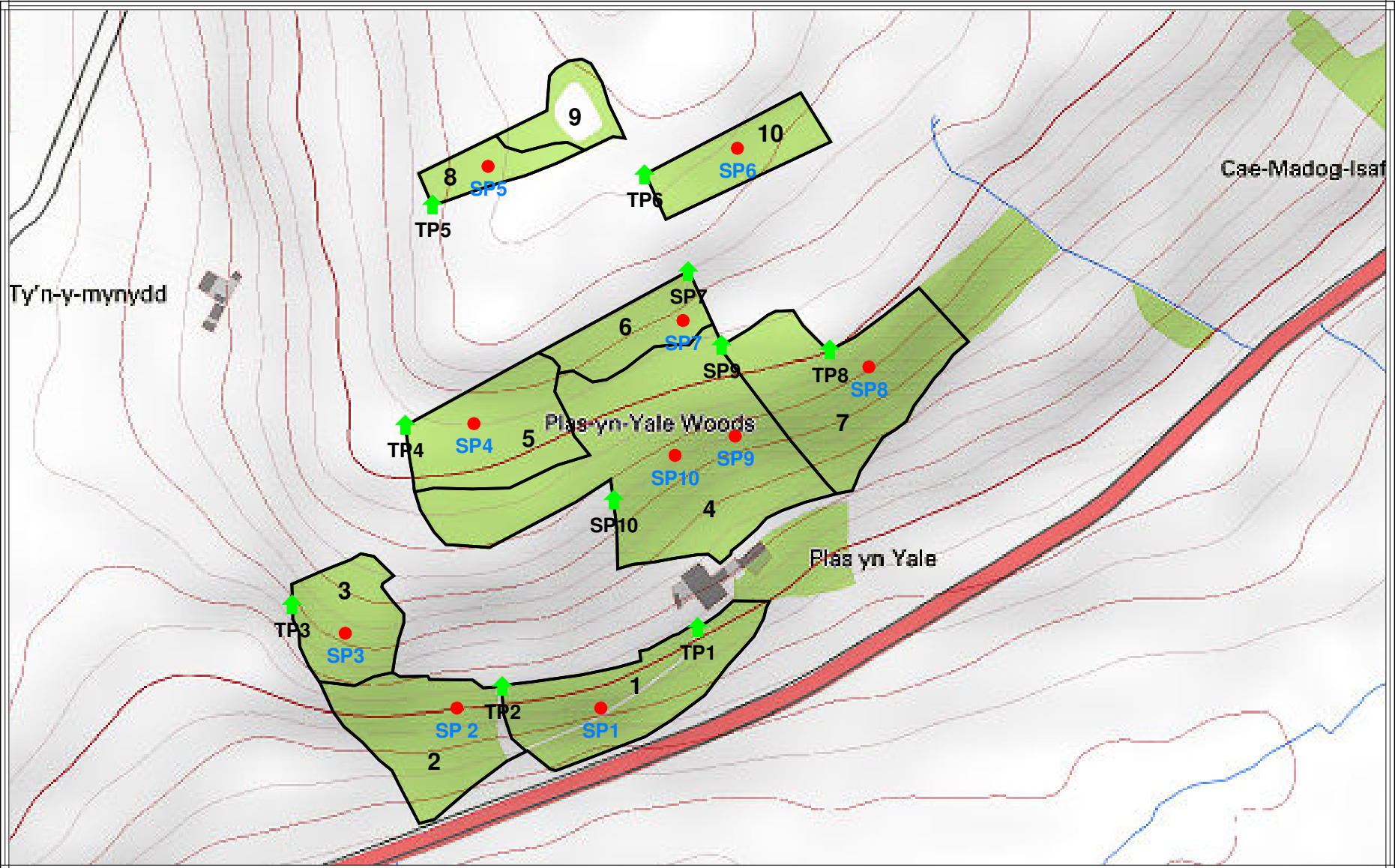


ISN Plas yn ial map

349km

349km



Cae-Madog-Isaf

Ty'n-y-mynydd

Plas yn-Yale Woods

Plas yn Yale

349km

349km

317km

318km

Scale 1: 5,000

Centred on 317,184m, 349,119m UK National Grid (53° 01' 58.56" N 3° 14' 11.07" W)

(c) Crown Copyright OS Landline Data



Forest Plas yn ial

Date Measured 21/03/2013

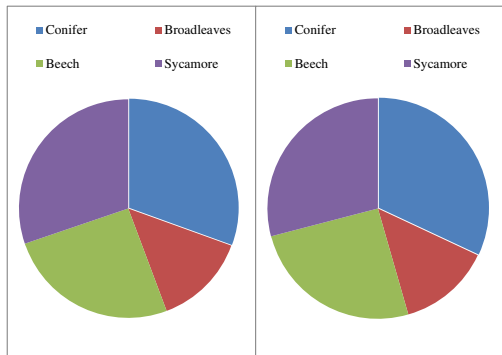
Site-type Grand Total

Area 12.71 ha

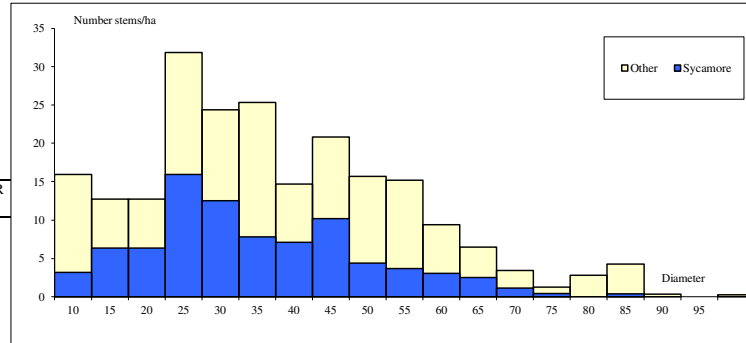
Nb plots 10

Composition, structure and forest capital

	Basal area				Volume			
	SW	MW	LW		SW	MW	LW	
Conifer	0.2	4.0	5.4	9.6	1	41	56	99
Broadleaves	0.7	1.4	2.3	4.3	6	13	23	42
Beech	0.2	0.2	7.7	8.0	1	3	75	79
Sycamore	1.2	3.8	4.5	9.5	11	38	42	90
	2.3	9.4	19.8	31.5	19	95	196	310
	7%	30%	63%		6%	31%	63%	



Stems per ha by diameter class



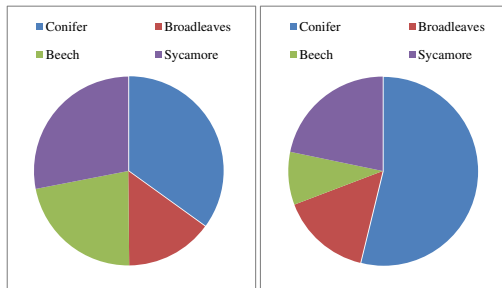
Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B	21%	Discount rate	2.50%
BA/ha A+B	6.8 m ² /ha		

Increment Estimates		£/ha	£
Land Value		£2,500	£31,775
Standing Timber Value		£10,432	£132,592
Potential Timber Value		£10,577	£134,435
Total Value		£12,932	£164,367
Total Potential Value		£13,077	£166,210
Annual Value Increment		£264	£3,361
Est of Future Volume Inc.	6.09 m ³ /ha/yr		
Est of Future BA Inc	0.62 m ² /ha/yr		
Net Benefit on Standing Timber Value			1.96%

Stems/ha Main Species Division Chart Data		
	Sycamore	Total
10	3	16
15	6	13
20	6	13
25	16	32
30	13	24
35	8	25
40	7	15
45	10	21
50	4	16
55	4	15
60	3	9
65	3	6
70	1	3
75	0	1
80		3
85	0	4
90		0
95		0
105		0
Total	85	217

Green benefit on Standing Timber Value

Spp Cluster	Standing Timber Value				Annual Value Increment			
	SW	MW	LW		SW	MW	LW	
Conifer	8	1,293	2,345	3,645	1	64	77	142
Broadleaves	59	278	1,219	1,556	5	14	22	41
Beech	28	60	2,220	2,308	1	1	21	24
Sycamore	238	959	1,727	2,923	8	22	28	58
	332	2,589	7,511	10,432	15	101	148	264
	3%	25%	72%		6%	38%	56%	



Poles		Stand TV/Pot SV	
	N/ha	BA/ha	
Conifer	6	0.0	0.99
Broadleaves	6	0.1	
Beech	6	0.1	
Sycamore	10	0.1	
	29	0.3	

Total BA (>7.5 cm dbh)/ha	31.79 m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	% Cover	N/ha			Total	% Browsing	
		Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves		990	283	47	1,273		
Beech		47			47		
Sycamore							
Total		1,037	283	47	1,368		

- (1) CL1 : seedlings with height greater than 50cm and below 1.5m
- (2) CL2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) CL3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

