

Table 6. List of descriptors for pigeonpea

Descriptor number	Descriptor name	Descriptor state	Recording stage	Remarks	Previous descriptor state*
1	Accession number				
2	Growth habit	1 Erect and compact	Pod set stage		
		2 Semi-spreading			
		3 Spreading			
		4 Trailing			
3	Leaf color	1 Light green	Flowering stage		
		2 Green			
		3 Dark green			
	Leaf size	area of middle leaflet on a secondary branch (cm ²)		Trait deleted	
4	Leaflet length	Length of the middle leaflet	Flowering stage	New trait added	
5	Leaflet width	Width of the middle leaflet	Flowering stage	New trait added	
6	Vigour at 50% flowering	3 Low	At 50% flowering		
		5 Medium			
		7 High			
7	Days to 50% flowering	From sowing to 50% of plants flowering	Flowering stage		
8	Primary branches	Number of primary branches per plant	At maturity		
9	Secondary branches	Number of secondary branches per plant	At maturity		
10	Tertiary branches	Number of tertiary branches per plant	At maturity		
11	Base flower colour (refer RHS colour codes)	1 Ivory (green-yellow group 1)	Flowering stage		
		2 Light yellow (yellow group 6D)			
		3 Yellow (yellow-orange group 14A)			
		4 Orange-yellow (orange-red group 31A)			
12	Flower streak color (refer RHS color codes)	1 Red (red group 45A)	Flowering stage		
		2 Purple (greyed -purple group 186A)			
13	Pattern of streaks	3 Sparse amount streaks	Flowering stage		
		5 Medium amount of streaks			
		7 Dense streaks			
		9 Uniform coverage of streaks			
14	Flowering pattern	1 Determinate	Flowering stage		
		2 Semi-determinate			
		3 Indeterminate			
15	Stem colour (refer RHS color codes)	1 Green (yellow-green group 144B)	Pod set stage		
		2 Sun red (greyed-red group 178 B)			
		3 Purple (greyed-purple group 183A)			
		4 Dark purple (greyed-purple group 187A)			

Descriptor number	Descriptor name	Descriptor state	Recording stage	Remarks	Previous descriptor state*
16	Leaflet shape (see fig.)	1 Lanceolate	Flowering stage		
		2 Narrow-elliptic			
		3 Broad elliptic			
		4 Obcordate			
17	Leaf hairiness (lower surface)	1 Glabrous	Flowering stage		
		2 Pubescent			
18	Pod hairiness	1 Sparse	Pod set stage		
		2 Medium			
		3 Dense			
19	Pod colour	1 Green (yellow-green group 144A)	Pod set stage		
		2 Purple (greyed-purple group 183A)			
		3 Mixed, green and purple			
		4 Dark purple (greyed-purple group 187A)			
20	Pod length	Length of pod (cm)	At maturity		
21	Pod number	Number of pods per plant	At maturity		
22	Seeds per pod	Average number of seeds in 10 randomly selected pods	At maturity		
23	Pod form	1 Flat	Late pod set stage		
		2 Cylindrical			
24	Plant height	Ground to tallest canopy point	At maturity		
25	Days to 75% maturity	Days to 75% pods matured	At maturity		
26	Pod bearing length	Distance between lowest and topmost pod in cm.	At maturity		
27	Stem thickness (thickest point)	3 Thin (<5mm)	At harvest		
		5 Intermediate (5-13mm)			
		7 Thick (>13mm)			
28	Raceme number	Count of total racemes	At harvest		
29	Seed color pattern (see fig.)	1 Plain	Post-harvest		
		2 Mottled			
		3 Speckled			
		4 Mottled and speckled			
		5 Ringed			
30	Base seed colour	1 White (yellow-white group 158C)	Post-harvest		
		2 Cream (greyed-white group 156C)			
		3 Orange (greyed-orange group 163B)			
		4 Light brown (yellow-orange group 22C)			
		5 Reddish-brown (reddish-brown group 200D)			
		6 Light grey (grey-brown group 199B)			
		7 Grey (greyed-green group 197A)			
		8 Purple (greyed-purple group 187A)			

