagadh Agricultural University, Junagadh
	Recommended area	Northern Rajasthan Uttar Pradesh, Punjab and Haryana
	Pod and kernel yield	2159 and 1403 kg/ha
	Oil content	52.0%
Days to maturity		123-125 days
Main character : Slight pod constriction, pink testa, high oil content; tolerant of thrips, <i>S. litura</i> and leaf miner		

	Variety	Utkarsh (CSMG-9510)
	Year of release	2005
	Developed by	Chandra Shekhar Azad University of Agriculture and Technology (CSAUA&T), Mainpuri
	Recommended area	Northern Rajasthan, Punjab and U.P.
	Pod and kernel yield	2192 and 1447 kg/ha
	Oil content	49%
	Days to maturity	125-130 days


Main character : Medium pod constriction, rose testa, having fresh seed dormancy (FSD) up to 40 - 45 days

	Variety	Durga (RG-382)
	Year of release	2005
	Developed by	Rajasthan Agricultural University, Durgapura
	Recommended area	Rajasthan
	Pod and kernel yield	2203 and 1410 kg/ha
	Oil content	50%
	Days to maturity	127-132 days


Main character : Two seeded pod, red rose testa, suitable for sandy and loamy soils, resistant to thrips, jassids and leaf miner


	Variety	Divya (CSMG-2003-19)
	Year of release	2011
	Developed by	Chandra Shekhar Azad University of Agriculture and Technology (CSAUA&T), Mainpuri
	Recommended area	Rajasthan and Uttar Pradesh
	Pod and kernel yield	2757 and 1792 kg/ha
	Oil content	49.0%
	Days to maturity	128-132 days


Main character : Medium pod constriction and prominent reticulation, rose testa, tolerant to PBND


	Variety	Raj Mungphali-1 (RG-510)
	Year of release	2012
	Developed by	Swami Keshwanand Rajasthan Agricultural University (SRAU), Durgapura
	Recommended area	Rajasthan and Punjab
	Pod and kernel yield	2558 and 1739 kg/ha
	Oil content	49.0%
	Days to maturity	130-138 days


Main cha. : Moderate constriction and reticulation, rose testa, bold seeded (76g/100 kernel), tolerant to collar rot, stem rot and leaf spot diseases


	Variety	HNG-10
	Year of release	1998
	Developed by	Rajasthan Agricultural University (RAU), Hanumangarh
	Recommended area	Rajasthan, Uttar Pradesh, Punjab and Haryana
	Pod and kernel yield	1918 and 1362 kg/ha
	Oil content	51.0%
Days to maturity		125-130 days
Main character : Medium, oblong kernels with tan colour testa, high shelling per cent (71%)		


	Variety	Prakash (CSMG-884)
	Year of release	1999
	Developed by	Chandra Shekhar Azad University of Agriculture and Technology (CSAUA&T), Mainpuri
	Recommended area	Rajasthan, Uttar Pradesh and Punjab
	Pod and kernel yield	2281 and 1528 kg/ha
	Oil content	49.0%
Days to maturity		115-125 days
Main character : Medium, oblong; pod beak prominent; kernels bold with light rose testa		


	Variety	Manjra (LGN-2)
	Year of release	2000
	Developed by	Marathwada Agricultural University (MAU), Latur
	Recommended area	Southern Rajasthan and Gujarat
	Pod and kernel yield	1750 and 1208 kg/ha
	Oil content	49.0%
Days to maturity		115-120 days
Main character : Suitable for early sown rainfed conditions		


	Variety	GG-21 (JSSP-15)
	Year of release	2005
	Developed by	Junagadh Agricultural University (JAU), Junagadh
	Recommended area	Northern Rajasthan, Uttar Pradesh and Punjab
	Pod and kernel yield	1843 and 1180 kg/ha
	Oil content	53.0%
Days to maturity		123-125 days
Main character : Two seeded pods, constriction and moderate reticulation; fleshy testa, and having high oil content		

	Variety	TBG-39 (TG-39)
	Year of release	2007
	Developed by	Rajasthan Agricultural University (RAU), Bikaner
	Recommended area	Rajasthan
	Pod and kernel yield	3154 and 2050 kg/ha
	Oil content	50.0%
	Days to maturity	118-120 days
Main character : Semi dwarf with large seeded (67g/100kernel)		


	Variety	Girnar-2 (PBS-24030)
	Year of release	2008
	Developed by	National Research Centre on Groundnut (NRCG), Junagadh
	Recommended area	Northern Rajasthan U. P. and Punjab
	Pod and kernel yield	2907 and 2006 kg/ha
	Oil content	51%
	Days to maturity	125-130 days
Main character : Slight pod constriction and moderate reticulation; rose testa, tolerant of rust, LLS, PSND and sucking pests; large seeded (62.0 g/100 kernel)		