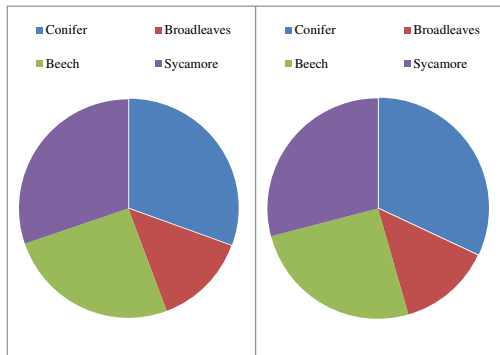
Site-type Grand Total

Area 12.71 ha

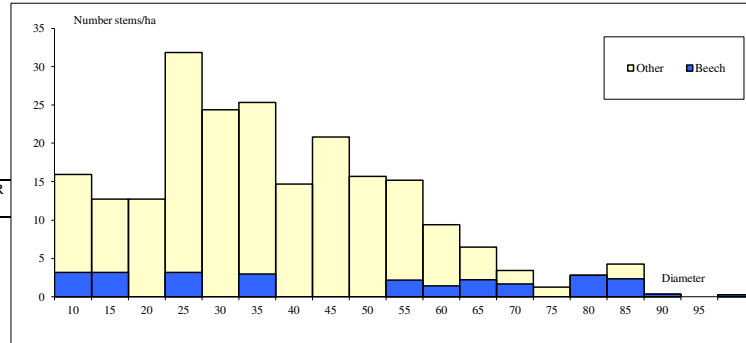
Nb plots 10

Composition, structure and forest capital

	Basal area				Volume			
	SW	MW	LW		SW	MW	LW	
Conifer	0.2	4.0	5.4	9.6	1	41	56	99
Broadleaves	0.7	1.4	2.3	4.3	6	13	23	42
Beech	0.2	0.2	7.7	8.0	1	3	75	79
Sycamore	1.2	3.8	4.5	9.5	11	38	42	90
	2.3	9.4	19.8	31.5	19	95	196	310
	7%	30%	63%		6%	31%	63%	



Stems per ha by diameter class



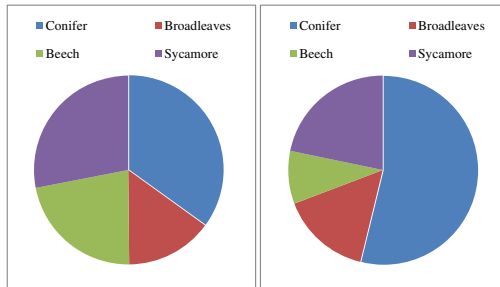
Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B	21%	Discount rate	2.50%
BA/ha A+B	6.8 m ² /ha		

Increment Estimates		£/ha	£
Land Value		£2,500	£31,775
Standing Timber Value		£10,432	£132,592
Potential Timber Value		£10,577	£134,435
Total Value		£12,932	£164,367
Total Potential Value		£13,077	£166,210
Annual Value Increment		£264	£3,361
Est of Future Volume Inc.	6.09 m ³ /ha/yr		
Est of Future BA Inc	0.62 m ² /ha/yr		
Net Benefit on Standing Timber Value			1.96%

	Stems/ha Main Species Division Chart	
	Beech	Total
10	3	16
15	3	13
20		13
25	3	32
30		24
35	3	25
40		15
45		21
50		16
55	2	15
60	1	9
65	2	6
70	2	3
75		1
80	3	3
85	2	4
90	0	0
95		
105	0	0
Total	26	217

Green benefit on Standing Timber Value

Spp Cluster	Standing Timber Value				Annual Value Increment			
	SW	MW	LW		SW	MW	LW	
Conifer	8	1,293	2,345	3,645	1	64	77	142
Broadleaves	59	278	1,219	1,556	5	14	22	41
Beech	28	60	2,220	2,308	1	1	21	24
Sycamore	238	959	1,727	2,923	8	22	28	58
	332	2,589	7,511	10,432	15	101	148	264
	3%	25%	72%		6%	38%	56%	



Poles		
	N/ha	BA/ha
Conifer	6	0.0
Broadleaves	6	0.1
Beech	6	0.1
Sycamore	10	0.1
	29	0.3

Stand TV/Pot SV	0.99
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Total BA (>7.5 cm dbh)/ha	31.79 m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	N/ha				% Browsing	
	% Cover	Class1	Class 2	Class 3	Class1	Class2
Conifer						
Broadleaves		990	283	47	1,273	
Beech		47			47	
Sycamore						
Total		1,037	283	47	1,368	

- (1) Cl.1 : seedlings with height greater than 50cm and below 1.5m
- (2) Cl.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) Cl.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

Site-type Managed broadleaved

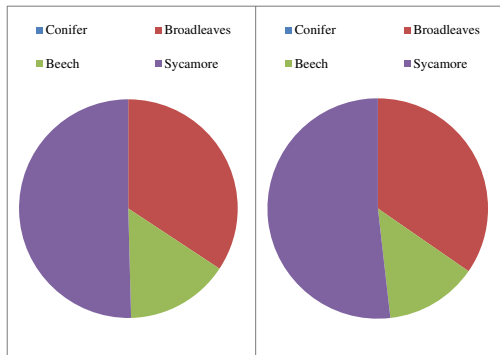
Area 1.49 ha

Nb plots 1

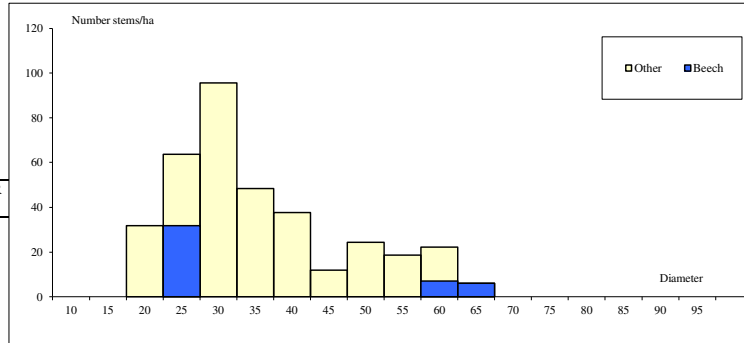
Composition, structure and forest capital

	Basal area			13.6	Volume			129
	SW	MW	LW		SW	MW	LW	
Conifer	2.3	2.3	9.0	20	24	85	51	
Broadleaves	1.6		4.5	13		38	193	
Beech	2.0	13.5	4.5	20.0	18	130	44	
Sycamore	5.8	15.8	18.0	39.6	51	155	168	
	15%	40%	45%	14%	41%	45%	373	

VBAR 9.4



Stems per ha by diameter class



	Stems/ha Main Species Division Chart Data	
	Beech	Total
10		
15		
20		32
25	32	64
30		95
35		48
40		38
45		12
50		24
55		19
60	7	22
65	6	6
70		
75		
80		
85		
90		
95		
105		
Total	45	360

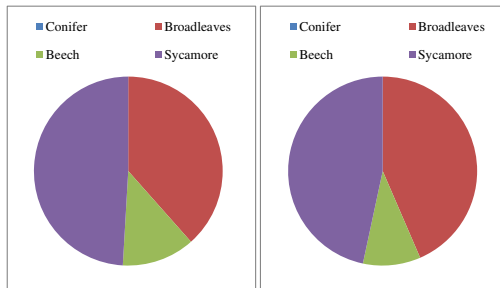
Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B	17%	Discount rate	2.50%
BA/ha A+B	6.8 m ² /ha		

Increment Estimates		£/ha	£
Land Value		£2,500	£3,725
Standing Timber Value		£10,401	£15,498
Potential Timber Value		£11,160	£16,628
Total Value		£12,901	£19,223
Total Potential Value		£13,660	£20,353
Annual Value Increment		£279	£416
Net Benefit on Standing Timber Value			2.11%

Assumptions	Class	m ³ /ha/yr
Beech	3	
Sycamore	3	
Douglas fir	1	
Est of Future Volume Inc.	8.23	m ³ /ha/yr
Est of Future BA Inc	0.87	m ² /ha/yr

Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value				Annual Value Increment			
	SW	MW	LW		SW	MW	LW	
Conifer	314	546	3,140	3,999	31	21	69	121
Broadleaves	282		1,016	1,298	11		16	27
Beech	416	3,575	1,113	5,105	11	103	16	130
Sycamore								
	1,012	4,121	5,269	10,401	54	124	102	279
	10%	40%	51%		19%	44%	36%	



Poles		Stand TV/Pot SV	
	N/ha	BA/ha	0.93
Conifer			
Broadleaves			
Beech			
Sycamore			

Total BA (>7.5 cm dbh)/ha	39.60 m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	% Cover	N/ha			Total	% Browsing	
		Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves		9,431	943		10,375		
Beech		472			472		
Sycamore							
Total		9,903	943		10,846		

- (1) CL1 : seedlings with height greater than 50cm and below 1.5m
- (2) CL2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) CL3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

