

Plant		Chinese milk vetch		39(06015)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant type	10 plants, 2 replications	Observation	1:Erect 2:Nearly erect 3:Semi-erect 4:Slightly semi-erect 5:Intermediate 6:Slightly semi-prostrate 7:Semi-prostrate 8:Nearly prostrate 9:Prostrate		Angle that outer main stems make with the ground
2	Plant height	10 plants, 2 replications	Measurement	cm (round to the 1st decimal place)		Plant length from the ground to the top of plant at the full flowering time
3	Stem thickness	10 plants, 2 replications	Obs.&Measr.	1:Extremely slender 2:Very slender 3:Slender 4:Slightly slender 5:Intermediate 6:Slightly thick 7:Thick 8:Very thick 9:Extremely thick		Diameter of stems at the full flowering time
4	Leaf length	10 plants, 2 replications	Measurement	cm (round to the 1st decimal place)		Length of the biggest leaf from the base of petiole to the tip of top leaflet at the full flowering time
5	Leaflet size	10 plants, 2 replications	Obs.&Measr.	1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large		Extremely small: ≤ 0.4 square meter, small: ≤ 0.8 square meter, intermediate: ≤ 1.2 square meter, large: ≤ 1.6 square meter, extremely large: ≥ 2.0 square meter
6	First flowering date	10 plants, 2 replications	Observation	date		Date when plants began to flower
7	Flower color	10 plants, 2 replications	Observation	1:White 2:Yellowish white 4:Blight red purple 5:Red purple 7:Deep red purple 9:Other		Color of standard and keel petals just after flowering

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1	Stem color	10 plants, 2 replications	Observation	1:Green 3:Light red 5:Red brown 7:Dark red purple 9:Other		Degree of anthocyan pigmentation of stems on the sunny side at flowering time
2	Number of stems	10 plants, 2 replications	Obs.&Mear.	1:Almost none 2:Extremely few 3:Very few 4:Few 5:Intermediate 6:Some 7:Many 8:Very many 9:Abundant		Number of primary branches at the beginning of flowering stage
3	Flower stalk length	10 plants, 2 replications	Measurement	mm (integer)		Average length of 2 flower stalks from 2 longest stems
4	Number of florets per cluster	10 plants, 2 replications	Obs.&Mear.	1:Almost none 2:Extremely few 3:Very few 4:Few 5:Intermediate 6:Some 7:Many 8:Very many 9:Abundant		Number of florets per cluster
5	Pod color	10 plants, 2 replications	Observation	3:Brown 5:Dark brown 7:Black		Color of mature pods
6	Seed shape	10 plants, 2 replications	Observation	1:Round 2:Round-Oval 3:Oval 4:Oval-Elliptic 5:Elliptic 6:Elliptic-Rhombic 7:Rhombic 9:Other		Shape of seeds taken out of mature pods
7	Weight of 1000 seeds	10 plants, 2 replications	Measurement	g / 1000 seeds (round to the 2nd decimal place)		Weight of 1000 seeds estimated by sampling 100 seeds from a mixture of 20 plants, with at least 4 replications

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No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks	
1	Sclerotinia wilt rot resistance	10 plants, 2 replications	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high	Resistance to Sclerotinia trifoli orum based on the degree of damage and the ratio of dead plants when the infection became apparent	
2	Overwintering ability	10 plants, 2 replications	Obs.&Measr.	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly good 7:Good 8:Very good 9:Excellent	Overwintering ability estimated from the rate of survival after overwintering. Extremely poor:less than 10%, poor:less than 30%, intermediate:less than 60%, good:up to 80%, excellent:at least 95%	
3	Plant vigor in spring	10 plants, 2 replications	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly good 7:Good 8:Very good 9:Excellent	Plant vigor one month after sprouting in spring	

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1	Disease resistance	10 plants, 2 replications	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Resistance to diseases based on the degree of damage and the ratio of dead plants when the infection became apparent (Note the name of disease)
2	Insect resistance	10 plants, 2 replications	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Resistance to insects, based on the degree of damage and the ratio of dead plants when the damage became apparent (Note the name of insect)
3	Spring habit	10 plants, 2 replications	Observation	1:Extremely low 2:Very low 3:Low 4:Slightly low 5:Intermediate 6:Slightly high 7:High 8:Very high 9:Extremely high		Ratio of flowering plants when sown in spring
4	Plant vigor in autumn	10 plants, 2 replications	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly good 7:Good 8:Very good 9:Excellent		Amount of growth in late fall

Plant		Chinese milk vetch		39(06015)	Tertiary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Dry matter yield	2 plots	Measurement	kg/a (integer)		Dry matter yield calculated by fresh yield x dry matter ratio/100
2	Dry matter ratio	2 plots	Measurement	% (round to the 1st decimal place)		Ratio of dry matter by sampling 300 g of fresh weight and drying at 70 centi degrees for 48 hours
3	Green yield	2 plots	Measurement	kg/a (integer)		Fresh yield estimated from fresh weight harvested from an area more than 2 square meters
4	Dry matter digestibility	2 plots, 3 replications	Measurement	% (round to the 1st decimal place)		Ratio of digestible dry matter measured by in vivo test or in vitro enzyme method
5	Crude protein content	2 plots, 3 replications	Measurement	% (round to the 1st decimal place)		Ratio of crude protein content on a dry matter base analyzed by Kjeldahl method or Near Infra-red Analyzer
6	Acid detergent fiber content (ADF)	2 plots, 3 replications	Measurement	% (round to the 1st decimal place)		Ratio of ADF content on a dry matter base analyzed by acid detergent-acetone washing
7	Neutral detergent fiber content (NDF)	2 plots, 3 replications	Measurement	% (round to the 1st decimal place)		Ratio of NDF content on a dry matter base analyzed by neutral detergent-acetone washing
8	Acid detergent lignin content (ADL)	2 plots, 3 replications	Measurement	% (round to the 1st decimal place)		Ratio of ADL content on a dry matter base analyzed by acid detergent-acetone washing
9	Mono-and oligosaccharide content	2 plots, 3 replications	Measurement	% (round to the 1st decimal place)		Mono-and oligosaccharide content on a dry matter base analyzed by thin layer chromatography after ethanol extraction
10	Seed productivity	2 plots, 2 replications	Measurement	g/square meter (round to the 1st decimal place)		Yield of pure seeds per square meter
11	Seed weight per flower head	2 plots, 2 replications	Measurement	mg/flower head (integer)		Weight of pure seeds per flower head, by sampling 20 mature flower heads

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12	Seed fertility	2 plots, 2 replications	Measurement	% (round to the 1st decimal place)		Ratio of pure seeds estimated by sampling seeds of 20 mature flower heads