

**Proceedings of the 85th Scientific Workers Conference held virtually
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2. PULSES

2.1. Black gram

1.1.1 Advisory of suitable Black gram varieties under different ecosystems in Tamil Nadu

Variety	Duration (days)	Season	Districts
VBN 6 (2011)	60-65	Adipattam (June - August)	Villupuram, Tiruvannamalai, Salem, Dindigul, Theni, Pudukottai.
VBN 8 (2016)	70-75	Purattasipattam (Sep- Oct.)	Thoothukudi, Tirunelveli, Tenkasi, Madurai, Dindigul, Theni, Tiruvannamalai, Villupuram, Pudukottai, Vellore, Sivagangai, Tiruvallur, Dharmapuri, Namakkal, Perambalur, Madurai, Salem, Karur, Ariyalur, Ramanathapuram & Coimbatore
		Chithirai pattam (April-May)	Suitable for Summer irrigated condition in Tiruvarur, Thanjavur, Cuddalore, Nagapattinam & Trichy
VBN 10 (2019)	70-75	Purattasipattam (Sep- Oct.)	Most suited for Rabi cultivation in North Eastern districts (Kancheepuram, Tiruvallur, Chengalpattu, Vellore, Tiruvannamalai, Villupuram, Kallakurichi).
VBN 11 (2020)		Purattasipattam (Sep- Oct.)	1. Recently released and reported to be performed well because of its more branches and ability to give second flesh of flowers. 2. Performance to be studied
		Chithirai pattam (April-May)	Tiruvarur, Thanjavur, Cuddalore, Nagapattinam & Trichy
CO 6	60-65	Sep sowing	Western Districts

(2010)			
CO 7 (2021)	65-70	Sep sowing	Western, North Western (Salem, Dharmapuri, Namakkal, Krishnagiri) region and Tirunelveli district
VBN 9 (2019)	70-75	Rice fallow (January)	Thanjavur, Nagapattinam, Cuddalore, Thiruvarur, Villupuram, Kancheepuram
ADT 6 (2017)	70-75	Rice fallow (January)	Suitable for Rice fallow cultivation in Thanjavur, Nagapattinam, Cuddalore, Thiruvarur, Villupuram, Kancheepuram & moderately tolerant to Yellow Mosaic Virus

2.1.2 Individual Issues to be followed in Blackgram:

a. VBN 6 (2011)

DoA to take action to grow this variety as intercrop in Sugarcane during early growth period.

b. VBN 8 (2016)

Synchronized maturity is not observed in Erode districts. Out of 1,076 Kg of Breeder seeds received, 50% alone has been utilized. TANSEDA should effectively utilize the balance breeder seeds and raise the Seed farm within the cropping season.

c. VBN 9 (2019)

TNAU supplied 210 Kg of Breeder seeds in 14 districts. Feedback on the performance of VBN 9 should be given. As VBN 9 black gram variety has been released by Central Seed Release Committee, Seed multiplication may be taken up if found suitable in Tamil Nadu. Performance of VBN 9 and its suitability to grow in rice fallow condition may be discussed in the next meeting.

d. CO 7 (2021)

TNAU & DOA should take steps for early notification of this newly released variety CO 7 for bringing into the Seed chain.

e. ADT 6 (2017)

TNAU supplied 400 Kg of Breeder seeds and seed farms have been raised in Miralur and Vandurayanpattu SSFs. Feedback on the performance of ADT 6 should be studied and informed.

f. KKM 1 (2017): This variety is suitable for Thoothukudi district under rainfed situation. Therefore indent of KKM 1 blackgram may be placed for Thoothukudi District alone

g. Blackgram in general

- To have a clear vision on focused pulses varieties, TNAU should map Blackgram varieties for region / district and season wise recommendation should be communicated after having consultation with Department Officials.
- As the VBN 9 and VBN 10 black gram varieties have already been approved by the CVRC, the Director of Research should bring a list of crop varieties which are recommended by CVRC and suitable for Tamil Nadu for discussion in SVRC for promotion among farmers.

2.2. Green gram

2.2.1 Advisory of suitable Green gram varieties under different ecosystems in Tamil Nadu

Variety	Duration (days)	Season	Districts
CO 7 (2005)	55-60	Adipattam (June - August)	Coimbatore, Erode, Salem
		Sep	Southern districts
CO 8 (2013)	55-60	Summer	Salem & Namakkal (Cultivation should be managed with prophylactic measures)

VBN 4 (2019)	70-75	Sep and Dec (Rabi Season)	All Districts
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2.3. Red gram

2.3.1 Advisory on suitable Red gram varieties under different ecosystems in Tamil Nadu

Variety	Duration (days)	Season	Districts
Co (Rg) 7 (2004)	120-130	Margazhipattam (Winter irrigated)	Karur, Madurai, Erode, Coimbatore, Tirunelveli, Theni, Dindigul & Salem
		Chithirai pattam (Summer irrigated)	
		Puratasi Pattam (Sep-Oct)	
CO 8 (2017) (6 months duration)	180	Vaigasi pattam (May- June)	Vellore, Krishanagiri, Dharmapuri, Salem, Erode & Theni
		Adipattam (June - August)	Thiruvannamalai Karur, Namakkal, Salem & Ariyalur,
VBN 3 (2005) (Short Duration)	100-105	Puratasi Pattam (Sep-Oct)	Karur, Madurai, Salem, Erode, Coimbatore, Tirunelveli, Theni, Dindigul, Pudukottai districts
		Margazhipattam (Winter irrigated)	
		Chithirai pattam (Summer irrigated)	

a. CO 8 (2017)

CO-8 Redgram is reported to be performing well with moderate resistance to pest and diseases and hence, necessary action plan should be taken for increasing the area under this variety CO 8, for increasing the Redgram production in Tamil Nadu. TNAU should give district wise

advisory on suitability of Redgram variety & management practices for augmenting the redgram production in Tamil Nadu.

Specific Instruction to monitor the new cultures evolved by TNAU:

District JDAs, DDAs and ADAs should give their personal attention to monitor the performance of newly released cultivars in Adaptive Research Trial plots. The field level performance of those cultures should be closely monitored by extension officials and scientists from local research stations and KVK. DOA & DHPC should issue suitable instructions to all districts. TNAU should communicate the list of new cultures sent to districts to DOA, with all necessary information. The crop sections concerned in the offices of DOA and DHPC should personally monitor the laying of ART plots from sowing to harvesting and Complete database should be maintained about the outcome of ART.