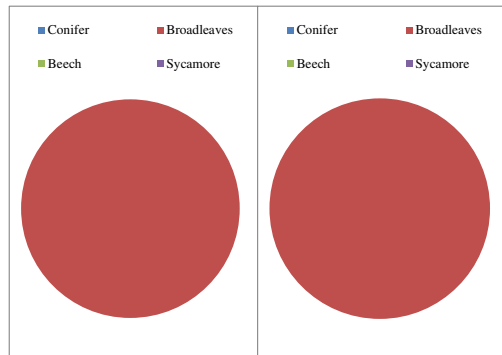
Site-type Restock

Area 1.34 ha

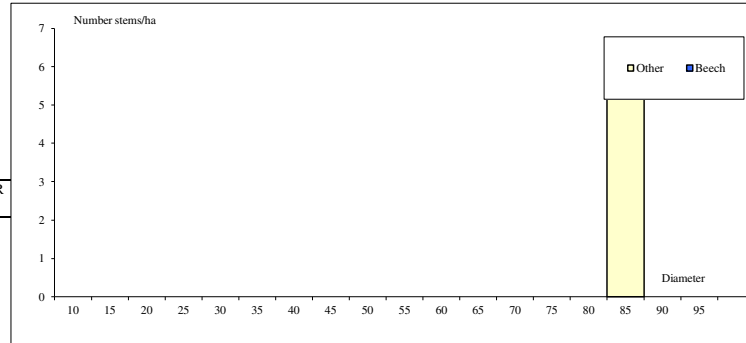
Nb plots 1

Composition, structure and forest capital

	Basal area			Volume			VBAR
	SW	MW	LW	SW	MW	LW	
Conifer							
Broadleaves			2.3	2.3		35	35
Beech							
Sycamore							
	2.3			2.3		35	35
	100%			100%			15.6



Stems per ha by diameter class



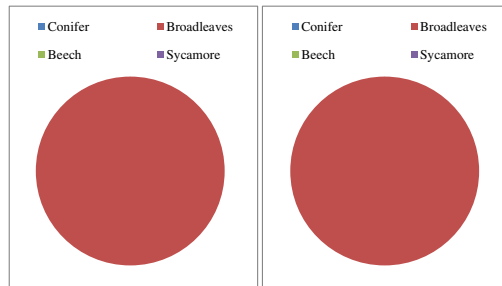
Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B		Discount rate	2.50%
BA/ha A+B	m ² /ha		

Increment Estimates		£/ha	£
Assumptions	Class		
Beech	3		
Sycamore	3		
Douglas fir	1		
Est of Future Volume Inc.	0.45	m ³ /ha/yr	
Est of Future BA Inc	0.03	m ² /ha/yr	
Land Value		£2,500	£3,350
Standing Timber Value		£797	£1,068
Potential Timber Value		£437	£586
Total Value		£3,297	£4,418
Total Potential Value		£2,937	£3,936
Annual Value Increment		£11	£15
Net Benefit on Standing Timber Value			-6.16%

Stems/ha Main Species Division Chart		
Data		
	Beech	Total
10		
15		
20		
25		
30		
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		6
90		
95		
105		
Total		6

Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value			Annual Value Increment		
	SW	MW	LW	SW	MW	LW
Conifer						
Broadleaves			797			11
Beech						
Sycamore						
			797			11
	100%			100%		



Poles		
	N/ha	BA/ha
Conifer		
Broadleaves		
Beech		
Sycamore		

Stand TV/Pot SV	1.82
-----------------	------

Total BA (>7.5 cm dbh)/ha	2.25	m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	% Cover	N/ha			Total	% Browsing	
		Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves		472	943	472	1,415		
Beech							
Sycamore							
Total		472	943	472	1,886		

- (1) Cl.1 : seedlings with height greater than 50cm and below 1.5m
- (2) Cl.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) Cl.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

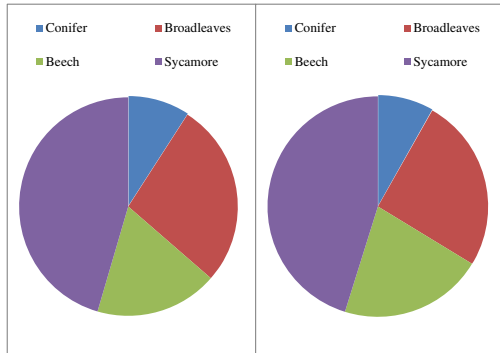
Site-type Beech plantation

Area 0.86 ha

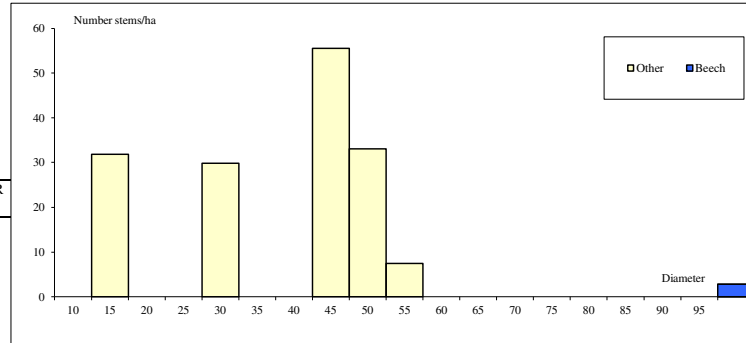
Nb plots 1

Composition, structure and forest capital

	Basal area			Volume			VBAR
	SW	MW	LW	SW	MW	LW	
Conifer		2.3		2.3	20		20
Broadleaves	4.5	2.3	6.8	40	23	63	
Beech		4.5	4.5	4.5	53	53	
Sycamore	4.5	6.8	11.3	48	64	112	
	11.3	13.5	24.8	109	140	249	10.1
	45%	55%		44%	56%		



Stems per ha by diameter class



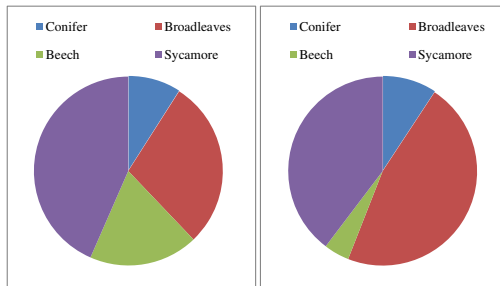
Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B	27%	Discount rate	2.50%
BA/ha A+B	6.8 m ² /ha		

Increment Estimates		£/ha	£
Land Value		£2,500	£2,150
Standing Timber Value		£8,228	£7,076
Potential Timber Value		£9,941	£8,550
Total Value		£10,728	£9,226
Total Potential Value		£12,441	£10,700
Annual Value Increment		£249	£214
Net Benefit on Standing Timber Value			2.29%

	Stems/ha Main Species Division Chart	
	Beech	Total
10		
15		
20		32
25		
30		30
35		
40		
45		55
50		33
55		7
60		
65		
70		
75		
80		
85		
90		
95		
100	3	3
Total	3	160

Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value			Annual Value Increment		
	SW	MW	LW	SW	MW	LW
Conifer		742		23		23
Broadleaves	967	1,410	2,377	80	36	116
Beech		1,536	1,536		11	11
Sycamore	1,215	2,359	3,574	40	59	99
	2,923	5,305	8,228	143	105	249
	36%	64%		58%	42%	



Poles		
	N/ha	BA/ha
Conifer		
Broadleaves		
Beech		
Sycamore	32	0.5
	32	0.5

Stand TV/Pot SV	0.83
-----------------	------

Total BA (>7.5 cm dbh)/ha	25.24 m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	% Cover	N/ha			Total	% Browsing	
		Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves			943		943		
Beech							
Sycamore							
Total			943		943		

- (1) Cl.1 : seedlings with height greater than 50cm and below 1.5m
- (2) Cl.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) Cl.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

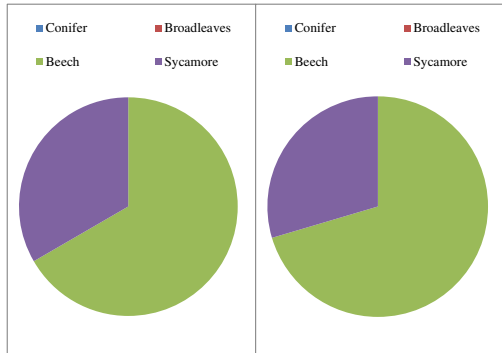
Site-type Grazed sabre planting

Area 3.60 ha

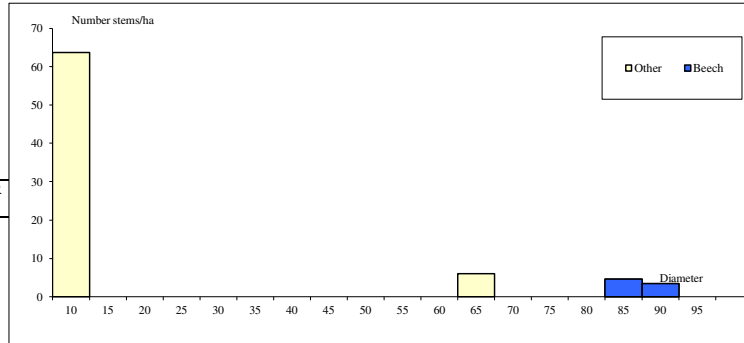
Nb plots 1

Composition, structure and forest capital

	Basal area			Volume			VBAR
	SW	MW	LW	SW	MW	LW	
Conifer							
Broadleaves							
Beech			4.5	4.5			56
Sycamore			2.3	2.3			23
			6.8	6.8			79
			100%	100%			11.7



