

COST Action E37
Meeting of WG2 PERFORMANCE

**Questions concerning the experimental
design of the Round Robin Test – Double
layer test**

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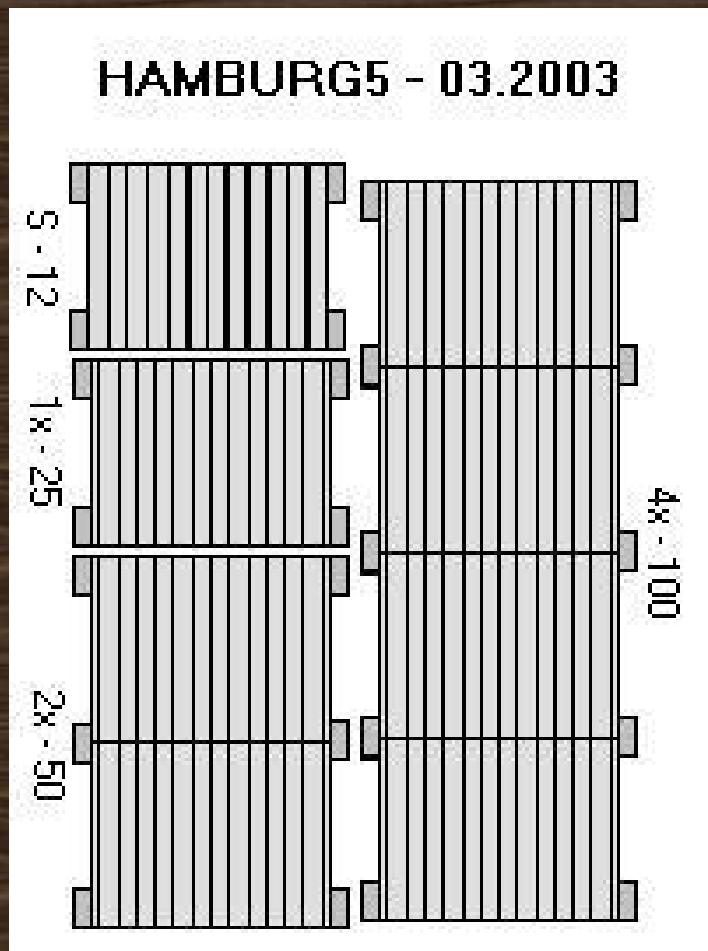


Question to be answered:

1. Closed single plate installation?
2. Single or double spacing bar?
3. Moisture measuring or scaling?
4. Single set = no of replicates?

