

FRI/INDUSTRY RESEARCH COOPERATIVES

EUCALYPT BREEDING COOPERATIVE

**FOREST RESEARCH INSTITUTE
PRIVATE BAG 3020
ROTORUA**

**Eucalypt trials established 1993 - 1996
by the Eucalypt Breeding Cooperative**

G.T.Stovold

REPORT NO 22 MARCH 1997

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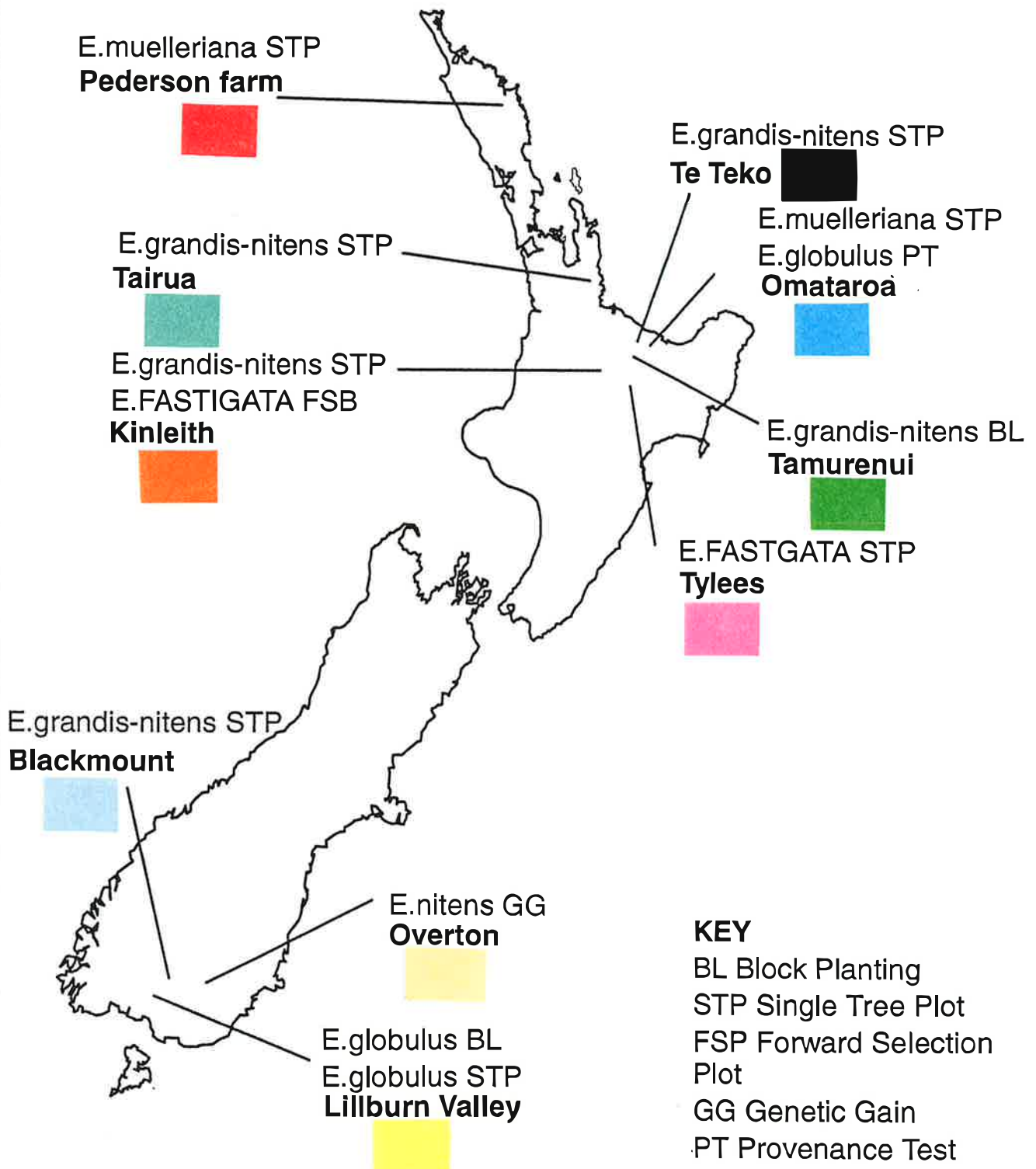
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EUCALYPT TRIALS ESTABLISHED 1993 - 1996 BY THE EUCALYPT BREEDING COOPERATIVE

ABSTRACT

This report summarises the location, layout and genetic content of eucalypt experiments established from 1993-1996 by the Eucalypt Breeding Cooperative.

EUCALPT BREEDING COOPERATIVE EXPERIMENTS ESTABLISHED 1993-1996



NOTE: CAPITAL LETTERS = MAJOR BREEDING POPULATION TRIAL

CONTENTS

Overall Trial Location Map

Summary of Trials By Year of Establishment

TRIAL AREAS

Pederson Farm
Omataroa Forest
Lillburn Valley
Tairua Forest
Te Teko Seed Orchard
Kinleith Forest
Sim Block, Blackmount
Tamurenui
Tylees Block
Overton Block

Trial Information
Location Map
Trial Description Sheet
Trial Layout Map
Tree position map

EUCALYPT BREEDING TRIALS ESTABLISHED 1993- 1996

1993

E. muelleriana **An open pollinated breeding population**

Expt No. **FR210/1** Pederson Farm

Expt No. **FR210/2** Omataroa Forest- P.F.Olsen Ltd

48 families, 2 sets, 30 reps

Single Tree Plot

E. globulus **An open pollinated provenance test**

Expt No. **FR211/1** Omataroa Forest- P.F.Olsen Ltd

Expt No. **FR211/2** Lillburn - South Wood Export Ltd

14 Seedlots, 20 tree blocks, 3 reps

Expt No. **FR211/3** Lillburn - South Wood Export Ltd

14 Seedlots, Single Tree Plot, 30 reps

1994

E. grandis-nitens **Inter-species hybrid trial**

Expt No **FR239/1** Tairua Forest - Carter Holt Harvey Forests Ltd

Expt No **FR239/2** Te Teko - Fletcher Challenge Forests Ltd

Expt No **FR239/3** Atiamuri - Carter Holt Harvey Forests Ltd

Expt No **FR239/4** Sim block, Blackmount - Southwood Export Ltd

40 families, Single tree Plot, 8 or 9 reps

demonstration row plots at FR239/2 and FR239/4

Inter-species hybrid blocks

Expt No **FR238** Tamarenuui - Tasman Forest Industries Ltd

13 seedlots, 25 tree block plantings, 1 to 8 reps

EUCALYPT BREEDING TRIALS ESTABLISHED 1993- 1996

1994

E. fastigata

Sublined Family Selection plantings

Expt No **FR237** Kinleth - Carter Holt Harvey Forests Ltd

180 families, 6 sublines, 8 tree row plots, 6 reps

1995

E. fastigata

An open pollinated breeding population

Expt No **FR273** Tylees block - Tasman Forest Industries Ltd

180 families, 6 sets, 32 reps, Single Tree Plot

1996

E. nitens

Genetic Gain Trial

Expt No **FR304** Overton Block -South Wood Export Ltd

8 seedlots, 64 tree plots, 6 reps

PEDERSON FARM

J and C Pederson

FOREST OWNER:	J & C Pedersen	EXPT. No.:	FR 210/1
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EXPT. No.: FR 210/1

CPT.:

PHONE: 09 433 1886

FAX:

CONTROLLING AGENCY: FRI-Genetics and Tree Improvement/Special Purpose Species

FRI CORR. File:

PURPOSE: To compare Provenance lots of *E.muelleriana*

LATITUDE:	35°43 '	LONGITUDE:	173°55 '
ALTITUDE:	120m	ASPECT:	NE
		SLOPE:	10 - 25°

LONGITUDE: 173°55'

SLOPE: 10 - 25°

GROUND PREPARATION: Prevoiusly rotary hoed.

PREVIOUS USE: Farming

PREVIOUS USE: Farming

SPECIES:	E.muelleriana	STOCK:	root trainer	DATE PLANTED:	May 1993
# OF PLOTS:	60	SIZE OF PLOTS:	10.8 x 18m	SPACING:	2.7 x 3m
TOTAL AREA:	1.16ha	DEMARCATATION:	Numbered posts		

DATE PLANTED: May 1993

SPACING: 2.7 x 3m

DEMARCATIION: Numbered posts

single tree plots design with 2 sets in reps design

To be kept weed free for the first two years

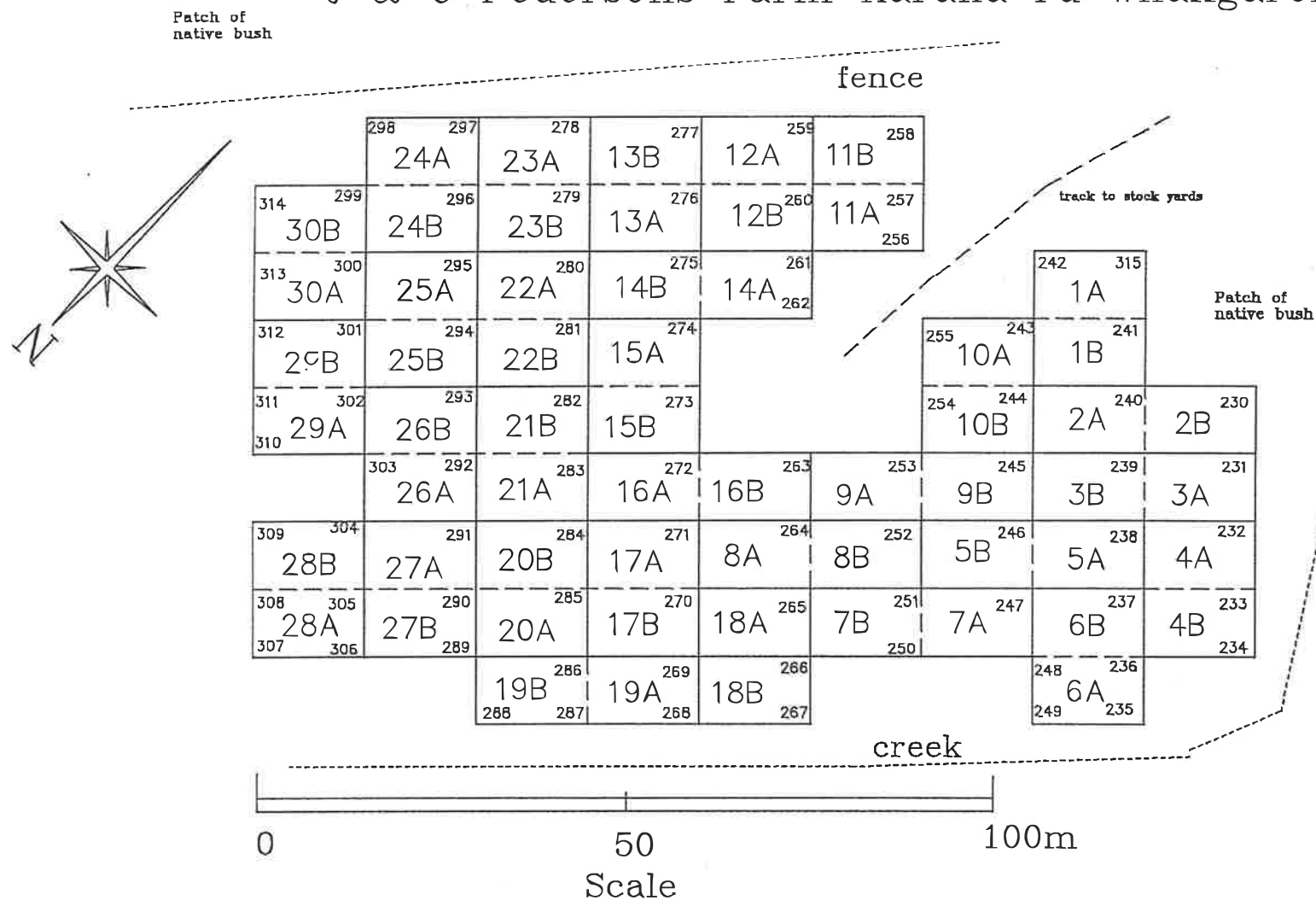
PERMANENCY:

- Trial register sheet
- Location map
- Plot layout map
- Single-tree-plot maps
- Provenances by set

Map no 527

1993 E.Muelleriana Provenance Test
FR 210/1 WP 2132

J & C Pedersons Farm Karaka rd Whangarei.



May 93

SET COMPOSITION FOR E.MUELLERIANA PROGENY TRIAL 1992
SET A

CODE	SPECIES	AUST CODE	LOCATION	PROVENANCE	SEEDLOT NO.
313	eumul	tree sr000313	Mount Kembla	NSW	15295
314	eumul	tree sr000314	Mount Kembla	NSW	15295
322	eumul	tree sr000322	Batemans Bay	NSW	15296
323	eumul	tree sr000323	Batemans Bay	NSW	15296
324	eumul	tree sr000324	Batemans Bay	NSW	15296
325	eumul	tree sr000325	Batemans Bay	NSW	15296
326	eumul	tree sr000326	Batemans Bay	NSW	15296
327	eumul	tree sr000327	Batemans Bay	NSW	15296
328	eumul	tree sr000328	Batemans Bay	NSW	15296
329	eumul	tree sr000329	Batemans Bay	NSW	15296
330	eumul	tree sr000330	Batemans Bay	NSW	15296
376	eumul	tree sr000376	Yarram Po	Victoria	15299
377	eumul	tree sr000377	Yarram Po	Victoria	15299
378	eumul	tree sr000378	Yarram Po	Victoria	15299
379	eumul	tree sr000379	Yarram Po	Victoria	15299
452	eumul	tree sr000452	Narooma Po	NSW	15306
453	eumul	tree sr000453	Narooma Po	NSW	15306
454	eumul	tree sr000454	Narooma Po	NSW	15306
455	eumul	tree sr000455	Narooma Po	NSW	15306
456	eumul	tree sr000456	Narooma Po	NSW	15306
457	eumul	tree sr000457	Narooma Po	NSW	15306
458	eumul	tree sr000458	Narooma Po	NSW	15306
459	eumul	tree sr000459	Narooma Po	NSW	15306
460	eumul	tree sr000460	Narooma Po	NSW	15306
1	eumul	8/0/83/19			
2	eumul	9/0/85/159			

SET COMPOSITION FOR E.MUELLERIANA PROGENY TRIAL 1992

SET B

CODE	SPECIES	AUST CODE	LOCATION	PROVENANCE	SEEDLOT NO.
380	eumul	tree sr000380	Yarram Po	Victoria	15299
381	eumul	tree sr000381	Yarram Po	Victoria	15299
382	eumul	tree sr000382	Yarram Po	Victoria	15299
383	eumul	tree sr000383	Yarram Po	Victoria	15299
385	eumul	tree sr000385	Yarram Po	Victoria	15299
386	eumul	tree sr000386	Bruthen Po	Victoria	15300
387	eumul	tree sr000387	Bruthen Po	Victoria	15300
388	eumul	tree sr000388	Bruthen Po	Victoria	15300
389	eumul	tree sr000389	Bruthen Po	Victoria	15300
390	eumul	tree sr000390	Bruthen Po	Victoria	15300
394	eumul	tree sr000394	Bruthen Po	Victoria	15300
395	eumul	tree sr000395	Bruthen Po	Victoria	15300
429	eumul	tree sr000429	Cann R Po	Victoria	15304
431	eumul	tree sr000431	Cann R Po	Victoria	15304
432	eumul	tree sr000432	Cann R Po	Victoria	15304
433	eumul	tree sr000433	Cann R Po	Victoria	15304
434	eumul	tree sr000434	Cann R Po	Victoria	15304
435	eumul	tree sr000435	Cann R Po	Victoria	15304
436	eumul	tree sr000436	Cann R Po	Victoria	15304
437	eumul	tree sr000437	Cann R Po	Victoria	15304
443	eumul	tree sr000443	Genoa Po	Victoria	15305
445	eumul	tree sr000445	Genoa Po	Victoria	15305
446	eumul	tree sr000446	Genoa Po	Victoria	15305
448	eumul	tree sr000448	Genoa Po	Victoria	15305
2	eumul	9/0/85/159			

Map No. 527 c

1 A						1 B					
242					315	243					241
328	330	326	455	2	379	388	445	387	443	386	431
325	458	459	457	453	327	446	448	437	395	383	432
314	454	323	322	378	1	436	389	380	434	433	381
313	452	456	329	460	324	382	2	435	390	394	385
243					241	244					240

2 A						2 B					
244					240	240					230
460	458	324	314	379	327	446	389	434	388	395	432
329	330	455	326	457	453	433	383	435	448	443	390
322	454	325	323	1	313	382	386	431	387	437	394
2	328	452	459	456	378	2	436	381	445	380	385
245					239	239					231

3 A						3 B					
239					231	245					239
325	452	327	313	456	379	395	431	385	436	394	446
314	455	459	324	323	330	434	443	390	386	432	389
328	326	1	457	329	322	388	380	445	381	2	382
458	378	453	454	460	2	387	435	433	437	448	383
238					232	246					238

4 A						4 B					
238					232	237					233
454	325	460	329	378	1	436	383	435	448	380	385
452	323	327	459	313	458	446	386	445	434	443	431
328	314	379	453	457	324	389	382	394	432	395	390
330	455	2	326	456	322	433	2	388	387	381	437
237					233	236					234

5 A						5 B					
246					238	252					246
456	322	314	379	454	324	437	385	383	436	382	448
327	326	452	328	453	313	394	434	390	431	433	2
325	1	378	458	323	460	435	395	445	443	380	446
457	455	459	330	2	329	432	386	381	389	388	387
247					237	251					247

6 A						6 B					
248					236	247					237
456	325	328	378	453	324	382	2	381	380	434	385
458	323	452	459	1	460	436	445	390	394	431	435
330	326	327	454	313	329	446	386	388	432	437	443
314	322	455	379	457	2	383	433	389	395	448	387
249					235	248					236

7 A						7 B					
251					247	265					251
324	330	452	323	454	328	436	389	383	385	390	386
460	459	457	325	314	458	382	381	388	435	437	395
329	378	455	456	326	313	445	446	2	380	432	431
327	322	453	2	1	379	433	387	443	448	394	434
250					248	266					250

8 A						8 B					
271					264	264					252
328	314	453	458	456	324	436	381	437	432	380	446
379	457	1	323	2	460	387	395	445	385	383	448
452	313	327	455	322	329	382	386	2	433	394	435
454	326	325	330	459	378	389	390	434	443	431	388
270					265	265					251

9 A						9 B					
263					253	253					245
378	328	330	1	453	2	390	383	389	432	434	386
325	458	452	329	457	324	388	446	436	448	435	395
455	313	323	314	460	322	394	433	2	437	380	385
454	327	456	379	326	459	443	445	382	381	431	387
264					252	252					246

10 A						10 B					
255					243	254					244
325	323	459	452	329	454	2	390	387	380	395	381
328	453	330	1	458	327	433	394	389	434	435	432
326	460	457	313	2	379	446	382	448	383	386	385
455	324	456	314	322	378	445	436	437	431	443	388
254					244	253					245

1993 E. muelleriana Provenance Trial FR210_1 WP2132
Replications 1 to 10 Sets A to B

Map No. 527 d

11 A						11 B					
260					257	259					258
452	2	323	460	329	378	434	435	432	387	389	443
458	314	326	324	453	322	386	385	2	445	436	388
454	457	313	456	1	325	381	395	390	433	383	394
328	330	379	459	455	327	380	431	446	448	437	382
261					256	260					257

12 A						12 B					
277					259	276					260
452	313	454	330	327	378	434	387	381	380	446	389
326	457	322	456	453	324	395	443	433	437	436	383
328	323	1	314	455	460	382	432	385	394	448	445
325	2	329	458	459	379	431	386	435	390	388	2
276					260	275					261

13 A						13 B					
279					276	278					277
378	455	456	457	454	326	436	443	381	2	437	383
327	323	328	453	325	458	380	386	389	388	387	390
460	324	1	379	330	322	434	385	448	394	382	433
2	314	329	452	313	459	431	395	435	432	445	446
280					275	279					276

14 A						14 B					
275					261	280					275
313	314	459	379	323	329	380	382	388	2	435	443
327	325	457	324	454	2	394	383	389	437	395	381
452	328	322	460	330	326	385	387	436	390	446	432
378	456	1	455	458	453	386	445	448	434	431	433
274					262	281					274

15 A						15 B					
281					274	282					273
313	314	455	326	379	460	388	387	380	386	390	382
378	457	322	454	329	459	446	434	432	443	448	445
330	327	323	453	456	325	394	395	435	2	389	433
452	328	458	1	2	324	381	431	385	436	437	383
282					273	283					272

16 A						16 B					
283					272	272					263
379	378	324	458	454	313	381	2	386	446	389	380
314	459	456	1	328	330	382	433	385	443	448	394
460	455	457	326	325	452	387	383	432	388	431	390
2	453	323	329	322	327	445	437	435	436	395	434
284					271	271					264

17 A						17 B					
284					271	285					270
313	329	460	325	1	2	386	380	434	437	446	445
324	328	327	330	323	456	432	394	395	448	436	388
379	458	457	322	452	455	385	382	443	390	435	389
326	314	459	454	378	453	431	381	433	383	387	2
285					270	286					269

18 A						18 B					
270					265	269					266
458	454	379	1	378	324	433	448	435	431	2	383
328	314	326	459	453	329	382	389	432	386	436	445
452	457	2	325	327	456	434	380	390	394	443	388
330	313	323	455	460	322	381	395	437	385	387	446
269					266	268					267

19 A						19 B					
286					269	289					286
454	457	455	379	1	322	433	446	448	389	437	381
328	329	460	327	313	378	388	387	443	390	432	386
452	2	456	323	330	453	383	435	436	431	434	380
458	314	324	325	326	459	445	2	382	394	385	395
287					268	288					287

20 A						20 B					
290					285	291					284
455	330	460	313	329	325	387	443	435	433	436	437
326	314	324	458	454	456	381	431	394	383	382	446
453	322	2	452	328	379	380	388	386	448	389	445
457	1	378	327	459	323	390	385	434	2	395	432
289					286	290					285

1993 E. muelleriana Provenance Trial FR210_1 WP2132
Replications 11 to 20 Sets A to B

Map No. 527 e

21 A					21 B				
292				283	293				282
328	1	314	323	322 458	380	394	437	383	382 446
326	457	453	378	324 454	385	381	390	435	436 389
379	460	313	329	452 2	386	448	395	432	2 445
325	455	459	456	330 327	433	434	443	431	387 388
291				284	292				283

22 A					22 B				
295				280	294				281
452	326	457	459	329 460	445	436	387	435	431 448
330	455	379	328	453 327	2	433	389	437	432 434
313	378	323	456	324 1	446	383	382	386	380 394
454	458	2	325	322 314	388	443	395	390	385 381
294				281	293				282

23 A					23 B				
297				278	296				279
329	324	322	457	458 330	389	395	385	446	432 448
460	378	379	459	328 325	387	431	388	434	381 435
453	327	323	455	314 456	2	443	382	383	437 436
2	1	326	452	454 313	433	390	380	394	386 445
296				279	295				280

24 A					24 B				
298				297	299				296
458	460	314	456	455 324	390	387	383	431	437 433
323	452	459	322	327 453	448	389	445	385	395 380
454	378	326	330	325 379	446	382	388	386	443 394
1	457	328	329	2 313	436	432	2	381	435 434
299				296	300				295

25 A					25 B				
300				295	301				294
455	378	379	459	456 1	383	382	445	432	394 395
325	452	326	324	327 453	389	387	443	431	381 433
458	328	460	323	322 313	388	386	434	435	385 380
330	454	2	314	457 329	436	446	2	448	437 390
301				294	302				293

26 A					26 B				
303				292	302				293
458	313	379	328	378 457	436	448	445	395	443 390
2	452	456	1	323 330	389	381	380	385	435 383
325	324	460	329	327 454	388	387	437	434	431 386
455	326	314	322	459 453	446	433	382	432	394 2
304				291	303				292

27 A					27 B				
304				291	305				290
454	1	314	327	326 460	382	433	436	2	437 448
459	453	324	329	458 452	445	388	386	380	443 381
313	2	379	456	330 378	446	389	431	385	394 435
323	455	322	457	328 325	387	434	390	395	432 383
305				290	306				289

28 A					28 B				
308				305	309				304
460	454	458	325	1 379	380	2	448	445	383 390
327	330	322	313	452 323	395	436	389	381	385 435
457	314	453	456	2 455	437	388	433	434	446 432
326	328	459	324	378 329	443	387	394	386	382 431
307				306	308				305

29 A					29 B				
311				302	312				301
313	328	452	329	325 1	2	435	432	390	383 387
314	2	457	379	330 323	394	431	395	437	448 446
327	460	326	458	378 322	382	386	443	434	389 445
455	459	324	454	453 456	433	380	385	381	388 436
310				303	311				302

30 A					30 B				
313				300	314				299
314	2	379	322	453 329	387	437	436	443	435 395
455	313	325	459	378 330	2	388	445	380	432 431
452	457	327	458	460 454	383	381	389	434	390 394
323	1	324	456	326 328	446	433	386	382	448 385
312				301	313				300

OMATAROA FOREST

P.F. Olsen Ltd

TRIAL DESCRIPTION SHEET

FOREST OWNER: P F Olsen Ltd**EXPT. No.:** FR 210/2**FOREST:** Omataroa**CPT.:** 3**CONTACT PERSON:** Craig Wilson**PHONE:** 073574135**FAX:****CONTROLLING AGENCY:** FRI-Genetics and Tree Improvement/Special Purpose Species**WORK PLAN #:** 2132 **PROJECT:** GTI 44/13 **FRI CORR. File:****PURPOSE:** To compare Provenance lots of E.muelleriana

SITE DETAILS:**LATITUDE:** 38°5'**LONGITUDE:** 176°51'**ALTITUDE:** 190**ASPECT:****SLOPE:** 0 - 5°**GROUND PREPARATION:** Deep ripped and mounded**SOIL TYPE:****PREVIOUS USE:** Forest plantation

EXPERIMENTAL DETAILS:**SPECIES:** E.muelleriana **STOCK:** Root trainer **DATE PLANTED:** Nov 1993**# OF PLOTS:** 60 **SIZE OF PLOTS:** 12 x 21.6m **SPACING:** 3 x 2.7m**TOTAL AREA:** 1.55ha **DEMARCATATION:** Numbered posts