Stems per ha by diameter class



	Stems/ha Main Species Division Chart Data	
	Beech	Total
10		64
15		
20		
25		
30		
35		
40		
45		
50		
55		
60		
65		6
70		
75		
80		
85	5	5
90	3	3
95		
100		
Total	8	78

Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B		Discount rate	2.50%
BA/ha A+B	m ² /ha		

Increment Estimates		£/ha	£
Land Value		£2,500	£9,000
Standing Timber Value		£1,737	£6,254
Potential Timber Value		£855	£3,080
Total Value		£4,237	£15,254
Total Potential Value		£3,355	£12,080
Annual Value Increment		£21	£77
Net Benefit on Standing Timber Value			-2.22%
Est of Future Volume Inc.	0.81 m ³ /ha/yr		
Est of Future BA Inc	0.07 m ² /ha/yr		

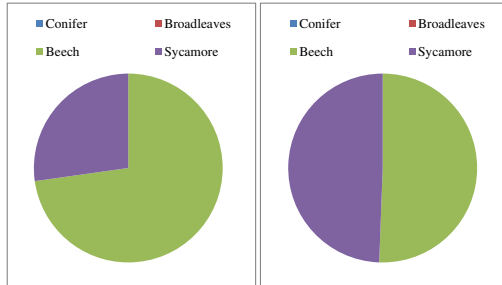
Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value			Annual Value Increment		
	SW	MW	LW	SW	MW	LW
Conifer						
Broadleaves						
Beech			1,265	1,265		11
Sycamore			473	473		11
			1,737	1,737		21
			100%	100%		21

Poles		
	N/ha	BA/ha
Conifer	64	0.5
Broadleaves		
Beech		
Sycamore		
	64	0.5

Stand TV/Pot SV	2.03
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Total BA (>7.5 cm dbh)/ha	7.20 m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	N/ha				Total	% Browsing	
	% Cover	Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves							
Beech							
Sycamore							
Total							

- (1) Cl.1 : seedlings with height greater than 50cm and below 1.5m
- (2) Cl.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) Cl.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

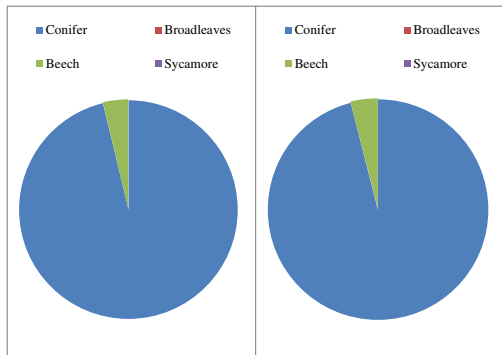
Site-type Grazed conifer

Area 1.24 ha

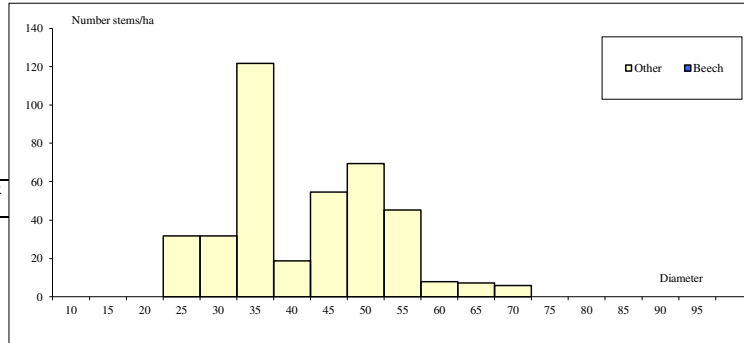
Nb plots 1

Composition, structure and forest capital

	Basal area			Volume			VBAR	
	SW	MW	LW	SW	MW	LW		
Conifer	1.7	29.1	27.0	57.8	9	297	355	662
Broadleaves								
Beech			2.3	2.3				27
Sycamore								
	1.7	29.1	29.3	60.0	9	297	383	689
	3%	48%	49%	1%	43%	56%		



Stems per ha by diameter class



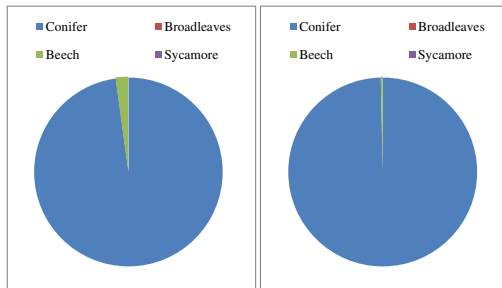
Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B	41%	Discount rate	2.50%
BA/ha A+B	24.8 m ² /ha		

Increment Estimates		£/ha	£
Land Value		£2,500	£3,100
Standing Timber Value		£28,892	£35,826
Potential Timber Value		£54,646	£67,761
Total Value		£31,392	£38,926
Total Potential Value		£57,146	£70,861
Annual Value Increment		£1,366	£1,694
Net Benefit on Standing Timber Value			4.52%
Assumptions	Class		
Beech	3		
Sycamore	3		
Douglas fir	1		
Est of Future Volume Inc.	24.12 m ³ /ha/yr		
Est of Future BA Inc	2.10 m ² /ha/yr		

Stems/ha Main Species Division Chart		
Data		
	Beech	Total
10		
15		
20		
25		32
30		32
35		122
40		19
45		55
50		69
55		45
60		8
65		7
70		6
75		
80		
85		
90		
95		
100		
Total		394

Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value				Annual Value Increment			
	SW	MW	LW		SW	MW	LW	
Conifer	55	10,041	18,172	28,268	6	601	755	1362
Broadleaves								
Beech			624	624			4	4
Sycamore								
	55	10,041	18,796	28,892	6	601	759	1366
	0%	35%	65%		0%	44%	56%	



Poles		
	N/ha	BA/ha
Conifer		
Broadleaves		
Beech		
Sycamore		

Stand TV/Pot SV	0.53
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Total BA (>7.5 cm dbh)/ha	60.04 m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	N/ha				Total	% Browsing	
	% Cover	Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves							
Beech							
Sycamore							
Total							

- (1) CL.1 : seedlings with height greater than 50cm and below 1.5m
- (2) CL.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) CL.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

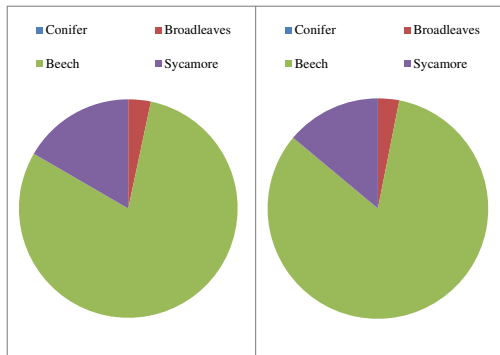
Site-type Grazed beech plantation

Area 0.66 ha

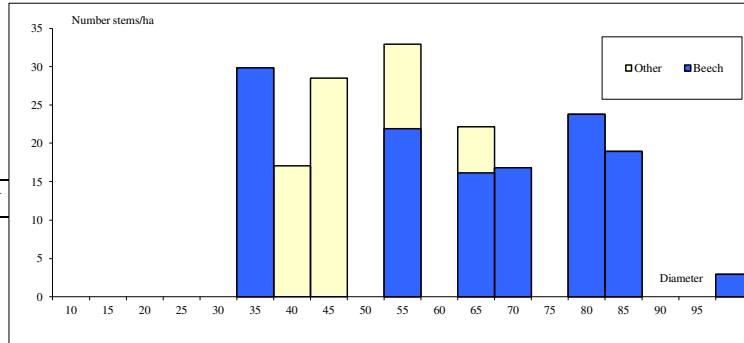
Nb plots 1

Composition, structure and forest capital

	Basal area			Volume			VBAR
	SW	MW	LW	SW	MW	LW	
Conifer						24	24
Broadleaves		2.3	2.3			616	639
Beech	2.3	51.8	54.0	23	616	639	107
Sycamore	6.8	4.5	11.3	62	45	770	11.4
	13%	87%		11%	89%		