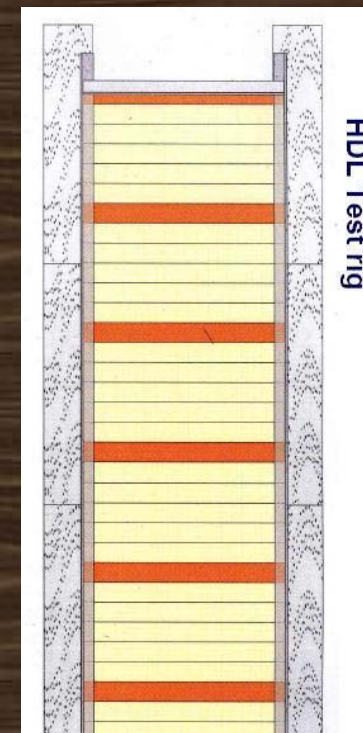


1. Closed single plate installation?

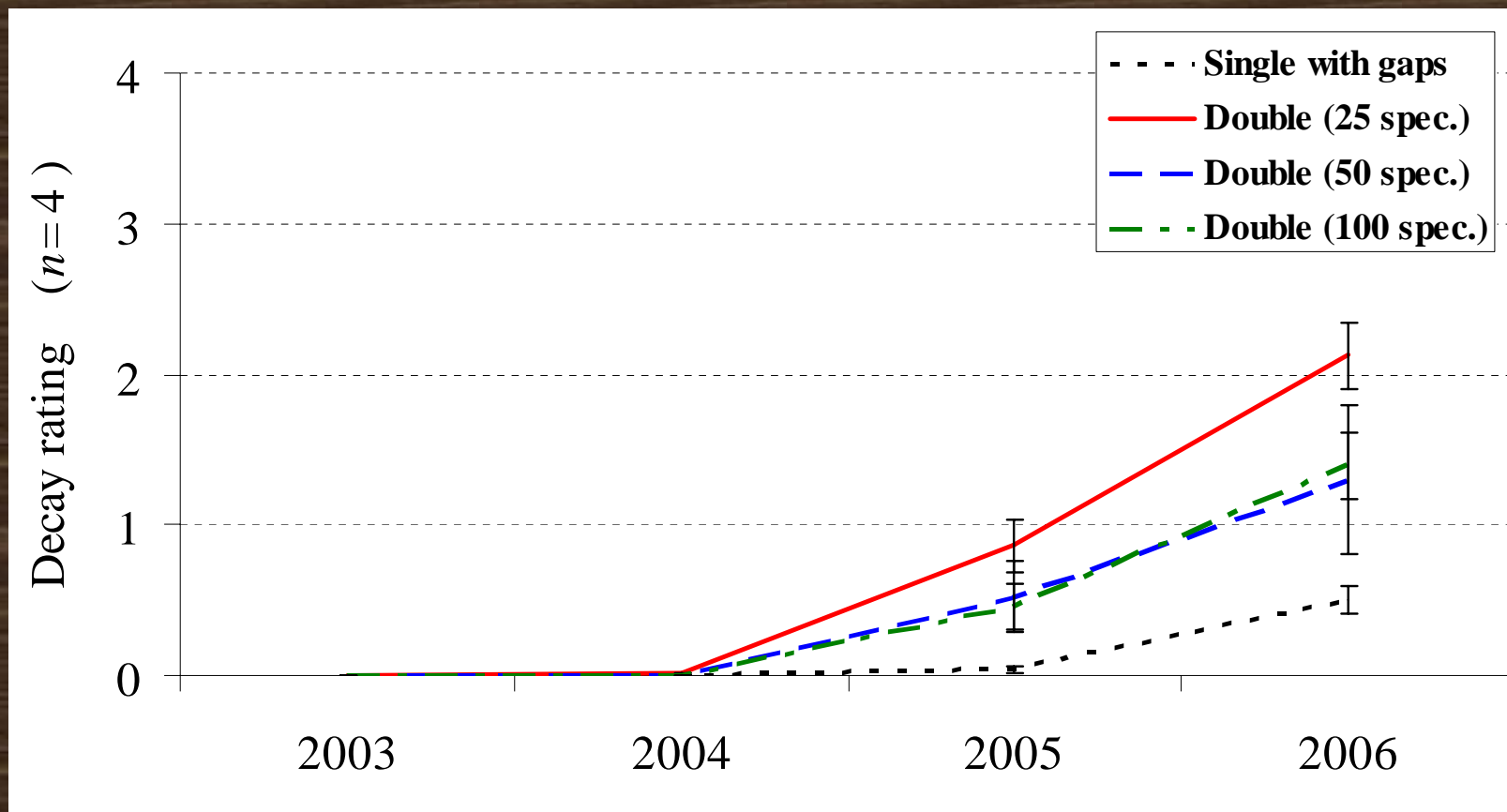


Single plate?
means ALL
variants in ONE
“plate”

