Short Communication



A pentafoliate groundnut (Arachis hypogaea L.) culture, TCGS-635

R. P. Vasanthi

Regional Agricultural Research Station, Tirupati 517 502

(Received: June 2002; Revised: March 2003; Accepted: May 2003)

Paripinnate leaves with two pairs of leaflets is the usual condition in groundnut (*Arachis hypogaea* L.). Though rare, variations in number and arrangement of leaflets were reported earlier (1, 2 and 3). Short mutants with reduced leaflet size and imparipinnate leaf and three paired leaflet arrangement that resulted from irradiation and wide hybridization were reported earlier (1&2). A variant with imparipinnate and normal leaflet size was isolated from one of the F_3 progenies of the cross TG-16/TG-17 by Mouli and Kale (3) in which both parents had paripinnate leaves.

In present study, a single plant selection in F₃ generation of the cross combination, Tirupati1/ ICGV-86398 had five leaflets per leaf. It bred true in succeeding generations. It was given Tirupati Centre Groundnut Selection number, TCGS-635. The female parent, Tirupati-1 is a high yielding drought tolerant cultivar with four leaflets per leaf. It belongs to Arachis hypogaea sub sp. fastigiata var. vulgaris. It has narrow leaflets that are moderately long. The male parent, ICGV-86398 also possesses four leaflets per leaf. It belongs to Arachis hypogae sub sp. hypogaea var. hypogaea and is resistant to jassids. Its leaflets were of moderate size. The variant, TCGS-635 has five narrow and small leaflets. The fifth leaflet is the apical one and is slightly smaller than the other four leaflets. The leaves with five leaflets occur in frequency of 33 to 40%. In the mutants/variants isolated by Mouli and Kale [3] and Patil [1] they were in frequency of 12% and 45% respectively.

The variant, TCGS-635 flowered in 27 days, came to full bloom in 33 days after sowing and matured in 95 days in *kharif* and in 100 days in *rabi* conditions. It is an erect bunch and has thin stems with sparsely hairy leaflets. It has field tolerance to *Spodoptera* sp. (when JL-24, a susceptible variety had 63% damaged leaflets TCGS-635 had only 43% damaged leaflets during 1997-98 *rabi* season) and bud necrosis diesase (while the susceptible variety JL-24 had 24% affected plants TCGS-635 had only 5.6% affected plants). It gave an average pod yield of 2568 kg/ha⁻² in *rabi* in