Stems per ha by diameter class



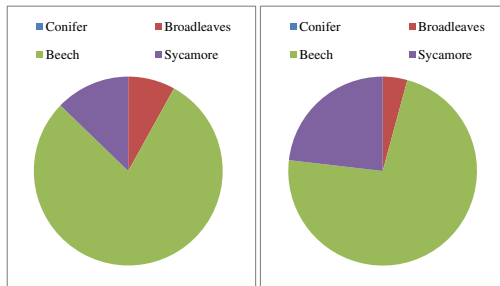
Diameter	Stems/ha Main Species Division Chart Data	
	Beech	Total
10		
15		
20		
25		
30		
35	30	30
40		17
45		29
50		
55	22	33
60		
65	16	22
70	17	17
75		
80	24	24
85	19	19
90		
95		
100	3	3
Total	130	193

Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B		Discount rate	2.50%
BA/ha A+B	m ² /ha		
Increment Estimates		£/ha	£
Assumptions	Class		
Beech	3		
Sycamore	3		
Douglas fir	1		
Est of Future Volume Inc.	8.38	m ³ /ha/yr	
Est of Future BA Inc	0.73	m ² /ha/yr	
Land Value		£2,500	£1,650
Standing Timber Value		£24,607	£16,241
Potential Timber Value		£11,781	£7,775
Total Value		£27,107	£17,891
Total Potential Value		£14,281	£9,425
Annual Value Increment		£295	£194
Net Benefit on Standing Timber Value			0.95%

Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value			Annual Value Increment		
	SW	MW	LW	SW	MW	LW
Conifer						
Broadleaves			1,984			12
Beech	519	18,964	19,482	14	199	214
Sycamore	1,522	1,619	3,141	16	52	68
	2,041	22,566	24,607	31	264	295
	8%	92%		10%	90%	

Poles		Stand TV/Pot SV	
	N/ha	BA/ha	
Conifer			
Broadleaves			
Beech			
Sycamore			
Total BA (>7.5 cm dbh)/ha	67.50	m²/ha	Silvicultural & Management Costs excl grants £/ha/yr
			60



	N/ha				Total	% Browsing	
	% Cover	Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves							
Beech							
Sycamore							
Total							

- (1) CL.1 : seedlings with height greater than 50cm and below 1.5m
- (2) CL.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) CL.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

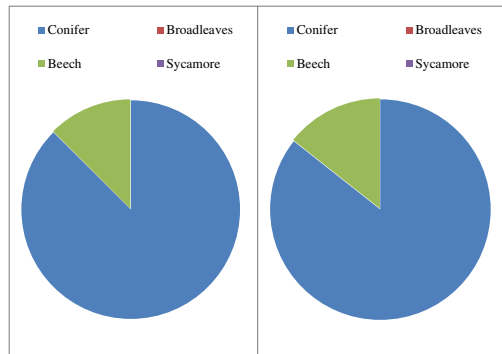
Site-type Felled larch

Area 1.91 ha

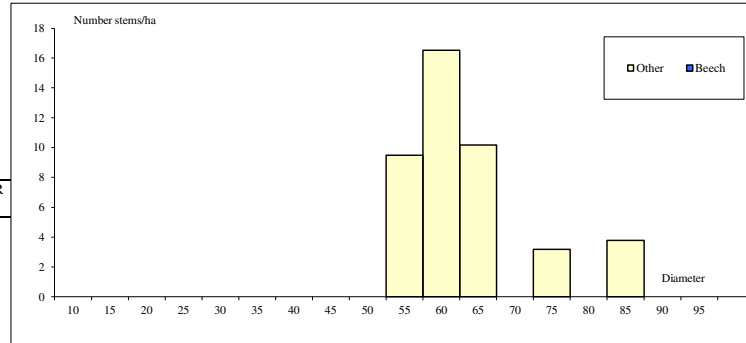
Nb plots 1

Composition, structure and forest capital

	Basal area			Volume			VBAR
	SW	MW	LW	SW	MW	LW	
Conifer			15.8	15.8			155
Broadleaves							26
Beech			2.3	2.3			181
Sycamore							181
			18.0	18.0			181
			100%	100%			10.1



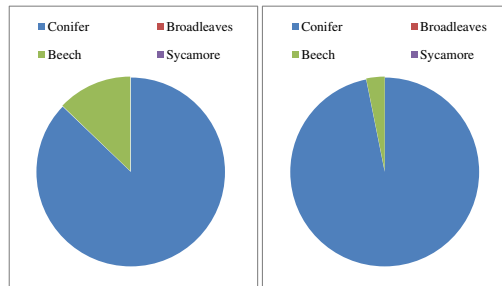
Stems per ha by diameter class



Stems/ha Main Species Division Chart Data		
	Beech	Total
10		
15		
20		
25		
30		
35		
40		
45		
50		
55		9
60		17
65		10
70		
75		3
80		
85		4
90		
95		
100		
Total		43

Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B	13%	Discount rate	2.50%
BA/ha A+B	2.3 m ² /ha		
Increment Estimates		£/ha	£
Assumptions	Class		
Beech	3	Land Value	£2,500
Sycamore	3	Standing Timber Value	£5,134
Douglas fir	1	Potential Timber Value	£3,846
Est of Future Volume Inc.	3.23 m ³ /ha/yr	Total Value	£7,634
Est of Future BA Inc	0.32 m ² /ha/yr	Total Potential Value	£6,346
		Annual Value Increment	£96
		Net Benefit on Standing Timber Value	0.70%

Spp Cluster	Standing Timber Value			Annual Value Increment		
	SW	MW	LW	SW	MW	LW
Conifer			4,476			93
Broadleaves						93
Beech			658			3
Sycamore						3
			5,134			96
			100%			100%



Poles		Stand TV/Pot SV	
	N/ha	BA/ha	1.33
Conifer			
Broadleaves			
Beech			
Sycamore			
Total BA (>7.5 cm dbh)/ha	18.00	m ² /ha	
		Silvicultural & Management Costs excl grants £/ha/yr	60

	N/ha				Total	% Browsing	
	% Cover	Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves							
Beech							
Sycamore							
Total							

- (1) Cl.1 : seedlings with height greater than 50cm and below 1.5m
- (2) Cl.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) Cl.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Gross benefit on Standing Timber Value

Forest Plas yn ial

Date Measured 21/03/2013

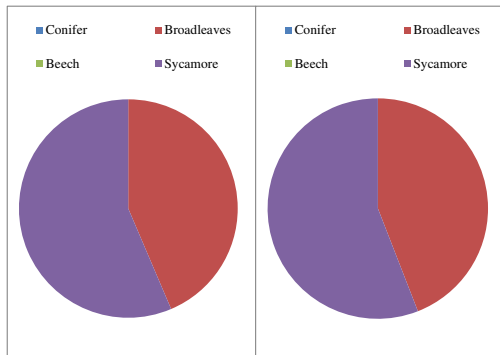
Site-type Woodland restoration

Area 0.39 ha

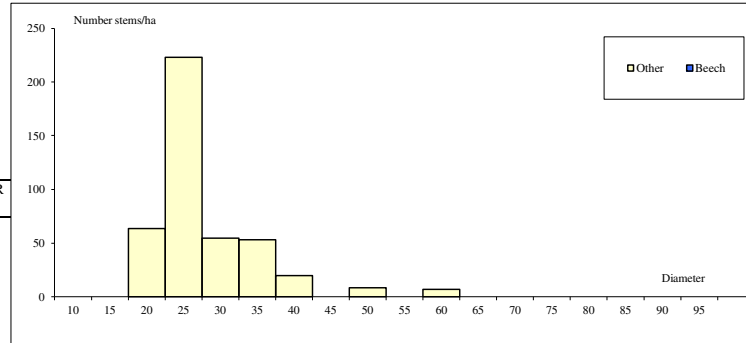
Nb plots 1

Composition, structure and forest capital

	Basal area				Volume			VBAR
	SW	MW	LW		SW	MW	LW	
Conifer	3.9	6.8	2.3	12.9	21	56	18	95
Broadleaves								
Beech	10.0	4.5	2.3	16.7	59	40	22	121
Sycamore	13.9	11.3	4.5	29.6	80	96	40	216
	47%	38%	15%		37%	44%	19%	7.3



Stems per ha by diameter class



Quality

Economic Parameters

BA(>17.5 cm dbh)/ha % A+B		Discount rate	2.50%
BA/ha A+B	m ² /ha		

Increment Estimates

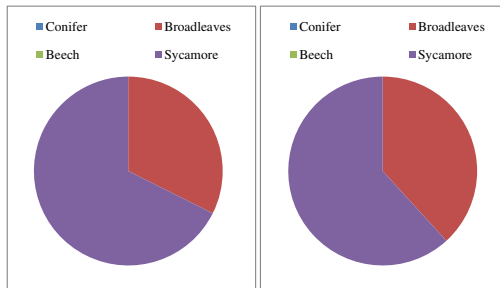
Assumptions	Class	
Beech	3	
Sycamore	3	
Douglas fir	1	
Est of Future Volume Inc.	7.33	m ³ /ha/yr
Est of Future BA Inc	1.00	m ² /ha/yr

