

Plant		Legumes for manure & cover crop		502	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant height	20 plants	Measurement	cm (integer)		Measure from the ground at flowering stage
2	Stem thickness	20 plants	Measurement	mm (round to the 1st decimal place)		Measure the thickest part of the stem (major axis) at flowering stage
3	Vining habit	20 plants	Observation	0:None 9:Present		
4	Twining tendency	20 plants	Observation	1:None 3:Low 5:Intermediate 7:Pronounced		
5	Leaf variegation	20 plants	Observation	0:None 3:Unclear 5:Slightly unclear 7:Clear 9:Very clear		Use completely expanded leaf
6	Hairiness of leaf and stem	20 plants	Observation	3:None or glabrous 4:Sparse 5:Intermediate 6:Dense 7:Very dense		
7	Leaf shape	20 plants	Observation	1:Simple leaf 3:Trifoliate 5:Pinnately compound 7:Palmately compound 9:Other		
8	Leaf length	20 plants	Measurement	mm (integer)		Length of the major axis of simple leaf or leaflet of compound leaf
9	Leaf width	20 plants	Measurement	mm (integer)		Length of the minor axis of simple leaf or leaflet of compound leaf
10	Date of the first flowering	20 plants	Observation	date		Recorded in the form of DDMM
11	Flower color	20 plants	Observation	1:White 2:Purple 3:Blue 4:Green 5:Yellow 6:Orange 7:Pink 8:Red 9:Other		Recorded the color of standard petal

Plant		Legumes for manure & cover crop		502	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Growth habit	20 plants	Observation	3:Erect 4:Semi-erect 5:Intermediate 6:Semi-prostrate 7:Prostrate		Record at elongation stage
2	Pod length	20 plants	Measurement	mm (integer)		Average of 5 pods per plant
3	Pod width	20 plants	Measurement	mm (integer)		Average of 5 pods per plant
4	Pod weight	20 plants	Measurement	mg (integer)		Average of 5 mature pods per plant
5	Seed number per pod	20 plants	Measurement	seeds/pod (round to the 1st decimal place)		Average of 5 mature pods per plant
6	1000 seed weight	100 seeds, 2 replications	Measurement	g (round to the 2nd decimal place)		Weight of 100 seeds x 10

Plant		Legumes for manure & cover crop		502	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Seedling vigor	20 plants, 2 replications	Observation	3:Very poor 4:Poor 5:Intermediate 6:Vigorous 7:Very vigorous		Assess at seedling stage
2	Growth vigor during autumn and winter	20 plants, 2 replications	Observation	3:Very poor 4:Poor 5:Intermediate 6:Vigorous 7:Very vigorous		Assess during autumn and winter in non-frosty areas

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1	Plant vigor during spring	20 plants, 2 replications	Observation	3:Very poor 4:Poor 5:Intermediate 6:Vigorous 7:Very vigorous		Assess regrowth vigor during spring based on herbage mass
2	Plant vigor during autumn	20 plants, 2 replications	Observation	3:Very poor 4:Poor 5:Intermediate 6:Vigorous 7:Very vigorous		Assess regrowth vigor during autumn based on herbage mass
3	Selfing rate	20 plants, 2 replications	Measurement	3:None 4:Low 5:Intermediate 6:High 7:Very high		Assess by bagging or isolation cultivation
4	Seed dormancy	20 plants, 2 replications	Measurement	3:None 4:Shallow 5:Intermediate 6:Deep 7:Very deep		Assess by seed germination test using 200 mature seeds
5	Tendency of hard seed	20 plants, 2 replications	Measurement	3:None 4:Low 5:Intermediate 6:High 7:Very high		Assess by seed germination test using 200 seeds treated for breakage in hardness
6	Inhibition effect on root-knot nematode	20 plants, 2 replications	Observation	4:Poor 5:Intermediate 6:High		Assess at fields contaminated by southern root-knot nematode
7	Cover degree	20 plants, 2 replications	Observation	3:Very poor 4:Poor 5:Intermediate 6:High 7:Very high		Assess at lushest growing stage
8	Nodulation	20 plants, 2 replications	Observation	4:Poor 5:Intermediate 6:Heavy		Assess at lushest growing stage

Plant	Legumes for manure & cover crop	502	Tertiary essential character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Herbage yield	2 blocks	Measurement	kg/a (integer)	Measure from a more than 2-square-meter-block
2	Dry matter ratio	2 blocks	Measurement	% (round to the 1st decimal place)	Measure after 48-hour drying at 70 centi degree
3	Dry matter yield	2 blocks	Calculation	kg/a (integer)	Calculate by (dry matter ratio) x (herbage yield)

Plant	Legumes for manure & cover crop	502	Tertiary optional character		
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Amount of nitrogen assimilation	2 blocks, 2 replications	Measurement	kg/a (round to the 2nd decimal place)	Calculate by (dry matter yield) x (nitrogen content)