EXPERIMENTAL DESIGN:

single tree plots design with 2 sets in reps design

PROPOSED TREATMENT:

To be kept weed free for the first two years

PROPOSED YEARS OF ASSESSMENT:**PERMANENCY:**

ATTACHMENTS:

Trial register sheet

Location map

Plot layout map

Single-tree-plot maps

Provenances by set

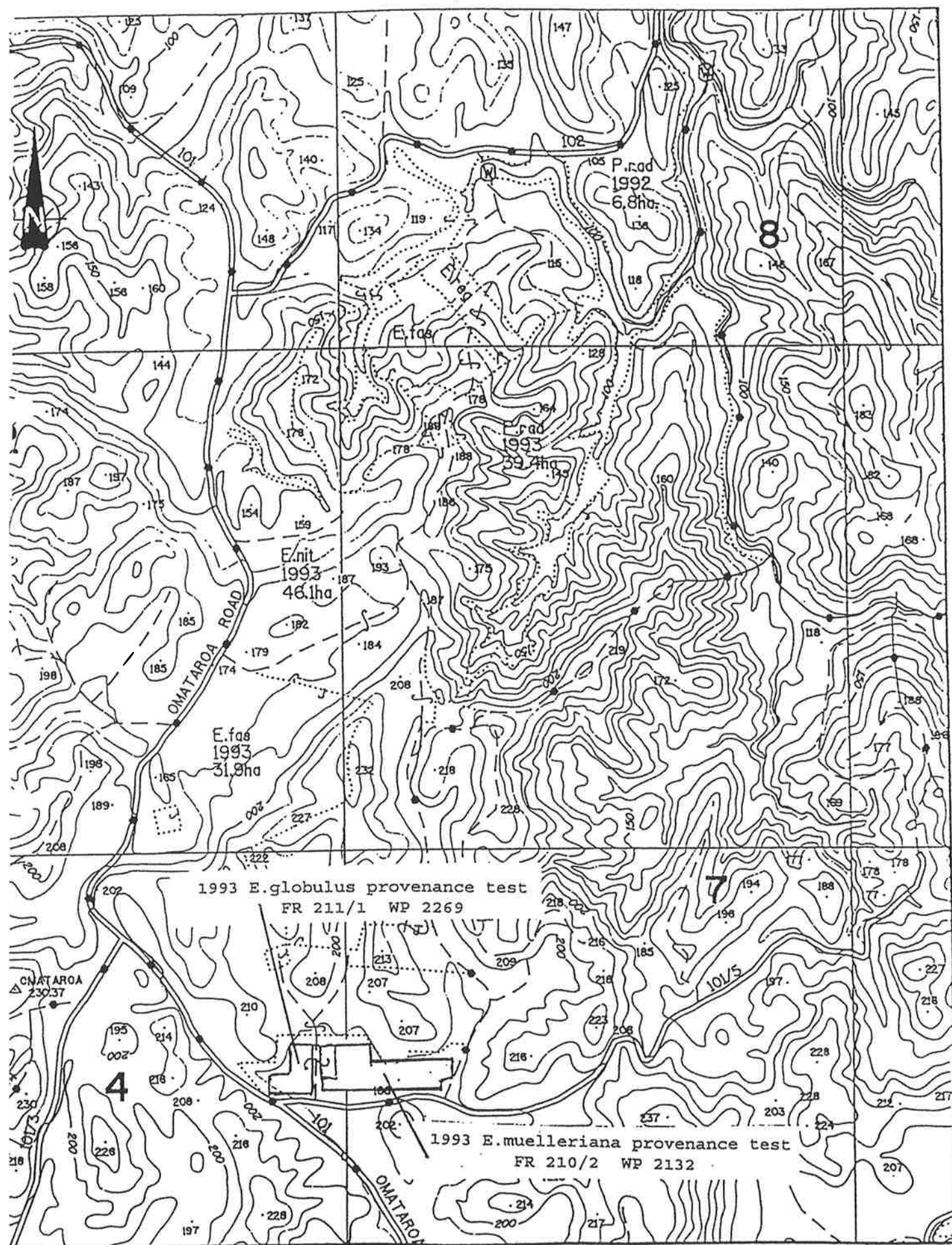
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Purpose: (100 characters maximum)

TO COMPARE PROVENANCE LOTS OF
E. MUELLERIANA

E	U	M	U	L
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GT ✓

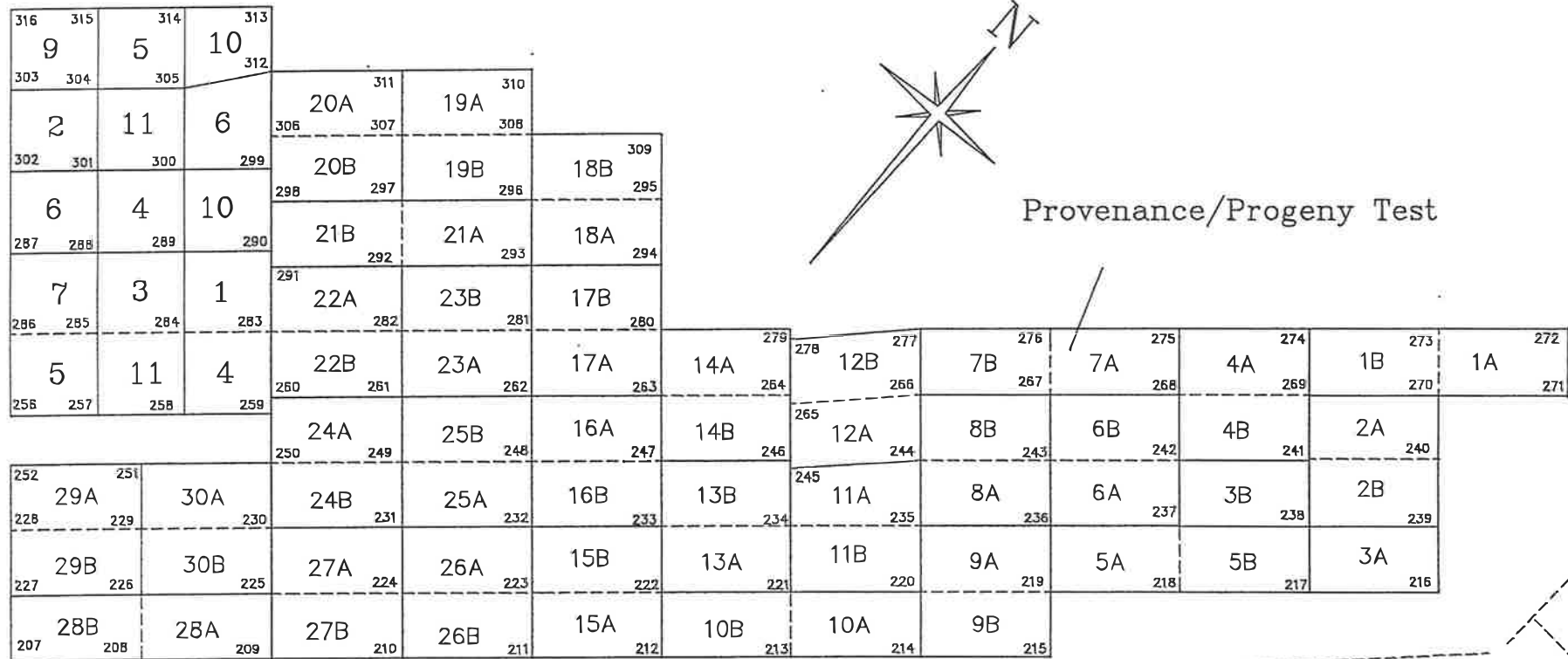


1993 E.muelleriana progeny/provenance test.

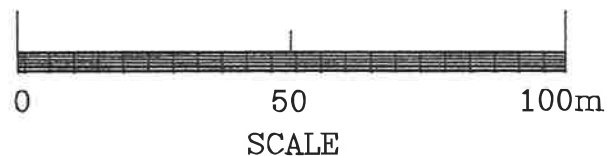
FR 210/2 WP 2132

Cpt 3 Omataroa Forest P.F.Olsen Ltd.

E. globulus
Block Plantings



<--- to Omataroa rd



Jan 94

SET COMPOSITION FOR E.MUELLERIANA PROGENY TRIAL 1992
SET A

CODE	SPECIES	AUST CODE	LOCATION	PROVENANCE	SEEDLOT NO.
313	eumul	tree sr000313	Mount Kembla	NSW	15295
314	eumul	tree sr000314	Mount Kembla	NSW	15295
322	eumul	tree sr000322	Batemans Bay	NSW	15296
323	eumul	tree sr000323	Batemans Bay	NSW	15296
324	eumul	tree sr000324	Batemans Bay	NSW	15296
325	eumul	tree sr000325	Batemans Bay	NSW	15296
326	eumul	tree sr000326	Batemans Bay	NSW	15296
327	eumul	tree sr000327	Batemans Bay	NSW	15296
328	eumul	tree sr000328	Batemans Bay	NSW	15296
329	eumul	tree sr000329	Batemans Bay	NSW	15296
330	eumul	tree sr000330	Batemans Bay	NSW	15296
376	eumul	tree sr000376	Yarram Po	Victoria	15299
377	eumul	tree sr000377	Yarram Po	Victoria	15299
378	eumul	tree sr000378	Yarram Po	Victoria	15299
379	eumul	tree sr000379	Yarram Po	Victoria	15299
452	eumul	tree sr000452	Narooma Po	NSW	15306
453	eumul	tree sr000453	Narooma Po	NSW	15306
454	eumul	tree sr000454	Narooma Po	NSW	15306
455	eumul	tree sr000455	Narooma Po	NSW	15306
456	eumul	tree sr000456	Narooma Po	NSW	15306
457	eumul	tree sr000457	Narooma Po	NSW	15306
458	eumul	tree sr000458	Narooma Po	NSW	15306
459	eumul	tree sr000459	Narooma Po	NSW	15306
460	eumul	tree sr000460	Narooma Po	NSW	15306
1	eumul	8/0/83/19			
2	eumul	9/0/85/159			

SET COMPOSITION FOR E.MUELLERIANA PROGENY TRIAL 1992
SET B

CODE	SPECIES	AUST CODE	LOCATION	PROVENANCE	SEEDLOT NO.
380	eumul	tree sr000380	Yarram Po	Victoria	15299
381	eumul	tree sr000381	Yarram Po	Victoria	15299
382	eumul	tree sr000382	Yarram Po	Victoria	15299
383	eumul	tree sr000383	Yarram Po	Victoria	15299
385	eumul	tree sr000385	Yarram Po	Victoria	15299
386	eumul	tree sr000386	Bruthen Po	Victoria	15300
387	eumul	tree sr000387	Bruthen Po	Victoria	15300
388	eumul	tree sr000388	Bruthen Po	Victoria	15300
389	eumul	tree sr000389	Bruthen Po	Victoria	15300
390	eumul	tree sr000390	Bruthen Po	Victoria	15300
394	eumul	tree sr000394	Bruthen Po	Victoria	15300
395	eumul	tree sr000395	Bruthen Po	Victoria	15300
429	eumul	tree sr000429	Cann R Po	Victoria	15304
431	eumul	tree sr000431	Cann R Po	Victoria	15304
432	eumul	tree sr000432	Cann R Po	Victoria	15304
433	eumul	tree sr000433	Cann R Po	Victoria	15304
434	eumul	tree sr000434	Cann R Po	Victoria	15304
435	eumul	tree sr000435	Cann R Po	Victoria	15304
436	eumul	tree sr000436	Cann R Po	Victoria	15304
437	eumul	tree sr000437	Cann R Po	Victoria	15304
443	eumul	tree sr000443	Genoa Po	Victoria	15305
445	eumul	tree sr000445	Genoa Po	Victoria	15305
446	eumul	tree sr000446	Genoa Po	Victoria	15305
448	eumul	tree sr000448	Genoa Po	Victoria	15305
2	eumul	9/0/85/159			

Map No. 528 c

1 A				1 B			
272			271	273			270
459	376	2	307	3	442	436	430
460	458	313	454	387	432	381	392
329	384	331	327	444	382	388	434
457	3	310	452	394	438	385	386
456	330	324	322	443	446	391	445
326	377	314	312	440	390	437	383
379	378	451	323	393	380	395	448
309	328	325	455	2	433	431	429
273			270	274			269

2 A				2 B			
270			240	240			239
455	2	326	324	2	430	445	381
384	328	376	331	380	388	390	432
458	3	310	451	392	387	385	382
377	460	454	309	440	383	434	443
378	327	325	459	444	446	442	395
456	457	323	313	3	433	438	391
322	329	307	314	393	436	437	448
379	330	312	452	431	386	394	429
269			241	241			238

3 A				3 B			
239			216	241			238
325	329	460	313	381	445	434	442
376	312	323	307	392	386	387	385
379	327	3	2	446	436	432	388
322	330	459	310	444	431	438	391
458	378	326	324	433	390	443	429
377	454	328	309	3	393	380	448
451	384	455	331	2	430	437	395
456	457	452	314	440	383	394	382
238			217	242			237

4 A				4 B			
274			269	269			241
327	313	451	456	433	434	448	385
376	314	452	322	446	430	381	429
457	324	3	454	393	440	390	380
329	325	2	384	3	382	444	442
323	307	460	458	383	387	388	386
310	331	312	379	436	431	391	445
459	309	378	377	437	394	395	438
455	328	330	326	2	392	432	443
275			268	268			242

5 A				5 B			
237			218	238			217
454	312	329	331	432	381	393	380
456	459	327	325	429	386	431	430
378	310	455	324	445	440	433	438
457	458	323	451	391	443	383	3
377	379	376	2	382	446	436	2
460	309	452	307	448	437	387	444
3	322	328	314	442	385	434	392
330	384	326	313	388	394	395	390
236			219	237			218

6 A				6 B			
242			237	268			242
325	312	457	459	381	443	433	432
331	454	452	378	382	380	393	436
307	313	327	384	434	388	390	444
314	455	376	379	438	437	430	392
2	328	456	3	391	431	446	448
310	309	322	377	429	445	386	383
324	451	458	326	442	387	3	2
330	323	460	329	395	385	440	394
243			236	267			243

1993 E.muelleriana Provenance trial, Cpt 3 Omataroa Forest FR 210_2 WP 2132
Replications 1 to 6 Sets A to B

Map No. 528 d

7 A				7 B			
275			268	276			267
327	376	460	377	438	445	3	385
307	451	378	455	395	430	433	388
310	457	329	312	448	443	381	436
309	2	458	314	437	442	431	380
459	452	384	456	394	391	446	434
326	454	3	379	392	383	444	382
325	324	328	322	440	2	432	429
313	330	331	323	390	386	393	387
276			267	277			266

8 A				8 B			
243			236	267			243
325	322	379	457	385	390	380	395
313	3	327	2	381	432	446	442
331	452	460	326	393	437	436	429
324	309	378	312	433	387	3	391
323	455	307	456	2	392	448	443
330	376	384	314	383	430	386	388
328	310	377	329	444	431	382	438
459	451	454	458	440	434	394	445
244			235	266			244

9 A				9 B			
236			219	219			215
307	456	454	325	436	433	446	395
378	326	327	312	391	382	386	380
455	460	323	376	443	442	383	437
2	322	313	452	431	430	444	438
384	329	458	328	394	385	432	440
377	310	457	459	381	3	429	434
451	3	331	330	2	392	445	448
379	314	309	324	393	387	388	390
235			220	220			214

10 A				10 B			
220			214	221			213
457	456	451	378	383	395	393	2
309	325	452	2	437	434	380	392
328	377	330	329	443	391	445	388
379	460	376	458	436	387	448	385
3	314	324	307	438	432	431	3
454	459	313	310	386	382	381	446
323	327	326	322	429	390	440	430
384	312	331	455	442	433	444	394
221			213	222			212

11 A				11 B			
244			235	235			220
325	460	376	458	392	445	381	444
328	379	329	314	395	448	385	393
323	312	307	2	394	431	380	433
330	454	3	378	430	388	383	382
457	459	451	310	442	434	2	440
313	327	326	377	432	438	446	3
324	455	309	322	429	386	387	390
331	384	452	456	391	437	443	436
245			234	234			221

12 A				12 B			
266			244	277			266
378	326	328	324	3	386	445	443
310	455	312	313	2	436	438	434
454	452	451	330	433	430	448	446
322	327	331	309	432	391	385	394
456	314	376	458	392	429	383	381
384	460	325	457	395	444	387	431
377	3	307	379	393	440	390	380
329	323	459	2	442	388	382	437
265			245	278			265

1993 E.muelleriana Provenance trial, Cpt 3 Omataroa Forest FR 210_2 WP 2132
Replications 7 to 12 Sets A to B

Map No. 528 e

13 A				13 B			
234		221		246		234	
313	451	310	327	383	448	443	429
454	309	460	307	390	446	442	393
324	376	329	384	388	381	433	3
452	331	314	377	395	387	392	445
330	326	378	2	382	432	2	444
459	322	379	457	438	431	430	385
323	3	312	455	436	434	380	386
325	456	328	458	394	437	391	440
233		222		247			233

14 A				14 B			
279		264		264		246	
312	327	377	452	391	442	394	380
314	458	3	324	395	383	436	381
457	376	325	330	432	433	385	390
313	384	455	322	438	3	392	2
331	2	329	459	434	386	382	431
451	307	378	310	393	437	429	445
309	460	456	323	388	430	446	443
328	454	379	326	444	387	448	440
280		263		263			247

15 A				15 B			
222		212		233		222	
456	309	322	307	393	385	442	380
323	327	326	324	440	392	436	381
379	2	314	325	437	433	395	438
384	457	455	331	431	444	429	443
458	310	377	312	430	448	394	445
378	313	451	452	382	2	446	432
460	454	459	328	390	386	383	388
3	329	376	330	3	387	434	391
223		211		232			223

16 A				16 B			
263		247		247		233	
378	328	452	377	393	394	438	443
313	454	310	456	2	436	430	445
455	314	309	459	444	395	383	391
451	323	2	3	3	380	448	442
329	325	376	457	431	382	385	387
379	330	322	331	446	381	437	434
458	312	326	327	390	432	429	386
384	324	460	307	440	392	433	388
262		248		248			232

17 A				17 B			
280		263		294		280	
2	454	384	323	381	440	438	430
379	307	377	459	393	385	443	383
456	314	378	376	2	446	436	434
326	452	457	328	433	382	432	380
327	458	312	310	444	387	445	391
451	322	324	325	392	390	442	431
455	460	309	330	437	394	3	388
329	3	331	313	386	395	429	448
281		262		293			281

18 A				18 B			
295		294		309		295	
309	326	451	2	442	386	393	436
310	314	452	384	382	446	433	2
307	3	312	460	387	385	440	391
455	377	323	322	395	381	444	432
331	313	324	379	443	390	394	430
454	328	327	378	448	380	434	392
376	459	457	458	438	431	445	3
325	330	329	456	429	437	388	383
296		293		308			296

1993 E.muelleriana Provenance trial, Cpt 3 Omataroa Forest FR 210_2 WP 2132
Replications 13 to 18 Sets A to B

Map No. 528 f

19 A				19 B			
310		308		308		296	
324	326	328	384	393	437	445	391
325	451	327	378	392	385	387	395
323	307	322	379	382	381	388	438
331	309	3	377	383	433	431	448
376	313	457	2	430	386	429	394
330	314	329	310	2	446	432	3
459	455	454	458	444	390	443	442
452	312	460	456	440	434	436	380
311		307		307			297

20 A				20 B			
311		307		307		297	
325	307	324	329	394	393	2	385
323	451	2	456	388	444	445	381
376	314	457	328	387	390	430	392
459	309	326	458	448	446	3	395
310	312	384	455	386	429	440	433
452	330	322	460	431	382	391	383
313	377	454	379	443	380	434	442
331	378	3	327	438	436	432	437
312		306		306			298

21 A				21 B			
296		293		297		292	
328	458	309	324	437	2	382	387
325	457	314	310	440	444	380	394
330	460	377	326	393	390	434	395
459	3	384	376	429	431	436	446
454	313	323	322	385	430	448	438
455	327	452	312	391	442	443	388
331	456	329	307	445	3	381	432
451	379	2	378	383	392	433	386
297		292		298			291

22 A				22 B			
292		282		282		261	
459	325	324	378	436	430	444	438
309	329	3	326	380	392	440	434
313	376	458	377	433	431	395	445
323	331	460	457	446	394	3	442
328	455	451	379	391	393	387	429
310	327	314	384	381	437	2	385
454	312	456	452	382	432	386	448
330	307	322	2	443	383	390	388
291		283		283			260

23 A				23 B			
281		262		293		281	
2	379	376	326	434	437	431	385
384	457	314	313	388	381	436	429
458	331	328	459	386	380	445	2
329	377	307	325	391	394	444	430
378	327	310	330	448	438	446	3
322	455	309	324	432	383	393	433
456	451	312	452	443	395	390	392
3	454	460	323	387	382	440	442
282		261		292			282

24 A				24 B			
261		249		249		231	
376	325	312	3	430	390	436	438
329	324	326	307	443	444	386	391
2	452	310	458	382	446	432	388
379	331	309	457	387	440	437	448
454	378	323	314	445	393	380	395
456	451	328	322	383	2	381	434
384	377	459	455	392	385	431	394
313	460	330	327	3	442	433	429
260		250		250			230

1993 E.muelleriana Provenance trial, Cpt 3 Omataroa Forest FR 210_2 WP 2132
Replications 19 to 24 Sets A to B

Map No. 528 g

25 A				25 B			
248		232		262		248	
376	324	328	323	2	429	446	437
307	455	456	313	442	444	445	394
327	377	2	330	391	430	431	436
325	454	312	452	392	3	386	383
459	458	460	310	393	443	448	387
322	379	309	451	433	395	382	432
326	331	378	329	440	438	388	434
314	3	384	457	385	390	380	381
249		231		261			249

26 A				26 B			
232		223		223		211	
376	329	455	330	395	434	2	442
324	457	377	452	438	381	433	392
325	327	451	323	431	443	390	448
313	456	312	328	445	388	385	444
326	459	458	379	394	436	432	446
331	384	3	454	437	382	3	440
314	460	307	378	380	430	429	393
310	322	309	2	387	383	386	391
231		224		224			210

27 A				27 B			
231		224		224		210	
456	452	3	328	390	434	430	444
458	323	310	313	436	388	391	392
455	327	378	451	448	437	440	429
384	307	324	460	380	394	387	395
459	322	326	457	385	432	3	443
325	309	329	377	383	381	442	445
330	312	379	2	433	431	386	438
376	454	331	314	393	446	382	2
230		225		225			209

28 A				28 B			
225		209		224		210	
325	330	312	314	432	446	393	391
324	451	459	376	431	385	3	382
326	454	327	377	437	429	433	444
452	331	309	457	380	386	436	2
329	328	313	384	394	383	430	442
379	307	455	458	434	390	440	438
378	310	460	2	381	387	448	392
456	323	322	3	388	445	443	395
226		208		225			209

29 A				29 B			
251		229		229		226	
2	454	322	376	445	387	444	3
377	378	456	459	385	448	432	440
455	451	325	312	381	434	430	391
379	324	329	307	443	442	446	2
458	313	331	452	394	438	436	390
457	326	3	310	386	429	382	433
327	314	328	309	437	383	392	388
384	460	330	323	431	393	395	380
252		228		228			227

30 A				30 B			
250		230		230		225	
307	312	376	322	448	381	391	442
379	455	330	451	388	434	392	433
460	313	459	457	386	443	393	383
3	327	325	377	438	432	440	430
378	454	331	458	385	387	395	444
452	309	324	2	446	431	429	390
329	328	323	384	380	394	3	445
326	314	310	456	382	437	436	2
251		229		229			226

1993 E.muelleriana Provenance trial, Cpt 3 Omataroa Forest FR 210_2 WP 2132
Replications 25 to 30 Sets A to B

FOREST OWNER:	P F Olsen Ltd	EXPT. No.:	FR 211/1
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EXPT. No.: FR 211/1

CPT.: 3

PHONE: 07 357 4135

FAX:

WORK PLAN #: 2269 **PROJECT:** GTI 44/17 **FRI CORR. File:**

SITE DETAILS:

LONGITUDE: 176 °51 '

SLOPE: 0 - 5°

SOIL TYPE: _____

EXPERIMENTAL DETAILS:

Nov 1993

SPACING: 3 x 4m

DEMARCATIION: Numbered posts

Block plantings (20 trees) of each provenance with 3 replications

To be kept weed free for the first two years

PERMANENCY:

Trial register sheet
 Location map
 Plot layout map
 Provenances list

FR

EXPT:

2/1

SUB EXPT.:

1

Forest	Compartment	P/year	Total Area (ha.)
OMATARA OA	3	1993	0.76
Landowner			
P. F. OLSA LTD.			