	£/ha	£
Land Value	£2,500	£975
Standing Timber Value	£3,939	£1,536
Potential Timber Value	£6,342	£2,474
Total Value	£6,439	£2,511
Total Potential Value	£8,842	£3,449
Annual Value Increment	£159	£62
Net Benefit on Standing Timber Value		2.50%

Stems/ha Main Species Division Chart Data		
	Beech	Total
10		
15		
20		64
25		223
30		55
35		53
40		20
45		
50		9
55		
60		7
65		
70		
75		
80		
85		
90		
95		
100		
Total		430

Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value				Annual Value Increment			
	SW	MW	LW		SW	MW	LW	
Conifer	125	1,083	66	1,274	8	52	1	61
Broadleaves								
Beech	1,317	905	444	2,665	65	27	6	98
Sycamore	1,442	1,988	510	3,939	73	79	7	159
	37%	50%	13%		46%	50%	5%	



Poles	N/ha	
	BA/ha	
Conifer		
Broadleaves		
Beech		
Sycamore		

Stand TV/Pot SV	0.62
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Total BA (>7.5 cm dbh)/ha	29.63	m ² /ha
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Silvicultural & Management Costs excl grants £/ha/yr	60
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Regeneration

	% Cover	N/ha			Total	% Browsing	
		Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves							
Beech							
Sycamore							
Total							

- (1) CL1 : seedlings with height greater than 50cm and below 1.5m
- (2) CL2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) CL3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Forest Plas yn ial

Date Measured 21/03/2013

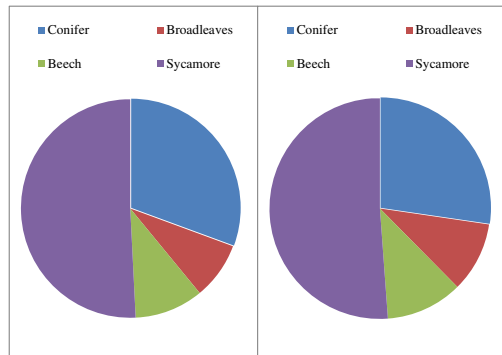
Site-type Mature parkland

Area 1.22 ha

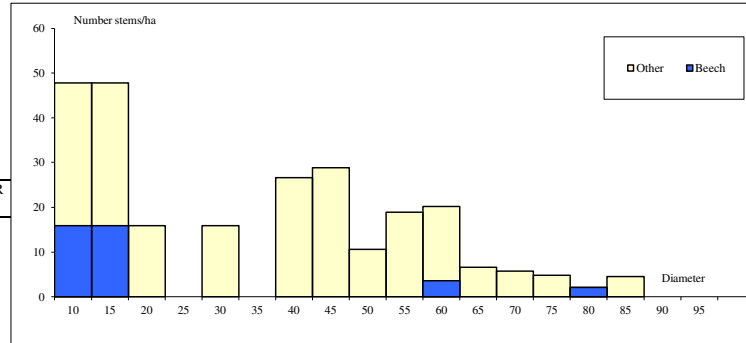
Nb plots 2

Composition, structure and forest capital

	Basal area				Volume			VBAR
	SW	MW	LW		SW	MW	LW	
Conifer		4.5	5.6	10.1		39	52	91
Broadleaves	0.6		2.3	2.8	3		31	34
Beech			3.4	3.4			38	38
Sycamore		4.4	12.4	16.8		43	128	171
	0.6	8.9	23.6	33.1	3	82	250	334
	2%	27%	71%		1%	24%	75%	



Stems per ha by diameter class



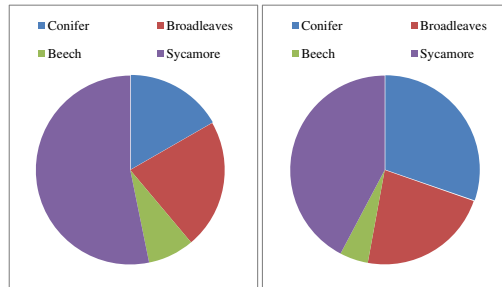
	Stems/ha Main Species Division Chart	
	Beech	Total
10	16	48
15	16	48
20		16
25		
30		16
35		
40		27
45		29
50		11
55		19
60	4	20
65		7
70		6
75		5
80	2	2
85		5
90		
95		
100		
Total	38	256

Quality		Economic Parameters	
BA(>17.5 cm dbh)/ha % A+B	41%	Discount rate	2.50%
BA/ha A+B	13.5 m ² /ha		

Increment Estimates		£/ha	£
Land Value		£2,500	£3,050
Standing Timber Value		£14,236	£17,368
Potential Timber Value		£11,162	£13,618
Total Value		£16,736	£20,418
Total Potential Value		£13,662	£16,668
Annual Value Increment		£279	£340
Net Benefit on Standing Timber Value			1.54%
Est of Future Volume Inc.	6.26 m ³ /ha/yr		
Est of Future BA Inc	0.62 m ² /ha/yr		

Gross benefit on Standing Timber Value

Spp Cluster	Standing Timber Value				Annual Value Increment			
	SW	MW	LW		SW	MW	LW	
Conifer		908	1,469	2,378		41	43	85
Broadleaves	28		3,134	3,162	3		60	63
Beech			1,125	1,125			14	14
Sycamore		1,034	6,538	7,572		23	95	118
	28	1,942	12,266	14,236	3	65	211	279
	0%	14%	86%		1%	23%	76%	



Poles			Stand TV/Pot SV	
	N/ha	BA/ha		1.28
Conifer				
Broadleaves	32	0.3		
Beech	32	0.3		
Sycamore	32	0.5		
	95	1.1		

Total BA (>7.5 cm dbh)/ha	34.20 m ² /ha	Silvicultural & Management Costs excl grants £/ha/yr	60
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	% Cover	N/ha			Total	% Browsing	
		Class1	Class 2	Class 3		Class1	Class2
Conifer							
Broadleaves							
Beech							
Sycamore							
Total							

- (1) Cl.1 : seedlings with height greater than 50cm and below 1.5m
- (2) Cl.2 : saplings with height greater than 1.5m and diameter below 2.5cm
- (3) Cl.3 : saplings with diameter greater than 2.5cm and below 7.5cm (displays total only)
- (4) % of sub-plots with combination of regeneration and browsed regeneration

Plot N°	1
Date	2021

Forest Plas yn ial

TREES >17.5cm

	Bering	Distance	Species	Diam1	Diam12	Diam21	Diam22	Qual1	Qual2	Vitality1	Vitality2	Social Position1	Social Position2	Margin1	Margin2	Observation1	Observation2
1	25	6.5	SCH	23		22		5		3		3				Elm	
2	35	3.2	AH	57		60		3		2		2					
3	65	13.4	AH	56		57		4		3		3					
4	73	4.0	HAW	20		20		4		3		3					
5	110	15.6	SYC	49		51		3		2		2					
6	185	9.0	SYC	49		44		2		2		2					
7	189	15.3	SYC	55		55		4		2		2					
8	215	4.6	BE	69		63		3		1		1				Fork	
9	215	4.6	BE	25		23		4		2		2				Fork	
10	250	9.2	AH	30		33		4		2		2					
11	256	8.7	SYC	39		41		3		2		2					
12	277	9.0	SYC	33		34		3		2		2					
13	297	3.1	SYC	36		35		4		2		2					
14	310	14.0	AH	48		48		2		1		1					
15	314	8.0	SYC	28		27		3		3		3					
16	336	8.7	SYC	39		39		2		2		2					
17	374	21.3	BE	64		52		4		1		1					
18	382	15.0	AH	67		56		4		2		2					
19	386	9.7	SYC	30		31		3		3		3					
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

POLES

	Distance	Bering	Species	Diam1	Diam2	Non viable1	Non viable2
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

REGENERATION

N° (1, 2 or 3)	Spp	Cover	Cl1	Cl2	Cl3	Browsing
1	AH		1	1		
1	SCH		1			
2	AH		6	1		
3	BE		1			
3	HOL		3			
3	AH		7			
3	BI		2			

