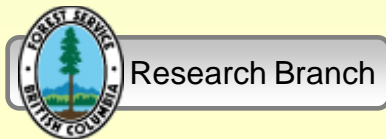


Resistant white pine & Sitka spruce: Missing Opportunities?

**John N. King, Research Scientist,
British Columbia Forest Service**





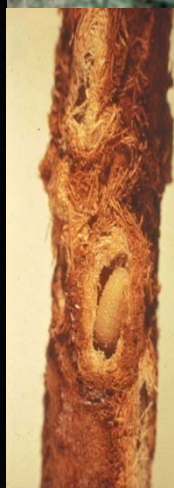








Pissodes strobi





Kielder Forest, Northumberland



**Continuous forest cover of nearly pure western white pine in northern Idaho, 1938
(USFS file photo).**





P. sibirica, Teletskoe Lake, S. Goroshkevich



Texada Island, Browse protection

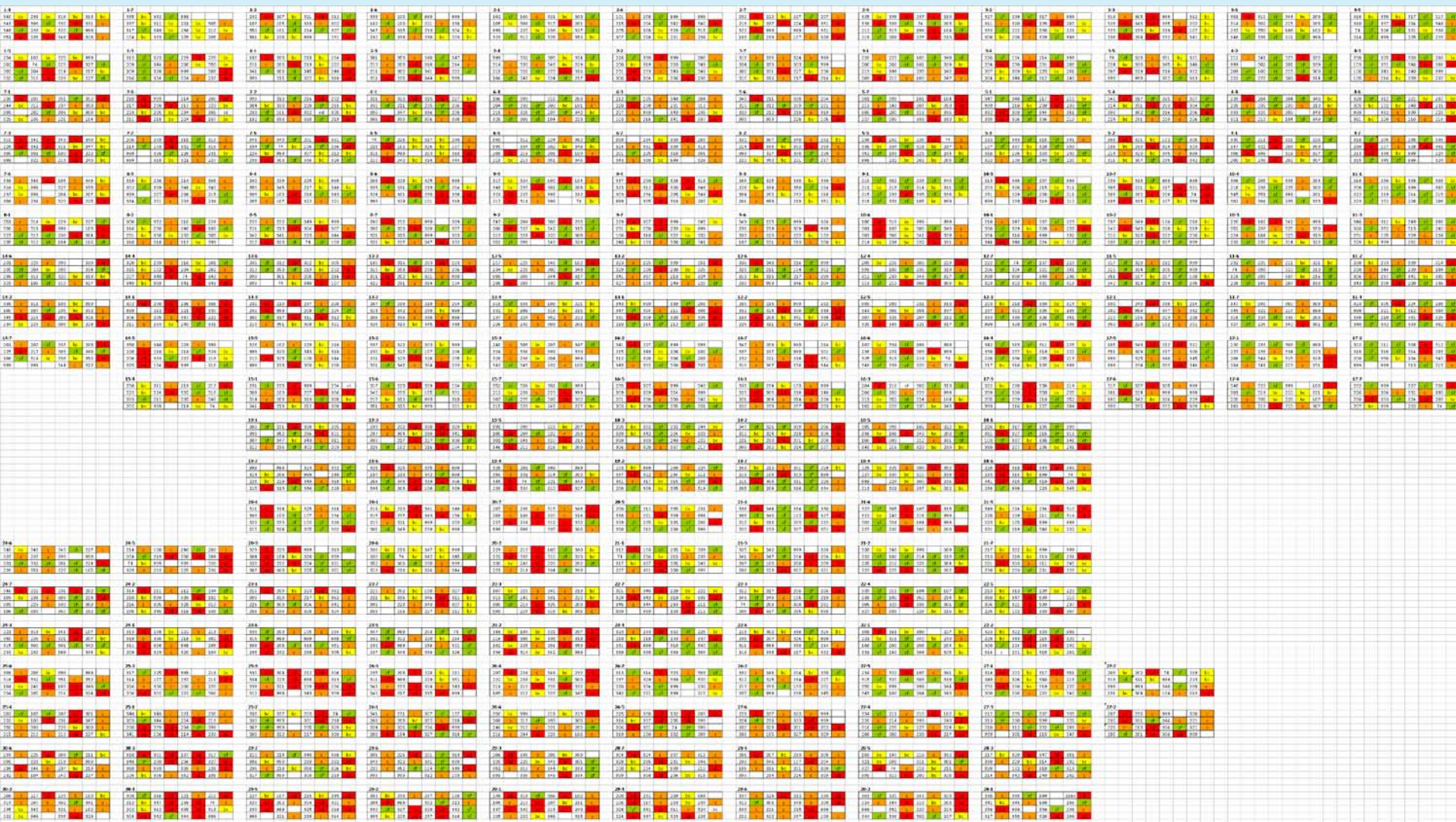


Woss, Block Trial Plantation

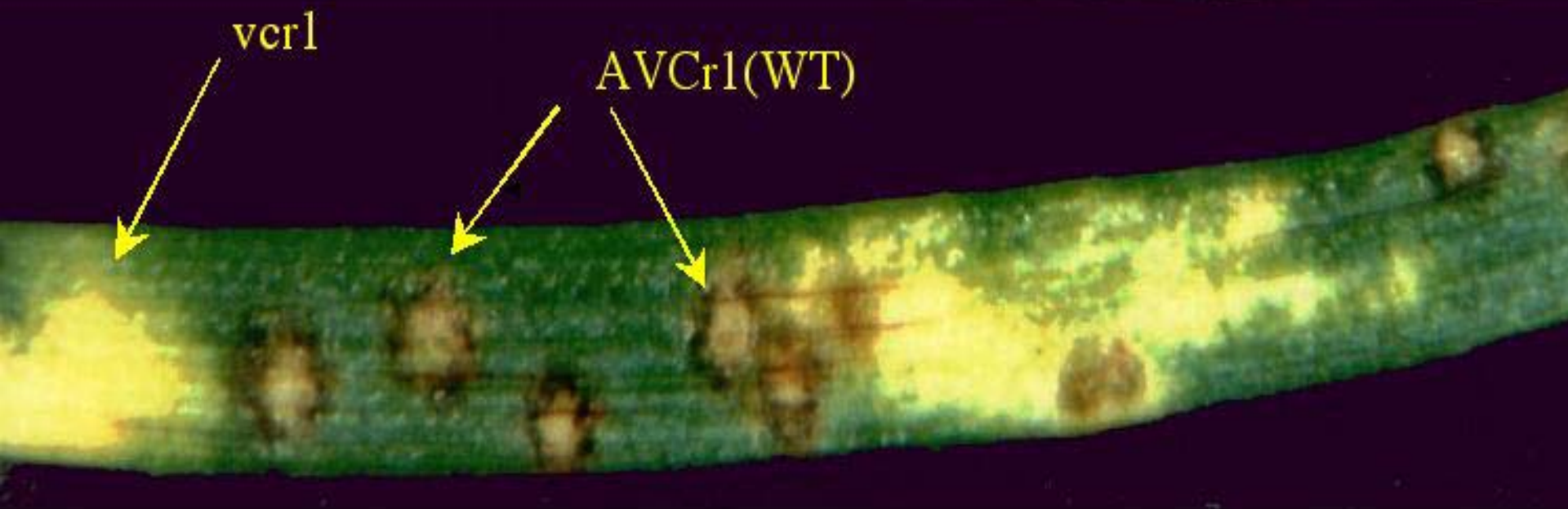




Field resistance assessment in F_1 Trials



fam	TYPE	ORIGIN	_FREQ_	mclean	msurv	sclean	ssurv	nobs
334	DDX	DIALLEL 80-4, ID# 9421723	29	90%	90%	26	26	29
300	DDX	DIALLEL 80-6, ID# 9421183	28	86%	89%	24	25	28
303	DDX	DIALLEL 80-6, ID# 9421273	29	72%	90%	21	26	29
302	DDX	DIALLEL 80-6, ID# 9421251	28	71%	82%	20	23	28
301	DDX	DIALLEL 86-6, ID# 9421218	29	69%	72%	20	21	29
339	DDX	DIALLEL 80-3, ID# 9421735	25	68%	84%	17	21	25
313	DDX	DIALLEL 80-4, ID# 9421593	30	67%	87%	20	26	30
315	DDX	DIALLEL 80-2, ID# 9421595	28	61%	82%	17	23	28
342	DDX	DIALLEL 80-3, ID# 9421740	28	61%	82%	17	23	28
332	DDX	DIALLEL 80-4, ID# 9421721	30	60%	63%	18	19	30
307	DDX	DIALLEL 80-4, ID# 9421545	26	58%	65%	15	17	26
327	DDX	DIALLEL 80-2, ID# 9421624	28	57%	61%	16	17	28
106	Coast Parent	Parent tree 461 (coastal)	27	56%	74%	15	20	27
317	DDX	DIALLEL 80-2, ID# 9421597	27	56%	74%	15	20	27
333	DDX	DIALLEL 80-4, ID# 9421722	28	54%	54%	15	15	28