Descriptor number	Descriptor name	Descriptor state	Recording stage	Remarks	Previous descriptor state*
		9 Dark purple (black group 202A)			
		10 Dark grey (black group 202B)			
31	Secondary seed colour	Colours and codes as for "Base seed colour"	Post-harvest		
32	Seed eye colour	Colour around hilum, coded as for "Base seed colour"	Post-harvest		
33	Seed eye width	3 Narrow	Post-harvest		
		5 Medium			
		7 Wide			
34	Seed shape (see fig.)	1 Oval (egg shaped)	Post-harvest		
		2 Globular (pea seed shaped)			
		3 Square (angular)			
		4 Elongate			
35	Hilum	0 = Absent	Post-harvest		
		+ = Present			
36	100-seed weight	Weight of air dried (10% moisture) seeds in grams	Post-harvest		
37	Seed yield per plant	Average seed yield of 3 randomly selected plants in grams	Post-harvest		
38	Shelling percentage (%)	Seed- pod ratio of 3 randomly selected plants	Post-harvest		
39	Harvest index (%)	Ratio of total seed yield and total biological yield taken from 3 randomly selected plants	Post-harvest		
40	Seed protein content	Protein content of seed (%)	Post-harvest		
41	Stress-Low temperature	Score on 1-9 scale, where		Modified previous descriptor state*	Susceptibility scored on 1-9 scale, where
		1 Highly tolerant			1 Very low susceptibility
		3 Tolerant			3 Low
		5 Moderately tolerant			5 Intermediate
		7 Susceptible			7 High
		9 Extremely susceptible			9 Very high
42	Stress-High temperature	Susceptibility scored on 1-9 scale as for 'Low temperature'			
43	Stress-Drought	Susceptibility scored on 1-9 scale as for 'Low temperature'			
44	Stress-Soil salinity	Susceptibility scored on 1-9 scale as for 'Low temperature'			
45	Stress-Soil acidity	Susceptibility scored on 1-9 scale as for 'Low temperature'			
46	Insect-Leaf tier (<i>Grapholita critica</i>)	Score on 1-9 scale, where		Modified previous descriptor state*	Susceptibility scored on 1-9 scale, where
		1 Highly resistant			1 Very low susceptibility

Descriptor number	Descriptor name	Descriptor state	Recording stage	Remarks	Previous descriptor state*
		3 Resistant			3 Low
		5 Moderately resistant			5 Intermediate
		7 Susceptible			7 High
		9 Highly susceptible			9 Very high
47	Insect-Pod borer (<i>Helicoverpa armigera</i> , <i>Etiella zinckenella</i> , <i>Maruca testulalis</i>)	Susceptibility scored on 1-9 scale as for 'Leaf tier'			
48	Insect-Pod fly (<i>Melanagromyza btusa</i>)	Susceptibility scored on 1-9 scale as for 'Leaf tier'			
49	Insect-Pod wasp (<i>Tanaostigmodes cajaninae</i>)	Susceptibility scored on 1-9 scale as for 'Leaf tier'			
50	Disease-Phytophthora blight (<i>Phytophthora drechsleri</i> f.sp. <i>cajani</i>)	Susceptibility scored on 1-9 scale as for 'Leaf tier'			
51	Disease-Alternaria blight (<i>Alternaria alternata</i>)	Susceptibility scored on 1-9 scale as for 'Leaf tier'			
52	Disease-Fusarium wilt (<i>Fusarium oxysporum</i> f.sp. <i>udum</i>)	Susceptibility scored on 1-9 scale as for 'Leaf tier'			
53	Virus-Sterility mosaic	Susceptibility scored on 1-9 scale as for 'Leaf tier'			
54	Nematodes (<i>Heterodera cajani</i> , <i>Meloidogyne incognita</i> , <i>Rotylenchus reniformis</i>)	Susceptibility scored on 1-9 scale as for 'Leaf tier'			