

Plant		Lawnglass		29(06005)	Primary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Stolon thickness	10 plants, 2 replications or 4 plots	Measurement	mm (round to the 1st decimal place)		Diameter of the 4th or 5th internode from the tip of stolon measured by slide calipers or dial caliper
2	Culm thickness	10 plants, 2 replications or 4 plots	Measurement	mm (round to the 1st decimal place)		Diameter of the culm just below the panicle measured by slide calipers or dial caliper
3	Culm length	10 plants, 2 replications or 4 plots	Measurement	cm (round to the 1st decimal place)		Length from the ground to the base of spike at the full heading stage
4	Internode length	10 plants, 2 replications or 4 plots	Measurement	mm (integer)		Length of the 4th or 5th internode from the tip of stolon
5	Leaf length	10 plants, 2 replications or 4 plots	Obs.&Mear.	1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long 8:Very long 9:Extremely long		Length of mature leaf blades in early summer
6	Leaf width	10 plants, 2 replications or 4 plots	Obs.&Mear.	1:Extremely slender 2:Very slender 3:Slender 4:Slightly slender 5:Intermediate 6:Slightly wide 7:Wide 8:Very wide 9:Extremely wide		Width of mature leaf blades in early summer
7	Leaf color	10 plants, 2 replications or 4 plots	Observation	1:Extremely light 2:Very light 3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark 8:Very dark 9:Extremely dark		Greenness of leaf blades in early summer
8	Spike color	10 plants, 2 replications or 4 plots	Observation	1:Extremely light 2:Very light 3:Light 4:Slightly light 5:Intermediate 6:Slightly dark 7:Dark 8:Very dark 9:Extremely dark		Color of spikes in early summer
9	Date of first heading	10 plants, 2 replications or 4 plots	Observation	date		Date when 3 spikes have emerged per square meter
10	Spreading of stolons	10 plants, 2 replications or 4 plots	Obs.&Mear.	1:Extremely small 2:Very small 3:Small 4:Slightly small 5:Intermediate 6:Slightly large 7:Large 8:Very large 9:Extremely large		Degree of spreading of new stolons after planting estimated by the total length of stolons

Plant		Lawnglass		29(06005)	Primary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Plant habit	10 plants, 2 replications or 4 plots	Observation	1:Erect 2:Nearly erect 3:Semi-erect 4:Slightly semi-erect 5:Intermediate 6:Slightly intermediate 7:Semi-prostrate 8:Nearly prostrate 9:Prostrate		Angle that main leaves make with the ground
2	Texture of leaves	10 plants, 2 replications or 4 plots	Observation	1:Extremely tender 2:Very tender 3:Tender 4:Slightly tender 5:Intermediate 6:Slightly rough 7:Rough 8:Very rough 9:Extremely rough		Texture of leaf blades by touching in spring, summer and autumn
3	Number of spikelets per spike	10 plants, 2 replications or 4 plots	Observation	1:Almost none 2:Extremely few 3:Very few 4:Few 5:Intermediate 6:Some 7:Many 8:Very many 9:Extremely many		Number of spikelets per spike, estimated by sampling 10 spikes per plant at heading stage of the first harvest
4	Width of spikelets	10 plants, 2 replications or 4 plots	Observation	1:Extremely slender 2:Very slender 3:Slender 4:Slightly slender 5:Intermediate 6:Slightly thick 7:Thick 8:Very thick 9:Extremely thick		Width of spikelets, estimated by sampling 10 spikes per plant at heading stage of the first cutting
5	Heading	10 plants, 2 replications or 4 plots	Observation	1:Extremely little 2:Very little 3:Little 4:Slightly little 5:Intermediate 6:Slightly abundant 7:Abundant 8:Very abundant 9:Extremely abundant		Based on number of spikes per unit area at the full heading stage in spring and autumn
6	Hullability	10 plants, 2 replications or 4 plots	Observation	1:Extremely easy 2:Very easy 3:Easy 4:Slightly easy 5:Intermediate 6:Slightly hard 7:Hard 8:Very hard 9:Extremely hard		Ease of hulling, estimated by sampling 10 spikes per plant at the first harvest
7	Plant vigor in early stage	10 plants, 2 replications or 4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly vigorous 7:Vigorous 8:Very vigorous 9:Extremely vigorous		Growth after sowing or transplanting
8	Weight of 1000 seeds	10 plants, 2 replications or 4 plots	Measurement	g (round to the 2nd decimal place)		Weight of 1000 seeds, estimated by sampling 100 cleaned seeds with 4 replications

Plant		Lawnglass		29(06005)	Secondary essential character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Crown rust resistance	10 plants, 2 replications or 4 plots	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		Degree of the infection of Puccinia zoysiae by artificial inoculation or planting in an infected field
2	Large patch resistance	10 plants, 2 replications or 4 plots	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		Degree of the infection of Drechslera dictyoides by artificial inoculation or planting in an infected field
3	Plant vigor in spring	10 plants, 2 replications or 4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly vigorous 7:Vigorous 8:Very vigorous 9:Extremely vigorous		Amount of growth in spring
4	Greening time	10 plants, 2 replications or 4 plots	Observation	date		Date when the sod became completely green by sprouting after overwintering
5	Coloring time	10 plants, 2 replications or 4 plots	Observation	date		Date when leaf blades turned to autumn colors
6	Summer survival	10 plants, 2 replications or 4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly vigorous 7:Vigorous 8:Very vigorous 9:Extremely vigorous		Summer survival evaluated based on the degree of regrowth and plant vigor in early autumn
7	Overwintering ability	10 plants, 2 replications or 4 plots	Observation	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 evaluated based on the degree of regrowth and plant vigor in early spring after overwintering