Closed ?
for infection
from sides
and bottom



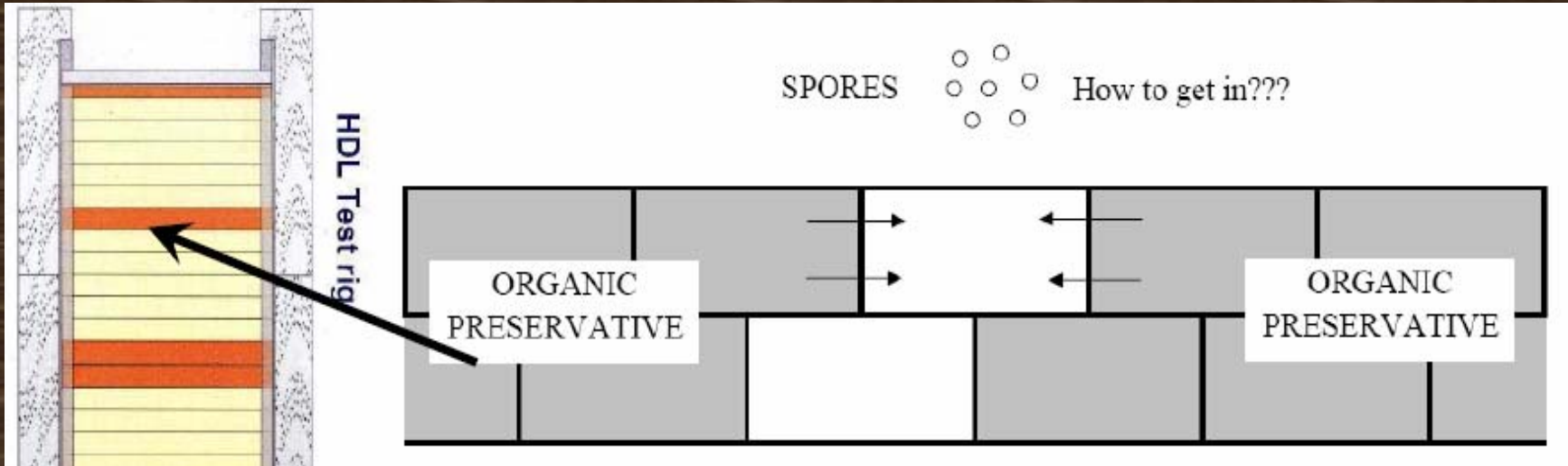
1. Influence of variant size on decay rating



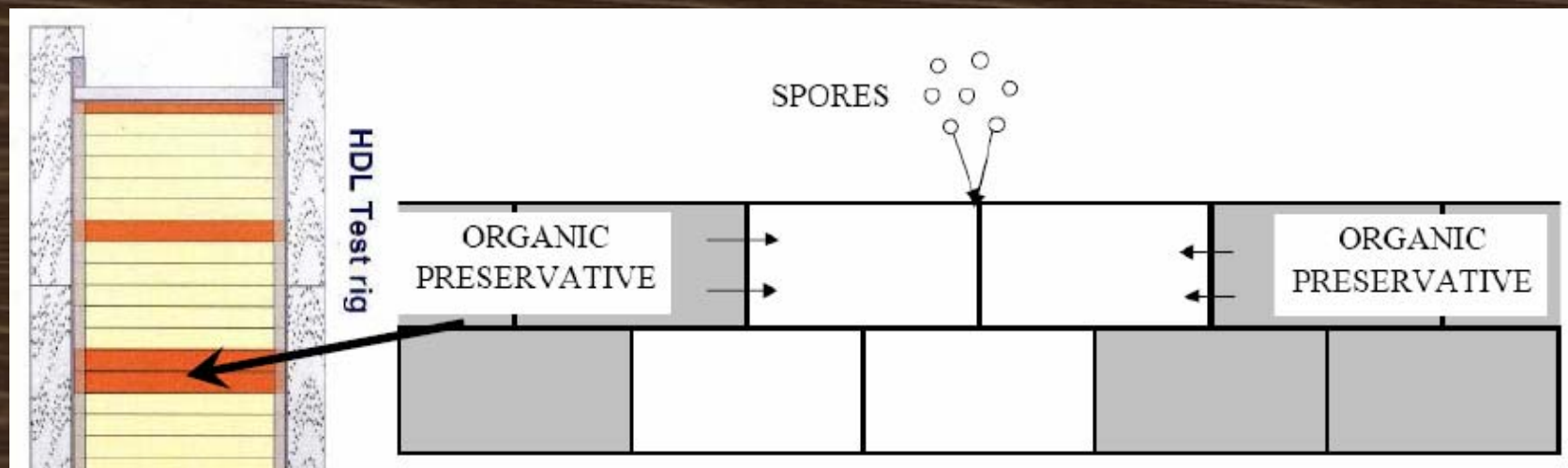
Maximum attack in Double layer with 25 specs