Purpose: (100 characters maximum)

TO COMPARE S PROVENANCE LOTS OF
E. GLOBULUS WITH OTHER SPECIES
CONTROLS

Species Codes:

EUGLO

Keywords: (up to 6 words or phrases of 35 characters)

EUCALYPTUS GLOBULUS

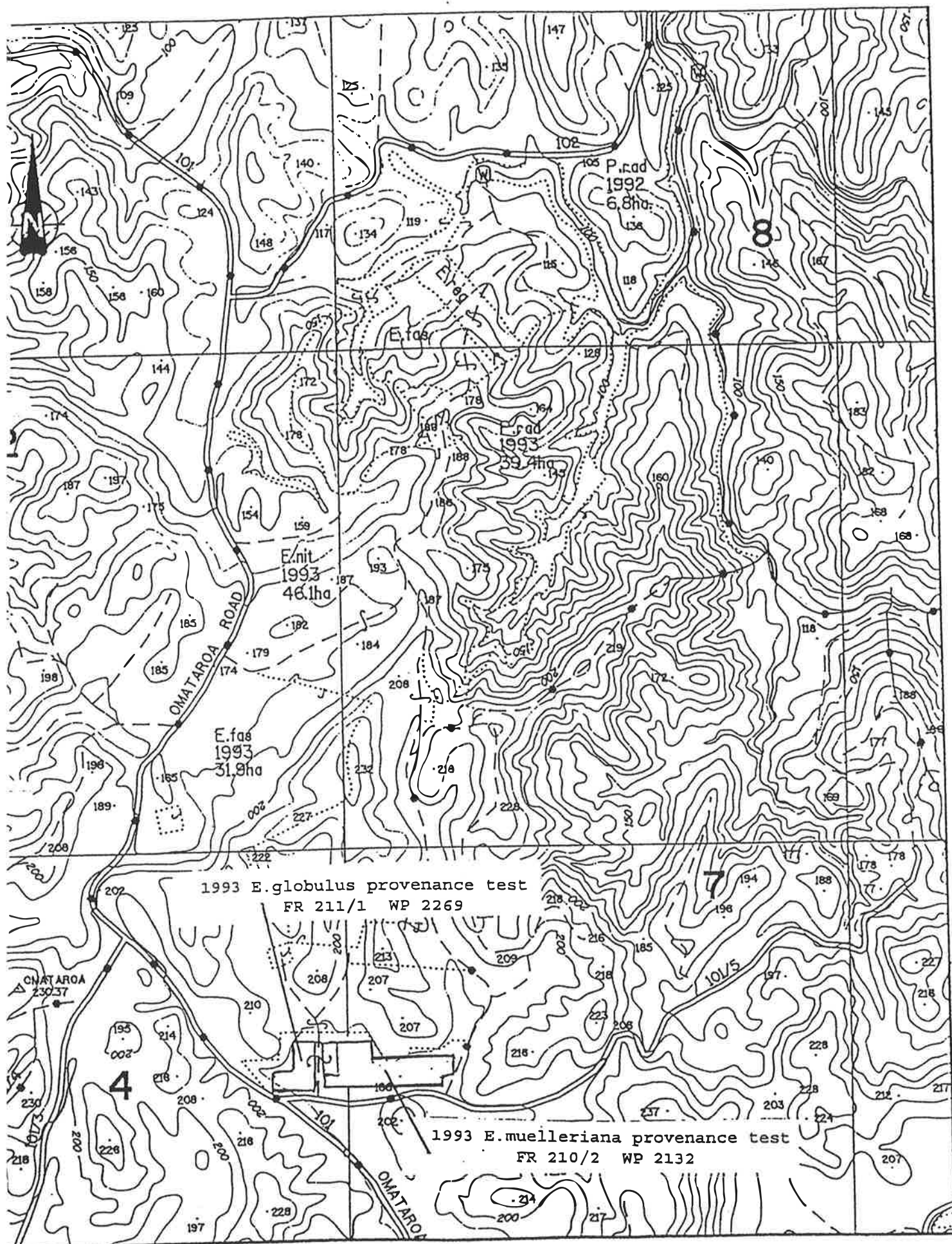
PROVENANCE

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1993			GTI		2364

Related Programs

Contact Officer:

GTI



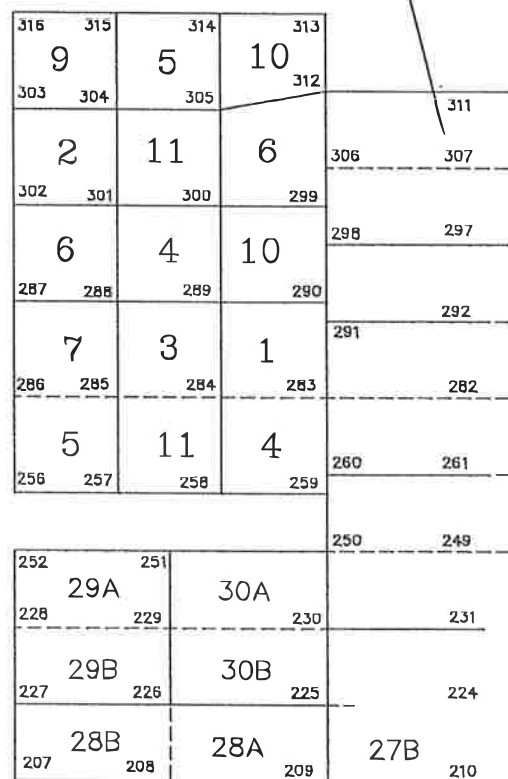
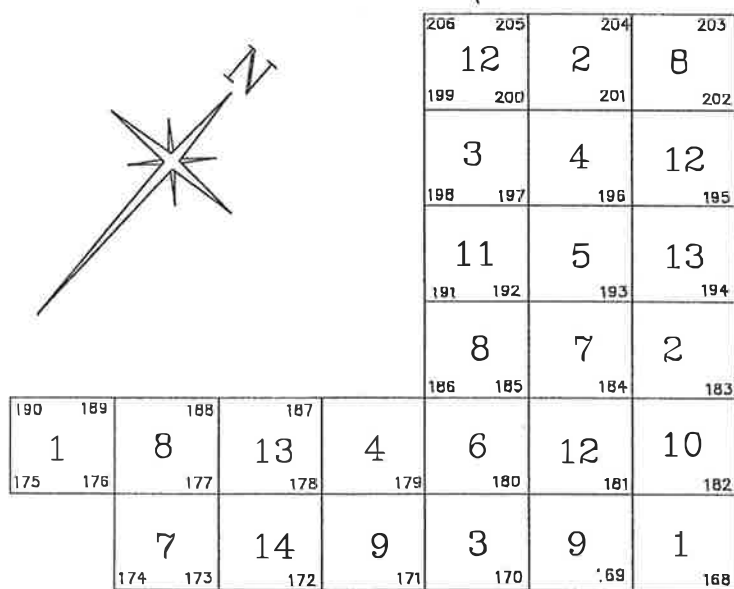
1993 E.globulus provenance block plantings

FR 211/1 WP 2269

Omataroa Forest P.F.Olsen Ltd.

E.muelleriana
Provenance/Progeny Test

Block Plantings



Omataroa rd.

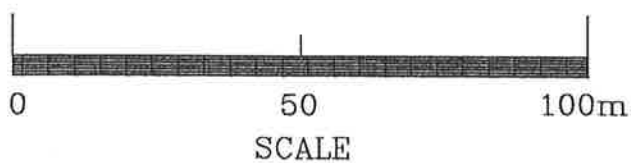


Table I. E.globulus Provenance Trial 1993

Seedlot Code	Species	Origin	Altitude (M)	Supplier	Seedlot No.
1	E.globulus ssp pseudoglobulus	Wiebens hill via Orbovic	370	Australian Tree Seed Centre	18111
2	E.globulus subsp bicostata	Nulla Mtn S.F Erylston NSW	1120	Australian Tree Seed Centre	18316
3	E.globulus subsp globulus	Strathblane, Tas	180	Australian Tree Seed Centre	18400
4	E.globulus subsp globulus	Orford, Tas	340	Australian Tree Seed Centre	18397
5	E.globulus subsp globulus	Lorne Po, Vic	200	Australian Tree Seed Centre	16405
6	E.globulus subsp globulus	Moogara, Tas	500	Australian Tree Seed Centre	16470
7	E.globulus subsp globulus	St Marys, Tas	400	Australian Tree Seed Centre	16474
8	E.globulus subsp globulus	King Island	40	Australian Tree Seed Centre	17608
9	E.globulus subsp globulus	Flinders Island, Tas	15	Australian Tree Seed Centre	17799
10	E.globulus subsp globulus	Jeeralang North	220	Australian Tree Seed Centre	16319
11	E.nitens Central Victoria	Toorong Plateau	1000	Australian Tree Seed Centre	16869
12	E.nitens New South Wales	Tallaganda S.F	1250	Australian Tree Seed Centre	16619
13	E.regnans	Tas. For. Comm		Australian Tree Seed Centre	88 / 166
14	E.fastigata	Badja Mtn, NSW	1070	Australian Tree Seed Centre	79 / 237

LILLBURN
VALLEY

South Wood
Export Ltd

FR

EXPT:

211

SUB EXPT.:

2

Forest	Compartment	P/year	Total Area (ha.)
BRYCEBURN VALLEY		1993	1.03
Landowner			
South Wood Export Ltd.			

Purpose: (100 characters maximum)

TO COMPARE 8 PROVENANCE LOTS OF E-
GLOBULUS WITH OTHER SPECIES CONTROLS

Species Codes:

EUGLO

Keywords: (up to 6 words or phrases of 35 characters)

EUCALYPTUS GLOBULUS

PROVENANCE

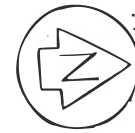
Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1993			GT 1		2209

Related
Programs

Contact Officer:

GT 1

□ Enc. nitens NSW Progeny Test (1992)



1993 E.globulus provenance test
FR 211/3 WP 2269

(CF & FC & HD King)

1993 E.globulus provenance test
FR 211/2 WP 2269

R.O.W.
(to Lillburn
Valley Road)

Bryce Burn

(McPherson Block)

LEGAL AREA = 319.7440 ha.
CORRECTION FACTOR 1.0125

SHANGRI-LA BLOCK BRYCE BURN VALLEY
(SOUTHLAND PLANTATION FOREST CO. OF NZ)

DRAWN	CHECKED	SCALE	SHP
TRACED	DATE	1:10,000	MR

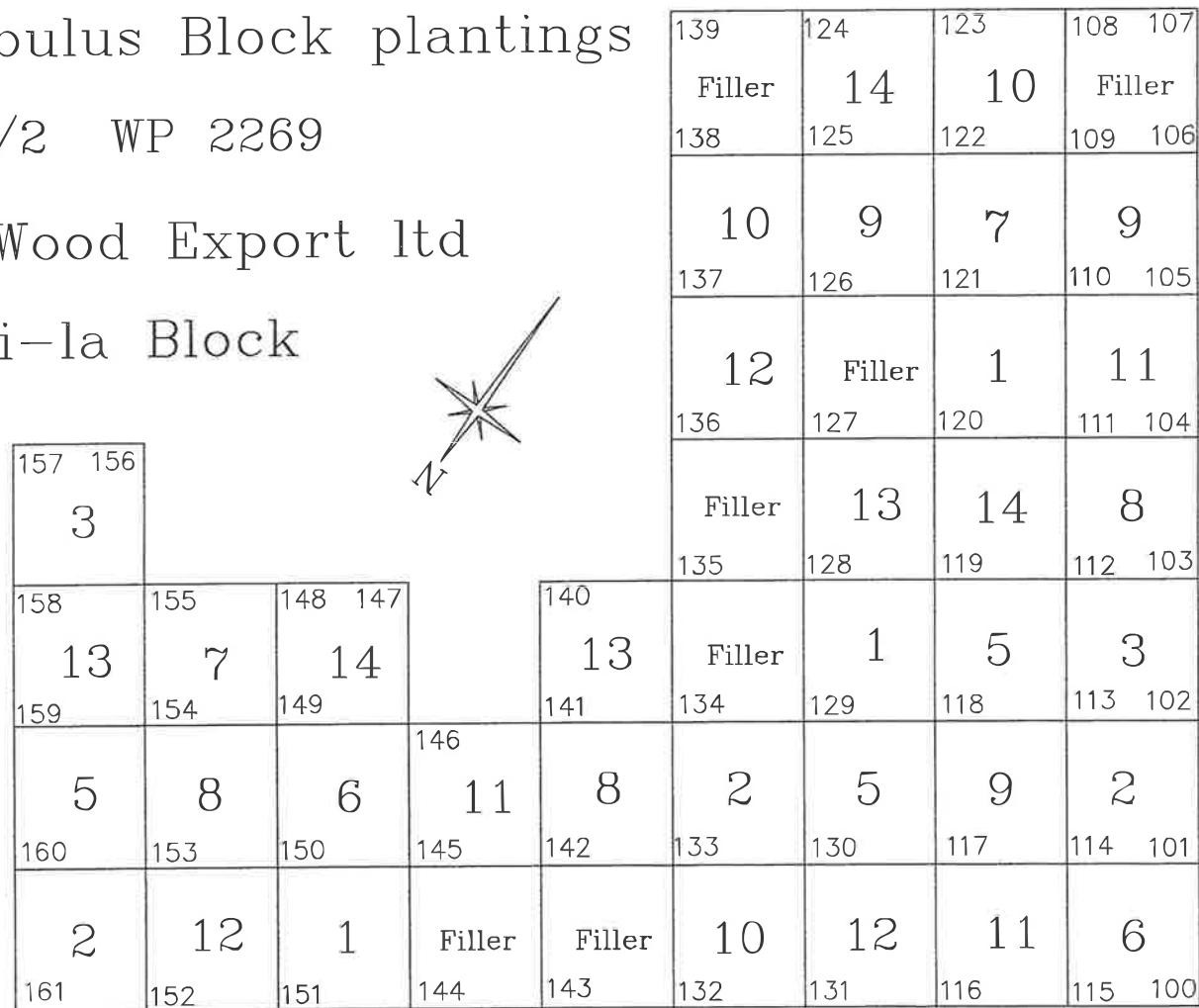
Map no 530

1993 E.globulus Block plantings

FR 211/2 WP 2269

South Wood Export ltd

Shangri-la Block



0 25 50m
Scale

Nov 93

Table I. E.globulus Provenance Trial 1993

Seedlot Code	Species	Origin	Altitude (M)	Supplier	Seedlot No.
1	E.globulus ssp pseudoglobulus	Wiebens hill via Orbovic	370	Australlan Tree Seed Centre	18111
2	E.globulus subsp bicostata	Nullo Mtn S.F Erylston NSW	1120	Australlan Tree Seed Centre	18316
3	E.globulus subsp globulus	Strathblane, Tas	180	Australlan Tree Seed Centre	18400
4	E.globulus subsp globulus	Orford, Tas	340	Australlan Tree Seed Centre	18397
5	E.globulus subsp globulus	Lorne Po, Vic	200	Australlan Tree Seed Centre	16405
6	E.globulus subsp globulus	Moogara, Tas	500	Australlan Tree Seed Centre	16470
7	E.globulus subsp globulus	St Marys, Tas	400	Australlan Tree Seed Centre	16474
8	E.globulus subsp globulus	King Island	40	Australlan Tree Seed Centre	17608
9	E.globulus subsp globulus	Flinders Island, Tas	15	Australlan Tree Seed Centre	17799
10	E.globulus subsp globulus	Jeeralang North	220	Australlan Tree Seed Centre	16319
11	E.nitens Central Victoria	Toorongo Plateau	1000	Australlan Tree Seed Centre	16869
12	E.nitens New South Wales	Tallaganda S.F	1250	Australlan Tree Seed Centre	16619
13	E.regnans	Tas. For. Comm		Australlan Tree Seed Centre	88 / 166
14	E.fastigata	Badja Mtn, NSW	1070	Australlan Tree Seed Centre	79 /237

TRIAL DESCRIPTION SHEET

FOREST OWNER: South Wood Export Ltd

EXPT. No.: FR 211/3

FOREST: Bryce Burn Valley

CPT.: Shangri-la block

CONTACT PERSON: Roger Washbourn

PHONE: 03 218 2073

FAX: 03 218 2066

CONTROLLING AGENCY: FRI-Genetics and Tree Improvement

WORK PLAN #: 2269

PROJECT:

GTI 44/17

FRI CORR. File:

PURPOSE: To compare Provenance lots of E.globulus

SITE DETAILS:

LATITUDE: 45° 57 '

LONGITUDE: 167° 40 '

ALTITUDE: 210m

ASPECT: SE

SLOPE: 10 - 25°

GROUND PREPARATION: Ripping and mounding

SOIL TYPE:

PREVIOUS USE: Farming

EXPERIMENTAL DETAILS:

SPECIES: E.globulus

STOCK: Root trainer

DATE PLANTED: Nov 1993

OF PLOTS: 16

SIZE OF PLOTS: 18 x 16m

SPACING: 3 x 4m

TOTAL AREA: 0.46

DEMARCATIION: Numbered posts

EXPERIMENTAL DESIGN:

two tree plot design with 16 replications .

PROPOSED TREATMENT:

To be kept weed free for the first two years

PROPOSED YEARS OF ASSESSMENT:1996,
1999

PERMANENCY:

ATTACHMENTS:

Trial register sheet
Location map
Plot layout map
Single-tree-plot maps
Provenance list

FR

EXPT:

211

SUB EXPT.:

3

Forest	Compartment	P/year	Total Area (ha.)
GRYCEBURN VALLEY		1993	0.46
Landowner			.
South Wood Export Ltd.			.
			.

Purpose: (100 characters maximum)

TO COMPARE & PROVENANCE LOTS OF
E. GLOBULUS WITH OTHER SPECIES
CONTROLS.

Species Codes:

EUGLO

Keywords: (up to 6 words or phrases of 35 characters)

EUCALYPTUS GLOBULUS

PROVENANCE

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1993			GTI		2367

Related Programs

Contact Officer:

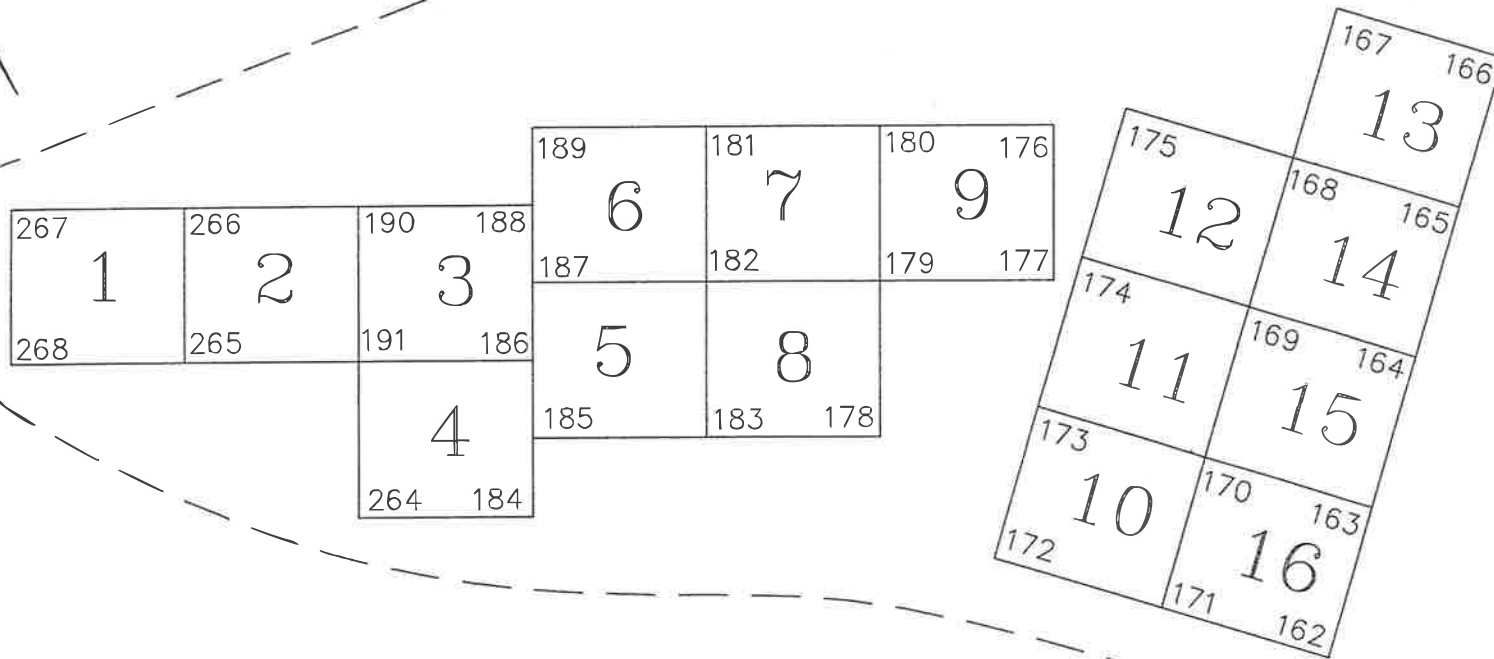
GTI

Map no 531

1993 E.globulus provenance test

South Wood Export Ltd Shangri-la Block

FR 211/3 WP 2269



1 = rep 1

0 Scale 50m

Nov 93

1 A	2 A	3 A	4 A
267	266	190	188
25 9 12 29 11 34	31 11 26 8 2 29	25 14 8 34 22 3	28 32 11 14 1 31
3 31 27 32 2 28	34 9 30 25 5 28	30 27 26 9 32 1	27 22 8 5 6 34
6 1 5 14 23 7	10 6 21 22 1 27	23 21 10 5 31 7	25 30 9 3 10 29
10 30 8 26 22 21	7 32 14 12 3 23	28 12 29 6 11 2	21 23 7 12 2 26
268	265	191	186
			264
			184
5 A	6 A	7 A	8 A
187	189	181	182
5 12 31 21 14 27	21 10 34 1 30 14	28 26 34 8 7 6	7 6 1 26 32 28
7 9 29 28 6 26	32 12 9 11 23 28	11 29 12 30 2 9	5 12 29 9 30 25
3 8 22 32 10 23	29 5 8 6 22 25	14 22 25 23 5 1	34 2 14 10 27 23
1 11 30 34 2 25	2 3 26 7 31 27	27 21 10 32 3 31	11 8 31 3 22 21
185	187	182	183
			179
			178
9 A	10 A	11 A	12 A
180	173	174	175
12 27 11 21 2 1	30 14 2 8 27 21	6 3 26 32 29 11	27 29 31 30 26 6
30 7 26 10 14 31	25 11 6 10 28 23	14 7 23 31 30 22	7 9 5 8 10 3
8 32 6 3 22 23	3 1 9 31 12 22	2 10 28 27 12 8	34 22 12 1 21 11
5 29 9 34 28 25	32 7 5 29 34 26	1 5 25 34 21 9	28 14 23 2 32 25
179	172	173	174
			169
			168
13 A	14 A	15 A	16 A
167	168	169	170
23 29 14 11 9 1	21 25 32 7 28 23	6 1 10 12 31 22	23 28 30 22 8 6
22 7 2 32 12 27	9 11 14 26 5 31	9 3 30 34 25 28	34 25 9 32 2 3
10 34 8 31 26 5	3 22 29 34 8 12	27 2 32 21 26 14	31 26 11 14 5 7
21 25 3 30 28 6	6 10 27 30 1 2	8 5 29 27 7 23	27 21 10 29 1 12
168	169	170	171
			162

1993 E.globulus provenance trial Bryce Burn Valley, South Wood Export ltd
FR 211/3 WP 2269

Table I. E.globulus Provenance Trial 1993

Seedlot Code	Species	Origin	Altitude (M)	Supplier	Seedlot No.
1	E.globulus ssp pseudoglobulus	Wiebels hill via Orbovic	370	Australian Tree Seed Centre	18111
2	E.globulus subsp bilcostata	Nullo Mtn S.F Erylston NSW	1120	Australian Tree Seed Centre	18316
3	E.globulus subsp globulus	Strathblane, Tas	180	Australian Tree Seed Centre	18400
4	E.globulus subsp globulus	Orford, Tas	340	Australian Tree Seed Centre	18397
5	E.globulus subsp globulus	Lorne Po, Vic	200	Australian Tree Seed Centre	16405
6	E.globulus subsp globulus	Moogara, Tas	500	Australian Tree Seed Centre	16470
7	E.globulus subsp globulus	St Marys, Tas	400	Australian Tree Seed Centre	16474
8	E.globulus subsp globulus	King Island	40	Australian Tree Seed Centre	17608
9	E.globulus subsp globulus	Flinders Island, Tas	15	Australian Tree Seed Centre	17799
10	E.globulus subsp globulus	Jeeralang North	220	Australian Tree Seed Centre	16319
11	E.nitens Central Victoria	Toorongo Plateau	1000	Australian Tree Seed Centre	16869
12	E.nitens New South Wales	Tallaganda S.F	1250	Australian Tree Seed Centre	16619
13	E.regnans	Tas. For. Comm		Australian Tree Seed Centre	88 / 166
14	E.fastigata	Badja Mtn, NSW	1070	Australian Tree Seed Centre	79 / 237

TAIRUA FOREST

Carter Holt
Harvey Forests Ltd

APPENDIX I

TRIAL DESCRIPTION SHEET

FOREST OWNER: CHH Forests Ltd

EXPT. No.: **FR239/1**

FOREST: Tairua

CPT.: Tiru,120

CONTACT PERSON: Richard Grimmet

PHONE: 07 865 8473

FAX: 07 865 9313

CONTROLLING AGENCY: FRI-Genetics and Tree Improvement

WORK PLAN #: 2350

PROJECT: GTI

FRI CORR. File:

PURPOSE: To compare the performance of populations of interspecific hybrids(*E.grandis* and two *E.nitens* populations),

SITE DETAILS:

LATITUDE:

LONGITUDE:

ALTITUDE:

ASPECT:

SLOPE: 0 - 5°

GROUND PREPARATION: Ripping

SOIL TYPE:

PREVIOUS USE: Ex-farmland

EXPERIMENTAL DETAILS:

SPECIES: *E.grandis*
E.nitens +
hybrid

STOCK: Root-trainer

DATE PLANTED: 11/94

OF PLOTS: 9

SIZE OF PLOTS: 24m x 17.5m

SPACING: 3 x 3.5m

TOTAL AREA: .41ha

DEMARCATIION: Numbered posts

EXPERIMENTAL DESIGN:

Nine replications of Single tree plots

PROPOSED TREATMENT:

Keep weedfree for 2 years

PROPOSED YEARS OF ASSESSMENT:

1997,2000.