Growth habit:ErectBranching pattern:SequentialHeight of main stem:52(cm).Stem pigmentation:AbsentStem surface:Sub-glabrousType of Inflorescence:CompoundStandard petal colour:Yellow-orangeColour of standard:Dark-orangepetal markings.Peg pigmentationPeg pigmentation:AbsentLeaflet colour:GreenLeaflet length (cm):2.6 (mean from 5 leaves)Leaflet width (cm):2.5 (mean from 5 leaves)Apical leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm):1.89Leaflet surface:Almost glabrous aboveNumber of seeds per:2-1podPod beak:SlightPod constriction:SlightPod length (mm):24.2 (mean of 10 pods)Pod length (mm):24.2 (mean of 10 pods)Pod length:11.8 mm (mean of 10 seeds)Seed colour:NilSeed length:3.3Bays to some from siture conditions)Days to 50% floweringSade dormancy::Seed dormancy::Yield:1135kg/ha in kharifCollar rot::Yield::Shelling percentage:''ield: <td< th=""><th colspan="8">IBPGR-ICRISAT descriptors</th></td<>	IBPGR-ICRISAT descriptors							
Height of main stem:52(cm)Stem pigmentation:AbsentStem surface:Sub-glabrousType of Inflorescence:CompoundStandard petal colour:Yellow-orangeColour of standard:Dark-orangepetal markings:AbsentPeg pigmentation:AbsentLeaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(fifth leaflet) (cm):1.89Leaflet shape:ObovateLeaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod teticulation:SlightPod teticulation:SlightPod ength (mm):24.2 (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:3.3Days to emergence:5 (optimuun moisture conditions)Days to s0% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy::95% germination immediatelySheling percentage::1135kg/	Growth habit	:	Erect					
(cm)Xem pigmentation: AbsentStem surface: Sub-glabrousType of Inflorescence: CompoundStandard petal colour: Yellow-orangeColour of standard: Dark-orangepetal markings: Dark-orangePeg pigmentation: AbsentLeaf colour: GreenLeaflet length (cm): 4.9 (mean from 5 leaves)Leaflet length (cm): 2.6 (mean from 5 leaves)Apical leaflet length: 3.8 (mean from 5 leaves)Apical leaflet vidth: 2.5 (mean from 5 leaves)(fifth leaflet) (cm): 1.89Leaflet shape: ObovateLeaflet surface: Almost glabrous aboveNumber of seeds per: 2-1pod:Pod beak: SlightPod constriction: SlightPod reticulation: SlightPod reticulation: SlightPod vidth (mm): 24.2 (mean of 10 pods)Pod width (mm): 24.2 (mean of 10 pods)Seed colour: NilSeed length: 11.8 mm (mean of 10 seeds)Seed length: 11.8 mm (mean of 10 seeds)Seed width: 8.06 mm (mean of 10 seeds)Days to emergence: 5 (optimum moisture conditions)Days to 50% flowering: 33Days to maturity: 100Fresh seed dormancy: 95% germination immediately after harvestSeed dormancy: 95% germination immediatelyShelling percentage: 70Yield: 1135kg/ha in <i>kharif</i> Collar rot: Moderately to	Branching pattern	:	Sequential					
Stem pigmentation:AbsentStem surface:Sub-glabrousType of Inflorescence:CompoundStandard petal colour:Yellow-orangeColour of standard:Dark-orangepetal markings:Dark-orangePeg pigmentation:AbsentLeaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet length (cm):2.6 (mean from 5 leaves)Leaflet length (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(Fifth leaflet) (cm):1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod beak:SlightPod reticulation:SlightPod reticulation:SlightPod reticulation:SlightPod reticulation:NilSeed colour:NilSeed colour:NilSeed length:11.8 mm (mean of 10 pods)Seed width::3.3Days to emergence::::::::::::::::::::::::::::: </td <td>Height of main stem</td> <td>:</td> <td>52</td>	Height of main stem	:	52					
Stem surface:Sub-glabrousType of Inflorescence:CompoundStandard petal colour:Yellow-orangeColour of standard:Dark-orangepetal markings:Dark-orangepetal markings:AbsentLeaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(Fifth leaflet) (cm):1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod beak:SlightPod beak:SlightPod reticulation:10.3 mm (mean of 10 pods)Pod width (rmm):11.8 mm (mean of 10 seeds)Seed colour:NilSeed length:3.3Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to soft flowering:33Days to maturity:100Fresh seed dormancy:Sermination immediately after harvestSeed dormancy::95% germination immediatelyYield::1135kg/ha in <i>kharif</i>	(cm)							
Type of Inflorescence:CompoundStandard petal colour:Yellow-orangeColour of standard:Dark-orangepetal markings:AbsentLeaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet length (cm):2.6 (mean from 5 leaves)Leaflet width (cm):2.5 (mean from 5 leaves)Apical leaflet width:2.5 (mean from 5 leaves)(Fifth leaflet) (cm):1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod constriction:SlightPod constriction:SlightPod reticulation:10.3 mm (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 seeds)Seed colour:NilSeed length:100Fresh seed dormancy:5 (optimum moisture conditions)Days to emergence:5 (optimum moisture conditions)Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in	Stem pigmentation	:	Absent					
Standard petal colour:Yellow-orangeColour of standard:Dark-orangepetal markings:AbsentLeaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Leaflet width (cm):2.5 (mean from 5 leaves)Apical leaflet width:2.5 (mean from 5 leaves)(Fifth leaflet) (cm):1.89Leaflet width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod constriction:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:1.18 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to soft flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in	Stem surface	:	Sub-glabrous					
Colour of standard petal markingsDark-orangePeg pigmentation:AbsentLeaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)Apical leaflet width:2.5 (mean from 5 leaves)(Fifth leaflet) (cm).Leaflet shaflet) (cm).Leaflet shape:ObovateLeaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod.Pod beak:SlightPod constriction:SlightPod reticulation:SlightPod reticulation:SlightPod vidth (mm):10.3 mm (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:NilSeed length:3.3Seed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Seed width:3.3Days to emergence:5 (optimum moisture conditions)Days to soly flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg	Type of Inflorescence	:	Compound					
petal markingsPeg pigmentation:AbsentLeaf colour:GreenLeaflet length (cm):2.6 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(Fifth leaflet) (cm):2.5 (mean from 5 leaves)Leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm):1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:.Pod beak:SlightPod constriction:SlightPod reticulation:SlightPod reticulation:SlightPod reticulation:0.9 colourprimary seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 peds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in	Standard petal colour	:	Yellow-orange					
Peg pigmentation:AbsentLeaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(Fifth leaflet) (cm).Apical leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm).Length/width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod.Pod beak:SlightPod constriction:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in	Colour of standard	:	Dark-orange					