2. SINGLE or double spacing bar?



2. Single or DOUBLE spacing bar?

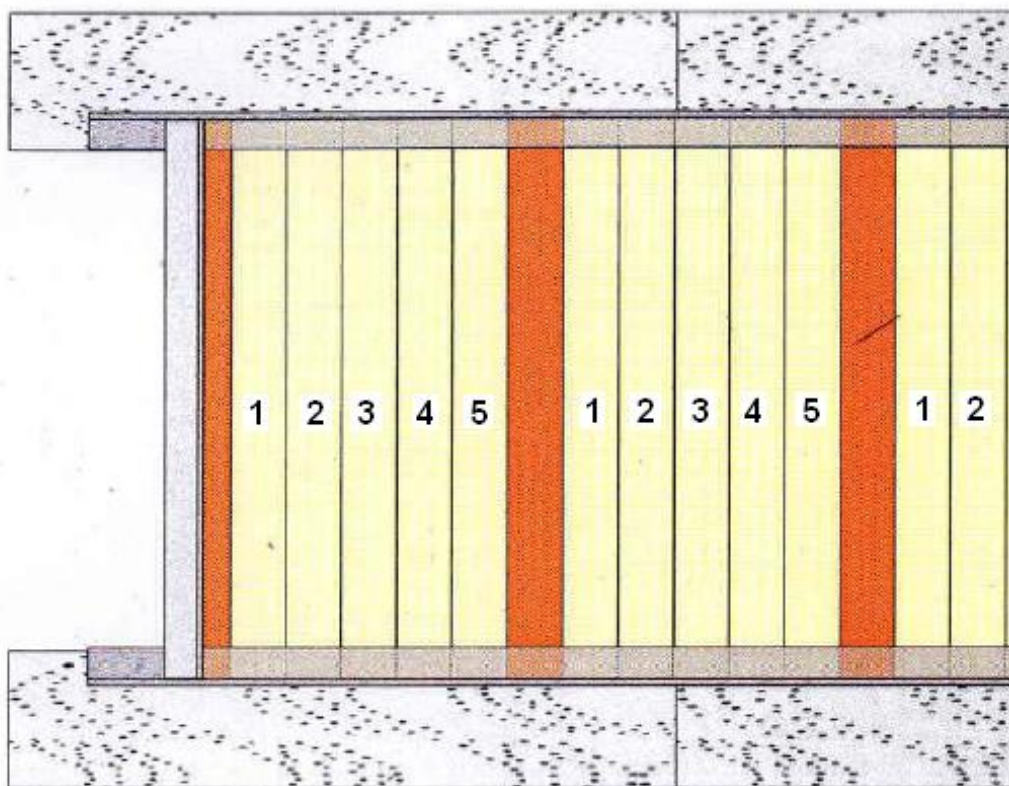


Maximum attack should be with double spacing bar
(theoretical consideration)