PERMANANCY:

20 years

ATTACHMENTS:

Layout map, Single Tree Plot map, Stand Sheet, seedlot listing

Register of Field Experiments

FR

EXPT:

239

SUB EXPT.:

1

Forest	Compartment	P/year	Total Area (ha.)
TAIRUA	120	1994	0.41
Landowner			
CHH FORESTS LTD			

Purpose: (100 characters maximum)

TO COMPARE PERFORMANCE OF E. NITENS /
E. GRANDIS HYBRIDS

Species Codes:

EUNIT
EUGRN
EUGNI

Keywords: (up to 6 words or phrases of 35 characters)

INTERSPECIFIC HYBRIDS

E. NITENS

E. GRANDIS

PROVENANCE

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1994			FRI		2350

Related Programs

Contact Officer:

GTI

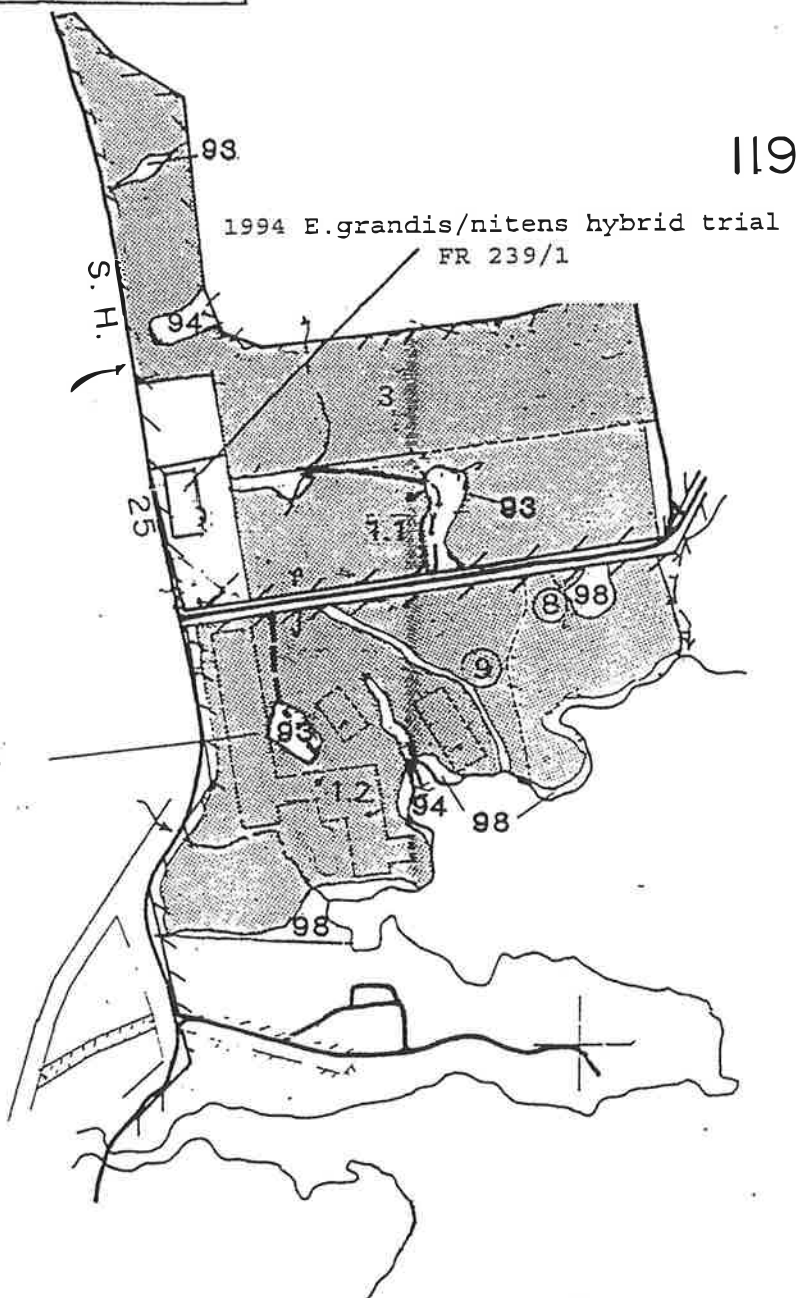
TIRU

Cpt. 120

STANDS

1	<i>P.radiata</i>	1990	13.0 ha
2			6.0 ha
2	<i>P.radiata</i>	1991	14.6 ha
8	<i>C. lusitanica</i>	1981	3.8 ha
	<i>C. lusitanica</i>	1982	2.4 ha

92	3.3 ha
93	.7 ha
94	.7 ha
98	2.6 ha



119

122

Whangamata Harbour

Correct as at 8 94

SCALE 1:10 000

GROSS AREA 46.9 ha

FR 239/1

1994 E.grandis/nitens hybrid trial

CHH Forests Ltd
Tiru Cpt 120

Water tank

Whangamata

S-25

Tairua



250 Rep1	249 Rep4	242 241 Rep7
251	248	243 240
Rep2	Rep5	Rep8
252	247	244 239
Rep3	Rep6	Rep9
253	246	245 238

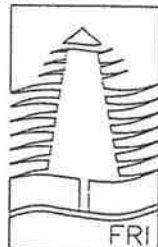
Fence

Gates



Tree Position

8	9	24	25	40
7	10	23	26	39
6	11	22	27	38
5	12	21	28	37
4	13	20	29	36
3	14	19	30	35
2	15	18	31	34
1	16	17	32	33



Genetics and Tree Improvement

Phone (07)3475899

Trial Number FR239/1

Map Number 544

Drawn by G.T.STOVOLD

Date 12/12/94

map no 544b

1994 E.grandis/nitens hybrid trial FR239/1. CHH Forests Ltd Tairua
Cpt 120, Tiru

Rep 1		Rep 4		Rep 7	
250	249	249	242	242	241
303 505 204 102 309		508 301 204 303 208		-9 305 508 501 207	
501 508 203 101 202		406 105 305 108 202		307 504 505 301 105	
408 302 301 108 308		307 104 206 207 102		303 507 406 304 403	
503 307 201 104 109		308 103 205 306 402		109 503 208 401 -9	
306 -9 304 305 -9		505 405 201 403 504		302 309 104 506 102	
507 401 402 405 105		507 309 304 503 408		405 404 101 202 201	
506 406 502 504 -9		506 101 109 401 302		203 402 -9 204 103	
404 208 403 103 207		501 106 203 502 404		408 306 108 502 308	
251	248	248	243	243	240

Rep 2		Rep 5		Rep 8	
251	148	248	243	243	240
301 208 304 307 506		404 108 303 405 -9		108 507 104 201 501	
508 101 204 102 202		401 307 302 506 -9		506 302 303 203 103	
302 201 505 109 502		505 109 201 305 402		301 408 308 106 105	
401 405 -9 309 503		503 101 102 408 403		504 503 101 406 208	
403 -9 104 408 -9		103 -9 208 504 202		402 306 404 204 109	
507 103 306 308 404		104 308 204 507 304		508 305 205 102 206	
501 203 -9 402 406		-9 -9 301 502 501		401 405 202 207 307	
504 108 303 305 -9		-9 203 306 508 406		403 505 309 304 502	
252	247	247	244	244	239

Rep 3		Rep 6		Rep 9	
252	247	247	244	244	239
506 202 105 207 402		205 202 105 501 502		-9 208 404 306 108	
305 303 204 301 302		106 305 104 404 401		309 103 203 104 201	
308 304 208 404 508		109 307 309 506 203		102 305 302 506 101	
109 101 102 401 103		208 304 408 405 503		402 204 403 202 507	
104 306 205 203 403		301 204 302 402 102		501 508 207 105 109	
201 501 106 505 503		303 206 103 306 403		301 309 503 -9 408	
307 408 206 504 507		308 508 504 101 406		502 304 307 405 308	
309 406 108 405 502		207 201 108 505 507		505 504 406 303 401	
253	246	246	245	245	238

-9 = Filler tree (insufficient family stock available)

E.grandis x E.nitens Hybrid Trial 1994

FR 239/1, 239/2, 239/3, 239/4

E.grandis x E.nitens (C.V)		E.grandis x E.nitens (NSW)		E.grandis		E.nitens (C.V)		E.nitens (NSW)	
Code No.	Cross	Code No.	Cross	Code No.	Ortet No.	Code No.	Ortet No.	Code No.	Ortet No.
101	G58 x 890-042	201	G58 x 892-003	301	G58	401	890-042	501	892-003
102	G38 x 888-877	202	G38 x 892-004	302	G38	402	888-877	502	892-004
103	G17 x 888-854	203	G17 x 892-005	303	G17	403	888-854	503	892-005
104	G19 x 890-052	204	G19 x 892-006	304	G19	404	890-052	504	892-006
105	G74 x 890-055	205	G74 x 892-007	305	G74	405	890-055	505	892-007
106	G75 x 888-885	206	G75 x 892-008	306	G75	406	888-885	506	892-008
108	G39 x 890-045	207	G101 x 892-009	307	G101	408	890-044	507	892-009
109	G97 x 890-044	208	G97 x 892-010	308	G39			508	892-010
				309	G97				

TE TEKŌ SEED ORCHARD

Fletcher Challenge
Forests Ltd

TRIAL DESCRIPTION SHEET

FOREST OWNER: Tasman Forestry Ltd

EXPT. No.: **FR239/2**
FOREST: Te Teko seed Orchard

CPT.:
CONTACT PERSON: Christine Te Riini

PHONE: 07 322 8511

FAX:
CONTROLLING AGENCY: FRI-Genetics and Tree Improvement

WORK PLAN #: 2350

PROJECT: GTI

FRI CORR. File:
PURPOSE: To compare the performance of populations of interspecific hybrids(*E.grandis* and two *E.nitens* populations),

SITE DETAILS:
LATITUDE: 38° 3'

LONGITUDE: 176° 50'

ALTITUDE: 20m

ASPECT:
SLOPE: 0

GROUND PREPARATION: Ripping and Rotary Hoeing

SOIL TYPE:
PREVIOUS USE: Ex-pasture/Clonal archive

EXPERIMENTAL DETAILS:
SPECIES: *E.grandis*
E.nitens +
hybrid

STOCK: Root trainers

DATE PLANTED: 11/94

OF PLOTS: 13

SIZE OF PLOTS: 15 x 24m

SPACING: 3 x 3m

TOTAL AREA: .59ha

DEMARICATION: Numbered posts

EXPERIMENTAL DESIGN:

Eight replications of Single tree plots with eight tree demonstration row plots(5 replications)

PROPOSED TREATMENT: Keep weed free for two years

PROPOSED YEARS OF ASSESSMENT: 1997, 2000

PERMANANCY: 20 years

ATTACHMENTS:

Layout map, single tree plot maps, seedlot listing

Register of Field Experiments

FR EXPT: 234 SUB EXPT.: 2

Forest	Compartment	P/year	Total Area (ha.)
TE TERO ORCHARD		1994	0.59

Landowner

TASMAN FORESTRY LTD

Purpose: (100 characters maximum)

TO COMPARE PERFORMANCE OF E-GRANDIS
/ E-NITENS HYBRIDS

Species Codes:

EUNIT					
EUGRN					
EUGNI					

Keywords: (up to 6 words or phrases of 35 characters)

INTERSPECIFIC	HYBRIDS				
E-NITENS					
E-GRANDIS					
PROVENANCE					

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1994			FRI		2350

Related Programs

Contact Officer:

GT1

1994 E.grandis/nitens hybrid trial FR239/2

Te Teko Seed Orchard

Tasman Forestry Ltd

Pylon

Bridge
to Whakatane Hwy

stream

Row plots

Decode
100's = Grandis/CV Nitens
200's = Grandis/NSW Nitens
300's = Grandis
400's = CV Nitens
500's = NSW Nitens

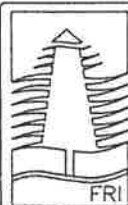


Tree Position

8	9	24	25	40
7	10	23	26	39
6	11	22	27	38
5	12	21	28	37
4	13	20	29	36
3	14	19	30	35
2	15	18	31	34
1	16	17	32	33

201	214	215	223
503 303 403 203 103	408 109 309 208 508	404 204 304 504 204	
202	213	216	222
101 401 301 201 501	402 102 202 502 302		
203	212	217	
Rep4	Rep5		
204	211	218	
Rep3	Rep6		
205	210	219	
Rep2	Rep7		
206	209	220	
Rep1	Rep8		
207	208	221	

0 25 50m
Scale



Genetics and Tree Improvement
Phone (07)3475899
Trial Number FR239/2
Map Number 545
Drawn by G.T.STOVOLD
Date 17/11/94

map no 545

1994 E.grandis/nitens hybrid trial FR239/2 Tasman Forestry Ltd
Te Teko Seed Orchard

Rep 1	Rep 5
206 209	212 217
307 404 506 108 205	103 102 402 408 405
501 406 502 -8 204	104 307 404 306 303
401 102 402 304 301	206 101 506 507 401
507 305 203 207 503	203 202 308 503 208
206 405 101 202 309	106 205 305 309 508
106 508 109 302 403	204 207 301 505 406
408 306 505 104 308	108 502 105 109 501
103 105 303 201 504	201 302 504 403 304
207 208	211 218

Rep 2	Rep 6
205 210	211 218
401 207 305 404 301	201 206 402 504 308
302 104 307 105 504	202 203 103 404 303
-9 103 102 508 408	106 104 408 501 405
-9 101 308 309 402	108 208 305 207 309
303 201 202 406 506	403 302 401 505 306
306 204 109 403 203	109 304 506 102 307
507 208 108 502 501	205 301 507 502 105
405 -9 304 503 505	204 101 406 503 508
206 209	210 219

Rep 3	Rep 7
204 211	210 219
207 404 109 202 501	207 101 105 408 404
101 403 406 502 402	508 206 506 309 305
208 505 302 503 -9	103 201 208 405 502
201 103 307 408 -9	106 104 109 401 507
102 401 309 303 405	306 304 303 403 503
108 305 306 301 506	308 302 301 406 402
-9 -8 304 507 308	202 204 205 504 501
204 105 203 504 508	102 203 108 307 505
205 210	209 220

Rep 4	Rep 8
203 212	209 220
-9 508 309 104 501	205 308 303 508 108
405 304 108 202 507	-9 406 507 109 201
-9 306 408 101 403	402 309 506 505 101
504 -9 402 404 505	401 501 502 304 208
307 406 303 208 301	-9 503 207 103 104
204 305 302 102 502	301 404 203 306 105
207 308 203 109 503	403 408 102 302 202
201 105 103 401 506	504 305 307 405 204
204 211	208 221

-9 = Filler tree (insufficient family stock)

E.grandis x E.nitens Hybrid Trial 1994

FR 239/1, 239/2, 239/3, 239/4

Single Tree Plot Trial

E.grandis x E.nitens (C.V)		E.grandis x E.nitens (NSW)		E.grandis		E.nitens (C.V)		E.nitens (NSW)	
Code No.	Cross	Code No.	Cross	Code No.	Ortet No.	Code No.	Ortet No.	Code No.	Ortet No.
101	G58 x 890-042	201	G58 x 892-003	301	G58	401	890-042	501	892-003
102	G38 x 888-877	202	G38 x 892-004	302	G38	402	888-877	502	892-004
103	G17 x 888-854	203	G17 x 892-005	303	G17	403	888-854	503	892-005
104	G19 x 890-052	204	G19 x 892-006	304	G19	404	890-052	504	892-006
105	G74 x 890-055	205	G74 x 892-007	305	G74	405	890-055	505	892-007
106	G75 x 888-885	206	G75 x 892-008	306	G75	406	888-885	506	892-008
108	G39 x 890-045	207	G101 x 892-009	307	G101	408	890-044	507	892-009
109	G97 x 890-044	208	G97 x 892-010	308	G39			508	892-010
				309	G97				

Demonstration Row Plot Trial

E.grandis x E.nitens (C.V)		E.grandis x E.nitens (NSW)		E.grandis		E.nitens (C.V)		E.nitens (NSW)	
Code No.	Cross	Code No.	Cross	Code No.	Ortet No.	Code No.	Ortet No.	Code No.	Ortet No.
101	G58 x 890-042	201	G58 x 892-003	301	G58	401	890-042	501	892-003
102	G38 x 888-877	202	G38 x 892-004	302	G38	402	888-877	502	892-004
103	G17 x 888-854	203	G17 x 892-005	303	G17	403	888-854	503	892-005
104	G19 x 890-052	204	G19 x 892-006	304	G19	404	890-052	504	892-006
109	G97 x 890-044	208	G97 x 892-010	309	G97	408	890-044	508	892-010

KINLEITH FOREST

Carter Holt
Harvey Forests Ltd

TRIAL DESCRIPTION SHEET

FOREST OWNER: CHH Forests Ltd

EXPT. No.: **FR239/3**
FOREST: Kinleith

CPT.: A7245

CONTACT PERSON: Fred Burger

PHONE: 07 349 0836

FAX:
CONTROLLING AGENCY: FRI-Genetics and Tree Improvement

WORK PLAN #: 2350

PROJECT: GTI

FRI CORR. File:

PURPOSE: To compare the performance of populations of interspecific hybrids (*E.grandis* and two *E.nitens* populations),

SITE DETAILS:
LATITUDE: 38° 25'

LONGITUDE: 175° 58'

ALTITUDE: 260

ASPECT:
SLOPE: 0

GROUND PREPARATION: V-blading

SOIL TYPE:
PREVIOUS USE: Forest plantation

EXPERIMENTAL DETAILS:

SPECIES:	E.grandis E.nitens + hybrid	STOCK:	Root trainer	DATE PLANTED:	11/94
-----------------	-----------------------------------	---------------	--------------	----------------------	-------

# OF PLOTS:	8	SIZE OF PLOTS:	17.5 x 24m	SPACING:	3m x 3.5m
--------------------	---	-----------------------	------------	-----------------	-----------

TOTAL AREA:	.35ha	DEMARICATION:	Numbered posts
--------------------	-------	----------------------	----------------

EXPERIMENTAL DESIGN:
Eight replications of Single tree plots

PROPOSED TREATMENT:

PROPOSED YEARS OF ASSESSMENT:	1997, 2000	PERMANANCY:	20 years
--------------------------------------	------------	--------------------	----------

ATTACHMENTS:

Layout map, single tree plot maps, seedlot listing

FR EXPT: 239 SUB EXPT.: 3

Landowner
CMA FORESTS LTD

TO COMPARE THE PERFORMANCE OF
E. GRANDIS / E. NITENS HYBRIDS

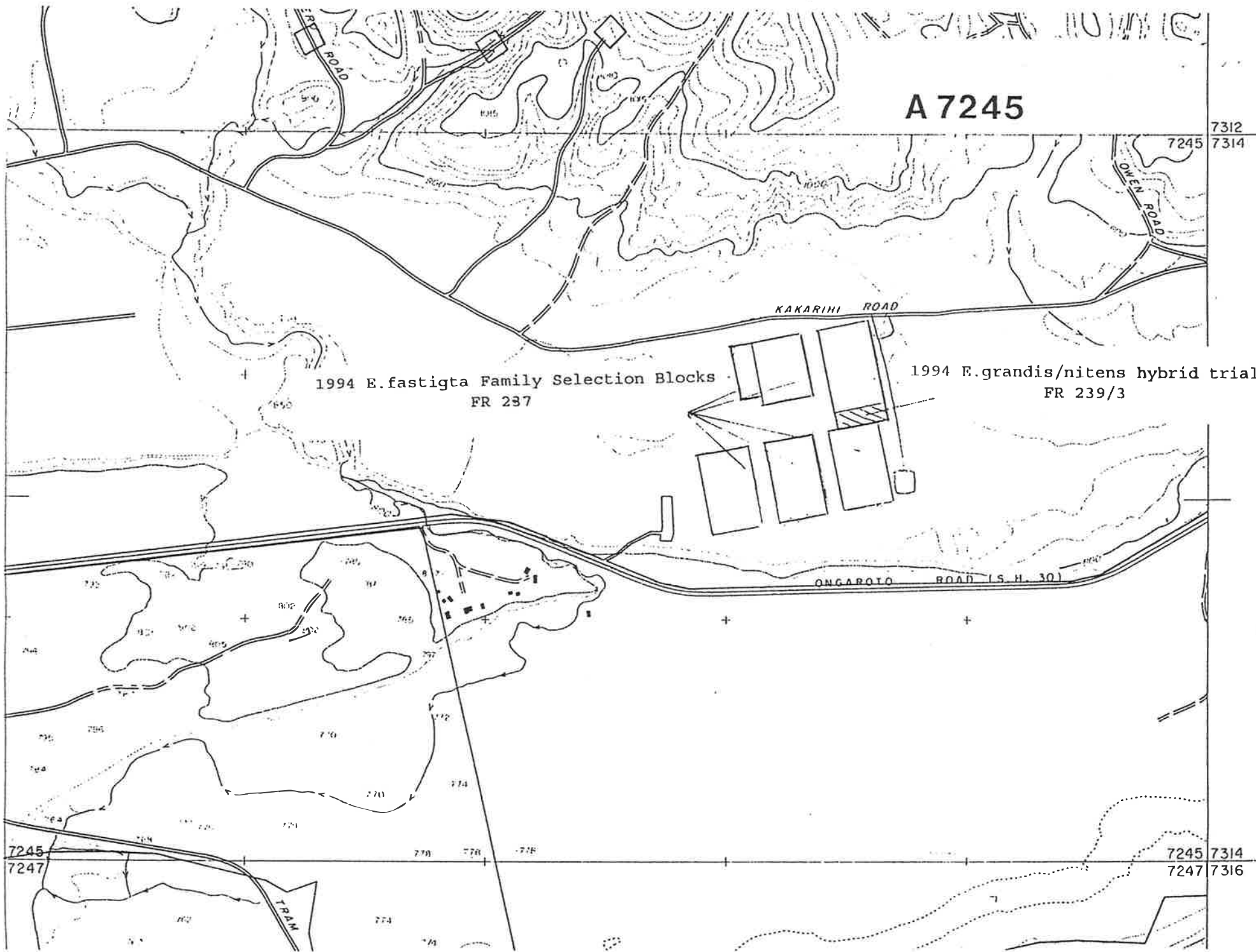
E	U	N	I	T
E	U	G	R	N
E	U	G	M	I

[illegible]

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1994			FRI		2350

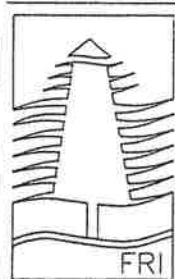
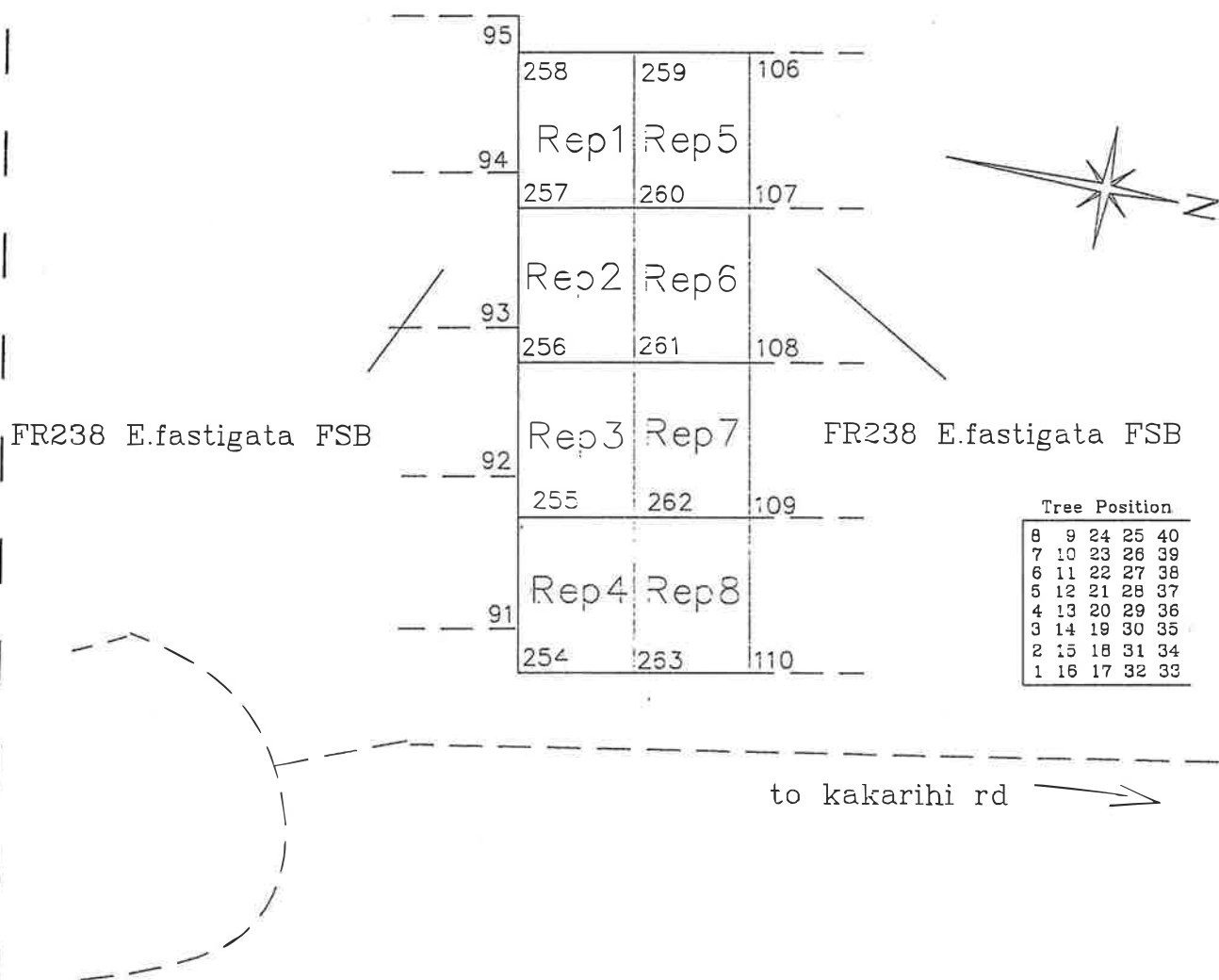
Related Programs					

[illegible]



E.nitens/grandis hybrid trial FR239/3

CHH Forest Ltd Kinleith Forest A7245



Genetics and Tree Improvement

Phone (07)3475899

Trial Number FR239/3

Map Number 546

Drawn by G.T.STOVOLD

Date 21/12/94

map no 546

1994 E.grandis/nitens hybrid trial FR239/3 CHH Forests Ltd
Cell A7245 Atiamuri

Rep 1	Rep 5
258 259	259 106
108 101 304 309 -9	106 405 504 102 109
202 201 401 402 -9	502 302 505 104 301
104 302 506 403 105	303 304 402 101 307
204 406 208 405 207	201 204 208 103 501
102 306 -9 503 501	506 408 202 105 207
103 301 305 203 508	508 401 308 507 305
504 308 404 303 505	403 203 309 306 205
109 307 408 502 507	503 206 406 108 404
257 260	260 107

Rep 2	Rep 6
257 260	260 107
105 304 307 202 404	503 203 306 208 302
108 405 302 203 408	504 207 303 206 502
104 402 205 102 403	403 205 101 304 309
103 503 303 101 505	408 105 102 201 405
106 501 204 305 506	104 505 202 204 508
508 207 301 201 401	506 404 103 307 301
502 206 109 306 504	109 406 106 305 501
309 507 308 208 406	402 401 108 308 507
256 261	261 108

