

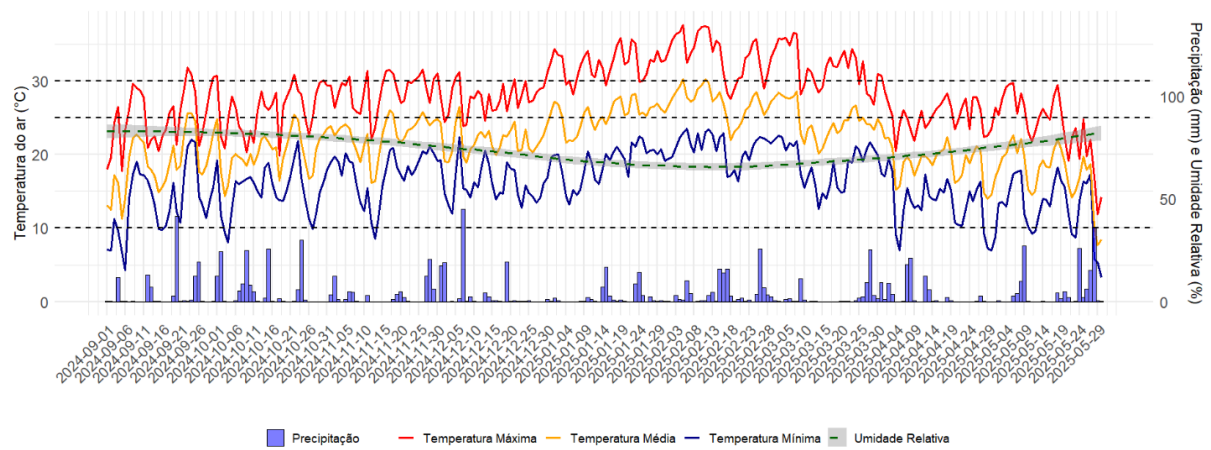
Table 1. Frequency analysis of qualitative characteristics evaluated in pigeon peas.

Variable	Classes (%)							
	1	2	3	4	5	6	7	8
D10_FLO_PATT	31.154	0.385	68.46 2					
D11_FLO_COL			64.113	31.04 8	0.403	2.41 9	2.016	
D12_FLORAL_STRIAT	22.984	77.016						
D13_NUMBER_FLO_STRIAT			70.56 5		27.823		1.613	
D16_LEG_SHAPE	100							
D17_LEG_COL	1.333	80.889	17.77 8					
D18_INTE_PUB			60.44 4		20.444		19.11 1	
D1_HABIT	51.923		46.53 8		1.538			
D20_LEG_COL_HARV			25.86 2	74.13 8				
D21_LEG_SEED		100						
D22_1_SEED_COL					0.571	26.2 86	73.14 3	
D23_2_SEED_COL						70.6 90	29.31 0	
D25_HALO_COL								100
D2_PH	79.231	20.769						
D3_NPB			90.76 9		9.231			
D4_NSB	100							
D5_STEM_DIAMETER			18.84 6		80.000		1.154	
D6_STEM_COLOR	100							
D7_LEAF_SHAPE	75.769	24.231						

FLO\_PATT: Flowering pattern. FLO\_COL: Flower color. FLORAL\_STRIAT: Presence of floral striations; NUMBER\_FLO\_STRIAT: Number of striations in the flower; LEG\_SHAPE: Legume shape; LEG\_COL: Legume color; INTE\_PUB: Intensity of leaf pubescence; HABIT: Growth habit; LEG\_COL\_HARV: Legume color at harvest; LEG\_SEED: Legume shape; 1\_SEED\_COL: Primary seed color; 2\_SEED\_COL: Secondary seed color; HALO\_COL: Halo color; PH: Plant height; NPB: Number of primary branches; NSB: Number of secondary branches; STEM\_DIAMETER: Stem diameter; STEM\_COLOR: Stem color; LEAF\_SHAPE: Leaflet shape.

