

# FORMAK Vegetation Plot Form Issue date: 4-6-04

## Plot Location

Names	Map Grid Reference	or..	GPS Coordinates	Offset (if any)
Plot Name: 2	NZMS 260 Map No:		East: 2680522	Offset bearing: 352
Site Name: Simons Bush	East:		North: 6025051	Offset (m): 45
Catchment: Simons Crk	North:		Accuracy(m): 12.5	
Region: Wellington				

Landform	
<input checked="" type="checkbox"/> Terrace	<input type="checkbox"/> Face
<input type="checkbox"/> Gully	<input type="checkbox"/> Ridge
Drainage	
<input type="checkbox"/> Poor	<input checked="" type="checkbox"/> Good
<input type="checkbox"/> Medium	

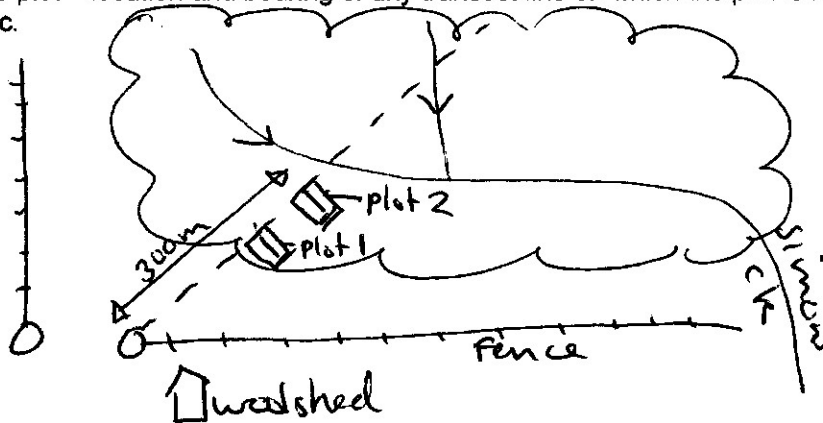
Altitude (m)	240
Aspect	
Slope	5°

## Plot Measurement

Assessed by	Bill James	Recorded by	Joe Smith	Date	5-5-03
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### Location Diagram

show approach to plot – location and bearing of any transect line on which the plot is located – obvious natural and man made features etc.



### Description / Sketch of Area Assessed:

Include plot orientation



### Notes:

Plot 2 is 300m from gate post closest to washshed on bearing of 65° magnetic

Plot orientation is 155° magnetic

## Photograph

Photo taken (✓)	✓
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Digital

(photo taken from plot start down plot line with distant end in centre of frame – 2.0m pole at 5m)

# Canopy & Ground Cover

Point (m)	Ground Class	Ground Species	Canopy Intercept ("X" for intercept, "O" for sky)	Canopy Cover (see visual guide)	Species					Lowest & highest cover (m)	
					Species1	Species2	Species3	Species4	Species5	low	hi
0	L		X	55	BEITAW					15	23
1	L		X	55	"						
2	T		X	65	"						
3	F	BLEFIL	X	75	"						
4	V	LOPBUL	X	65	"						
5	F	ASPBUL	O	65	"	BEITAW				10	23
6	F	ASPBUL	X	75	LOPBUL	"	BEITAW				
7	L		X	85	BEITAW	KNEEX					
8	L		X	75	"	"					
9	L		X	75	MELRAM	"	BEITAW				
10	L		X	75	"	"	"			8	20
11	T		X	65	"						
12	F	BLEFIL	X	55	"						
13	L		X	75	"						
14	F	ASPBUL	X	75	"						
15	F	BLEFIL	X	65	CYASMI	MELRAM				5	12
16	L		X	65	"	"	BEITAW				
17	W		X	65	"	"	"				
18	F	ASPBUL	X	75	"	BEITAW					
19	L		X	85	"	BEITAW					
20	F	ASPBUL	X	75	BEITAW					7	18