Rep 3	Rep 7
256 261	261 108
405 206 103 302 106	-9 304 501 402 207
402 308 102 508 309	-9 305 504 505 105
503 303 208 304 105	102 308 309 506 406
403 502 207 306 109	109 203 204 307 208
404 408 205 104 301	301 306 302 508 401
401 406 101 204 506	103 201 202 507 403
507 504 203 307 201	-9 101 502 408 404
501 505 202 305 108	104 108 503 303 405
255 262	262 109

Rep 4	Rep 8
255 262	262 109
201 104 404 507 105	-9 304 508 402 406
306 101 304 406 503	103 307 204 505 404
-9 202 102 401 207	308 101 309 506 408
504 208 403 109 405	305 203 401 502 504
103 402 301 302 307	208 501 202 507 105
108 305 203 308 309	104 201 102 403 207
-9 502 303 505 204	306 109 302 -9 405
-9 408 501 506 508	108 303 301 503 -9
254 263	263 110

-9 = Filler tree (insufficient family stock)

E.grandis x E.nitens Hybrid Trial 1994

FR 239/1, 239/2, 239/3, 239/4

E.grandis x E.nitens (C.V)		E.grandis x E.nitens (NSW)		E.grandis		E.nitens (C.V)		E.nitens (NSW)	
Code No.	Cross	Code No.	Cross	Code No.	Ortet No.	Code No.	Ortet No.	Code No.	Ortet No.
101	G58 x 890-042	201	G58 x 892-003	301	G58	401	890-042	501	892-003
102	G38 x 888-877	202	G38 x 892-004	302	G38	402	888-877	502	892-004
103	G17 x 888-854	203	G17 x 892-005	303	G17	403	888-854	503	892-005
104	G19 x 890-052	204	G19 x 892-006	304	G19	404	890-052	504	892-006
105	G74 x 890-055	205	G74 x 892-007	305	G74	405	890-055	505	892-007
106	G75 x 888-885	206	G75 x 892-008	306	G75	406	888-885	506	892-008
108	G39 x 890-045	207	G101 x 892-009	307	G101	408	890-044	507	892-009
109	G97 x 890-044	208	G97 x 892-010	308	G39			508	892-010
				309	G97				

TRIAL DESCRIPTION SHEET

FOREST OWNER: CHH Forests Ltd**EXPT. No.:** **FR237****FOREST:** Kinleith**CPT.:** A7245**CONTACT PERSON:** Fred Burger**PHONE:** 07 349 0836**FAX:****CONTROLLING AGENCY:** FRI-Genetics and Tree Improvement**WORK PLAN #:** 2350**PROJECT:** GTI**FRI CORR. File:****PURPOSE:** To establish an open pollinated breeding population of *E.fastigata***SITE DETAILS:****LATITUDE:** 38° 25'**LONGITUDE:** 175° 58'**ALTITUDE:** 260**ASPECT:****SLOPE:****GROUND PREPARATION:** V blading**SOIL TYPE:****PREVIOUS USE:** Forest plantation**EXPERIMENTAL DETAILS:****SPECIES:** *E.fastigata* **STOCK:** Root trainer **DATE PLANTED:** 11/94**# OF PLOTS:** 33 **SIZE OF PLOTS:** 56 x 48m **SPACING:** 3 x 3.5m**TOTAL AREA:** 8.9ha **DEMARICATION:** Numbered posts**EXPERIMENTAL DESIGN:**

Forward selection blocks with 6 sublines, 8 tree row plots (6 replications)

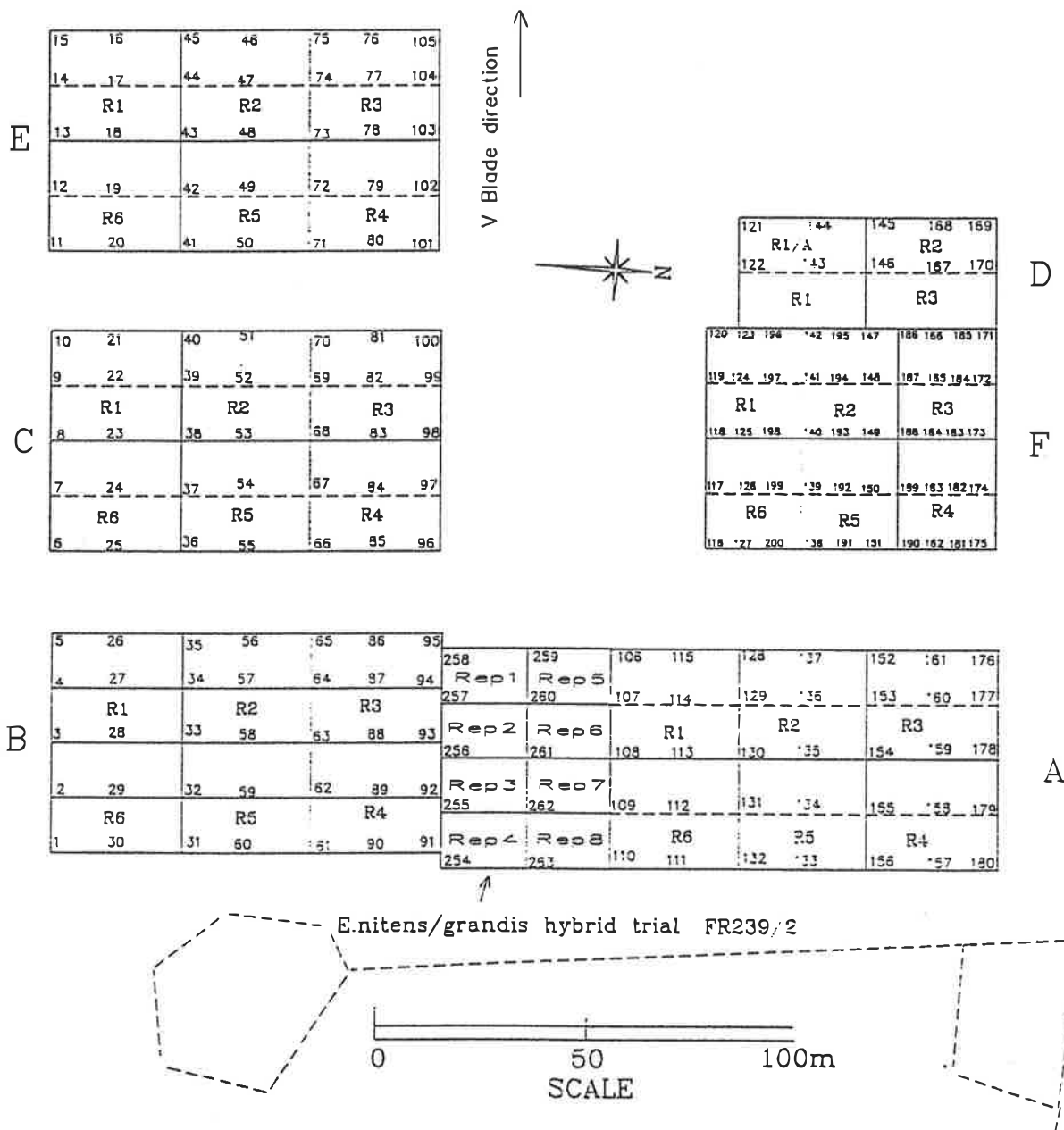
PROPOSED TREATMENT:**PROPOSED YEARS OF ASSESSMENT:** 1997, 2000**PERMANANCY:** 20 years**ATTACHMENTS:**

Layout map , stand sheet, row plot layout set composition

1994 E.fastigata Family Selection Blocks FR 237

CHH Forests Ltd

Kinleith Forest, Atiamuri Cell 7245



A 7245

7312
7314

7245

KAKARIHI ROAD

1994 *E. fastigata* Family Selection Blocks
FR 237

1994 *E. grandis/nitens* hybrid trial
FR 239/3

ONGAROTO ROAD (S.H. 301)

7245
7247

7245 7314
7247 7316

FR

2	3	7	
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Forest	Compartment	P/year	Total Area (ha.)
K I N L E I T H	A 7 2 4 5	1 9 9 4	.
Landowner TH FORESTS LTD			.
			.
			.
			.

TO ESTABLISH A BREEDING POPULATION
OF E-FASTIGATA

E	N	F	A	S
---	---	---	---	---

Species Codes:

E	N	F	A	S

E. FASTIGATA
PROGENY TEST
FORWARD SELECTION PLOTS
SINGLE TREE PLOTS

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1994			FRI		2318

[illegible]

C	T	1
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Rep 1																Rep 2																																																
p106																p115																p128																p137																p152
961	781	786	782	783	957	222	953	952	966	956	968	970	969	963	965	784	957	961	952	967	966	958	953	970	969	785	788	786	951	964	954																																	
p107																p114																p129																p136																p153
962	784	955	958	111	789	967	785	964	787	959	950	788	951	960	954	955	783	222	781	789	962	956	968	787	782	960	959	950	111	965	963																																	
Rep 6																Rep 5																																																
p108																p113																p130																p135																p154
970	968	952	969	963	956	781	962	784	965	783	961	958	967	782	111	966	785	964	963	786	965	784	957	961	222	958	970	967	968	969	962																																	
p109																p112																p131																p134																p155
964	787	782	957	951	955	966	954	788	222	786	789	960	959	950	953	788	952	787	960	954	955	111	959	789	950	783	781	951	782	953	956																																	
		*																																																														
	785																																																															
p110																p111																p132																p133																p156

* signifies a split plot
with 4 trees from each
of 2 families making up
the 8 tree plot

Rep 3																Rep 4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
p152	789	958	956	968	787	785	953	966	783	970	967	950	955	965	784	962	p161																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

	Rep 1															Rep 2																			
p5									p26									p35									p56								p65
	979	985	988	992	981	993	986	980		984	990	111	972	222	894	973	998		995	988	999	974	973	993	984	986		980	983	997	977	996	222	981	972
p4									p27									p34									p57								p64
	978	973	222	998	996	999	982	975		974	977	987	971	992	976	983	997		985	978	979	994	971	991	990	992		987	975	111	998	894	976	982	989
	Rep 6															Rep 5																			
p3									p28									p33									p58								p63
	971	980	990	976	997	894	985	988		972	998	973	977	986	993	981	996		980	972	894	987	989	977	976	999		988	981	986	973	991	971	997	111
p2									p29									p32									p59								p62
	975	977	987	972	992	984	971	979		983	978	222	999	111	982	994	974		995	992	975	985	993	983	974	980		998	979	996	222	978	984	990	982
p1									p30									p31									p60								p61

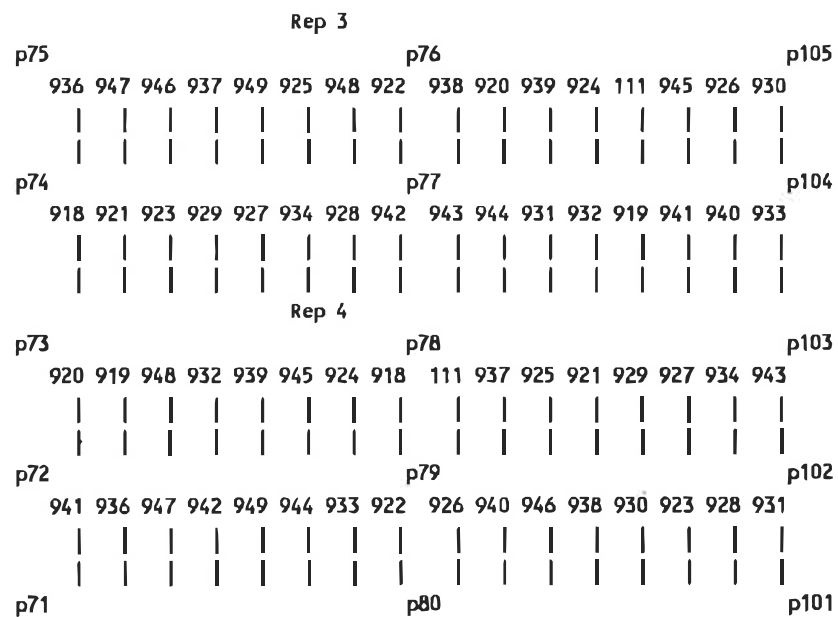
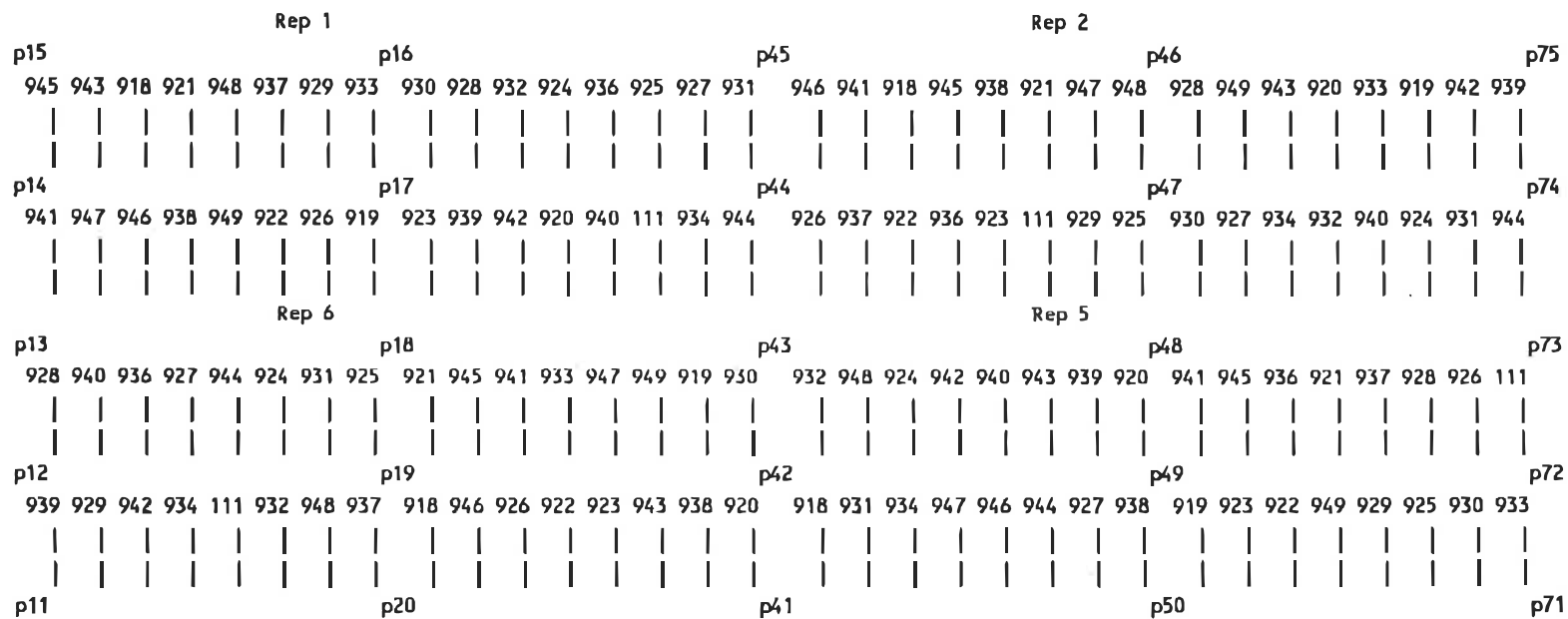
Rep 3																		Rep 4																	
p65	978	994	985	973	980	979	111	971	p86	996	984	975	972	995	974	894	998	p95																	
p64	993	990	999	987	983	977	997	991	p87	988	982	981	222	992	976	989	986	p94																	
p63	975	979	996	222	894	974	995	986	p88	998	977	980	978	990	982	972	987	p93																	
p62	981	991	994	976	992	985	984	993	p89	983	989	971	988	999	111	973	997	p92																	
p61									p90									p91																	

Rep 1																		Rep 2																														
p10	840	888	878	877	222	875	881	868	p21	887	891	874	818	871	882	883	873	p40	222	840	876	878	877	886	819	871	p51	866	879	870	873	893	823	872	883	p70												
p9	866	872	819	876	870	884	893	867	p22	879	886	885	869	892	823	816	889	p39	888	881	868	884	867	891	885	887	p52	818	816	892	875	869	882	874	889	p69												
Rep 6									Rep 5																																							
p8	887	882	873	883	871	874	840	818	p23	866	872	819	222	876	875	893	870	p38	818	874	892	222	888	876	893	873	p53	840	877	891	867	881	879	886	823	p68												
p7	868	886	885	823	881	878	888	892	p24	816	891	889	877	884	867	879	869	p37	882	887	866	870	871	875	869	878	p54	883	819	885	872	889	884	816	868	p67												
*																																																
818																																																
p6									p25									p36									p55								p66													
																		Rep 3																														
																		p70	878	888	884	886	891	885	840	818	p81	867	222	876	866	869	871	868	882	p100												
																		p69	881	877	879	873	819	875	893	883	p82	892	887	823	872	874	889	816	870	p99												
																		Rep 4																														
																		p68	222	876	870	869	866	882	868	884	p83	878	873	875	867	877	840	886	893	p98												
																		p67	887	892	891	883	818	871	816	874	p84	885	879	881	889	819	888	872	823	p97												
																		p66									p85									p96												

Plot FR237, Set C, *E.fastigata* progeny/provenance test, Atiamuri 1994

Rep 1 (8 trees / family)																Rep 3 (24 trees /family)																			
p121								p144								p145								p168								p169			
839	851	844	834	812	814	848	854	222	815	827	831	853	111	847	859	813	817	826	822	861	838	880	858	836	895	842	837	843	111	825	857				
Rep 1 (24 trees / family)																Rep 2 (24 trees / family)																			
p122								p143								p146								p167								p170			
111	880	857	837	825	842	826	813	817	861	857	858	836	895	838	880	837	836	825	858	895	857	842	111	826	813	880	861	822	817	838	843				
p123				p196				p142				p195				p147				p186				p166				p185				p171			

Plot 237, Set D, *E.fastigata* progeny/provenance test, Atiamuri 1994



Plot 237, Set E, *E.fastigata* progeny/provenance test, Atiamuri 1994

Rep 1										Rep 2										Rep 3															
p120		p123				p196				p142				p195				p147				p186				p166				p185				p171	
906	903	111	899	912	911	900	222	897	910	898	902	915	916	896	905	906	900	222	901	897	911	903	917	899	916	912	904	900	896	897	910	907	901	898	909
p119		p124				p197				p141				p194				p148				p187				p165				p184				p172	
915	896	904	916	905	908	917	901	913	909	914	907	111	899	912	904	908	909	910	907	913	902	914	898	905	906	908	111	913	222	911	917	914	915	902	903
Rep 6										Rep 5										Rep 4															
p118		p125				p198				p140				p193				p149				p188				p164				p183				p173	
909	902	897	910	898	906	915	903	896	905	908	917	911	910	900	913	914	111	905	899	896	916	901	897	915	904	910	903	898	906	899	901	900	896	916	907
p117		p126				p199				p139				p192				p150				p189				p163				p182				p174	
907	913	914	912	899	904	900	111	916	222	901	909	898	906	915	902	907	222	903	908	904	917	912	909	902	911	917	222	908	905	914	913	897	111	909	912
p116		p127				p200				p138				p191				p151				p190				p162				p181				p175	

Plot 237, Set F, *E.fastigata* progeny/provenance test, Atiamuri 1994

SET COMPOSITION FOR E.FASTIGATA FSP TRIAL 1994
FR 237

SET A		
Field Code	Orlet No.	Origin
781	892 - 781	Jessievale S.O,Transvaal SA
782	782	Jessievale S.O,Transvaal SA
783	783	Jessievale S.O,Transvaal SA
784	784	Jessievale S.O,Transvaal SA
785	785	Jessievale S.O,Transvaal SA
786	786	Jessievale S.O,Transvaal SA
787	787	Jessievale S.O,Transvaal SA
788	788	Jessievale S.O,Transvaal SA
789	789	Jessievale S.O,Transvaal SA
950	950	Jessievale S.O,Transvaal SA
951	951	Jessievale S.O,Transvaal SA
952	952	Jessievale S.O,Transvaal SA
953	953	Jessievale S.O,Transvaal SA
954	954	Jessievale S.O,Transvaal SA
955	955	Jessievale S.O,Transvaal SA
956	956	Jessievale S.O,Transvaal SA
957	957	Jessievale S.O,Transvaal SA
958	958	Jessievale S.O,Transvaal SA
959	959	Jessievale S.O,Transvaal SA
960	960	Jessievale S.O,Transvaal SA
961	961	Jessievale S.O,Transvaal SA
962	962	Jessievale S.O,Transvaal SA
963	963	Jessievale S.O,Transvaal SA
964	964	Jessievale S.O,Transvaal SA
965	965	Jessievale S.O,Transvaal SA
966	966	Jessievale S.O,Transvaal SA
967	967	Jessievale S.O,Transvaal SA
968	968	Jessievale S.O,Transvaal SA
969	969	Jessievale S.O,Transvaal SA
970	970	Jessievale S.O,Transvaal SA
111		Barrington Tops, C.O'Connor, 6/94
222		88/172, Rossi

6 Replications x 8 tree row plots

SET B		
Field Code	Orlet No.	Origin
894	892 - 894	Jessievale S.O,Transvaal SA
971	971	Jessievale S.O,Transvaal SA
972	972	Jessievale S.O,Transvaal SA
973	973	Jessievale S.O,Transvaal SA
974	974	Jessievale S.O,Transvaal SA
975	975	Jessievale S.O,Transvaal SA
976	976	Jessievale S.O,Transvaal SA
977	977	Jessievale S.O,Transvaal SA
978	978	Jessievale S.O,Transvaal SA
979	979	Jessievale S.O,Transvaal SA
980	980	Jessievale S.O,Transvaal SA
981	981	Jessievale S.O,Transvaal SA
982	982	Jessievale S.O,Transvaal SA
983	983	Jessievale S.O,Transvaal SA
984	984	Jessievale S.O,Transvaal SA
985	985	Jessievale S.O,Transvaal SA
986	986	Jessievale S.O,Transvaal SA
987	987	Jessievale S.O,Transvaal SA
988	988	Jessievale S.O,Transvaal SA
989	989	Jessievale S.O,Transvaal SA
990	990	Jessievale S.O,Transvaal SA
991	991	Jessievale S.O,Transvaal SA
992	992	Jessievale S.O,Transvaal SA
993	993	Jessievale S.O,Transvaal SA
994	994	Jessievale S.O,Transvaal SA
995	995	Jessievale S.O,Transvaal SA
996	996	Jessievale S.O,Transvaal SA
997	997	Jessievale S.O,Transvaal SA
998	998	Jessievale S.O,Transvaal SA
999	999	Jessievale S.O,Transvaal SA
111		Barrington Tops, C.O'Connor, 6/94
222		88/172, Rossi

6 Replications x 8 tree row plots

SET COMPOSITION FOR E.FASTIGATA FSP TRIAL 1994
FR237

SET C		
Field Code	Ortel No.	Origin
816	892 - 816	Banchea State Forest
818	818	Banchea State Forest
819	819	Banchea State Forest
823	823	Tuglow Road, Ginkin S.F 825
840	840	Monga State Forest
866	866	Vulcan S.F Oberon
867	867	Vulcan S.F Oberon
868	868	Vulcan S.F Oberon
869	869	Styx River State Forest
870	870	Riamukka State Forest
871	871	Riamukka State Forest
872	872	Riamukka State Forest
873	873	Riamukka State Forest
874	874	Riamukka State Forest
875	875	Barrington Tops St. Forest
876	876	Mount Werouig State Forest
877	877	Anembo Road Tallaganda State Forest
878	878	Anembo Road Tallaganda State Forest
879	879	Nitens Road Tallaganda State Forest
881	881	Nitens Road Tallaganda State Forest
882	882	Jerrabattgulla, Tallaganda
883	883	Monterey Rd Glenbog State Forest
884	884	Monterey Rd Glenbog State Forest
885	885	Nitens Road Glenbog State Forest
886	886	Nitens Road Glenbog State Forest
887	887	Fastigata Road Glenbog State Forest
888	888	Fastigata Road Glenbog State Forest
889	889	Mines Road Coolangubra State Forest
891	891	Mines Road Coolangubra State Forest
892	892	Wog Wog Trail Coolangubra State Forest
893	893	Wog Wog Trail Coolangubra State Forest
222		88/172, Rossi

6 Replications x 8 tree row plots

SET D		
Field Code	Ortel No.	Origin
813	892 - 813	Banchea State Forest
817	817	Banchea State Forest
822	822	Tuglow Road, Ginkin S.F 825
825	825	Tuglow Road, Ginkin S.F 825
826	826	Tuglow Road, Ginkin S.F 825
836	836	Sunny Corner State Forest
837	837	Sunny Corner State Forest
838	838	Sunny Corner State Forest
842	842	Tallaganda State Forest Rossi NSW
843	843	Tallaganda State Forest Rossi NSW
857	857	Tallaganda State Forest
858	858	Tallaganda State Forest
861	861	Tallaganda State Forest
880	880	Nitens Road Tallaganda State Forest
895	895	New Trig Road Coolangubra State Forest
111		Barrington Tops, C.O'Connor, 6/94
3 Replications x 8 tree row plots		
812	892 - 812	Banchea State Forest
814	814	Banchea State Forest
815	815	Banchea State Forest
827	827	Thurat Rivulet Kanagra Boyd Nat Pk
831	831	Mt Krungle Bungle Kanagra Boyd Nat Pk
834	834	Mt Krungle Bungle Kanagra Boyd Nat Pk
848	848	Bondi State Forest Bombala
851	851	Bondi State Forest Bombala
853	853	Bondi State Forest Bombala
854	854	Bondi State Forest Bombala
839	839	Monga State Forest
844	844	Tallaganda State Forest Rossi NSW
847	847	Tallaganda State Forest Rossi NSW
859	859	Tallaganda State Forest
111		Barrington Tops, C.O'Connor, 6/94
222		88/172, Rossi

1 Replication x 8 tree row plots

SET COMPOSITION FOR E.FASTIGATA FSP TRIAL 1994
FR237

SET E			SET F		
Field Code	Ortel No.	Origin	Field Code	Ortel No.	Origin
918	892 - 918	Eastern Transvaal	896	892 - 896	Eastern Transvaal
919	919	Eastern Transvaal	897	897	Eastern Transvaal
920	920	Eastern Transvaal	898	898	Eastern Transvaal
921	921	Eastern Transvaal	899	899	Eastern Transvaal
922	922	Eastern Transvaal	900	900	Eastern Transvaal
923	923	Eastern Transvaal	901	901	Eastern Transvaal
924	924	Eastern Transvaal	902	902	Eastern Transvaal
925	925	Eastern Transvaal	903	903	Eastern Transvaal
926	926	Eastern Transvaal	904	904	Eastern Transvaal
927	927	Eastern Transvaal	905	905	Eastern Transvaal
928	928	Eastern Transvaal	906	906	Eastern Transvaal
929	929	Eastern Transvaal	907	907	Eastern Transvaal
930	930	Eastern Transvaal	908	908	Eastern Transvaal
931	931	Eastern Transvaal	909	909	Eastern Transvaal
932	932	Eastern Transvaal	910	910	Eastern Transvaal
933	933	Eastern Transvaal	911	911	Eastern Transvaal
934	934	Eastern Transvaal	912	912	Eastern Transvaal
936	936	Eastern Transvaal	913	913	Eastern Transvaal
937	937	Eastern Transvaal	914	914	Eastern Transvaal
938	938	Eastern Transvaal	915	915	Eastern Transvaal
939	939	Eastern Transvaal	916	916	Eastern Transvaal
940	940	Eastern Transvaal	917	917	Eastern Transvaal
941	941	Eastern Transvaal	111	Barrington Tops, C.O'Connor, 6/94 88/172, Rossi	
942	942	Eastern Transvaal	222		
943	943	Eastern Transvaal	6 Replications x 8 tree row plots		
944	944	Eastern Transvaal			
945	945	Eastern Transvaal	6 Replications x 8 tree row plots		
946	946	Eastern Transvaal			
947	947	Eastern Transvaal	6 Replications x 8 tree row plots		
948	948	Eastern Transvaal			
949	949	Eastern Transvaal	6 Replications x 8 tree row plots		
111	Barrington Tops, C.O'Connor, 6/94				
6 Replications x 8 tree row plots					

**SIM BLOCK
BLACKMOUNT**

**South Wood
Export Ltd**

TRIAL DESCRIPTION SHEET

FOREST OWNER: South Wood Export Ltd

EXPT. No.: **FR239/4**
FOREST: Blackmount

CPT.:
CONTACT PERSON: Roger Washbourne

PHONE: 03 218 2073

FAX:
CONTROLLING AGENCY: FRI-Genetics and Tree Improvement

WORK PLAN #: 2350

PROJECT: GTI

FRI CORR. File:
PURPOSE: To compare the performance of populations of interspecific hybrids(*E.grandis* and two *E.nitens* populations),

SITE DETAILS:
LATITUDE: 45° 50'

LONGITUDE: 167° 43'

ALTITUDE: 350

ASPECT:
SLOPE: 15 - 20

GROUND PREPARATION: Ripping and rotary hoeing

SOIL TYPE:

PREVIOUS USE: Ex-pasture

EXPERIMENTAL DETAILS:
SPECIES: *E.grandis*
E.nitens
and hybrid

STOCK: Root-trainer

DATE PLANTED: 11/94

OF PLOTS: 13

SIZE OF PLOTS: 24m x 15m

SPACING: 3 x 3m

TOTAL AREA: 0.59ha

DEMARICATION: Numbered posts

EXPERIMENTAL DESIGN:

Eight replications of single tree plots with eight tree demonstration row plots(5 replications)

PROPOSED TREATMENT:
PROPOSED YEARS OF ASSESSMENT:

1997, 2000

PERMANANCY:

20 years

Keep weed free for two years

ATTACHMENTS:

Layout map, single tree plot maps, seedlot listing

Register of Field Experiments

FR

EXPT: 239

SUB EXPT.: 4

Forest	Compartment	P/year	Total Area (ha.)
		1994	0.59

Landowner
Southwood Export Ltd.

