

Significant Achievements of Groundnut Breeding Section, RARS, Tirupati

Groundnut Varietal Development and Release

Groundnut varietal improvement programme was initiated at RARS, Tirupati from the year onwards with the inception of NARP. Since then, 16 different groundnut varieties were released from the centre for different purposes by SVRC/CVRC.

The list of different released varieties is as follows Tirupati - 1, Tirupati - 2, Tirupati - 3, Tirupati - 4, Narayani, Kalahasti, Abhaya, Prasuna, Greeshma, Bheema, Rohini, ICGV 00350, Dharani, Dheraj, Nithya Haritha and Pragathi.

Out of these varieties, the varieties Narayani and Dharani are popular and in seed chain besides the recently released varieties Dheeraj, Nithya haritha and Pragathi. The details of the varieties presently in seed chain are furnished below.

Variety	Duration	Pod yield (q/ha)		Shelling %	100 seed weight (g)	Oil content (%)	Special features
		Kharif	Rabi				
Narayani	100	20-25	40-45	76	40-45	49	Early maturity, drought tolerant.
Dharani	100-105	16-26	37-43	75-77	45	49	Drought tolerant, uniform maturity, high SMK %, tolerant to low light conditions.
Dheeraj	105-110	15-22	34-40	73-80	55-60	49	Water use efficient, suitable for irrigation conditions both in kharif and rabi seasons.
Nithya Haritha	110	25-27	40-45	70-75	50-55	50	Short statured Spanish bunch type
Varieties in pipeline							
TCGS 1694 (3 rd year of testing)	105-110	33-35	40-45	73-75	40-42	50	Short statured, WUE, LLS and Rust tolerant, drought tolerant, pink testa
TCGS 1416 (2 nd year of testing)	100-105	20-22	4-42	75	45	47	Drought tolerant, high WUE, rose testa, uniform maturity, tolerant to PBNB/PSND
TCGS 1416 (2 nd year of testing)	100-105	20-24	40-45	75-76	45-47	47	Drought tolerant, high WUE, white testa, uniform maturity

Breeder Seed Production

Production of quality seed is one of the core activities of crop improvement which includes production of nucleus, breeder and foundation seed in large quantities to meet the demands under central and state sectors.

The breeder seed indents for the variety Dharani (TCGS 1043) and Narayani (TCGS 29) account for 30-40% of the total indents of National Seed Corporation. The other indentors are Department of Agriculture and Co-operation, A.P. and other state departments including Orissa, Tamil Nadu, West Bengal etc. Large quantities of quality breeder seed is produced and supplied to various public and private sector seed agencies as per their indents.

DHARANI (TCGS 1043)



NARAYANI (TCGS 29)



DHEERAJ (TCGS 1073)



NITHYA HARITHA (TCGS 1157)



TCGS 1416



TCGS 1694