Table 2. Groups formed in the genetic dissimilarity dendrogram

Groups	Genotypes
I	POP2_17
II	F3L21, F3L256, F3L254, F3L255, POP2_18
III	F3L59, F3L157, F3L164, F3L160, F3L158, F3L163, F3L162, F3L149, F3L27, F3L165, F3L153, F3L154, F3L155, F3L179, F3L178, F3L177, F3L175, F3L201, F3L196, IAPAR 43, F3L199, F3L198, F3L206, F3L217, F3L232, F3L212, F3L47, F3L43, F3L52, F3L41, F3L112, F3L106, F3L99, F3L90, F3L3, F3L1, F3L17, F3L176, F3L94, F3L91, F3L95, F3L92, F3L98, F3L97, F3L117, F3L216, F3L247, F3L247, F3L244, F3L225, F3L195, F3L220 and F3L219
IV	POPF2, 16, POPF2_15, F3L168, F3L172, F3L57, F3L59, F3L35, F3L78, F3L82, F3L22, F3L18, F3L19, F3L20, F3L171, F3L180, F3L189, F3L197, F3L8, F3L16, F3L11, F3L14, F3L10, F3L190, F3L12, F3L15, F3L2, F3L9, F3L4, F3L6, F3L7
V	F3L146, F3L137, F3L119, F3L145, F3L80, F3L134, F3L111, F3L136, F3L184, F3L182, F3L174, F3L183, F3L15, F3L166, F3L167, F3L128, F3L116, F3L144, F3L118, F3L100, F3L103, F3L130, F3L115, F3L125, F3L129, F3L122, F3L96, F3L113, F3L140, F3L124, F3L108, F3L109, F3L110, F3L138, F3L141, F3L107, F3L120, F3L121
VI	F3L147, F3L156, F3L193, F3L193, F3L169, F3L170, F3L186, F3L210, F3L205, F3L203, F3L204, F3L23, F3L24, F3L25, F3L26, F3L86, F3L87, F3L28, F3L29, F3L88, F3L89, F3L126, F3L161, F3L132, F3L101, F3L102, F3L143, F3L133, F3L139, F3L114, F3L123, F3L131, F3L135, F3L104, F3L127, F3L34, F3L32, F3L33, F3L48, F3L31, F3L37, F3L53, F3L49, F3L69, F3L66, F3L68, F3L46, F3L75, F3L77, F3L76, F3L79, F3L81, F3L36, F3L85, F3L71, F3L83, F3L84, F3L40, F3L44, F3L45, F3L50, F3L60, F3L61, F3L62, F3L30, F3L38, F3L70, F3L65, F3L67, F3L74, F3L72, F3L73, F3L54, F3L51, F3L63, F3L56, F3L55 and F3L58



**Figure 1.** Meteorological data for mean, maximum and minimum air temperature (in °C), precipitation (in mm) and relative air humidity (in %) for the pigeon pea growing cycle.