Purpose: (100 characters maximum)

TO COMPARE THE PERFORMANCE OF
E. GRANDIS / E. NITENS HYBRIDS.

Species Codes:

EUNIT
EUGRN
EUGNI

Keywords: (up to 6 words or phrases of 35 characters)

INTERSPECIFIC HYBRIDS

E. NITENS

E. GRANDIS

PROVENANCE

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1994			FRI		2350

Related Programs

Contact Officer:

GT1

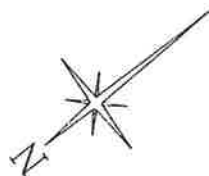
1994 E.grandis/nitens hybrid trial FR239/4 South Wood Export Ltd

288	287	286	285	284	283
202 302 402 502 102	101 501 401 301 201	103 403 303 203 503	508 208 309 109 408	304 204 404 104 504	
277	278	279	280	281	282

Row plots

Decode
100's = Grandis/CV Nitens
200's = Grandis/NSW Nitens
300's = Grandis
400's = CV Nitens
500's = NSW Nitens

track(on ridge)



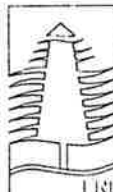
264	265	266	267	268
Rep1	Rep3	Rep5	Rep7	
289	272	271	270	269
Rep2	Rep4	Rep6	Rep8	
290	273	274	275	276

rip direction
↑
↓

Tree Position				
8	9	24	25	40
7	10	23	26	39
6	11	22	27	38
5	12	21	28	37
4	13	20	29	36
3	14	19	30	35
2	15	18	31	34
1	16	17	32	33

Single Tree Plots

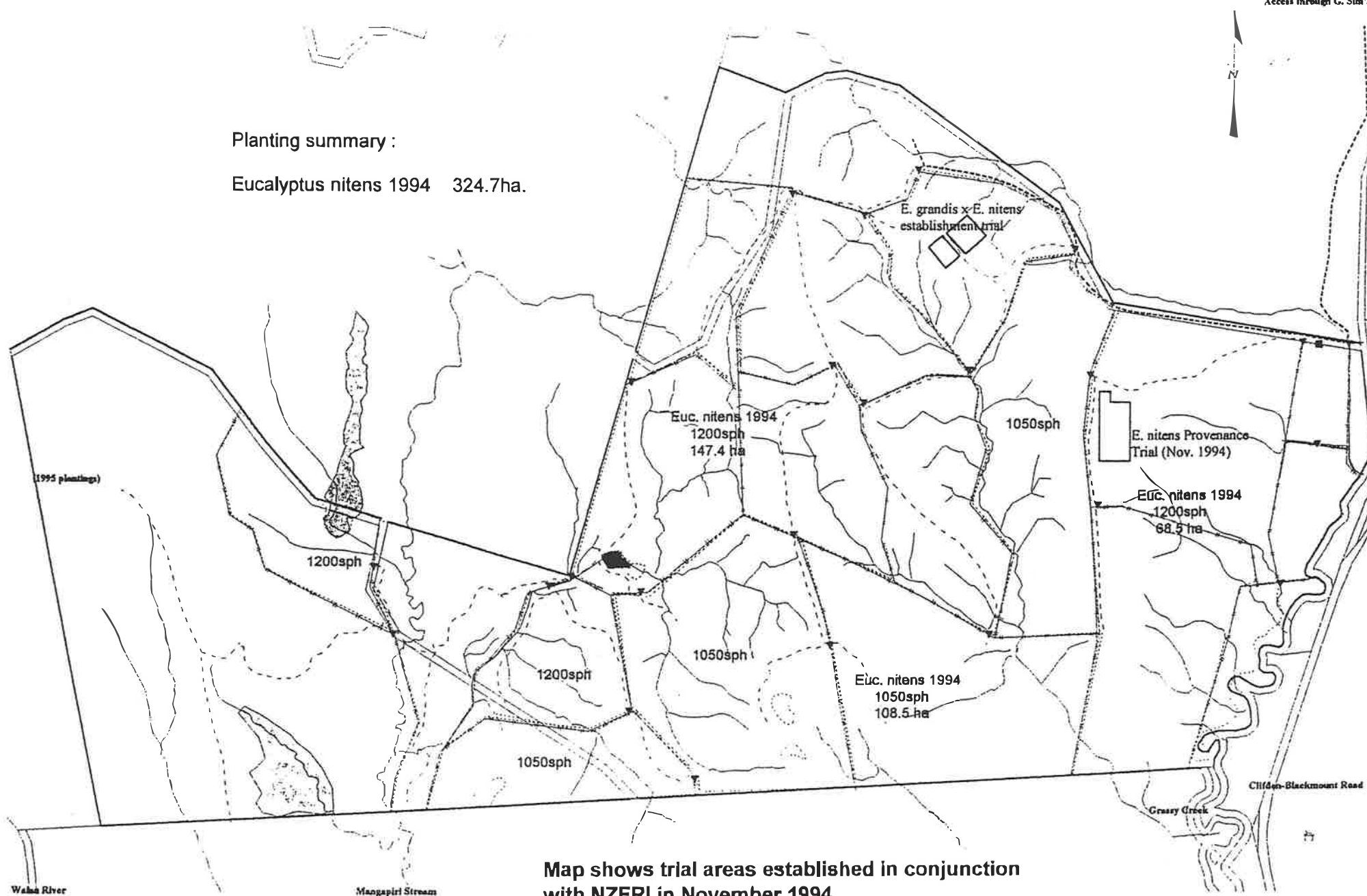
0 25m
|-----|
Scale



Genetics and Tree Improvement
Phone (07)3475899
Trial Number FR239/1
Map Number 547
Drawn by G.T. STOVOLD
Date 19/12/94

Planting summary :

Eucalyptus nitens 1994 324.7ha.



Managed by

SOUTH WOOD EXPORT LIMITED
P.O. Box 7010
INVERCARGILL 9501.

SIM BLOCK, BLACKMOUNT

(Southland Plantation Forest Company of New Zealand Limited)

Scale: 1:10,000

Legal Area (ha): 445.3565 ha

Date: 28 February 1995

map no 547

1994 E.grandis/nitens hybrid trial FR239/4 Southwood Export Ltd

Rep 1		Rep 5
264	265	266 267
403 402 205 109 501		505 501 -9 508 204
506 404 101 306 406		403 401 105 308 304
503 309 102 301 405		303 302 201 207 208
303 208 108 102 505		503 506 202 307 104
206 502 304 203 103		408 404 504 306 102
105 507 408 207 504		301 502 405 402 309
308 401 302 204 508		305 205 109 103 203
202 305 201 205 106		507 -9 406 101 108
289 272		271 270

Rep 2		Rep 6
289 272		271 270
104 505 502 303 402		207 506 -9 105 104
101 508 507 207 503		502 101 504 204 306
108 501 401 302 504		305 205 508 303 402
307 301 406 206 403		403 206 203 109 406
104 506 309 103 202		108 505 208 201 302
304 405 307 308 106		404 501 301 307 507
201 408 208 305 203		401 308 103 503 304
204 404 306 109 105		309 405 102 408 202
290 278		274 275

Rep 3		Rep 7
265 266		267 268
101 -9 303 301 408		108 208 303 101 309
103 304 305 203 309		201 206 306 109 504
504 207 109 405 501		308 403 501 205 406
402 204 406 503 302		402 505 408 207 401
306 202 507 506 205		503 502 105 203 304
102 208 307 403 206		507 508 302 204 102
201 104 508 502 401		202 404 305 104 106
105 -9 308 505 404		301 506 405 103 307
272 271		270 269

Rep 4		Rep 8
272 271		270 269
507 405 506 109 502		301 201 506 106 102
504 406 309 202 403		101 207 401 304 109
404 305 201 102 101		103 208 405 501 205
103 307 207 104 301		308 508 206 305 105
-9 402 508 208 105		408 104 406 309 108
205 203 -9 204 304		403 307 404 507 306
503 302 303 108 306		505 302 402 504 203
505 401 308 408 501		503 303 204 502 202
273 274		275 276

-9 = Filler tree (insufficient family stock available)

E.grandis x E.nitens Hybrid Trial 1994

FR 239/1, 239/2, 239/3, 239/4

Single Tree Plot Trial

E.grandis x E.nitens (C.V)		E.grandis x E.nitens (NSW)		E.grandis		E.nitens (C.V)		E.nitens (NSW)	
Code No.	Cross	Code No.	Cross	Code No.	Ortet No.	Code No.	Ortet No.	Code No.	Ortet No.
101	G58 x 890-042	201	G58 x 892-003	301	G58	401	890-042	501	892-003
102	G38 x 888-877	202	G38 x 892-004	302	G38	402	888-877	502	892-004
103	G17 x 888-854	203	G17 x 892-005	303	G17	403	888-854	503	892-005
104	G19 x 890-052	204	G19 x 892-006	304	G19	404	890-052	504	892-006
105	G74 x 890-055	205	G74 x 892-007	305	G74	405	890-055	505	892-007
106	G75 x 888-885	206	G75 x 892-008	306	G75	406	888-885	506	892-008
108	G39 x 890-045	207	G101 x 892-009	307	G101	408	890-044	507	892-009
109	G97 x 890-044	208	G97 x 892-010	308	G39			508	892-010
				309	G97				

Demonstration Row Plot Trial

E.grandis x E.nitens (C.V)		E.grandis x E.nitens (NSW)		E.grandis		E.nitens (C.V)		E.nitens (NSW)	
Code No.	Cross	Code No.	Cross	Code No.	Ortet No.	Code No.	Ortet No.	Code No.	Ortet No.
101	G58 x 890-042	201	G58 x 892-003	301	G58	401	890-042	501	892-003
102	G38 x 888-877	202	G38 x 892-004	302	G38	402	888-877	502	892-004
103	G17 x 888-854	203	G17 x 892-005	303	G17	403	888-854	503	892-005
104	G19 x 890-052	204	G19 x 892-006	304	G19	404	890-052	504	892-006
109	G97 x 890-044	208	G97 x 892-010	309	G97	408	890-044	508	892-010

TAMURENUI

Tasman Forest
Industries Ltd

TRIAL DESCRIPTION SHEET

FOREST OWNER: Tasman Forestry Ltd**EXPT. No.:** **FR238****FOREST:** Knights farm**CPT.:****CONTACT PERSON:** Christine Te Riini**PHONE:** 07 322 8511**FAX:****CONTROLLING AGENCY:** FRI-Genetics and Tree Improvement**WORK PLAN #:** 2350**PROJECT:** GTI**FRI CORR. File:**

PURPOSE: To compare the performance of populations of interspecific hybrids(*E.grandis* and two *E.nitens* populations),

SITE DETAILS:**LATITUDE:** 38°3'**LONGITUDE:** 176°42,**ALTITUDE:** 20m**ASPECT:****SLOPE:** 5

GROUND PREPARATION: Ripping and rotary hoeing**SOIL TYPE:****PREVIOUS USE:** Ex-pasture

EXPERIMENTAL DETAILS:

SPECIES:	E.grandis E.nitens and hybrid	STOCK:	Root trainer	DATE PLANTED:	11\94
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# OF PLOTS:	44	SIZE OF PLOTS:	15m x 24m	SPACING:	3 x 3m
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TOTAL AREA:		DEMARCATIION:	Numbered posts
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EXPERIMENTAL DESIGN:
25 tree block planting's with 3 replications

PROPOSED TREATMENT:

PROPOSED YEARS OF ASSESSMENT:	1997, 2000	PERMANANCY:	20 years
--------------------------------------	------------	--------------------	----------

ATTACHMENTS:

Layout map, stand sheet

FR EXPT: 238 SUB EXPT.:

Purpose: (100 characters maximum)

TO COMPARE PERFORMANCE OF E. GRANDIS
F. NITENS HYBRIDS AND PROVIDE MATERIAL
FOR WOOD PROPERTY STUDIES

Species Codes:

E	U	N	I	T
E	U	G	R	N
E	U	G	N	I

[illegible]

Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1994			FRI		2350

Related Programs					

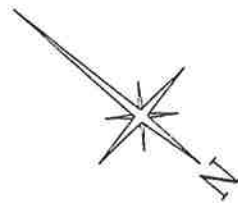
Contact Officer:

[illegible]

E.grandis/nitens hybrid trial (Block plantings)
FR238
Tamurenui. Tasman Forestry Ltd.

209	208		
400			
210		207	186
500	300		
211	206		
103	117	187	175
212	205	188	174
500	400	202	
213	204	189	
300	109	204	300
214	203	190	172
215	202	191	171
208	400	500	102
216	201	192	170
101	300	400	203
217	200	193	169
204	203	500	111
218	199	194	168
103	400	300	
219	198	195	167
500	202	500	
220	197	196	166
300	400	101	

185	184	183	182	181
101	203	300	400	
176	177	178	179	180



Decode	
100's	= Grandis/CV Nitens
200's	= Grandis/NSW Nitens
300's	= Grandis
400's	= CV Nitens
500's	= NSW Nitens

21	22	23	24	25
20	19	18	17	16
11	12	13	14	15
10	9	8	7	6
1	2	3	4	5

Tree Position

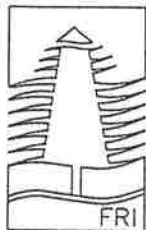
Gordon road

Meander rd

237	236	235	234	233	232	231
500	202	300	103	400	204	
224	225	226	227	228	229	230

Gordon road

0 25m
Scale

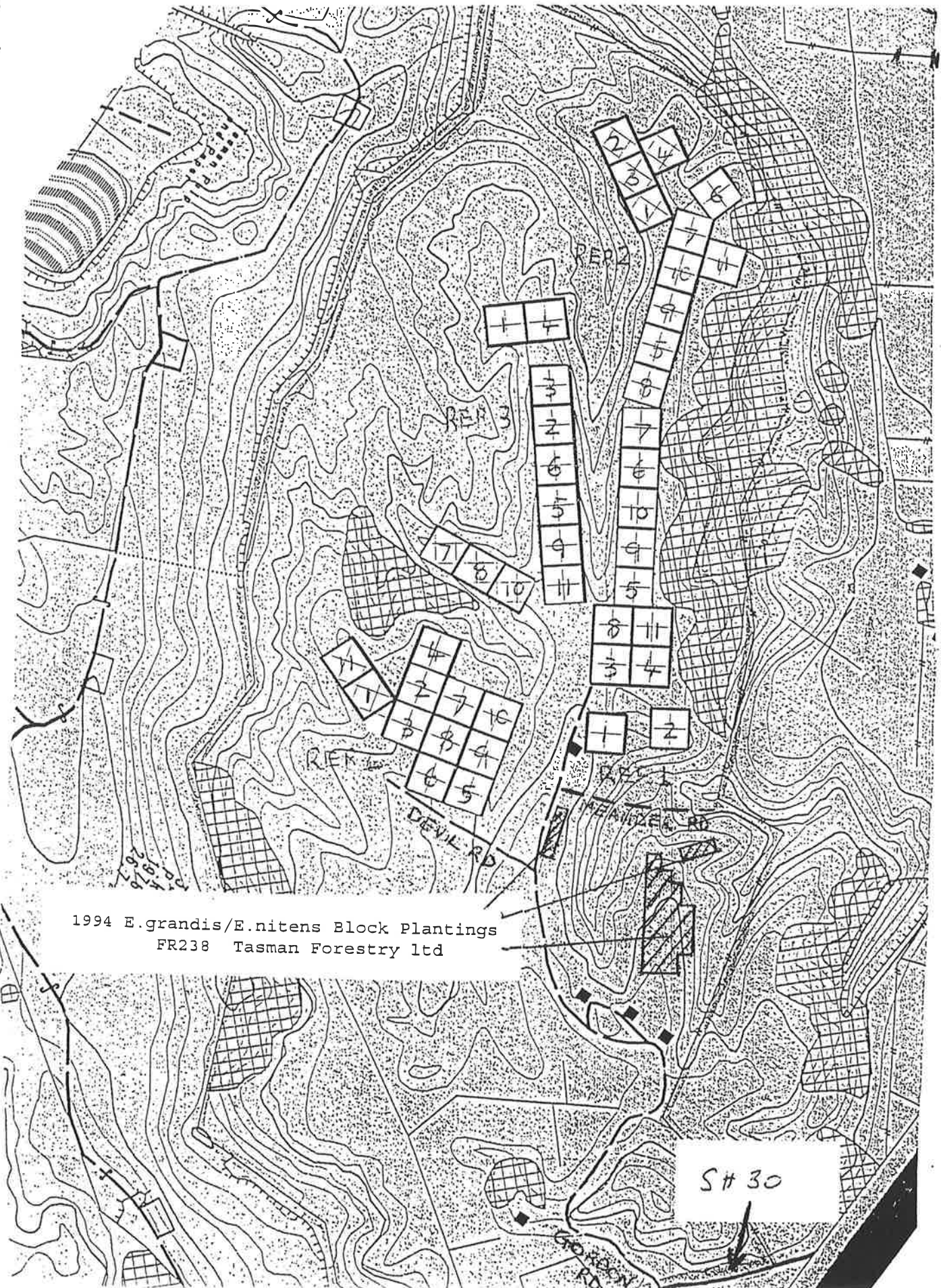


Genetics and Tree Improvement
Phone (07)3475899
Trial Number FR238
Map Number 548
Drawn by G.T.STOVOLD
Date 19/12/93

1994 *E.grandis* x *E.nitens* Interspecific Hybrids

FR 238 Block Plantings

Tamurenu



Seedlots for E.grandis x E.nitens Hybrid Trial 1994

FR238

25 Tree Block Plantings

E.grandis x E.nitens (C.V)

Code No.	Cross	
101	G58 x 890-042	3 Replications
102	G38 x 888-877	1 Replication
103	G17 x 888-854	3 Replications
109	G97 x 890-044	1 Replication
111	G47 x 888-876	1 Replication
117	V0929 x 886-811	1 Replication

E.grandis x E.nitens (NSW)

Code No.	Cross	
202	G38 x 892-004	3 Replications
203	G17 x 892-005	3 Replications
204	G19 x 892-006	3 Replications
208	G97 x 892-010	1 Replication

E.grandis

Code No.	
300	Equal mix of the below 8 Replications
301	G58
302	G38
303	G17
304	G19
305	G74
306	G75
307	G101
308	G39
309	G97
310	G47

E.nitens (C.V)

Code No.	
400	Equal mix of the below 8 Replications
401	890-042
402	888-877
403	888-854
404	890-052
405	890-055
406	888-885
407	890-045
408	890-044
410	888-876

E.nitens (NSW)

Code No.	
500	Equal mix of the below 8 Replications
501	892-003
502	892-004
503	892-005
504	892-006
505	892-007
506	892-008
507	892-009
508	892-010

TYLEES BLOCK

**Tasman Forest
Industries Ltd**

TRIAL DESCRIPTION SHEET

FOREST OWNER: TASMAN FOREST INDUSTRIES
LTD

EXPT. No.: FR 273

FOREST:

CPT.: TYLEES

CONTACT PERSON: STEFF KIRCHEFF

PHONE: 025 824 094

FAX: 07 349 4649

CONTROLLING AGENCY: GTI

WORK PLAN #: 2318

PROJECT: GTI

FRI CORR. File:

PURPOSE: To estimate breeding values for 190 progenies of *E.fastigata*

SITE DETAILS:

LATITUDE: 176 19 30

LONGITUDE: 38 37

ALTITUDE: 530m

ASPECT: W

SLOPE: 0 - 5°

GROUND PREPARATION: Rotary hoeing, ripping and mounding

SOIL TYPE: Taupo pumice/ash

PREVIOUS USE: Ex-pasture

EXPERIMENTAL DETAILS:

SPECIES: *E.fastigata* **STOCK:** Root trainer **DATE PLANTED:** 11/95

OF PLOTS: 200 **SIZE OF PLOTS:** 24 x 20m, 18 x 20 **SPACING:** 3 x 4.5m (approx)

TOTAL AREA: 9.1ha

DEMARCATIION: Numbered posts

EXPERIMENTAL DESIGN:

5 Subline/sets, 40 replications per set, 40m buffer between sublines, single tree plot design

PROPOSED TREATMENT:

Trial to be kept weed free for 2 years

PROPOSED YEARS OF ASSESSMENT:

PERMANENCY:

ATTACHMENTS:

Trial map

Listing of family codes used by set

Single Tree Plot Data

Register of Field Experiments

FR

EXPT:

273

SUB EXPT.:

Forest	Compartment	P/year	Total Area (ha.)
	TYLEES	1995	

Landowner FOREST

TASMAN INDUSTRIES LTD

Purpose: (100 characters maximum)

ESTIMATE BREEDING VALUES FOR 190
OP PROGENIES OF EUCALYPTUS FASTIGATA.