3. Moisture measuring or scaling?

HDL Test rig



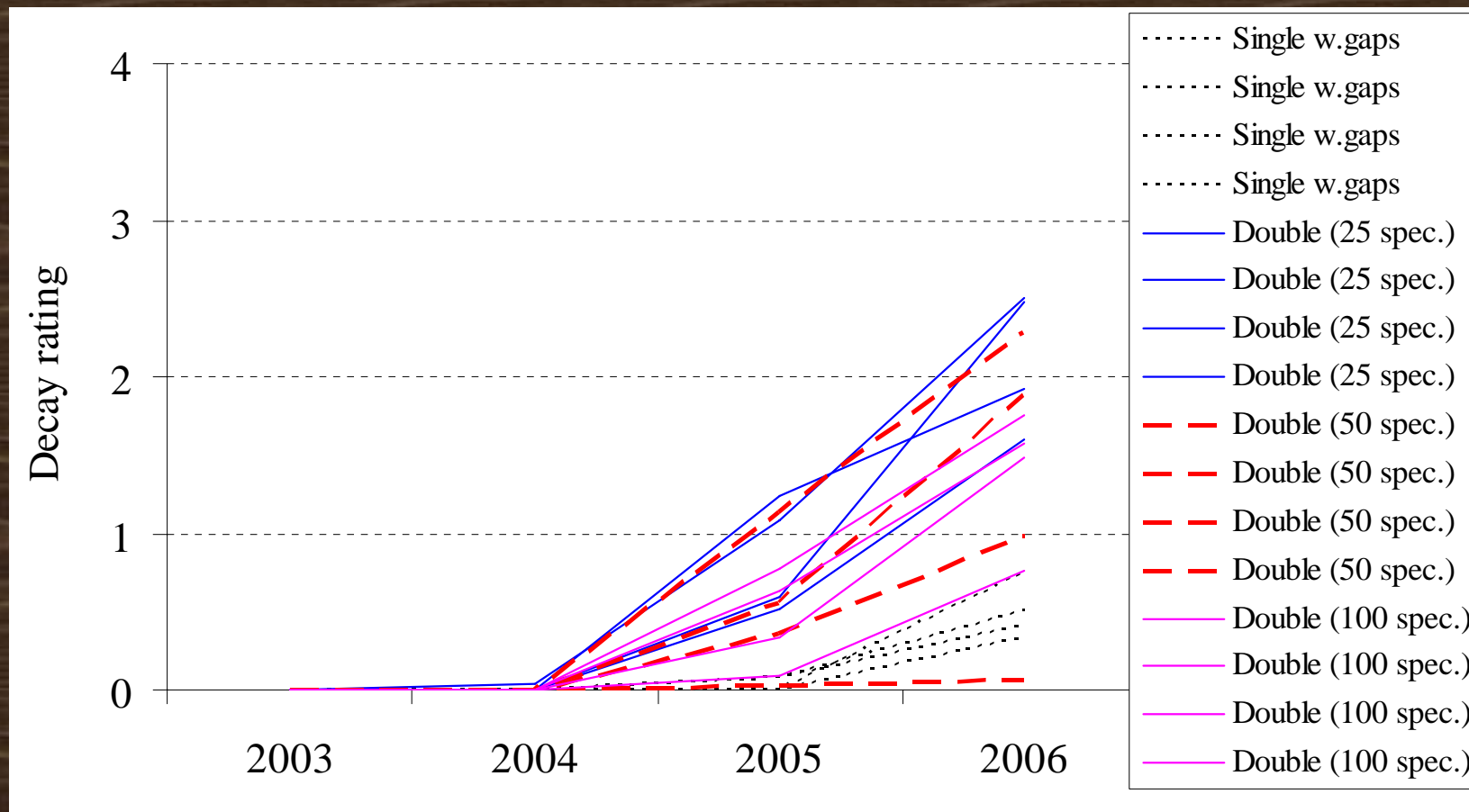
ALL 10 stakes – good result but much work.

2 stakes per variant - easy, but no variation in layer)

Best option – 4 (6?) stakes per variant (#1, #4 from upper l., #1, #4 from lower l.)