	Variety	Mallika (ICHG 00440)
	Year of release	2009
	Developed by	Rajasthan Agricultural University (RAU), Hanumangarh
	Recommended area	All India
	Pod and kernel yield	2579 and 1754 kg/ha
	Oil content	48.0%
	Days to maturity	125-130 days
Main character : Large seeded (73g/100kernel), pod constriction and medium reticulation, tan testa, resistant to collar rot and PBND		


	Variety	HNG-69
	Year of release	2010
	Developed by	Rajasthan Agricultural University, Hanumangarh
	Recommended area	Northern Rajasthan, Uttar Pradesh and Punjab
	Pod and kernel yield	2800 and 1848 kg/ha
	Oil content	50%
	Days to maturity	130-134 days
Main character : Slight pod constriction and moderate reticulation, tan testa, tolerant to collar rot, stem rot and ELS		

	Variety	Raj Durga (RG-425)
	Year of release	2011
	Developed by	Rajasthan Agricultural University, Durgapura
	Recommended area	Rajasthan
	Pod and kernel yield	1788 and 1252 kg/ha
	Oil content	50%
	Days to maturity	128-130 days


Main character : Pod with moderate constriction, prominent reticulation, variegated testa, tolerant to collar rot

	Variety	HNG-123
	Year of release	2011
	Developed by	Rajasthan Agricultural University, Hanumangarh
	Recommended area	Rajasthan, Uttar Pradesh and Punjab
	Pod and kernel yield	2648 and 1774 kg/ha
	Oil content	49.0%
	Days to maturity	122-126 days


Main character : Pod with moderate constriction and reticulation; salmon testa, tolerant of *Spodoptera litura*

	Variety	Raj Mungfali-3 (RG 559-3)
	Year of release	2016
	Developed by	Rajasthan Agricultural Research Inst. (RARI), Durgapura, Sri Karan Narendra Agriculture Uni., Jobner
	Recommended area	Rajasthan, Uttar Pradesh and Punjab
	Pod and kernel yield	3173 and 2201 kg/ha
	Oil content	49%
	Days to maturity	125 days


Main character : Large seeded (HKW-69g), Shelling-69%, uniform kernels with smooth light pink testa, tolerance to collar rot

	Variety	GG-7 (J-38)
	Year of release	2001
	Developed by	Junagadh Agricultural University (JAU), Junagadh
	Recommended area	Gujarat and Southern Rajasthan
	Pod and kernel yield	2149 and 1633 kg/ha
	Oil content	49.0%
	Days to maturity	100-105


Main character : Uniform kernels with smooth pink testa, early maturity and tolerant to late leaf spot

	Variety	Pratap Mungphali-1 (ICUG-92035)
	Year of release	2005
	Developed by	Maharana Pratap University of Agriculture and Technology (MPUA&T), Udaipur
	Recommended area	Rajasthan
	Pod and kernel yield	2500-3000 and 1550-1860 kg/ha
	Oil content	49-51%
	Days to maturity	105-108 days


Main character : Rose testa, tolerant to *Spodoptera litura*, leaf miner and thrips, tolerance of ELS, LLS and PBND

	Variety	Pratap Mungphali-2 (ICUG-92195)
	Year of release	2005
	Developed by	Maharana Pratap University of Agriculture and Technology (MPUA&T), Udaipur
	Recommended area	Rajasthan
	Pod and kernel yield	1800-2800 and 1242-1932 kg/ha
	Oil content	48-50%
	Days to maturity	105 days


Main character : Pink testa, tolerance of ELS, LLS and PBND, tolerance of *Spodoptera litura*, leaf miner and thrips

	Variety	JL-501
	Year of release	2010
	Developed by	Mahatma Phule Krishi Vidyapeeth (MPKV), Jalgaon
	Recommended area	Southern Rajasthan and Gujarat
	Pod and kernel yield	1661 and 1105 kg/ha
	Oil content	48.0%
	Days to maturity	102-105 days

Main character : Medium pod, basal bearing, slight constriction and reticulation, light tan testa, early maturity

	Variety	TG-37A
	Year of release	2004
	Developed by	Bhabha Atomic Research Centre, (BARC) Trombay
	Recommended area	Rajasthan, Punjab, Gujarat, U.P., West Bangal, Odisha, Bihar & NEH states
	Pod and kernel yield	Kharif (2084 and 1382 kg/ha) Rabi-summer (2835 and 1903 kg/ha)
	Oil content	48.0%
	Days to maturity	110-115 days

Main character : Early maturity, suitable for rainfed condition, tolerant to collar rot