Species Codes:

EUFAS

Keywords: (up to 6 words or phrases of 35 characters)

PROGENY TEST

PROVENANCE TEST

SUBLINES

E. FASTIGATA

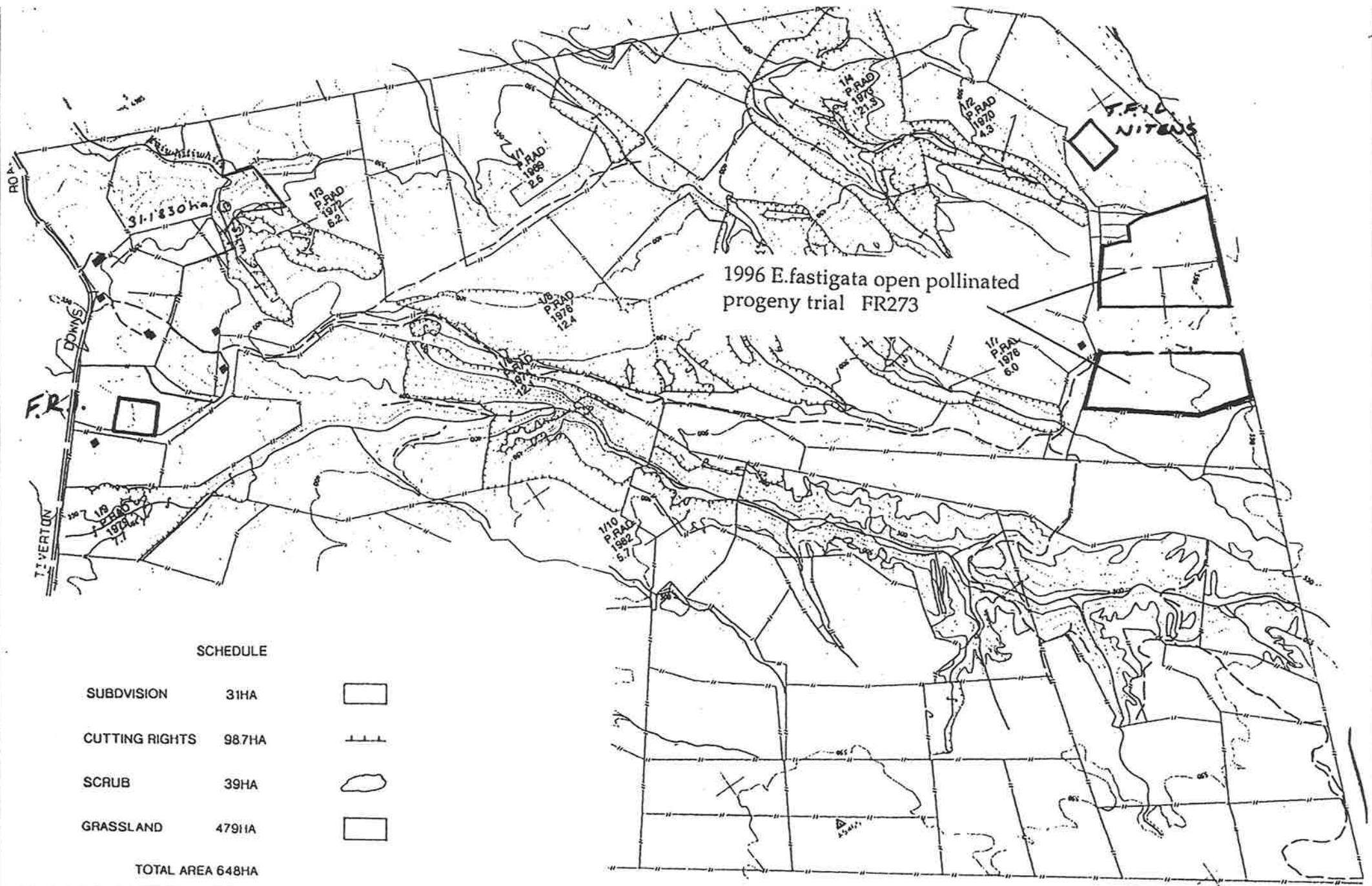
Experiment Start yr.	Current Plots	Plots Terminated	Control Agency	FRI related Projects	FRI WP/no.
1995			GTI		2318

Related Programs

Contact Officer:

R MCCORMOCKIE

GTI



Any Quercus King
 & Manray, Craig
 3457590

TYLEE
 TASMAN FOREST INDUSTRIES LIMITED

CONTOURS 10 METERS



SHEET

94/8

DRAWN

CHECKED

SCALES

SERIES OF

TRACED

DATE 23/4/96

1:10000

MAP

1995 E.fasligata STP Trial FR273
Tylees Farm, Tasman Forest Industries Ltd

Tree Position (F)

24	23	22	21	20	19
13	14	15	16	17	18
12	11	10	9	8	7
1	2	3	4	5	6

8F	9F	24F	25F	40F
7F	10F	23F	26F	39F
6F	11F	22F	27F	38F
5F	12F	21F	28F	37F
4F	13F	20F	29F	36F
3F	14F	19F	30F	35F
2F	15F	18F	31F	34F
1F	16F	17F	32F	33F

Rip direction

8C	9C	24C	36C
7C	10C	23C	35C
6C	11C	22C	34C
5C	12C	21C	33C
4C	13C	20C	32C
3C	14C	19C	26C
2C	15C	18C	27C
1C	16C	17C	28C



Tree Position (A-E)

32	31	30	29	28	27	26	25
17	18	19	20	21	22	23	24
16	15	14	13	12	11	10	9
1	2	3	4	5	6	7	8

7E	8E	24E	33E	34E
6E	9E	32E	35E	
5E	10E	23E	31E	36E
4E	11E	22E	30E	37E
3E	12E	21E	29E	38E
2E	13E	20E	28E	39E
1E	14E	19E	27E	40E
15E	18E	26E		
16E	17E	25E		

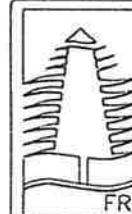
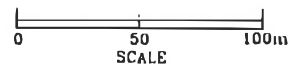
6B	7B	23B	40B
5B	8B	24B	39B
4B	9B	22B	25B
3B	10B	21B	26B
2B	11B	20B	27B
1B	12B	19B	28B
13B	18B	29B	34B
2B	14B	17B	30B
1B	15B	16B	31B

9A	31A
10A	30A
11A	29A
12A	28A
8A	13A
7A	14A
6A	15A
5A	16A
4A	17A
3A	18A
2A	19A
1A	20A

Fence

Track

Fence



Genetics and Tree Improvement

Phone (07)3475899

Trial Number FR273

Map Number 561

Drawn by G.T.STOVOLD

Date 20/11/95

1 A								1 B								1 C												
247							268	121							158	131												148
962	963	783	951	959	952	961	954	999	836	996	987	978	995	973	993	866	871	879	886	870	887	876					868	
956	953	967	966	111	784	955	222	976	983	981	992	994	111	975	988	882	872	816	883	881	878	222					893	
970	781	782	333	950	960	788	786	894	997	972	998	986	979	971	989	877	889	892	885	888	867	819					817	
789	958	957	787	964	969	968	965	977	985	974	826	980	984	982	222	873	840	875	818	891	884	869					874	
246							269	120							159	130												149
2 A								2 B								2 C												
248							267	122							157	132												147
951	952	970	789	787	955	333	786	971	984	979	974	997	977	836	976	222	888	870	875	883	871	866					874	
960	788	953	962	967	959	784	964	989	982	995	996	981	985	986	826	884	878	892	886	885	876	840					889	
957	781	782	968	783	111	954	965	993	980	111	978	992	972	987	999	819	887	881	818	816	893	877					868	
966	958	961	963	969	956	222	950	988	222	994	973	998	894	975	983	869	891	867	879	882	873	872					817	
247							268	121							158	131												148
3 A								3 B								3 C												
249							266	126							153	133												146
333	787	781	953	952	967	969	783	975	973	971	978	836	999	977	994	884	869	888	871	873	816	866					874	
954	959	960	962	966	784	968	965	980	989	996	984	894	985	972	998	878	867	887	881	875	883	840					893	
786	111	951	789	950	970	957	788	988	973	971	995	986	983	976	992	891	819	892	885	877	882	872					868	
955	956	963	782	964	961	958	222	111	988	982	222	997	826	974	981	876	222	870	879	818	886	889					817	
248							267	125							154	132												147
4 A								4 B								4 C												
251							264	127							152	134												145
965	963	961	958	966	787	950	786	982	994	222	979	998	981	999	977	884	881	878	867	818	877	889					874	
789	952	781	783	969	111	964	956	993	986	989	984	972	997	985	836	869	885	891	887	879	883	872					893	
953	951	782	968	970	959	333	955	988	973	971	995	978	992	983	976	888	222	870	882	816	873	840					868	
967	962	960	788	957	784	222	954	975	996	111	980	987	974	894	826	819	876	886	892	875	871	866					817	
250							265	126							153	133												146
5 A								5 B								5 C												
252							263	128							151	135												144
969	783	961	967	962	787	333	950	222	993	994	996	981	836	977	988	222	884	870	885	817	816	872					866	
968	788	970	782	959	956	954	222	973	984	987	972	992	997	894	111	878	887	867	893	881	892	873					871	
958	781	966	952	789	111	964	786	982	989	975	998	999	983	976	995	869	891	888	874	882	879	877					840	
957	960	951	963	953	784	955	965	979	980	974	986	978	826	985	971	819	876	875	868	886	818	883					889	
251							264	127							152	134												145
6 A								6 B								6 C												
253							262	129							150	136												143
955	968	784	222	964	952	786	783	980	994	996	992	836	977	988	971	868	875	885	872	840	883	867					869	
965	958	963	782	787	954	959	788	993	981	978	998	985	983	989	222	817	816	873	889	892	870	887					884	
967	957	961	970	789	111	962	960	975	984	986	974	894	976	973	995	874	882	866	888	879	886	891					222	
950	969	781	951	333	953	956	966	982	997	987	972	999	826	979	111	893	877	871	881	818	878	876					819	
252							263	128							151	135												144
7 A								7 B								7 C												
254							261	150							169	137												142
787	784	781	957	950	967	952	783	983	977	984	999	975	988	993	996	868	872	883	877	818	888	878					876	
789	954	968	961	964	111	953	969	836	985	981	974	973	982	222	994	817	866	816	886	879	867	891					869	
333	955	958	963	965	959	222	970	894	997	972	992	986	989	979	980	893	889	873	882	881	885	819					884	
962	786	960	966	956	782	788	951	976	998	826	987	978	971	111	995	874	840	871	875	892	870	887					222	
253							262	151							168	136												143
8 A								8 B								8 C												
255							260	151							168	138												141
786	968	788	782	783	955	965	956	989	982	993	981	992	972	997	985	819	876	881	818	886	893	872					868	
333	958	961	952	787	954	784	964	971	994	222	986	979	976	977	836	884	869	870	892	883	873	840					817	
950	957	951	963	111	970	969	967	973	988	984	995	987	998	978	826	222	878	887	875	816	877	866					889	
222	781	966	962	953	960	789	959	980	975	999	111	996	974	983	894	891	888	867	879	882	885	871					874	
254							261	152							167	137												142
9 A								9 B								9 C												
256							282	152							167	141												178
970	965	783	950	963	967	788	961	988	989	971	996	980	975	992	987	871	887	875	888	892	819	876					889	
951	960	786	333	954	955	968	966	976	993	222	977	999	111	973	972	816	879	886	885	870	891	878					817	
957	787	962	964	958	111	952	969	836	979	995	985	998	984	986	983	840	818	877	882	867	222	868					874	
782	789	222	953	959	784	956	781	982	994	894	997	978	974	826	981	866	883	873	872	881	884	869					893	
257							281	153							166	142												177
10 A								10 B								10 C												
257							281	153							166	142												177
969	966	961	953	111	789	960	222	972	987	111	976	971	999	975	997	874	869	819	885	886	882	887					866	
963	952	788	967	784	965	786	955	992	996	979	985	982	826	983	993	868	893	222	892	888	883	877					840	
957	968	951	970	956	787	781	954	981	978	994	984	977	973	989	988	817	876	867	884	816	872	875					871	
964	782	783	962	959	333	958	950	974	986	998	980	836	894	995	222	889	878	891	881	870	873	818					879	
258							280	154							165	143												176

11 A								11 B								11 C							
258							280	154						165	143			176					
950	956	966	962	970	963	967	787	993	994	984	983	973	992	981	986	878	893	892	881	816	840	879	875
333	781	788	965	952	951	958	784	971	979	988	980	975	999	997	978	876	819	870	884	888	872	871	886
954	783	960	955	782	961	964	222	996	836	989	985	976	826	974	987	874	889	869	885	883	887	866	877
959	969	968	111	957	953	789	786	982	222	995	111	977	894	998	972	817	868	891	222	867	882	873	818
259							279	155							164	144							175
12 A								12 B								12 C							
259							279	155							164	144							175
956	968	969	782	783	787	333	965	993	979	994	980	974	986	978	987	879	886	882	888	885	819	891	867
955	781	951	961	952	789	962	786	982	222	996	111	984	985	998	826	866	816	875	222	874	881	869	878
954	957	966	963	788	111	967	222	989	836	995	894	973	976	992	981	871	818	883	872	892	870	817	868
784	970	960	959	958	953	964	950	988	971	983	975	977	997	999	972	840	873	887	877	876	884	893	889
260							278	156							163	145							17
13 A								13 B								13 C							
260							278	156							163	145							174
963	784	961	967	968	787	111	958	978	992	826	997	984	971	973	982	817	874	893	867	884	870	875	871
956	333	969	953	954	965	789	966	974	987	972	894	995	979	994	996	868	869	881	222	892	885	818	866
952	222	783	962	964	955	959	970	999	998	977	111	983	993	989	980	878	891	882	873	887	872	888	879
781	950	957	951	960	786	782	788	986	981	975	985	976	988	836	222	889	819	816	886	876	877	883	840
261							277	157							162	146							173
14 A								14 B								14 C							
261							277	157							162	146							173
782	953	970	961	968	784	222	969	996	979	836	997	977	985	998	987	875	871	870	887	872	869	893	819
951	962	964	783	957	956	786	333	993	982	995	111	984	999	986	978	866	879	877	892	867	884	222	817
952	959	967	966	781	965	111	954	989	994	988	974	975	994	982	981	818	873	883	888	885	878	876	874
963	787	958	960	788	789	955	950	222	971	980	976	973	983	992	972	840	886	816	882				

21 A										21 B										21 C									
271									295	166							191	175									182		
786	784	789	111	953	783	960	958		958	997	988	971	981	995	984	992	996	818	888	877	872	866	886	889	885		885		
333	787	222	951	956	788	957	963		963	999	974	998	982	826	836	894	986	887	867	892	875	874	881	870	819		819		
950	782	955	959	970	952	968	967		967	983	976	993	222	980	973	994	972	891	878	882	871	883	893	869	884		884		
954	964	965	961	962	966	781			967	977	985	975	989	987	111	979	978	876	879	816	873	868	840	222		-9	-9		
270									296	165							192	174									183		
22 A										22 B										22 C									
272									294	167							190	176									181		
788	952	781	951	962	786	950	965		965	894	976	994	996	989	995	982	988	891	879	872	877	868	840	819	881		881		
783	961	787	953	333	956	222	789		789	985	984	836	972	111	979	222	974	876	818	892	875	866	893	884	885		885		
958	957	966	967	955	782	111	784		784	977	999	980	978	971	826	987	993	878	867	882	871	883	874	222		-9	-9		
960	968	969	970	959	963	954	964		964	997	983	992	986	973	975	998	981	887	888	816	873	886	889	870	869		869		
271									295	166							191	175									182		
23 A										23 B										23 C									
273									293	188							208	177									180		
783	968	969	966	782	965	111	787		787	977	996	826	980	111	975	993	987	869	889	893	883	866	877	887	888		888		
961	954	951	959	962	955	333	964		964	986	972	984	983	979	989	836	974	885	870	874	868	873	872	891	867		867		
222	784	957	952	967	789	970	956		956	985	978	995	999	973	981	222	998	884	881	871	-9	816	892	875	818		818		
788	781	958	960	953	950	786	963		963	894	997	994	992	976	971	988	982	819	222	840	886	882	879	876	878		878		
272									294	189							207	176									181		
24 A										24 B										24 C									
274									292	189							207	178									179		
784	955	970	963	969	961	781	968		968	983	999	971	974	995	836	994	978	888	882	874	816	881	873	893	870		870		
965	950	111	787	959	952	957	951		951	977	894	222	981	973	982	826	972	891	818	875	-9	840	885	886	222		222		
789	786	956	964	962	967	958	788		788	976	998	988	989	111	993	992	996	876	878	872	883	871	892	889	869		869		
333	954	222	782	953	966	960	783		783	985	987	997	975	980	979	986	984	887	867	877	868	879	819	866	884		884		
273									293	190							206	177									180		
25 A										25 B										25 C									
275									291	190							206	183									213		
782	333	961	960	781	222	787	965		965	982	988	979	980	987	-9	998	972	876	892	879	873	871	816	874	882		882		
958	950	951	783	952	957	784	786		786	971	973	984	986	894	985	974	992	891	870	818	222	887	889	884	883		883		
789	959	963	788	968	966	964	956		956	993	995	111	994	997	981	826	983	819	881	875	885	886	866	869	872		872		
111	970	953	969	955	954	962	967		967	989	222	975	977	999	996	978	976	867	878	868	888	840	893	-9	877		877		
274									292	191							205	184									212		
26 A										26 B										26 C									
277									288	191							205	184									212		
955	787	964	970	967	957	781	969		969	993	989	994	999	985	978	997	826	869	818	875	887	893	886	872	874		874		
954	333	784	959	962	951	961	783		783	986	222	982	111	984	972	998	974	878	879	222	888	816	889	868	881		881		
958	956	950	789	965	968	966	788		788	979	988	975	-9	977	983	981	996	884	819	876	873	840	883	882	892		892		
222	963	111	953	786	952	782	960		960	971	973	995	980	976	894	992	987	891	867	885	866	871	-9	877	870		870		
276									289	192							204	185									211		
27 A										27 B										27 C									
278									287	192							204	185									211		
957	964	967	969	950	961	333	958		958	996	981	974	976	975	973	982	989	-9	867	887	885	873	889	866	872		872		
788	966	960	952	781	956	782	953		953	986	894	985	972	994	984	980	993	892	870	222	878	891	871	882	840		840		
783	784	963	789	786	954	970	962		962	987	992	995	998	826	222	111	979	868	819	869	888	875	886	877	874		874		
951	968	111	222	955	965	959	787		787	983	978	999	997	977	-9	988	971	881	884	876	879	818	893	883	816		816		
277									288	193							203	186									210		
28 A										28 B										28 C									
279									286	193							203	186									210		
962	954	968	784	967	970	111	783		783	984	993	982	222	976	977	974	978	867	870	819	-9	883	872	840	875		875		
953	333	222	965	969	951	956	957		957	979	994	989	826	985	992	111	987	874	876	892	879	868	889	886	818		818		
952	958	786	955	961	966	964	960		960	988	-9	971	986	894	972	999	996	884	891	888	222	882	893	873	816		816		
959	950	963	789	788	782	787	781		781	975	995	980	997	983	981	973	998	881	869	887	885	877	866	871	878		878		
278									287	194							202	187									209		
29 A										29 B										29 C									
280									285	194							202	210									227		
957	788	970	787	782	955	333	964		964	978	977	998	999	980	-9	222	993	882	877	866	875	876	885	869	884		884		
783	961	966	959	111	954	956	784		784	986	826	976	985	894	973	988	971	868	816	889	871	887	878	891	870		870		
958	968	953	962	951	786	950	789		789	992	974	983	981	995	994	975	979	872	840	818	873	222	881	819	883		883		
969	781	952	963	960	965	222	967		967	987	996	972	111	997	984	982	989	-9	893	879	886	888	892	867	874		874		
279									286	195							201	209									228		
30 A										30 B										30 C									
281									284	195							201	211									226		
957	952	963	964	950	786	959	951		951	982	111	980	975	997	977	974	978	867	870	888	887	818	873	816	868		868		
965	783	953	955	-9	787	961	969		969	971	989	995	994	985	983	992	986	892	884	876	885	879	871	889	882		882		
956	968	781	966	111	954	962	789		789	988	826	222	973	894	972	998	987	881	819	891	222	840	886	877	872		872		
782	788	960	784	333	222	970	967		967	993	979	984	-9	999	976	981	996	-9	869	-9	878	875	893	866	883		883		
280									285	196							200	210									227		

31 A								31 B								31 C							
282							283	196						200	212							225	
952	957	966	222	961	967	333	962	986	976	998	997	980	984	971	993	877	872	878	840	892	819	881	
969	788	970	787	951	789	950	786	996	992	826	894	222	-9	988	989	883	866	873	889	870	869	884	
968	953	963	111	781	965	959	964	981	974	983	977	994	111	982	979	882	871	875	879	888	876	886	
783	960	956	-9	782	955	954	784	978	972	987	985	999	995	975	973	893	818	885	222	891	887	867	
281							284	197							199	211						226	
32 A								32 B								32 C							
290							303	200							406	213						224	
787	954	782	222	955	966	964	783	978	981	998	-9	999	975	111	979	872	-9	882	876	818	892	871	
-9	950	962	951	961	781	956	968	996	992	974	984	985	971	222	989	816	883	877	888	891	873	885	
789	952	959	963	960	786	967	957	986	972	976	994	997	973	995	982	870	840	887	-9	881	869	819	
969	333	970	953	111	965	784	788	987	894	977	983	826	993	980	988	866	878	-9	886	875	889	884	
291							302	199							407	212						225	
33 A								33 B								33 C							
291							302	201							405	214						223	
968	781	966	967	789	787	786	965	971	973	111	983	985	992	994	978	884	866	888	867	883	892	-9	
961	783	960	-9	784	963	956	964	989	982	979	984	980	826	998	987	893	882	877	872	878	869	889	
957	969	959	951	953	954	950	955	988	995	-9	976	977	999	981	996	222	870	840	818	881	876	-9	
788	782	970	952	962	111	222	333	222	993	975	894	997	974	972	986	879	886	816	887	891	875	871	
292							301	200							406	213						224	
34 A								34 B								34 C							
292							301	202							404	215						222	
961	957	969	970	782	789	967	955	986	987	985	977	894	979	222	989	882	-9	893	867	876	883	818	
781	788	953	962	963	956	222	965	972	974	992	980	983	111	995	988	877	-9	819	889	892	869	816	
968	960	962	966	787	111	950	786	996	998	999	994	976	984	982	973	887	222	879	873	875	878	881	
783	951	959	-9	964	784	333	954	978	997	826	981	-9	975	971	993	840	884	-9	871	885	891	872	
293							300	201							405	214						223	
35 A								35 B								35 C							
293							300	203							403	216						221	
784	222	955	952	970	966	961	788	989	993	111	980	974	992	826	981	-9	884	891	869	867	887	883	
333	954	965	964	963	-9	781	957	982	973	-9	977	975	997	994	978	-9	-9	876	875	878	840	881	
950	787	967	111	782	959	951	968	971	222	979	998	984	985	986	987	819	879	873	885	872	882	818	
956	786	789	962	953	969	960	783	988	976	995	999	983	894	972	996	222	889	892	893	871	877	816	
294							299	202							404	215						222	
36 A								36 B								36 C							
294							299	204							402	217						220	
957	951	952	966	959	784	111	786	981	978	974	980	971	989	972	982	878	883	867	869	886	840	868	
783	781	-9	967	953	964	950	955	826	999	986	992	984	993	995	979	888	882	875	887	877	818	884	
961	969	960	963	789	956	222	965	998	994	997	976	983	973	977	222	866	866	879	885	889	871	819	
968	970	788	782	962	333	954	787	987	996	111	985	988	894	836	975	891	872	222	876	893	873	870	
295							298	203							403	216						221	
37 A								37 B								37 C							
295							298	205							401	221						245	
788	965	333	963	961	955	956	952	995	975	989	222	992	987	994	972	222	881	877	867	871	879	892	
781	787	950	969	968	786	782	962	971	993	976	982	983	998	996	978	819	816	882	876	884	893	840	
951	111	222	966	783	964	954	970	973	836	985	894	977	111	974	986	-9	872	887	869	889	885	866	
957	789	953	-9	959	967	784	960	988	980	984	979	999	997	826	981	-9	818	878	875	-9	873	870	
296							297	204							402	222						244	
38 A								38 B								38 C							
300							304	206							400	222						244	
222	961	-9	970	959	953	960	786	978	826	994	992	836	983	993	222	-9	879	892	875	869	840	866	
333	957	951	782	967	965	966	954	987	986	111	995	984	980	973	989	-9	-9	819	891	876	887	888	
950	968	969	963	955	956	952	789	981	972	974	997	985	982	979	988	893	889	873	885	872	818	882	
783	788	964	784	787	962	781	111	998	996	999	977	894	976	975	971	884	871	222	867	881	878	883	
299							305	205							401	223						243	
39 A								39 B								39 C							
299							305	207							230	223						243	
784	-9	783	956	965	959	960	333	978	998	981	977	894	982	993	975	886	877	876	872	222	893	889	
964	969	968	789	955	962	951	950	974	999	972	997	983	971	979	988	888	866	818	892	875	873	879	
111	782	781	963	954	970	966	222	996	826	987	985	980	222	976	973	887	870	891	840	878	885	871	
787	953	957	967	786	788	952	961	986	994	111	992	984	995	-9	989	882	816	883	881	869	819	867	
298							306	206							400	224						242	
40 A								40 B								40 C							
298							306	208							229	224						242	
962	964	784	965	966	111	952	789	988	971	973	976	984	994	986	996	870	816	840	818	891	875	893	
953	782	956	955	787	961	969	960	982	993	975	977	992	974	999	978	887	882	872	869	881	885	871	
959	970	786	954	-9	783	957	967	222	-9	979	983	894	981	998	987	886	878	866	867	873	819	879	
333	950	963	222	951	968	781	788	989	995	980	985	997	826	111	972	888	877	876	883	892	889	222	
297							307	207							230	225						246	

1 E										1 F									
2									36	10									28
941	946	927	939	937	921	923	932			909	906	915	333	904	444				
934	942	924	920	938	945	925	926			912	910	914	907	903	911				
936	918	948	949	930	922	929	943			908	896	905	916	913	899				
940	933	944	931	928	111	919	947			897	902	898	917	222	111				
1							37			9					29				

2 E										2 F									
3									35	11									27
944	949	920	926	942	928	925	939			916	903	907	914	902	909				
927	946	918	945	111	938	923	933			333	111	913	899	912	910				
936	931	932	922	937	929	941	943			917	444	222	915	897	906				
948	940	924	921	930	919	934	947			904	905	911	898	908	896				
2							36			10					28				

3 E										3 F									
4									34	12									26
946	949	921	942	929	111	938	934			912	906	905	222	902	916				
936	918	920	930	937	941	943	933			909	914	898	333	899	903				
940	944	931	928	945	932	919	923			897	908	907	917	111	904				
927	924	948	922	926	925	939	947			910	896	915	913	911	444				
3							35			11					27				

4 E										4 F									
5									33	13									25
947	929	111	928	924	946	944	934			912	897	898	444	916	111				
923	926	942	937	922	931	933	941			908	910	904	905	333	914				
943	925	930	939	920	949	918	936			896	906	899	903	913	915				
919	932	938	945	921	948	940	927			907	909	917	911	222	902				
4							34			12					26				

5 E										5 F									
6									32	14									24
940	927	933	930	945	111	926	932			444	111	907	906	899	909				
934	936	944	949	938	929	943	919			911	917	333	914	915	896				
918	946	931	920	942	939	937	947			904	902	898	905	910	897				
941	948	924	921	928	922	923	925			903	222	913	916	912	908				
5							33			13					25				

6 E										6 F									
7									31	15									23
946	949	937	944	938	942	926	941			897	915	911	903	914	898				
948	931	945	920	928	923	925	934			910	912	902	333	916	111				
936	924	922	918	929	943	947	939			896	908	905	444	899	917				
940	930	932	927	921	111	919	933			909	907	222	904	906	913				
6							32			14					24				