4. Single set = no of replicates?



**Enourmous variantion requires higher number of sets
– at least 3 (4) sets per location**



Conclusions

1. **“Closed single plate” (current RR DL design) leads to minimizing of decay.**
2. **“Single” spacing bar should lead to minimized of decay in variants with Organic preservative and CCA.**
3. **For scaling (~moisture measuring) is enough 4 stakes par variant and 20 (28) stakes per set to be measured.**
4. **Single set per location does not allow getting reliable results for locations – maybe for whole test only.**



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Thank you for your attention!



	LT-CON-50	Control - Untreated Scots Pine	TOP
	LT-CON-1	Control - Untreated Scots Pine	
	LT-CON-2	Control - Untreated Scots Pine	
	LT-CON-3	Control - Untreated Scots Pine	
	LT-CON-4	Control - Untreated Scots Pine	
	LT-PI1-1	Untreated Norway Spruce	
	LT-SP1-2	Untreated	

5	Control - Untreated Scots Pine
0	
6	Control - Untreated Scots Pine
1	
7	Control - Untreated Scots Pine
2	
8	Control - Untreated Scots Pine
3	
9	Control - Untreated Scots Pine
4	
3	Untreated Spruce
1	
5	Untreated Spruce or other

	LT-TT1-50	Thermally treated Scots Pine (A)	TOP
	LT-TT1-1	Thermally treated Scots Pine (A)	
	LT-TT1-2	Thermally treated Scots Pine (A)	
	LT-TT1-3	Thermally treated Scots Pine (A)	
	LT-TT1-4	Thermally treated Scots Pine (A)	
	LT-PI1-1	Untreated Norway Spruce	
	LT-SP1-2	Untreated Norway Spruce	
	LT-TT2-4	Thermally treated Scots Pine (B)	
	LT-TT2-3	Thermally treated Scots Pine (B)	
	LT-TT2-2	Thermally treated Scots Pine (B)	
	LT-TT2-1	Thermally treated Scots Pine (B)	
	LT-TT2-0	Thermally treated Scots Pine (B)	TOP

5	Thermally treated Scots Pine (A)
0	
6	Thermally treated Scots Pine (A)
1	
7	Thermally treated Scots Pine (A)
2	
8	Thermally treated Scots Pine (A)
3	
9	Thermally treated Scots Pine (A)
4	
3	Untreated Spruce
1	
5	Untreated Spruce or other
2	
4	Untreated Spruce
4	
9	Thermally treated Scots Pine (B)
3	
8	Thermally treated Scots Pine (B)
2	
7	Thermally treated Scots Pine (B)
1	
6	Thermally treated Scots Pine (B)
0	
5	Thermally treated Scots Pine (B)

	LT-OP1-50	OP treated Scots Pine (A)	TOP
	LT-OP1-1	OP treated Scots Pine (A)	
	LT-OP1-2	OP treated Scots Pine (A)	
	LT-OP1-3	OP treated Scots Pine (A)	
	LT-OP1-4	OP treated Scots Pine (A)	
	LT-PI1-1	Untreated Norway Spruce	
	LT-SP1-2	Untreated Norway Spruce	
	LT-OP2-4	OP treated Scots Pine (B)	
	LT-OP2-3	OP treated Scots Pine (B)	
	LT-OP2-2	OP treated Scots Pine (B)	
	LT-OP2-1	OP treated Scots Pine (B)	
	LT-OP2-0	OP treated Scots Pine (B)	TOP

5	OP treated Scots Pine (A)
0	
6	OP treated Scots Pine (A)
1	
7	OP treated Scots Pine (A)
2	
8	OP treated Scots Pine (A)
3	
9	OP treated Scots Pine (A)
4	
3	Untreated Spruce
1	
5	Untreated Spruce or other
2	
4	Untreated Spruce
4	
9	OP treated Scots Pine (B)
3	
8	OP treated Scots Pine (B)
2	
7	OP treated Scots Pine (B)
1	
6	OP treated Scots Pine (B)
0	
5	OP treated Scots Pine (B)