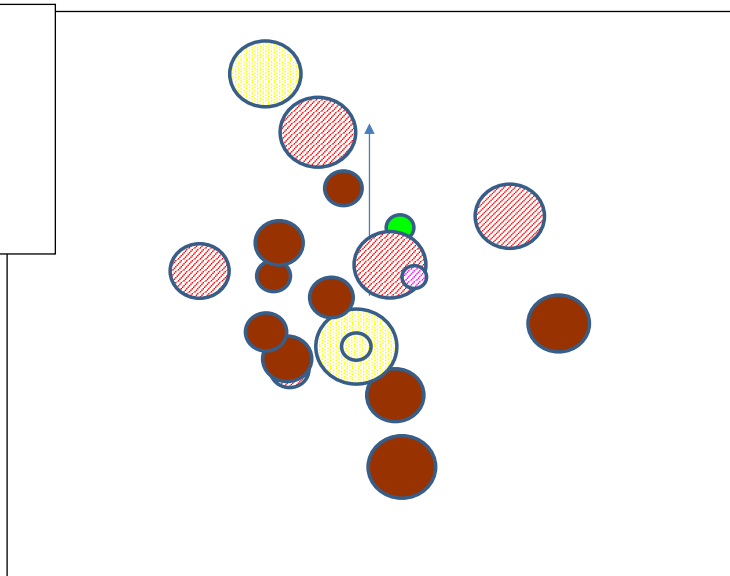
COPPICE

Coppice Species
 N stems1
 N stems2
 Av Diam1
 Av Diam2
 Hazel coppice

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ALD= Alder, BE= Beech, BI= Birch, DF= Douglas fir, GW= Goat willow, SYC= Sycamore, WH= Western hemlock, GF= Grand fir, SP= Scots pine, LP= Lodgepole pine, OK= Oak, WCH= Wild cherry, NS= Norway spruce, SS= Sitka spruce, WRC= Western red cedar, NF= Noble fir, EL= European larch, HL= Hybrid larch, HAZ= Hazel, ROW= Rowan

OBSERVATIONS



Plot N°	2
Date	2021

Forest Plas yn ial

TREES >17.5cm

	Bering	Distance	Species	Diam1	Diam2	Diam21	Diam22	Qual1	Qual2	Vitality1	Vitality2	Social Position1	Social Position2	Margin1	Margin2	Observation1	Observation2
1	22	20.2	AH	67		103		4		2		1					
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

POLES

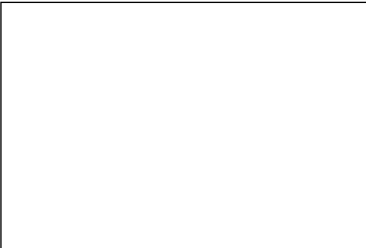
	Distance	Bering	Species	Diam1	Diam2	Non viable1	Non viable2
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

REGENERATION

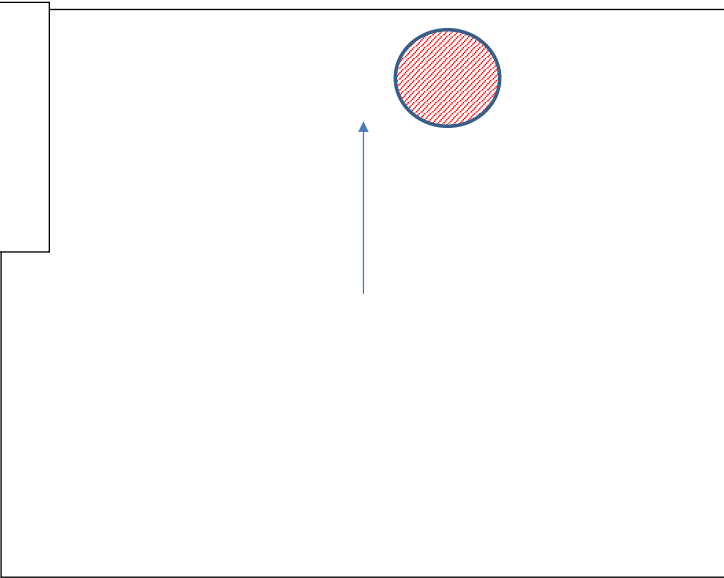
	N° (1, 2 or 3)	Spp	Cover	C11	C12	C13	Browsing
1	1	FM		1			
2	1	OK			1		
3	2	OK			1		
4	2	WCH				1	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

COPPICE

Coppice Species
 N stems1
 N stems2
 Av Diam1
 Av Diam2
 Hazel coppice



ALD= Alder, BE= Beech, BI= Birch, DF= Douglas fir, GW= Goat willow, SYC= Sycamore, WH= Western hemlock, GF= Grand fir, SP= Scots pine, LP= Lodgepole pine, OK= Oak, WCH= Wild cherry, NS= Norway spruce, SS= Sitka spruce, WRC= Western red cedar, NF= Noble fir, EL= European larch, HL= Hybrid larch, HAZ= Hazel, ROW= Rowan



OBSERVATIONS

Plot N°	3
Date	2021

Forest Plas yn ial

TREES >17.5cm

	Bering	Distance	Species	Diam1	Diam2	Diam21	Diam22	Qual1	Qual2	Vitality1	Vitality2	Social Position1	Social Position2	Margin1	Margin2	Observation1	Observation2
1	17	16.1	AH	51		52		2		2		2					
2	47	7.0	SYC	41		48		3		2		2					
3	161	14.6	EL	49		45		2		2		2					
4	170	5.1	SYC	14													
5	177	10.7	SYC	62		52		3		1		2					
6	192	9.5	AH	31		31		3		1		2					
7	222	13.3	SYC	46		47		3		1		2					
8	317	18.8	BE	101		96		4		1		1					
9	319	26.2	BE	108		107		3		1		1					
10	330	4.6	SYC	51		46		3		1		2					
11	350	2.3	AH	47		47		3		1		2					
12	395	6.3	SYC	51		53		2		1		2					
13																	
14																	
15																	
16																	
17																	
18																	
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POLES

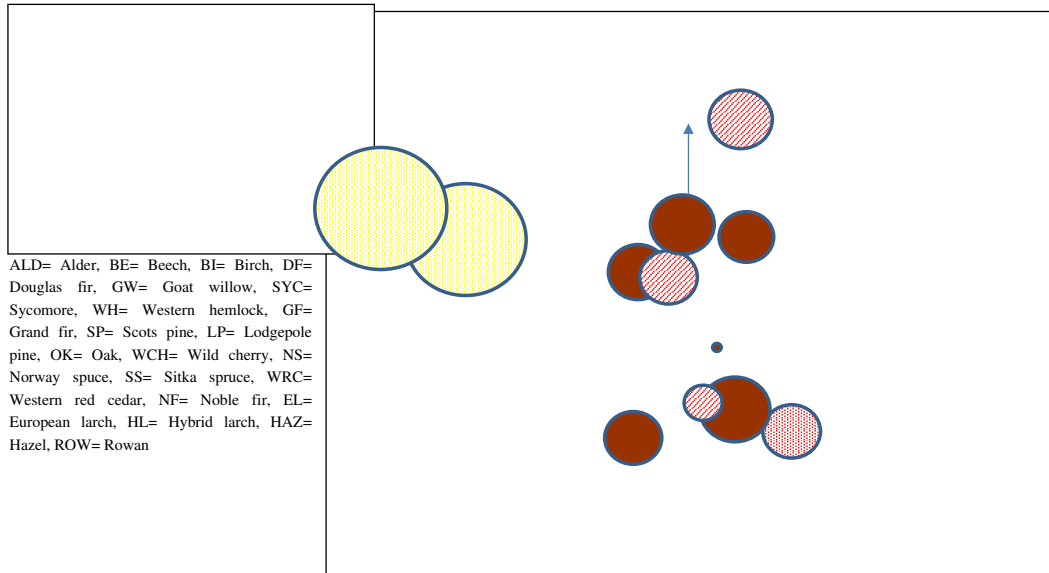
	Distance	Bering	Species	Diam1	Diam2	Non viable1	Non viable2
1	5.1	170	SYC	14			
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

REGENERATION

	N° (1, 2 or 3)	Spp	Cover	Cl1	Cl2	Cl3	Browsing
3	OK				1		
3	BI				1		

COPPICE

Coppice Species
 N stems1
 N stems2
 Av Diam1
 Av Diam2
 Hazel coppice



OBSERVATIONS

Plot N°	7
Date	2021

TREES >17.5cm

	Bering	Distance	Species	Diam11	Diam12	Diam21	Diam22	Qual1	Qual2	Vitality1	Vitality2	Social Position1	Social Position2	Margin1	Margin2	Observation1	Observation2
1	61	8.6	EL	55		57		3		1		2					
2	95	5.2	EL	57		59		3		1		2					
3	120	17.2	EL	71		62		3		1		2					
4	176	16.7	EL	61		63		3		1		2					
5	204	9.3	EL	87		87		2		1		2					
6	215	30.8	BE	165		150		4		1		1					
7	247	21.3	EL	80		51		3		1		2				Fork	
8	302	27.0	EL	95		58		3		1		1				Double	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

POLES

	Distance	Bering	Species	Diam1	Diam2	Non viable1	Non viable2
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