7 E										7 F									
8									30	16									22
946	944	922	920	945	937	932	939			444	917	913	905	897	896				
940	949	931	929	938	947	943	919			903	916	899	898	912	333				
948	918	936	928	942	925	926	933			911	222	111	908	910	907				
924	927	921	930	111	923	941	934			904	902	914	906	909	915				
7							31			15					23				

8 E										8 F									
30									49	17									21
943	925	945	942	931	940	941	949			444	111	222	905	896	898				
947	932	111	928	934	920	936	918			903	333	916	915	899	912				
919	937	929	938	944	921	946	948			911	917	902	907	910	908				
926	939	923	933	930	922	924	927			904	913	914	906	909	897				
31							48			16					22				

9 E										9 F									
31									48	21									58
940	934	922	923	930	921	946	943			907	910	915	333	111	222				
936	111	926	941	948	928	924	939			896	906	909	444	902	917				
949	945	947	932	918	927	931	933			897	898	911	914	916	903				
925	938	929	942	919	937	944	920			908	912	899	913	905	904				
32							47			22					57				

10 E										10 F									
32									47	22									57
941	923	946	922	942	940	945	928			111	913	902	898	912	906				
938	943	939	948	929	936	947	937			333	222	917	896	897	909				
920	926	932	944	921	924	949	931			903	916	911	905	908	907				
934	925	111	919	930	933	927	918			904	444	914	899	915	910				
33							46			23					56				

Map No. 561 h

11 E										11 F									
33									46	23									56
923	920	111	931	919	949	918	924			904	917	914	444	897	912				
929	939	-7	945	927	943	942	936			111	905	911	333	222	908				
941	934	922	926	946	940	930	921			903	902	907	910	899	915				
933	938	932	937	925	948	928	944			913	916	906	898	896	909				
34							45			24					55				
12 E										12 F									
34									45	24									55
948	924	937	922	923	926	938	933			911	913	917	896	912	910				
921	940	918	930	928	920	111	934			222	902	916	444	899	906				
949	946	944	945	919	942	929	941			905	903	904	908	915	907				
927	936	947	931	925	932	943	939			914	333	111	898	897	909				
35							44			25					54				
13 E										13 F									
35									44	25									54
939	941	943	923	937	924	948	946			916	903	899	907	911	910				
925	934	947	922	930	927	921	944			902	913	898	906	222	912				
929	111	932	926	942	945	931	949			111	444	896	915	897	908				
933	938	920	928	919	936	918	940			917	904	914	905	333	909				
36							43			26					53				
14 E										14 F									
36									43	26									53
931	947	944	111	943	923	920	946			908	917	916	902	911	905				
940	927	949	926	928	941	929	922			909	903	222	444	907	912				
921	924	937	918	938	934	925	942			906	904	899	333	896	910				
948	936	945	930	933	932	939	919			915	111	914	913	898	897				
37							42			27					52				
15 E										15 F									
37									42	27									52
934	941	942	919	928	921	944	949			897	907	905	222	444	904				
933	939	945	920	943	948	940	927			896	912	915	911	902	917				
932	929	923	922	937	918	946	924			908	909	914	333	916	111				
938	111	926	925	930	947	931	936			906	910	898	899	913	903				
38							41			28					51				
16 E										16 F									
38									41	28									51
928	933	949	941	943	919	937	948			909	896	907	911	904	444				
947	939	927	929	922	930	942	946			910	915	899	914	903	333				
940	926	918	111	945	934	925	931			897	908	898	913	916	902				
936	932	924	938	923	920	921	944			906	912	905	917	111	222				
39							40			29					50				
17 E										17 F									
41									79	51									69
924	927	944	921	942	111	929	930			444	899	909	908	911	913				
933	931	918	945	937	947	932	926			902	914	905	912	111	897				
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948	936	939	949	925	938	941	928			903	916	906	333	915	907				
40							60			50					70				
18 E										18 F									
42									78	52									68
938	947	922	928	930	946	940	934			908	914	896	111	333	222				
919	926	923	932	944	918	948	949			915	897	905	913	904	444				
111	942	925	929	936	921	920	933			912	910	906	917	903	916				
941	945	931	943	924	937	927	939			909	907	898	899	911	902				
41							79			51					69				
19 E										19 F									
43									77	53									67
938	919	931	948	939	928	927	946			333	903	904	907	898	915				
947	932	937	933	921	945	918	936			222	444	914	906	910	908				
943	111	923	926	942	920	941	949			902	111	905	899	896	912				
929	930	925	924	944	934	940	922			916	911	913	917	897	909				
42							78			52					68				
20 E										20 F									
44									76	54									66
943	928	925	923	945	930	948	927			912	909	913	899	916	902				
920	929	947	111	931	932	940	944			915	906	917	914	222	333				
922	941	938	918	933	939	934	921			897	910	903	898	111	444				
926	949	936	946	919	942	924	937			908	896	907	905	911	904				
43							77			53					67				

21 E										21 F									
45									75	55									65
943	928	930	931	945	934	924	946			904	444	911	333	907	908				
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932	111	925	922	927	921	944	918			902	916	915	905	906	896				
44							76			54					66				
22 E										22 F									
46									74	56									64
926	943	932	928	948	939	921	942			907	909	899	222	904	898				
938	929	937	931	946	936	934	945			897	910	915	333	111	903				
919	947	930	922	949	924	940	933			896	906	914	902	444	913				
111	941	925	923	920	944	927	918			908	912	905	916	917	911				
45							75			55					65				
23 E										23 F									
47									73	57									63
918	942	933	931	925	923	919	922			908	444	910	904	899	905				
946	924	930	944	945	921	943	932			897	916	909	111	898	907				
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948	940	927	920	937	111	947	938			896	333	906	911	902	914				
46							74			56					64				
24 E										24 F									
49									71	58									62
111	938	929	931	934	924	-9	918			916	444	333	899	111	908				
947	922	930	923	949	939	927	946			904	911	917	915	896	912				
943	932	928	921	945	920	948	933			902	903	905	898	906	897				
926	919	937	942	925	936	944	940			222	913	914	907	910	909				
48							72			57					63				
25 E										25 F									
79									81	62									98
925	932	928	919	934	927	918	944			896	909	913	902	222	904				
938	923	929	933	930	924	946	940			897	912	899	905	917	444				
111	926	922	945	921	949	948	937			907	915	906	914	916	903				
-9	947	943	942	936	931	920	939			908	910	898	111	911	333				
60							80			63					97				
26 E										26 F									
78									82	63									97
111	925	943	922	931	946	948	939			896	915	897	333	444	899				
932	926	919	945	937	921	934	936			909	905	907	913	902	916				
938	929	947	942	920	949	927	924			912	906	898	911	917	222				
-9	923	930	928	918	940	944	933			908	111	910	903	914	904				
79							81			64					96				
27 E										27 F									
77									83	64									96
944	942	949	929	945	111	930	931			902	111	905	914	912	910				
937	920	939	923	943	926	921	936			333	903	911	915	896	897				
924	922	940	947	932	918	933	934			916	913	917	898	908	906				
927	946	948	928	925	938	-9	919			222	904	444	907	909	899				
78							82			65					95				
28 E										28 F									
76									84	65									95
949	918	942	945	923	938	931	927			904	444	906	905	907	912				
944	936	920	928	943	929	937	111			916	911	917	914	909	896				
946	933	922	930	947	932	-9	924			333	903	111	898	910	908				
940	939	921	919	926	925	-9	934			902	222	913	915	899	897				
77							83			66					94				
29 E										29 F									
75									85	66									94
-9	925	111	922	937	-9	936	944			903	911	111	908	905	910				
929	938	947	930	921	948	949	924			222	917	914	906	915	904				
932	926	945	919	918	920	940	933			333	902	913	909	907	896				
923	943	928	942	946	931	927	939			916	444	898	899	897	912				
76							84			67					93				
30 E										30 F									
74									86	67									93
927	924	919	929	937	918	925	932			444	912	907	914	911	902				
948	942	947	943	930	945	926	938			913	896	904	915	222	916				
921	944	928	939	949	940	931	111			908	897	910	905	917	111				
920	933	946	923	-9	936	922	-9			906	909	898	899	903	333				
75							85			68					92				

31 E										31 F									
73									87	68									92
933	939	942	922	921	928	945	925			908	897	909	913	903	333				
924	920	-9	936	937	930	932	929			910	906	111	905	911	444				
927	944	948	919	931	923	926	938			896	907	915	898	917	916				
-9	946	949	940	918	947	943	111			912	904	899	914	222	902				
74							86			69					91				
32 E										32 F									
72									88	69									91
925	923	930	942	-9	949	920	933			903	898	222	915	896	912				
111	943	928	931	937	940	948	924			-9	111	917	899	897	907				
938	926	945	947	921	922	939	927			333	913	914	906	909	444				
-9	929	932	918	946	919	936	944			916	911	902	905	910	908				
73							87			70					90				
33 E										33 F									
71									89	91									108
-9	943	-9	949	930	921	920	918			222	914	917	-9	906	897				
925	932	926	942	948	919	936	922			905	902	111	903	910	907				
111	946	923	931	927	947	937	924			898	899	444	916	909	912				
-9	928	945	944	938	929	940	939			915	913	911	333	908	896				
72							88			90					109				
34 E										34 F									
89									110	92									107
111	926	946	931	920	942	-9	-9			909	913	-9	899	917	896				
947	932	919	937	936	927	948	918			903	907	898	333	902	908				
943	923	929	928	949	940	922	939			905	906	444	222	914	897				
925	945	921	938	930	944	924	-9			910	915	911	916	111	912				
88							111			91					108				
35 E										35 F									
88									111	93									106
943	945	929	919	947	922	939	-9			914	111	902	898	896	897				
923	111	946	920	936	949	944	918			903	899	913	222	910	907				
932	925	928	937	921	930	948	924			915	917	916	906	-9	912				
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87							112			92					107				
36 E										36 F									
87									112	94									105
-9	926	946	931	937	940	924	918			910	896	905	917	111	912				
-9	928	925	929	920	949	930	927			909	902	916	-9	914	911				
932	943	111	919	947	942	948	944			908	915	907	222	333	906				
-9	923	945	938	936	921	939	922			897	898	899	444	913	903				
86							113			93					106				
37 E										37 F									
86									113	95									104
111	945	946	931	922	930	948	939			111	902	916	898	907	897				
-9	923	926	929	947	921	924	942			914	913	222	903	905	910				
-9	932	943	919	937	927	918	940			899	911	906	915	896	908				
925	-9	928	920	936	938	944	949			917	333	444	-9	912	909				
85							114			94					105				
38 E										38 F									
85									114	96									103
-9	931	945	926	921	944	939	924			444	898	896	903	913	899				
-9	943	947	929	942	940	936	930			916	915	908	897	911	111				
925	932	946	920	919	922	948	927			-9	906	909	912	222	914				
-9	111	923	937	928	938	949	918			333	907	905	910	902	917				
84							115			95					104				
39 E										39 F									
84									115	97									102
948	927	-9	937	931	925	946	111			912	908	906	907	899	902				
918	930	944	942	943	926	928	932			896	897	333	444	917	913				
924	-9	940	936	921	938	947	945			903	910	898	915	911	914				
-9	939	922	949	920	919	923	929			905	909	222	-9	916	111				
83							116			96					103				
40 E										40 F									
83									116	98									101
-9	925	111	946	920	947	924	948			912	915	903	-9	911	917				
-9	945	923	937	921	938	939	918			909	908	905	333	222	916				
932	943	919	931	922	927	944	940			910	907	898	902	899	914				
-9	926	929	928	949	936	942	930			896	897	444	906	913	111				
82							117			97					102				

APPENDIX I

SET COMPOSTION FOR E.FASTIGATA PROGENY TRIAL 1995

ORTET NO.	SET.	ORIGIN	LAT / LONG	ALT.
781	A	Jessievale S.O,Transvaal SA		
782	A	Jessievale S.O,Transvaal SA		
783	A	Jessievale S.O,Transvaal SA		
784	A	Jessievale S.O,Transvaal SA		
786	A	Jessievale S.O,Transvaal SA		
787	A	Jessievale S.O,Transvaal SA		
788	A	Jessievale S.O,Transvaal SA		
789	A	Jessievale S.O,Transvaal SA		
950	A	Jessievale S.O,Transvaal SA		
951	A	Jessievale S.O,Transvaal SA		
952	A	Jessievale S.O,Transvaal SA		
953	A	Jessievale S.O,Transvaal SA		
954	A	Jessievale S.O,Transvaal SA		
955	A	Jessievale S.O,Transvaal SA		
956	A	Jessievale S.O,Transvaal SA		
957	A	Jessievale S.O,Transvaal SA		
958	A	Jessievale S.O,Transvaal SA		
959	A	Jessievale S.O,Transvaal SA		
960	A	Jessievale S.O,Transvaal SA		
961	A	Jessievale S.O,Transvaal SA		
962	A	Jessievale S.O,Transvaal SA		
963	A	Jessievale S.O,Transvaal SA		
964	A	Jessievale S.O,Transvaal SA		
965	A	Jessievale S.O,Transvaal SA		
966	A	Jessievale S.O,Transvaal SA		
967	A	Jessievale S.O,Transvaal SA		
968	A	Jessievale S.O,Transvaal SA		
969	A	Jessievale S.O,Transvaal SA		
970	A	Jessievale S.O,Transvaal SA		
111	A	Barrington Tops, C.O'Conner		
222	A	88/172, Rossi		
333	A	Barrington Tops, C.O'Conner		

APPENDIX I

SET COMPOSTION FOR E.FASTIGATA PROGENY TRIAL 1995

ORTET NO.	SET	ORIGIN	LAT / LONG	ALT.
826	B	Tuglow Road, Ginkin S.F 825	Lat33.53 Long149.50	
836	B	Sunny Comer State Forest	Lat33.18 Long149.49	
894	B	New Trig Road Coolangubra State Forest	Lat36.58 Long149.23	
971	B	Jessievale S.O,Transvaal SA		
972	B	Jessievale S.O,Transvaal SA		
973	B	Jessievale S.O,Transvaal SA		
974	B	Jessievale S.O,Transvaal SA		
975	B	Jessievale S.O,Transvaal SA		
976	B	Jessievale S.O,Transvaal SA		
977	B	Jessievale S.O,Transvaal SA		
978	B	Jessievale S.O,Transvaal SA		
979	B	Jessievale S.O,Transvaal SA		
980	B	Jessievale S.O,Transvaal SA		
981	B	Jessievale S.O,Transvaal SA		
982	B	Jessievale S.O,Transvaal SA		
983	B	Jessievale S.O,Transvaal SA		
984	B	Jessievale S.O,Transvaal SA		
985	B	Jessievale S.O,Transvaal SA		
986	B	Jessievale S.O,Transvaal SA		
987	B	Jessievale S.O,Transvaal SA		
988	B	Jessievale S.O,Transvaal SA		
989	B	Jessievale S.O,Transvaal SA		
992	B	Jessievale S.O,Transvaal SA		
993	B	Jessievale S.O,Transvaal SA		
994	B	Jessievale S.O,Transvaal SA		
995	B	Jessievale S.O,Transvaal SA		
996	B	Jessievale S.O,Transvaal SA		
997	B	Jessievale S.O,Transvaal SA		
998	B	Jessievale S.O,Transvaal SA		
999	B	Jessievale S.O,Transvaal SA		
111	B	Barrington Tops, C.O'Corner		
222	B	88/172, Rossi		

APPENDIX I

SET COMPOSTION FOR E.FASTIGATA PROGENY TRIAL 1995

ORTET NO.	SET	ORIGIN	LAT / LONG	ALT.
816	C	Banchea State Forest	Lat34.01 Long149.50	
817	C	Banchea State Forest	Lat34.01 Long149.50	1060
818	C	Banchea State Forest	Lat34.01 Long149.50	1060
819	C	Banchea State Forest	Lat34.01 Long149.50	1060
840	C	Monga State Forest	Lat35.38 Long149.55	
866	C	Vulcan S.F Oberon	Lat33.54 Long149.48	1200
867	C	Vulcan S.F Oberon	Lat33.54 Long149.48	710
868	C	Vulcan S.F Oberon	Lat33.54 Long149.48	710
869	C	Styx River State Forest	Lat30.31 Long152.21	1380
870	C	Riamukka State Forest	Lat31.21 Long151.37	1400
871	C	Riamukka State Forest	Lat31.21 Long151.37	1400
872	C	Riamukka State Forest	Lat31.21 Long151.37	1400
873	C	Riamukka State Forest	Lat31.21 Long151.37	1380
874	C	Riamukka State Forest	Lat31.21 Long151.37	1380
875	C	Barrington Tops St. Forest	Lat31.54 Long151.29	1430
876	C	Mount Weroug State Forest	Lat34.07 Long149.51	1250
877	C	Anembo Road Tallaganda State Forest	Lat35.50 Long149.30	1265
878	C	Anembo Road Tallaganda State Forest	Lat35.50 Long149.30	1300
879	C	Nitens Road Tallaganda State Forest	Lat35.52 Long149.30	1410
881	C	Nitens Road Tallaganda State Forest	Lat35.52 Long149.30	1410
882	C	Jerrabattgulla, Tallaganda	Lat35.52 Long149.31	1410
883	C	Monterey Rd Glenbog State Forest	Lat36.37 Long149.22	1020
884	C	Monterey Rd Glenbog State Forest	Lat36.37 Long149.22	1020
885	C	Nitens Road Glenbog State Forest	Lat36.36 Long149.21	1020
886	C	Nitens Road Glenbog State Forest	Lat36.37 Long149.22	1020
887	C	Fastigata Road Glenbog State Forest	Lat36.34 Long149.24	1000
888	C	Fastigata Road Glenbog State Forest	Lat36.34 Long149.24	1000
889	C	Mines Road Coolangubra State Forest	Lat37.02 Long149.24	850
891	C	Mines Road Coolangubra State Forest	Lat37.02 Long149.24	850
892	C	Wog Wog Trail Coolangubra State Forest	Lat37.01 Long149.23	940
893	C	Wog Wog Trail Coolangubra State Forest	Lat37.01 Long149.23	940
222	C	88/172, Rossi		1000

APPENDIX I

SET COMPOSTION FOR E.FASTIGATA PROGENY TRIAL 1995

ORTET NO.	SET	ORIGIN	LAT / LONG	ALT.
918	E	Eastern Transvaal		
919	E	Eastern Transvaal		
920	E	Eastern Transvaal		
921	E	Eastern Transvaal		
922	E	Eastern Transvaal		
923	E	Eastern Transvaal		
924	E	Eastern Transvaal		
925	E	Eastern Transvaal		
926	E	Eastern Transvaal		
927	E	Eastern Transvaal		
928	E	Eastern Transvaal		
929	E	Eastern Transvaal		
930	E	Eastern Transvaal		
931	E	Eastern Transvaal		
932	E	Eastern Transvaal		
933	E	Eastern Transvaal		
934	E	Eastern Transvaal		
936	E	Eastern Transvaal		
937	E	Eastern Transvaal		
938	E	Eastern Transvaal		
939	E	Eastern Transvaal		
940	E	Eastern Transvaal		
941	E	Eastern Transvaal		
942	E	Eastern Transvaal		
943	E	Eastern Transvaal		
944	E	Eastern Transvaal		
945	E	Eastern Transvaal		
946	E	Eastern Transvaal		
947	E	Eastern Transvaal		
948	E	Eastern Transvaal		
949	E	Eastern Transvaal		
111	E	Barrington Tops, C.O'Conner		

APPENDIX I

SET COMPOSITION FOR E.FASTIGATA PROGENY TRIAL 1995

ORTET NO.	SET	ORIGIN	LAT / LONG	ALT.
896	F	Eastern Transvaal		
897	F	Eastern Transvaal		
898	F	Eastern Transvaal		
899	F	Eastern Transvaal		
902	F	Eastern Transvaal		
903	F	Eastern Transvaal		
904	F	Eastern Transvaal		
905	F	Eastern Transvaal		
906	F	Eastern Transvaal		
907	F	Eastern Transvaal		
908	F	Eastern Transvaal		
909	F	Eastern Transvaal		
910	F	Eastern Transvaal		
911	F	Eastern Transvaal		
912	F	Eastern Transvaal		
913	F	Eastern Transvaal		
914	F	Eastern Transvaal		
915	F	Eastern Transvaal		
916	F	Eastern Transvaal		
917	F	Eastern Transvaal		
111	F	Barrington Tops, C.O'Conner		
222	F	88/172, Rossi		
333	F	Barrington Tops, C.O'Conner		
444	F	88/172, Rossi		

OVERTON BLOCK

**South Wood
Export Ltd**

TRIAL DESCRIPTION SHEET

FOREST OWNER: South Wood Export Ltd**EXPT. No.:** FR304**FOREST:** Overton Block**CPT.:****CONTACT PERSON:** Gary Leslie**PHONE:** 03 218 2073**FAX:** 03 218 2066**CONTROLLING AGENCY:** GTI**WORK PLAN #:****PROJECT:****FRI CORR. File:****PURPOSE:** To compare the performance of different seedlots of *E. nitens***SITE DETAILS:****LATITUDE:** 46° 02'**LONGITUDE:** 168° 35'**ALTITUDE:** 320m**ASPECT:****SLOPE:** 0° -10°**GROUND PREPARATION:** Ripping and mounding**SOIL TYPE:****PREVIOUS USE:** Ex pasture**EXPERIMENTAL DETAILS:****SPECIES:** *E.nitens* **STOCK:** root trainer **DATE PLANTED:** oct 96**# OF PLOTS:** 48 **SIZE OF PLOTS:** 27.2 x 22.4 m **SPACING:** 3.4m x 2.8 m**TOTAL AREA:** 2.9ha **DEMARCATATION:** Numbered posts**EXPERIMENTAL DESIGN:**

Large plots (64 trees), 6 replications

PROPOSED TREATMENT:

Keep weed free for 2 years

PROPOSED YEARS OF ASSESSMENT: 2001**PERMANENCY:** 20 years**ATTACHMENTS:**

Trial map

Listing of family codes used by set

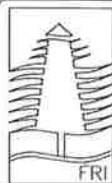
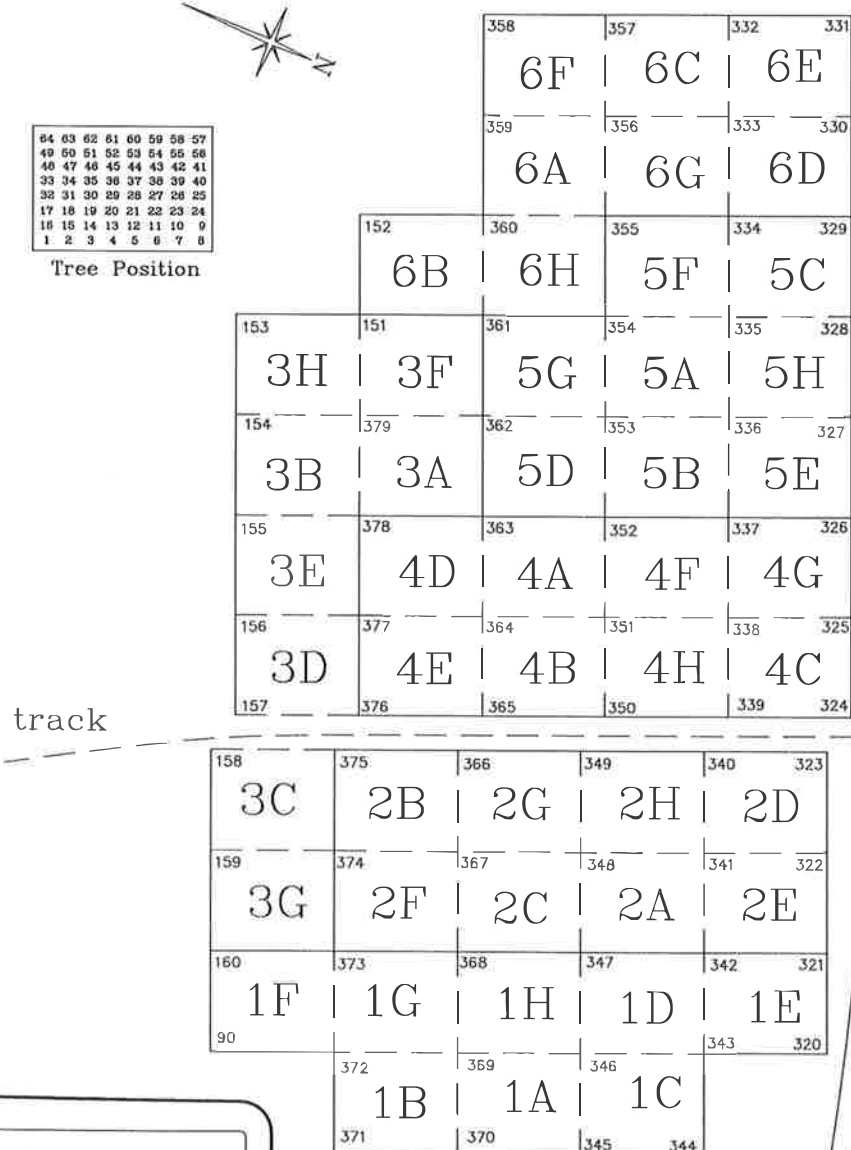
1996 E.nitens Genetic Gain Trial

Overton Block FR304

South Wood Export Ltd

64	63	62	61	60	59	58	57
49	50	51	52	53	54	55	56
48	47	46	45	44	43	42	41
33	34	35	36	37	38	39	40
32	31	30	29	28	27	26	25
17	18	19	20	21	22	23	24
16	15	14	13	12	11	10	9
1	2	3	4	5	6	7	8

Tree Position



Genetics and Tree Improvement

Phone (07)3475899

Trial Number FR304

Map Number 574

Drawn by G.T.STOVOLD

Date 17/12/96

0 50 100m
SCALE

Origin of seedlots used in 1996 E.nitens Genetic Gain Trial
FR304, Overton Block, South Wood Export Ltd

Code No.	Origin	Supplier	Comments
1	Waikuku seed Orchard	Proseed NZ Ltd	2 families
2	Waikuku seed Orchard	Proseed NZ Ltd	31 families
3	Waiouru	Proseed NZ Ltd	
4	Glentunnel	D.Franklin	
5	VRD 26	Amcor/Kylisa Seeds	
6	VRD 36	Amcor/Kylisa Seeds	
7	McAlister	Kylisa Seeds	
8	Sunmer Spur Seed Orchard	C.O'Conner	