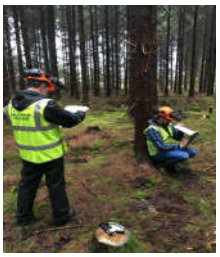
Why measure standing timber?



Dr. Máirtín Mac Siúrtáin

tmmv@eircom.net

Why measure standing timber?

You are the owner of the standing timber.

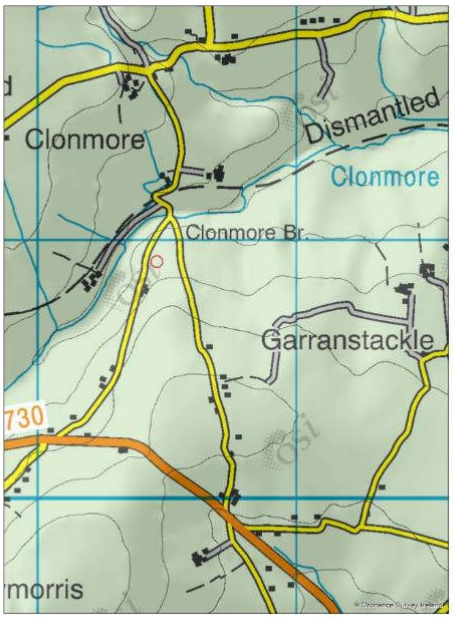
Measurement of standing timber will empower you:

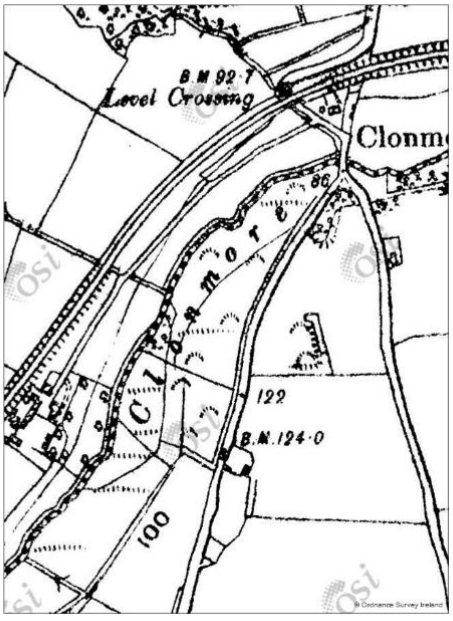
- **to negotiate with confidence the best price for your thinnings and clearfell**
- **to make informed forest management decisions**

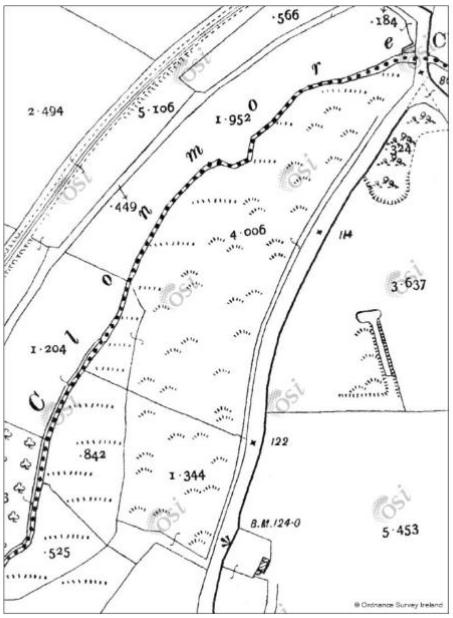
Why measure standing timber?

Measurement of standing timber will inform you:

- **of the volume to thinned**
- **of the General Yield Class of your stand**
- **of how to control the thinning**
- **of reliable quantitative estimates of the stand**
- **of thinning and clearfell options BEFORE any trees are felled**