## Canopy Browse

Canopy Species	BEITAW	LOPBUL	MELRAM	KNEEX	CYASMI
Browse	0	0	1	0	0
Canopy Species					
Browse					
Canopy Species					
Browse					

## Canopy browse scale

0	No browse
1	1-25% of leaves
2	26-50% of leaves
3	51-75% of leaves
4	76-100% of leaves

## Ground Cover Classes

Record what is intercepted under the base of the height pole when it is held vertically at each 1m point on the tape measure. Classify this into the following classes:

Type	Code	Description
Vegetation	V	Any vegetation that touches the pole within 10cm of the base (this is defined by the solid black tape on the pole). Includes woody seedlings, herbaceous vegetation, and grasses. Does not include live tree roots or trunks.
Root	T	Live tree roots
Moss	M	
Fern	F	Any fern that touches the pole within 45cm of the base.
Leaf litter	L	Including dead sticks <3cm in diameter
Wood	W	Dead wood, branches and logs ≥ 3cm in diameter
Soil	S	Bare exposed soil where litter has been removed
Rock	R	Exposed bare rock or gravel

Ground Species: Where vegetation (V) or fern (F) is encountered – record the species.

# Understorey Subplots

Sub plot	Species	Tally (Woody Species) % Cover (Spreading herbs etc)			Browse Class
		15cm – 45cm	46cm – 135cm	136cm – 3cm diam	
0	ASPBUL				2
	MELRAM				0
	BLEVES				0
	DIC.SAU				0
	GENRUP				2
5	LOP BUL				0
	ASP BUL				1
	DIC.SAU				0
	BLE FIL	5%			0
	RIP SCA				0
10	ASP BUL				2
15	KNE BxL				0
	BLE FIL				0
	ASP BUL				2
	BLE FIL	5%			0
	RIP SCA				0
	PENCOR				0
20	ASP BUL				1
	LOP BUL				0
	CYASMI				0

### Multiple stems

- If forks into multiple stems above or on surface – Count as one seedling
- If forks below surface – count as separate seedlings

### Browse Classes

- 0 No browse observed
- 1 1-25% of stems with some browse
- 2 26-50% of stems with some browse
- 3 51-75% of stems with some browse
- 4 76-100% of stems with some browse

Browse is estimated as the % of individual stems or shoots in the 15 – 135cm range for the whole subplot

- unbrowsed stems less than 2cm in length are ignored
- when assessing ferns, each frond is counted as a stem
- Grass like plants: each leaf blade is counted as a stem
- Divaricating plants: internal inaccessible stems ignored

## Tree diameter, saplings & epicormic shoots

Sub plot	Species	Diameter (mm)	Saplings (tally)	Epicormics (tally)
1	SCHADIG	.		
	BEITAW	311		
	LOP BUL			
2	LOP BUL			
	DEAD	175		
3	HEDARAB	129		
	MELRAM	295		
	"	171		
	"	171		
	"	130		
"	69			
4	LOP BUL			
5	LOP BUL			
6	CYARBEA	180		
7	—			
8	BEITAW	518		
	"	113		
	"	372		
	LOP BUL			

Sub plot	Species	Diameter (mm)	Saplings (tally)	Epicormics (tally)

### Tree Diameter

- Measured at "breast height" – 1.35m above ground.
- See FORMAK Vegetation Plot Field Instructions (Appendix) for details of measuring diameter.

### Multi Stemmed trees

- If forking below 1.35m, measure each stem individually and record them as linked on the above form linking the two cells ")"

### Saplings

- Greater than 1.35m in height and less than 3cm in diameter at breast height (1.35m)
- 1 forks into multiple stems above or on surface, count as one sapling
- If forks below surface, count as multiple saplings
- Epicormic shoots from tree stems are not counted as saplings. They are counted separately as epicormic shoots

### Epicormics

- Sprouts that join a tree stem between 15cm and 1.35m above the ground.
- Less than 3cm in diameter at 1.35m above ground.