REGENERATION

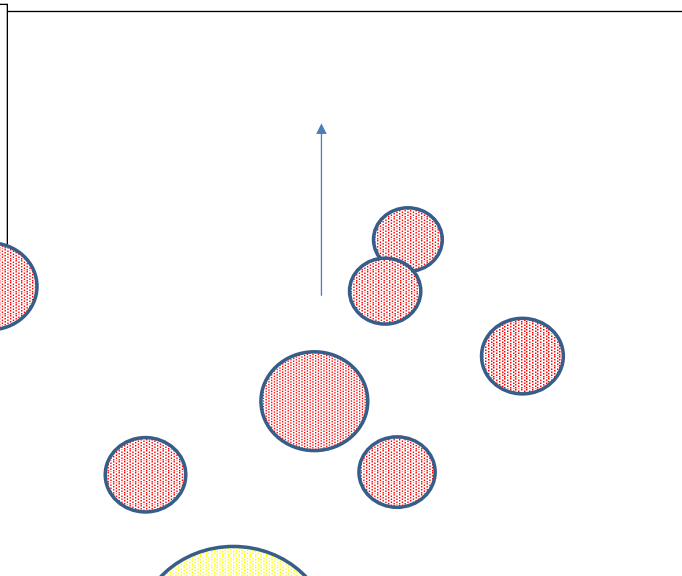
	N° (1, 2 or 3)	Spp	Cover	Cl1	Cl2	Cl3	Browsing

COPPICE

Coppice Species
 N stems1
 N stems2
 Av Diam1
 Av Diam2
 Hazel coppice



ALD= Alder, BE= Beech, BI= Birch, DF= Douglas fir, GW= Goat willow, SYC= Sycamore, WH= Western hemlock, GF= Grand fir, SP= Scots pine, LP= Lodgepole pine, OK= Oak, WCH= Wild cherry, NS= Norway spruce, SS= Sitka spruce, WRC= Western red cedar, NF= Noble fir, EL= European larch, HL= Hybrid larch, HAZ= Hazel, ROW= Rowan



OBSERVATIONS

Plot N°	8
Date	2021

Forest Plas yn ial

TREES >17.5cm

	Bering	Distance	Species	Diam1	Diam12	Diam21	Diam22	Qual1	Qual2	Vitality1	Vitality2	Social Position1	Social Position2	Margin1	Margin2	Observation1	Observation2
1	38	8.7	ROW	58		45		4		1		1					
2	66	20.0	SYC	64		58		4		1		1				Double	
3	122	3.1	BI	34		29		3		2		2				Double	
4	127	3.8	BI	28		22		3		2		2					
5	166	8.4	BI	28		25		3		2		2				Double	
6	170	8.6	BI	35		37		3		2		2				Double	
7	225	11.8	SCH	38		38		3		2		2				Elm	
8	237	6.8	SYC	24		26		4		2		2				Double	
9	255	6.7	SYC	24		23		3		2		2				Double	
10	256	7.1	SYC	23		21		3		2		2				Double	
11	258	3.6	SYC	25		24		3		2		2				Double	
12	261	7.5	SYC	25		27		3		2		2				Double	
13	261	5.1	SYC	27		27		4		2		2				Double	
14	266	5.6	SYC	18		19		4		2		2				Double	
15	366	8.5	SYC	31		32		4		3		2				Double	
16	377	10.0	SYC	31		35		4		3		2				Double	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

POLES

	Distance	Bering	Species	Diam1	Diam2	Non viable1	Non viable2
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

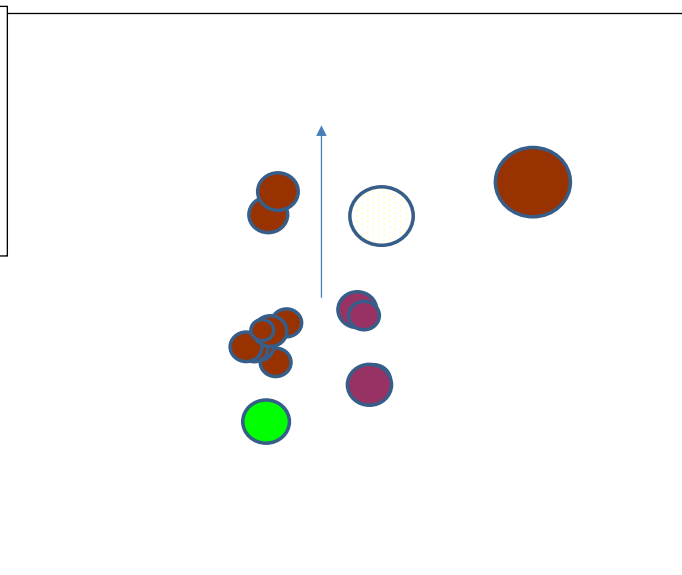
REGENERATION

N° (1, 2 or 3)	Spp	Cover	Cl1	Cl2	Cl3	Browsing

COPPICE

Coppice Species
 N stems1
 N stems2
 Av Diam1
 Av Diam2
 Hazel coppice

ALD= Alder, BE= Beech, BI= Birch, DF= Douglas fir, GW= Goat willow, SYC= Sycamore, WH= Western hemlock, GF= Grand fir, SP= Scots pine, LP= Lodgepole pine, OK= Oak, WCH= Wild cherry, NS= Norway spruce, SS= Sitka spruce, WRC= Western red cedar, NF= Noble fir, EL= European larch, HL= Hybrid larch, HAZ= Hazel, ROW= Rowan



OBSERVATIONS

Plot N°	9
Date	2021

Forest Plas yn ial

TREES >17.5cm

	Bering	Distance	Species	Diam1	Diam12	Diam21	Diam22	Qual1	Qual2	Vitality1	Vitality2	Social Position1	Social Position2	Margin1	Margin2	Observation1	Observation2
1	8	7.0	SYC	17													
2	18	10.1	SP	46		46		3		2		2					
3	28	9.6	BI	13													
4	65	17.4	OK	73		99		4		1		1					
5	105	22.8	OK	73		76		3		1		1					
6	107	7.9	BE	14													
7	115	8.7	SP	55		54		2		1		1					
8	121	9.2	BI	8													
9	222	8.6	SP	41		43		3		2		2					
10	241	14.4	SP	47		45		2		2		2					
11	256	11.6	SP	55		63		3		1		1					
12	260	10.5	SYC	71		66		3		1		1					
13	267	6.4	SP	51		53		2		2		2					
14	291	4.6	SYC	42		50		4		2		2				Double	
15	293	9.1	SP	38		46		2		2		2					
16	295	4.2	SYC	29		29		4		3		3				Double	
17	317	12.6	SP	54		56		2		2		2					
18	317	24.6	SYC	88		79		3		1		1					
19	353	4.4	SYC	9													
20	377	13.4	SP	55		55		3		2		2					
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	

POLES

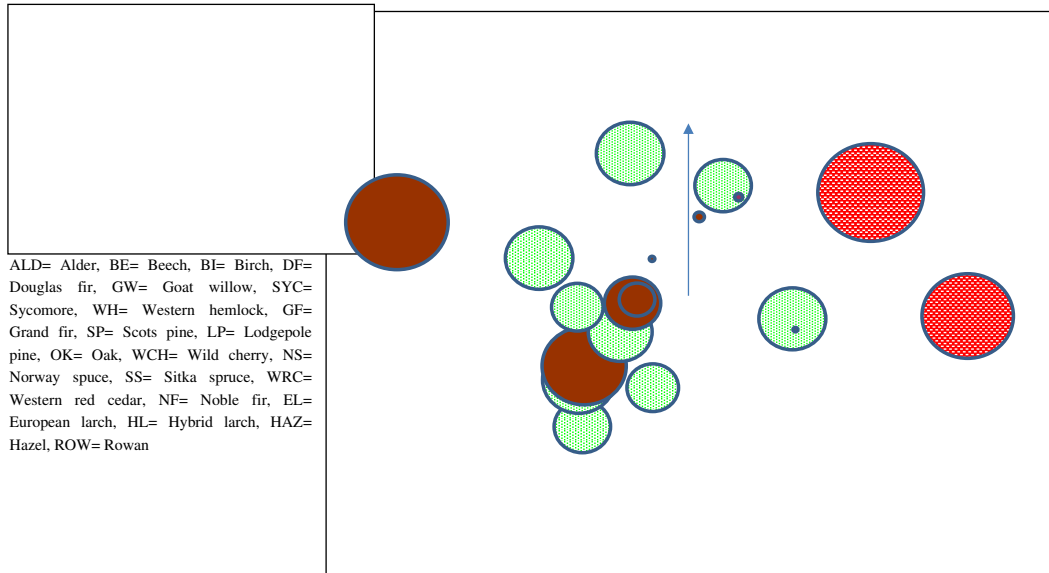
	Distance	Bering	Species	Diam1	Diam2	Non viable1	Non viable2
1	7.0	8	SYC	17			
2	9.6	28	BI	13			
3	7.9	107	BE	14			
4	9.2	121	BI	8			
5	4.4	353	SYC	9			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

REGENERATION

N° (1, 2 or 3)	Spp	Cover	Cl1	Cl2	Cl3	Browsing

COPPICE

Coppice Species
 N stems1
 N stems2
 Av Diam1
 Av Diam2
 Hazel coppice



OBSERVATIONS