Leaf colour:GreenLeaflet length (cm):4.9 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(Fifth leaflet) (cm):.Apical leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm):.Length/width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:.Pod beak:SlightPod constriction:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in	petal markings							
Leaflet length (cm):4.9 (mean from 5 leaves)Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(Fifth leaflet) (cm):.Apical leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm):1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod beak:SlightPod constriction:SlightPod reticulation:SlightPod reticulation:0ne colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 pods)Seed width:3.3 (mean of 10 seeds)Seed length:11.8 mm (mean of 10 seeds)Seed dormancy::Days to emergence::Days to maturity:100Fresh seed dormancy::Seed dormancy::Seed dormancy::Shelling percentage::Yield:1135kg/ha in <i>kharif</i> Collar rot::	Peg pigmentation	:	Absent					
Leaflet width (cm):2.6 (mean from 5 leaves)Apical leaflet length:3.8 (mean from 5 leaves)(Fifth leaflet) (cm):Apical leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm):Length/width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in	Leaf colour	:	Green					
Apical leaflet length (Fifth leaflet) (cm)3.8 (mean from 5 leaves)Apical leaflet width (cm)2.5 (mean from 5 leaves)Length/width ratio1.89Leaflet shapeObovateLeaflet surfaceAlmost glabrous aboveNumber of seeds per pod2-1Pod beakSlightPod constrictionSlightPod length (mm)24.2 (mean of 10 pods)Pod width (mm)10.3 mm (mean of 10 pods)Seed colourNilSeed length11.8 mm (mean of 10 seeds)Seed width8.06 mm (mean of 10 seeds)Days to emergence5 (optimum moisture conditions)Days to 50% flowering rest seed dormancy33Days to maturity100Fresh seed dormancy95% germination immediately after harvestSeed dormancy95% germination immediatelyShelling percentage70Yield1135kg/ha in kharifCollar rotKoderately tolerant (incidence in	Leaflet length (cm)	:						
(Fifth leaflet) (cm)Apical leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm)Length/width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod.Pod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in	Leaflet width (cm)		2.6 (mean from 5 leaves)					
Apical leaflet width:2.5 (mean from 5 leaves)(fifth leaflet) (cm)Length/width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1podPod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in		:	3.8 (mean from 5 leaves)					
(fifth leaflet) (cm)Length/width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1podPod beak:SlightPod constriction:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:95% germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in								
Length/width ratio:1.89Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod:SlightPod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:33Days to emergence:5 (optimum moisture conditions)Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in		:	2.5 (mean from 5 leaves)					
Leaflet shape:ObovateLeaflet surface:Almost glabrous aboveNumber of seeds per:2-1podPod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width::Seed width::Days to emergence::Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy::Seed dormancy::Shelling percentage::Yield:1135kg/ha in kharifCollar rot::								
Leaflet surface:Almost glabrous aboveNumber of seeds per:2-1pod.Pod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width::Seed width::Days to emergence::Days to 50% flowering::Days to maturity:100Fresh seed dormancy::Seed dormancy<		:	1.89					
Number of seeds per pod:2-1Pod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width::Seed width::0 ays to emergence::0 ays to 50% flowering::0 ays to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:	Obovate					
podPod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:RoseSecondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in <i>kharif</i> Collar rot:Moderately tolerant (incidence in		:	-					
Pod beak:SlightPod constriction:SlightPod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:RoseSecondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in	-	:	2-1					
Pod constrictionSlightPod constrictionSlightPod reticulationSlightPod length (mm)24.2 (mean of 10 pods)Pod width (mm)10.3 mm (mean of 10 pods)Seed colourOne colourprimary seed colourRoseSecondary seed colourNilSeed length11.8 mm (mean of 10 seeds)Seed width8.06 mm (mean of 10 seeds)Days to emergence5 (optimum moisture conditions)Days to 50% flowering33Days to maturity100Fresh seed dormancyGermination immediately after harvestSeed dormancy95% germination immediatelyShelling percentage70Yield1135kg/ha in kharifCollar rotKoderately tolerant (incidence in	•							
Pod reticulation:SlightPod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:RoseSecondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:						
Pod length (mm):24.2 (mean of 10 pods)Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:RoseSecondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:						
Pod width (mm):10.3 mm (mean of 10 pods)Seed colour:One colourprimary seed colour:RoseSecondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:						
Seed colour:One colourprimary seed colour:RoseSecondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in								
primary seed colour:RoseSecondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:						
Secondary seed colour:NilSeed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:						
Seed length:11.8 mm (mean of 10 seeds)Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:						
Seed width:8.06 mm (mean of 10 seeds)Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		:						
Days to emergence:5 (optimum moisture conditions)Days to 50% flowering:33Days to maturity:100Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in	-	:						
Days to 50% flowering: 33Days to maturity: 100Fresh seed dormancy: Germination immediately after harvestSeed dormancy: 95% germination immediatelyShelling percentage: 70Yield: 1135kg/ha in kharifCollar rot: Moderately tolerant (incidence in		:						
Days to maturity: 100Fresh seed dormancy: Germination immediately after harvestSeed dormancy: 95% germination immediatelyShelling percentage: 70Yield: 1135kg/ha in kharifCollar rot: Moderately tolerant (incidence in		:						
Fresh seed dormancy:Germination immediately after harvestSeed dormancy:95% germination immediatelyShelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in		•						
harvestSeed dormancy95% germination immediatelyShelling percentage70Yield1135kg/ha in kharifCollar rotModerately tolerant (incidence in	-	:						
Seed dormancy: 95% germination immediatelyShelling percentage: 70Yield: 1135kg/ha in kharifCollar rot: Moderately tolerant (incidence in	Fresh seed dormancy	:	•					
Shelling percentage:70Yield:1135kg/ha in kharifCollar rot:Moderately tolerant (incidence in								
Yield: 1135kg/ha in kharifCollar rot: Moderately tolerant (incidence in	•	:	•					
Collar rot : Moderately tolerant (incidence in		:						
		:	-					
TCGS-635 –15% and JL-24.31%)	Collar rot	:						
Spodoptera sp. : Moderately tolerant (as per text.)	Spodoptera sp.	:	Moderately tolerant (as per text.)					

