

Table S1. The scale used for the assessment of cold damage on the genotypes.

Score	Signs of damage
0	No signs of freezing
1.0	Freezing of the upper part of annual shoots ($\frac{1}{4}$ of their length). The number of frozen annual shoots is not more than 10% and up to 10% of generative buds from one bush, perennial shoots and vegetative buds are not damaged.
2.0	Freezing of no more than 20%-25% of annual increments (up to $\frac{1}{2}$ of their length), up to 25% of generative buds from one bush, up to 10% freezing of perennial shoots
3.0	Up to 70% of annual shoots are damaged (more than $\frac{1}{2}$ of their length), 25-50% of generative buds are frozen, up to 25% of two-year-old and single (up to 10%) perennial shoots from one bush are frozen
4.0	Total (100%) damage to annual shoots; freezing of generative buds up to 75%; two-year and perennial shoots are damaged up to 75%; bush renewal comes from lower (dormant) buds
5.0	Complete (100%) freezing of the aboveground part of the bush, there is no renewal of the bush