Clonmore
Dismantled
Clonmore
Clonmore Br.
Garranstackle
730
morris


B.M.92·7
Level Crossing
Clonm
86
122
B.M.124·0
100


·566
·184
2·494
5·106
1·952
·449
4·006
114
3·637
1·204
·842
1·344
122
B.M.124-0
5·453
·525
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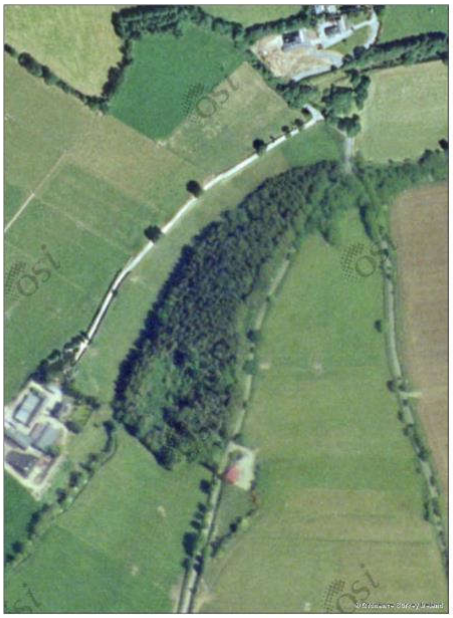
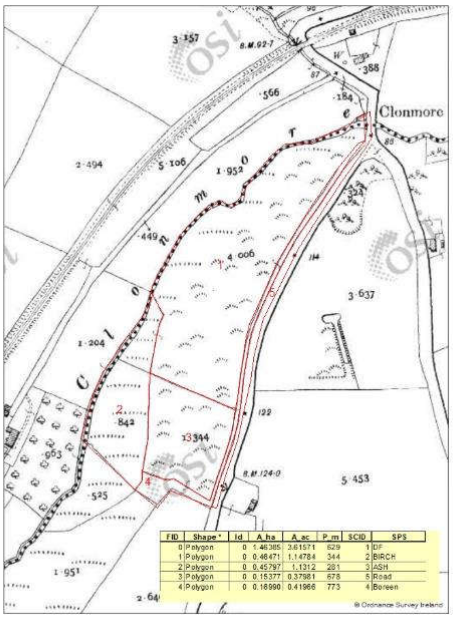
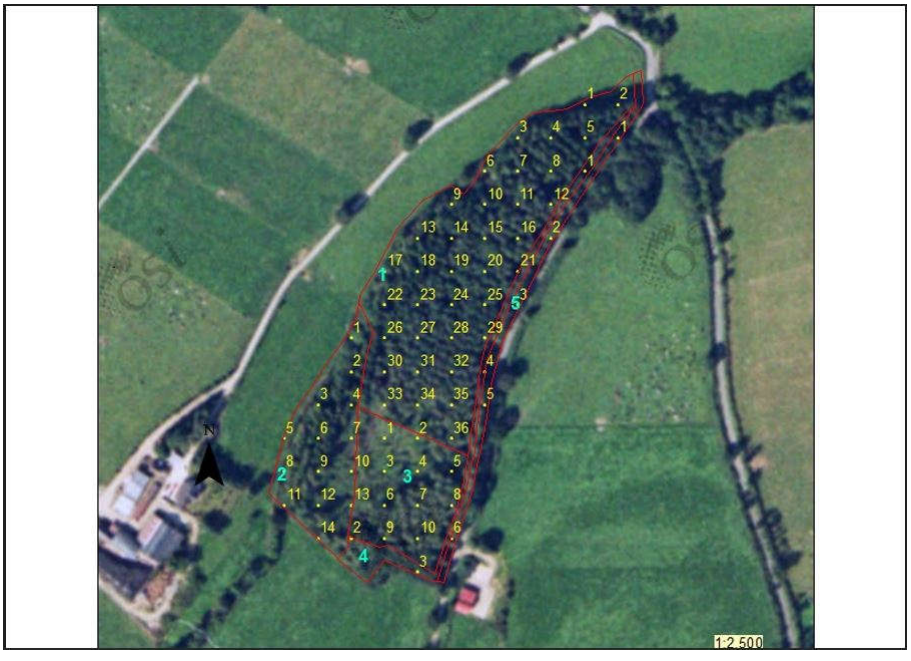
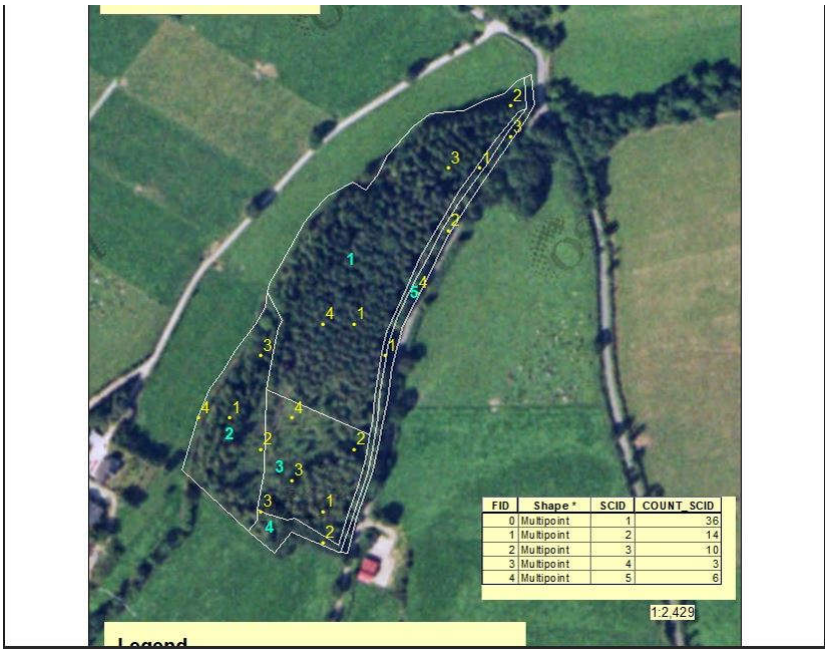
MARION'S WOOD