Table 1.	Morphological	atributes	of	TCGS-635	as	per
	IBPGR-ICRISAT					

R.P. Vasanthi

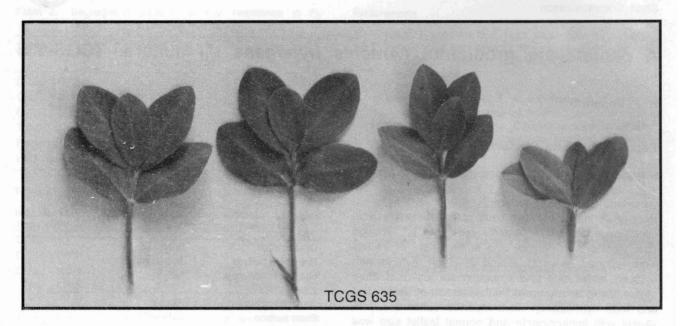


Fig. 1. Pentafoliate leaves of TCGS-635

experimental farm of Regional Agricultural Research Station, Tirupati. The detailed morphological features of the culture are presented in Table 1 as per the IBPGR-ICRISAT descriptors. Pods are mostly two-seeded with slight beak, slight constriction and slight reticulation. Its 100-pod mass is 55g. 100-seed mass is 33g. Testa is light-rose in colour.

References

1. **Patil S. H.** 1966. Mutations induced in groundnut by X-rays. Indian J. Genet., **26A**: 334-348.

- Ashri A. 1970. Inheritance of small leaflets in a wide cross in peanuts (*Arachis hypogaea*) Oleagineux, 25: 153-154.
- Mouli C. and Kale D.M. 1981. Imparipinnate leaf with normal size leaflets in groundnut. Current Science, 50: 684-685.
- International Board for Plant Genetic Resources and International Crops Research Institute for the Semi-Arid Tropics. 1992. Descriptors for groundnut, IBPGR, Rome and ICRISAT, Patancheru, A.P., India.