	Variety	Prutha (Dh-86)
	Year of release	2005
	Developed by	University of Agricultural Sciences (UAS), Dharwad
	Recommended area	Southern Rajasthan, Gujarat, Maharashtra, West Bengal & Odisha
	Pod and kernel yield	4022 and 2735 kg/ha
	Oil content	48.0%
	Days to maturity	115-120 days
Main character : Tan testa, semi-dwarf, high harvest index, tolerant to sucking pest and LLS		

Source: Rathnakumar AL, Ranvir Singh, Parmar DL and Misra JB (2013). Groundnut: a crop profile and compendium of notified varieties of India, Directorate of Groundnut Research, P.B.No.5, Junagadh-362 001, Gujarat, India. pp118.

Table 2: Source of seed availability of recommended varieties for Rajasthan & U.P.

Sr.	Name of variety	Address
1	Girmar-2 (PBS-24030)	Director, ICAR-Directorate of Groundnut Research, Ivnagar road, PB no.5, Junagadh-362001, Gujarat Phone: 2673382, 2672461, FAX:0285-2672550
2	GG-14, GG-21, GG-7 (J-38)	Nodal Officer (Mega Seed Project), Junagadh Agricultural University, Junagadh- 362 001 (Gujarat). Phone : (O) 0285-2675070, 2672080-90, PBX-449 & 450, FAX: 0285-2672004 Gujarat State Seeds Corporation Ltd. (GSSC) Beej Bhavan", Sector 10-A, Gandhinagar-382010, Gujarat. Phone: 079-23256690; Fax: 079 - 23256718
3	HNG-10, Mallika (ICHG 00440), HNG-69 HNG-123 TBG-39 (TG-39) Durga (RG-382) Raj Munghali-1 (RG-510) Raj Durga (RG-425) Raj Munghali-3 (RG 559-3) Pratap Munghali-1 (ICUG-92035) Pratap Munghali-2 (ICUG-92195)	Assoc. Director Research (Seeds), Swami Keshwanand Rajasthan Agricultural University Bikaner – 334 006. Phone: 0151-2251513, 22540150, Fax: 0151- 2250576, 2250336 Director, Rajasthan Agricultural Research Institute (RARI), Durgapura, Jaipur- 302 018, Sri Karan Narendra Agriculture University, Jobner. Phone: 0141-2550229 Associate Director (Seed and Farm), Maharana Pratap University of Agricultural & Technology, Udaipur – 313 001 Phone: 0294-2420154, Fax: 0294-2420154, 2420447 Rajasthan State Seeds Corporation Limited, 3 rd Floor Pant Krishi Bhawan, Janpath, Jaipur-302005, Rajasthan. Phone: 0141-2227514, 5117034, Fax: 0141-5105069, 2227147

Sr.	Name of variety	Address
4	Divya (CSMG-2003-19) Utkarsh (CSMG-9510) Prakash (CSMG-884)	Nodal Officer (NSP) Chandra Shekhar Azad University of Agriculture & Technology, Kanpur-208 002, Uttar Pradesh, Phone: 0512-2533925, 2294641 Fax: 0512-2533808 U.P. Seeds and Tarai Development Corporation Ltd., Pantnagar. P.O. Haldi, Distt.- Udham Singh Nagar- 263146, Uttarakhand. Phone: 05948-33595 , Fax: 05948-33830
5	JL-501 Manjra (LGN-2)	Oilseeds Research Station, Mahatma Phule Krishi Vidyapeeth (MPKV), Jalgaon – 425 001 (Maharashtra) Ph.:0257-2250888 Fax: 0257-2253228 Oilseeds Research Station, Latur Vasantrao Naik Marathwada Agricultural University (MAU), Phone: 02452-220899, Fax: 02452-220899 Maharashtra State Seeds Corporation Limited (MSSCL), Mahabeej Bhavan, Krishi Nagar, Akola – 444 104, Maharashtra. Phone: 0724 - 2455093, 2258480 Fax: 0724 - 2455187, 2455287
6	TG-37A	Nuclear Agriculture & Biotechnology Division, Bhabha Atomic Research Centre (BARC), Trombay- 400085, Mumbai. Phone: 022-25505157, 25595490 Fax: 022-25505151
7	Dh-86, TG-37A	Director of Seeds, University of Agricultural Sciences, Dharwad - 580 005, Phone: 0836-2441884, 2741598 Fax: 91-0836-2741598 Karnataka State Seeds Corporation Ltd. (KSSC) Beej Bhavan, Bellary Road, Hebbal, Bangalore – 560024, Phone: 080-23416953, 23411691, 23415652 Fax: 080 - 23415895

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