Clonmore
3·157
B.M.62·7
566
388
184
2·494
5·106
1·953
449
4·006
114
3·637
1·204
842
3344
122
B.M.124·0
5·453
525
1·951
2·64
FID | Shape* | Id | A_ha | A_ac | P_m | SCID | SPS
0 | Polygon | 0 | 1.46385 | 3.61571 | 629 | 1 | DF
1 | Polygon | 0 | 0.46471 | 1.14784 | 344 | 2 | BIRCH
2 | Polygon | 0 | 0.45797 | 1.1312 | 281 | 3 | ASH
3 | Polygon | 0 | 0.15377 | 0.37981 | 678 | 5 | Road
4 | Polygon | 0 | 0.18990 | 0.41966 | 773 | 4 | Boreen
© Ordnance Survey Ireland


N
1:2,500


TMMV LTD
TIMBER MAN
086-2173519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1 | Multipoint | 2 | 14
2 | Multipoint | 3 | 10
3 | Multipoint | 4 | 3
4 | Multipoint | 5 | 6
1:2,429
Legend

FOREST MANGEMENT UNIT	Thin	Line:	CYCLE	MTI	ROTN	RED_FAC	ACCESS	Standing	€ pulp	€ pallet	€ sawlog	ROI	County	Wexford
DECISIONS	1	1	4	0.7	1	0.5	1	1	15	25	45	0.05	Ownership	Private
19_WX_023_0101_067_04.csv													Stratum	Large pole
Forester	MMS	Land Type	PREP	Thinned	Soil Class	Accessible	D_m_Road	OWNER_ID	TD_07	TD_14	TD_20	Min_€_ac	Quality	High
YR_S	2019	Enclosed	Windr	Unthi	Wet Mi	Accessible	50	023	7	14	20	2000	Straightness	Straight
SCID	1	1	7	0	1	1	50	023	7	14	20	2000	Branches	Fine
SC_ha	1.46385												Windthrow risk	Low
FMU_ID	_0101_067	OWNER	Collect	Pool	Publish		RandomNo	Max_Rand	L_07	L_14	L_20	Max_€_a	Extract by	Tractor
n_SUs_SC	4	Permission	Yes	Yes	Yes		4	4	3.1	3.7	3.7	4000	Impediments	None
SU_n	28		2		8		27		3.1	3.7	3.7	4000	Models	Forestry Cor
E_m	694320		694420		694380		694300						Assortments	Coillte SS
N_m	694320		631140		631100		631000		PROB	Ep_mDBH	Ep_mVOL		Stratify by	Age classes
SU_ha	0.02		0.02		0.02		0.02		95	15	15		Constraints	None
Slope	0						20		95	15	15		DIS_REV base	Prices supplie
SPS_SU	DF		DF		DF		DF						Species 1	DF
n_SPS_SU	1		1		1		1						Species 2	BIR
DBH	SU11	SU12	SU21	SU22	SU31	SU32	SU41	SU42	SU1	SU2	SU3	SU4	SP1	SP2