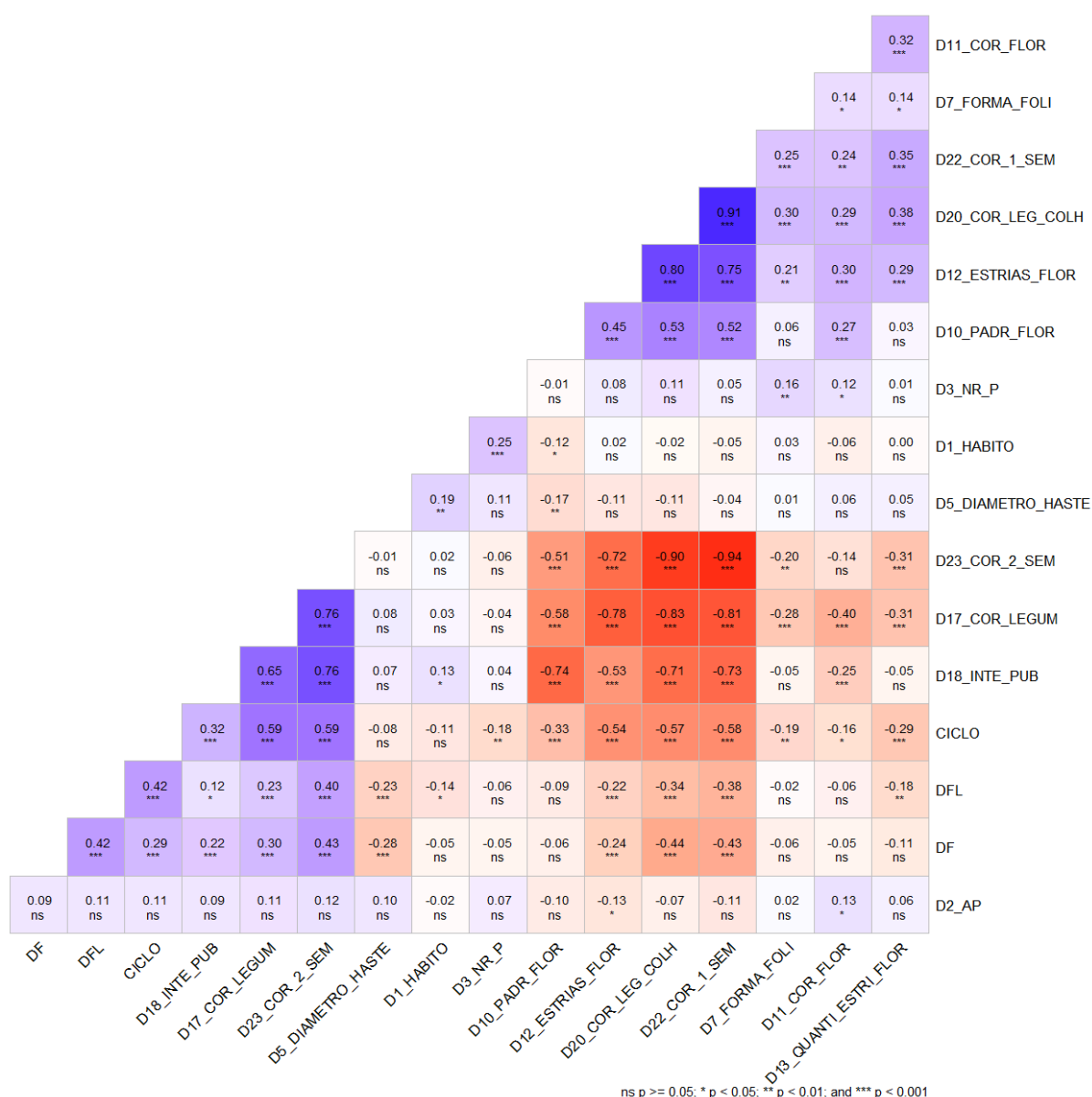


Figure 2. Kendall's correlation coefficients ( $\tau$ ) for qualitative and quantitative variables evaluated in pigeon pea.



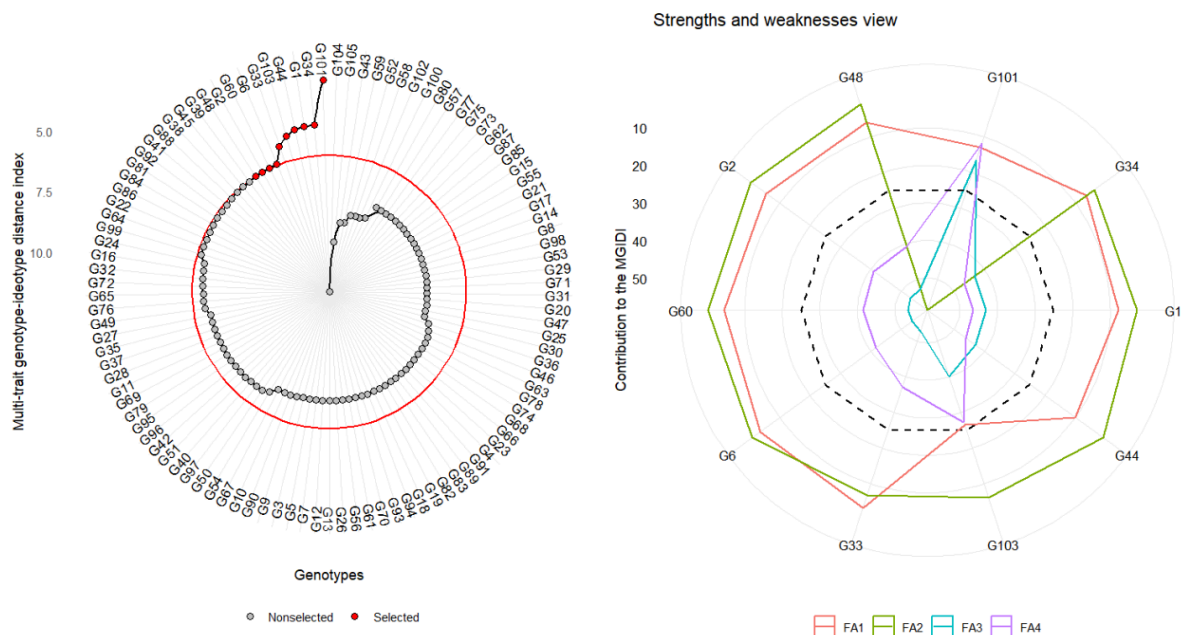


Figure 3 . Classification of selected pigeon pea genotypes in ascending order for the MGIDI index. Selected genotypes are represented in red and unselected genotypes in black. Strengths and weaknesses view: Contribution of each factor (group of characteristics) to the MGIDI index value of each selected genotype.