204	DF1	Parent trees 360X21079 Cross	25	52%	76%	13	19	25
74			29	52%	79%	15	23	29
318	DDX	DIALLEL 80-2, ID# 9421608	29	52%	72%	15	21	29
331	DDX	DIALLEL 80-4, ID# 9421715	28	50%	50%	14	14	28
208	DF1	Parent trees 183X21095 Cross	27	48%	67%	13	18	27
308	DDX	DIALLEL 80-4, ID# 9421546	26	12%	38%	3	10	26
228	F1	Parent trees 126X137 Cross	27	11%	44%	3	12	27
237	DF1	Parent trees 21142X145 Cross	28	11%	32%	3	9	28
213	F1	Parent trees 120X47 Cross	29	10%	24%	3	7	29
221	DF1	Parent trees 21145X640 Cross	29	10%	41%	3	12	29
338	DDX	DIALLEL 80-3, ID# 9421734	29	10%	31%	3	9	29
344	DDX	DIALLEL 80-3, ID# 9421743	24	8%	46%	2	11	24
217	F1	Parent trees 239X640 Cross	25	8%	40%	2	10	25
231	F1	Parent trees 372X128 Cross	26	4%	23%	1	6	26
337	DDX	DIALLEL 80-3, ID# 9421733	26	4%	31%	1	8	26
314	DDX	DIALLEL 80-4, ID# 9421594	28	4%	36%	1	10	28
239	Coast Parent	Parent tree 47 OP	29	3%	31%	1	9	29
236	DF1	Parent trees 21142X47 Cross	26	0%	27%	0	7	26
305	DDX	DIALLEL 80-1, ID# 9421521	28	0%	29%	0	8	28



Dr Bohun Kinloch, jr, USDA Forest Service ret'd







Sclereid cells strongly
implicated in resistance





2008 Crop \$0 195

3.45 kilos sales to U.S.

27 grams sales in B.C.

2008 Crop Bulk BQ

5.18 kilos sales to U.S.

10 grams sales in B.C.



Hemtic Lands



Difference in Land Tenure

- ❖ Public land also – DNR – ODF
- ❖ Requirements to provide revenue

Experience with Swiss Needle Cast



Dothistroma in Northwest



New Asian Markets

- ❖ White low figure wood

- ❖ Metric dimensions