DBH	SU11	SU12	SU21	SU22	SU31	SU32	SU41	SU42	SU1	SU2	SU3	SU4	SP1	SP2	SC
Frequency by Diameter class	DF		DF		DF		DF						DF		DF
10	1								1	0	0	0	1		1
11	4		1				1		4	1	0	1	6		6
12	2		2				1		2	2	0	1	5		5
13	3		1				2		3	1	0	2	6		6
14	2		1				1		2	1	0	1	4		4
15	2		1		1				2	1	1	0	4		4
16	3				1		4		3	0	1	4	8		8
17	7		2				1		7	2	0	1	10		10
18	2		1		1		4		2	1	1	4	8		8
19	1		2		3		1		1	2	3	1	7		7
20	1		4		1		1		1	4	1	1	7		7
21					4				0	0	4	0	4		4
22					1				0	0	1	0	1		1
23			1						0	1	0	0	1		1
24					1				0	0	1	0	1		1
25					1				0	0	1	0	1		1

Mean height diameter estimates	DF	DF	DF	DF		DF
MD1 (Mean diameter 1 cm)	17.0	17.0	21.0	17.0		18.1
MH1 (Mean height 1 m)	9.9	12.8	15.0	10.5		12.0
MD2 (Mean diameter 2 cm)	17.0	17.0	19.0	16.0		17.3
MH2 (Mean height 2 cm)	12.2	12.3	14.9	11.5		12.7
TH1 (Top height 1 m)	8.8	12.5	13.8	12.5		11.9
TH2 (Top height 2 m)	10.5			13.7		12.1
P_YR (Planting year)	1999	1999	1999	1999		1999
AGE_YR_S (Age in year sampled)	20	20	20	20		20
Basal area estimates	DF	DF	DF	DF		DF
B_ha (Square metre / ha)	25.4	18.7	22.5	23.5		22.2
S_ha (Stems / ha)	1450	800	700	1224		1029
MDBH (cm)	0.017	0.023	0.032	0.019		0.022
B_SC	37.1	27.3	33.0	34.4		32.6

SPS Proportion estimates	DF	DF	DF	DF		DF
n_Trees_SU (No trees sampled)	28	15	13	22		78
O_STR (Objective stratum)	6	6	6	6		6
PR_SPS (Proportion of SPS / SU)	1.000	1.000	1.000	1.000		1.000
Local VOL_BA estimates	DF	DF	DF	DF		DF
b1_VB (Slope VB)	6.630	7.333	8.126	6.658		7.181
bo_VB (Intercept VB)	-0.020	-0.023	-0.026	-0.021		-0.023
Average growing stock estimates	DF	DF	DF	DF		DF
AGS_ha (Mean growing stock / ha)	83	117	134	126		114
V_ha (Volume / ha)	156	125	171	141		154
THIN? Yes or No	Yes	Yes	Yes	Yes		Yes

Mean DBH estimates	DF	DF	DF	DF		DF
95%UL_MDBH (Upper MDBH)	16.0	19.0	21.7	18.4		17.6
MDBH (Mean DBH cm)	14.9	17.2	20.2	15.6		16.6
95% LL_MDBH (Lower MDBH)	13.8	15.3	18.6	12.3		15.5
Species Assortment estimates	DF	DF	DF	DF		DF
P_07_14 (Proportion pulp)	0.549	0.378	0.209	0.493		0.422
P_14_20 (Proportion pallet)	0.397	0.551	0.489	0.456		0.521
P_20+ (Proportion sawlog)	0.015	0.119	0.329	0.037		0.082
Mean Volume estimates	DF	DF	DF	DF		DF
95%UL_MVOL (Upper mean)	0.125	0.195	0.285	0.164		0.168
MVOL (Mean volume cubic metre)	0.108	0.157	0.245	0.115		0.149
95% LL_ MVOL (Lower mean)	0.090	0.118	0.204	0.067		0.130
Required_sample_size_MVOL	35	43	17	181		62
Extra_number_of_samples	6	27	3	158		-20
Continue to sample mVOL	Sample	Sample	Sample	Sample		STOP

Yield Class estimates	DF	DF	DF	DF		DF
Top height (m)	9.7	12.5	13.8	13.1		12.3
Age in year sampled (years)	20	20	20	20		20
General yield class (cubic m/ha/a)	10.0	14.0	16.0	16.0		14.0

Why measure standing timber?

My approach to my standing timber is based on:
Timber Management, Measurement and Valuation

Conclusion
When you have Managed, Measured and Valued
your standing timber
then, and only then, consider selling the timber.

Why measure standing timber?

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