

LTS (low temperature stress)in raspberry

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Close view of the field

Trellis - not bended or covered

Trellis -Bent down and covered



Effect on yield of three raspberry clones

Clone	Yield in kg 1000 m ⁻²		
	Cover	No cover	Mean
Glen Ample	1401	1644	1523
Stiora	1174	1548	1361
91-39-7	884	1014	949
Mean	1153	1402	1277 ^{ns} (8%)
Se	136	136	111*
* Significant on 5% level			

Effect on bud freezing injury (Fi) of three raspberry clones

Clone	FI		
	Cover	No cover	Mean
Glen Ample	8.5	8.1	8.3
Stiora	8.0	7.9	8.0
91-39-7	8.4	8.3	8.4
Mean	8.3	8.1	8.2*
Se	0.2*	0.2*	0.1*

Effect of cv and cane cover on fruit size of three raspberry clones

Clone	Fruit size in g per fruit		
	Cover	No cover	Mean
Glen Ample	5.6	5.8	5.7
Stiora	5.1	4.9	5.0
91-39-7	3.5	3.9	3.7
Mean	4.8	4.9	4.8
Se	0.2*	0.2*	0.15***

Conclusion

- Minimum temperature in winter was not below -15°C . Highest min. in more than 30 years. Heating treatment was not initiated!!!!
- Methode of bending canes to the ground made minor injury to the canes.
- Within clone there was no registered effect of bending.
- Freezing injury of buds were higher in 'Stiora' than in 'GA' and 91-39-7. However, the injury is minor!!!
- Sum of rotted, crumbly and miscoloured fruit was below 2-3%.
- Experiments will be repeated in 2012/2013.