Plant		Lawngress		29(06005)	Secondary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Leaf blight disease resistance	10 plants, 2 replications or 4 plots	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		Degree of the infection of leaf blight diseases
2	Curvularia leaf blight resistance	10 plants, 2 replications or 4 plots	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		Degree of the infection of Curvularia leaf blight
3	Helminthosporium resistance	10 plants, 2 replications or 4 plots	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		Degree of the infection of Helminthosporium spp.
4	Typhula snow blight resistance	10 plants, 2 replications or 4 plots	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		Degree of the infection of Typhula snow blight
5	Pink snow mold resistance	10 plants, 2 replications or 4 plots	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		Degree of the infection of Microdochium nivale
6	Hunting billbug resistance	10 plants, 2 replications or 4 plots	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		Degree of damage by hunting billbug
7	Plant vigor in autumn	10 plants, 2 replications or 4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly vigorous 7:Vigorous 8:Very vigorous 9:Extremely vigorous		Amount of growth in early autumn
8	Shade tolerance	10 plants, 2 replications or 4 plots	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 under shaded conditions
9	Drought tolerance	10 plants, 2 replications or 4 plots	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 under drought conditions
10	Salinity tolerance	10 plants, 2 replications or 4 plots	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 saline soil

Plant		Lawngrass		29(06005)	Tertiary essential character
No	Characters	No. of samples	Methods	Rank or measurement unit	Remarks
1	Tolerance to mowing in spring	4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly tolerant 7:Tolerant 8:Very tolerant 9:Extremely tolerant	Mowing tolerance based on the regrowth and density of sod after mowing four times per week in spring
2	Tolerance to mowing in summer	4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly tolerant 7:Tolerant 8:Very tolerant 9:Extremely tolerant	Mowing tolerance in summer estimated by the same way as that in spring
3	Tolerance to mowing in autumn	4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly tolerant 7:Tolerant 8:Very tolerant 9:Extremely tolerant	Mowing tolerance in autumn estimated by the same way as that in spring

Plant		Lawngress		29(06005)	Tertiary optional character	
No	Characters	No. of samples	Methods	Rank or measurement unit		Remarks
1	Sod density	4 plots	Observation	1:Extremely sparse 2:Very sparse 3:Sparse 4:Slightly sparse 5:Intermediate 6:Slightly dense 7:Dense 8:Very dense 9:Extremely dense		Sod density under treated conditions observed at each cutting
2	Density of stolons	4 plots	Observation	1:Extremely sparse 2:Very sparse 3:Sparse 4:Slightly sparse 5:Intermediate 6:Slightly dense 7:Dense 8:Very dense 9:Extremely dense		Total length of stolons per unit area under treating conditions observed at each cutting
3	Elongation of stolons	4 plots	Observation	1:Extremely poor 2:Very poor 3:Poor 4:Slightly poor 5:Intermediate 6:Slightly good 7:Good 8:Very good 9:Excellent		Elongation of stolons under treated conditions observed at each cutting
4	Seed productibility	4 plots	Measurement	g/square meters (integer)		Cleaned seed yield per square meter at the first cutting
5	Weight of 20 spikes	4 plots	Measurement	g/20 spikes (round to the 1st decimal place)		Weight of 20 dried spikes at the full heading of the first harvest
6	Seed fertility	4 plots	Measurement	% (round to the 1st decimal place)		Ratio of fully mature seeds per 100 caryopses estimated by sampling 10 spikes per plot
7	Seed dormancy	4 plots	Measurement	1:Extremely short 2:Very short 3:Short 4:Slightly short 5:Intermediate 6:Slightly long 7:Long 8:Very long 9:Extremely long		Seed dormancy estimated by germination test at 35 centi degrees in spring after harvest, sampling 50 seeds with 2 replications
8	Fresh yield in spring	4 plots	Measurement	kg/a (round to the 1st decimal place)		Fresh yield in spring estimated from fresh weight harvested at 5 cm height from 2 square meters area during spring
9	Dry matter ratio in spring	4 plots	Measurement	% (round to the 1st decimal place)		Dry matter ratio in spring estimated by sampling 400 g fresh weight and drying at 70 centi degree for 48 hours
10	Fresh yield in summer	4 plots	Measurement	kg/a (round to the 1st decimal place)		Fresh yield in summer estimated by the same way as that in spring

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11	Dry matter ratio in summer	4 plots	Measurement	% (round to the 1st decimal place)		Dry matter ratio in summer estimated by the same way as that in spring
12	Fresh yield in autumn	4 plots	Measurement	kg/a (round to the 1st decimal place)		Fresh yield in autumn estimated by the same way as that in spring
13	Dry matter ratio in autumn	4 plots	Measurement	% (round to the 1st decimal place)		Dry matter ratio in autumn estimated by the same way as that in spring