

The following three papers by Bill Intven, George Okken, and Jack Alexander were part of an evening program titled: Review of Scion/Understock Compatibilities.

## Review of Scion/understock Compatibilities

### Bill Intven

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Compatibility is an absolute must for grafting to be successful; however, it is my modest opinion that nursery people know so much about compatibility that they would not be at great risk in this point. However, there are instances where success depends on certain factors other than grafting on the wrong understock under particular circumstances. For years we grafted *Viburnum xcarlcephalum* on *V. lantana* where the compatibility is very good.

If this grafting takes place on the rootneck or hypocotyl of *V. dentatum*, there is a great risk that there will be so many suckers on the understock that the shrub is worthless. While *V. dentatum* is very compatible with *V. xcarlcephalum* it is also excessively stoloniferous and the resulting shrub will be worthless. Now we use summer-rooted cuttings of *V. dentatum* with only one node at the top. After rooting we cut the understock off below the two-budded node and graft on the rooted part. Thus there is no node left on the understock and there is no suckering.

The reason for our change was that several of our staff complained that the pubescence of *V. lantana* caused considerable discomfort for their eyes, breathing, and skin.

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## Review of Scion/Understock Compatibilities Results at Okken Nurseries

### George Okken

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The following are success rates for a range of conifer grafts which we have observed at our nursery.

Genus	Scions	Understock	Success rate
<i>Pinus</i>			
	<i>P. albicaulis</i>	<i>P. strobus</i>	19% success
	<i>P. banksiana</i>	<i>P. sylvestris</i>	100% loss
	<i>P. banksiana</i>	<i>P. thunbergii</i>	10% loss
	<i>P. monophylla</i> (syn. <i>P. cembroides</i> var. <i>monophylla</i> )	<i>P. strobus</i>	10% success
	<i>P. contorta</i>	<i>P. strobus</i>	good results
	<i>P. densiflora</i>	<i>P. thunbergii</i>	good results
	<i>P. leucodermis</i>	<i>P. thunbergii</i>	100% loss
	<i>P. mugo</i>	<i>P. thunbergii</i>	2% success
	<i>P. nigra</i>	<i>P. thunbergii</i>	80% loss
	<i>P. parviflora</i>	<i>P. thunbergii</i>	poor results
	<i>P. resinosa</i>	<i>P. thunbergii</i>	poor results
	<i>P. resinosa</i>	<i>P. thunbergii</i>	100% loss
	<i>P. rigida</i>	<i>P. thunbergii</i>	poor results
	<i>P. sylvestris</i>	<i>P. thunbergii</i>	poor results
	<i>P. sylvestris</i>	<i>P. thunbergii</i>	100% loss
	<i>P. virginiana</i>	<i>P. sylvestris</i>	10% success
<i>Juniper</i>			
	<i>J. rigida</i>	<i>J. virginiana</i>	80% success

Genus	Scions	Understock	Success rate
<i>Picea</i>			
	<i>P. jezoensis</i> var. <i>hundoensis</i>	<i>P. abies</i>	80% success
	<i>P. orientalis</i> 'Atrovirens'	<i>P. abies</i>	71% success
	<i>P. orientalis</i> 'Atrovirens' tips 1-year wood	<i>P. abies</i>	81% success
	<i>P. orientalis</i> 'Atrovirens' laterals 2-year wood	<i>P. abies</i>	14% success
<i>Abies</i>			
	<i>A. amabilis</i>	<i>A. balsamea</i>	72% success
	<i>A. cephalonica</i> 'Meyer Blue'	<i>A. koreana</i>	good
	<i>A. lasiocarpa</i>	<i>A. balsamea</i>	80% success
	<i>A. lasiocarpa</i> 'Compacta'	<i>A. fraseri</i>	good
	<i>A. nordmanniana</i> 'Golden Spreader'	<i>A. balsamea</i>	81% success
	<i>A. numidica</i>	<i>A. fraseri</i>	good
	<i>A. pinsapo</i> 'Horstmann'	<i>A. balsamea</i>	90% success
	<i>A. procera</i>	<i>A. balsamea</i>	61% success