

DRY FORESTS

Guide to inputting dry forest tree data into ForestPlots.net

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Overview

Dry Forests typically contain many multi-stemmed trees and stem diameters are often measured at 1 or 2 points of measure (POM). Additional fields have been created in ForestPlot.net to support the upload of dry forest stem by stem data.

Additional fields for 'Dry Forest' plots:

Header	Description	Unit /Format	
New stem grouping	For multi-stemmed trees. Although developed specifically for dry forests, the 'New stem grouping' can also be used for multi-stemmed trees of any forest type.	Use a unique identifier for multiple stems of the same tree	
Extra D	Refers to Extra diameter measurements Eg basal measurements (usually at POM=300mm). For Dry Forests only.	(mm) May be left blank	
Extra POM:	Extra Point of Measure for Extra D eg basal measurements (usually at POM=300mm). For Dry Forests only.	(mm) Integer. May be left blank	
CD1 & CD2 (Crown diameter – orthogonal):	Crown diameter 1 (CD1 is measured orthogonal to CD2, i.e. at a direction this is at right-angles to CD2). For Dry Forests only.	(m) Optional measurement	

Key Steps

This section highlights the key steps needed to upload dry forest data into ForestPlots.net and should be used together with our videos and guides on uploading a new plot or a new tree census from any forest type to ForestPlots.net:

- ForestPlots Upload Training Videos available at: http://www.forestplots.net/en/resources/upload
- ForestPlots Manual, Section 5.13 Import Plot (p151-171)
 http://www.forestplots.net/upload/ManualsEnglish/ForestPlotsManualApril 112016 sm.pdf

STEP 1 – Tick 'Is Dry Forest'

To upload dry forest data, make sure 'Is Dry Forest' is ticked in the 'Forest Type' panel during data import. This will 'activate' the additional dry forest fields.

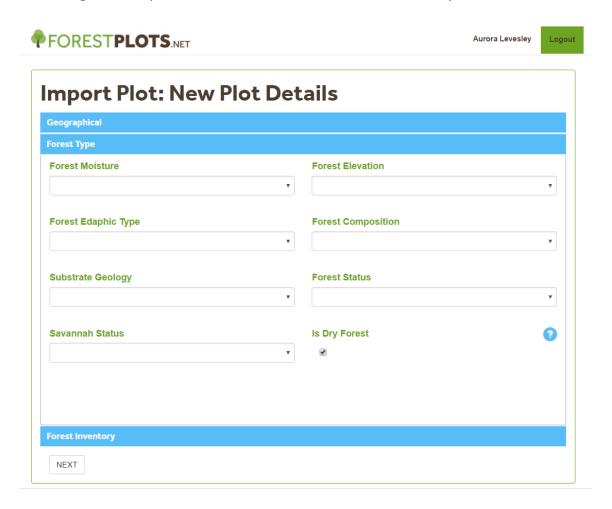


Fig1: Ticking 'Is Dry Forest' will 'activate' the dry forest fields for upload.

STEP 2 - New Stem Grouping:

Use a unique identifier for multiple stems of the same tree on your upload excel sheet. Each row represents a single stem. All stems from the same tree are given the same 'stem tag grouping' code (this can be anything you like, eg numbers, letters or combination of numbers and letters).

When the excel sheet is uploaded, the system will link all stems with the same 'Stem tag grouping' and when a new field sheet is generated or plot dump created, this column will be allocated the tag number of the largest stem (largest DBH) from all the linked stems. The allocated 'stem tag grouping' after upload will therefore differ from that originally uploaded.

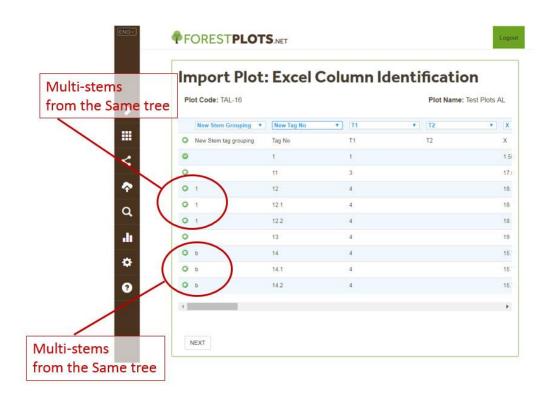


Fig 2: **Data Upload:** Stem Tag Grouping code on data import can be anything (eg number(s) or/& letter(s))

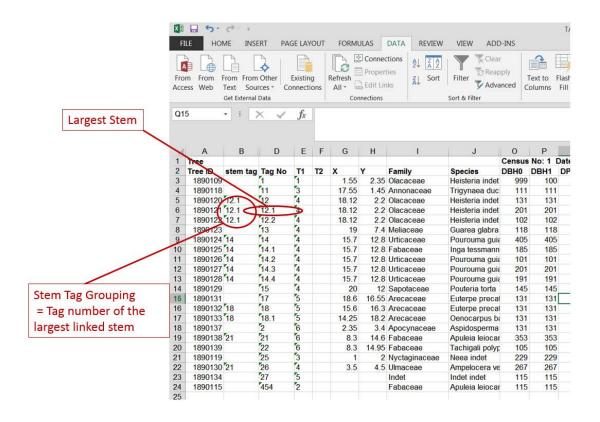


Fig 3. **Plot Dump:** The system redefines the Stem Tag Grouping code as the tag number of the largest stem (largest DBH) from all the linked stems

STEP 3 – D, POM, Extra D and Extra POM

- NB: D and POM cannot = NULL
- D and POM refer to the measurement at 1300mm (or moved for deformity/buttress, standard RAINFOR protocol).
- Extra D and Extra POM refer to Extra diameter measurements Eg basal measurements (usually at POM=300mm).
- Enter POM=0 if POM is not recorded or if the tree is dead. Enter POM=9999 if POM is not recorded but certainly >1300mm.

If the field protocol uses a single POM:

- If the field protocol calls for measurements at POM ~ 1300 only, then use D and POM only and leave Extra D and Extra POM blank.
- If the field protocol calls for measurements at POM ~ 300 only, then enter the measurements in Extra D and Extra POM columns and enter 0 for D and POM.

If the field protocol uses 2 POMs (eg at POM=1300 and Extra POM=300):

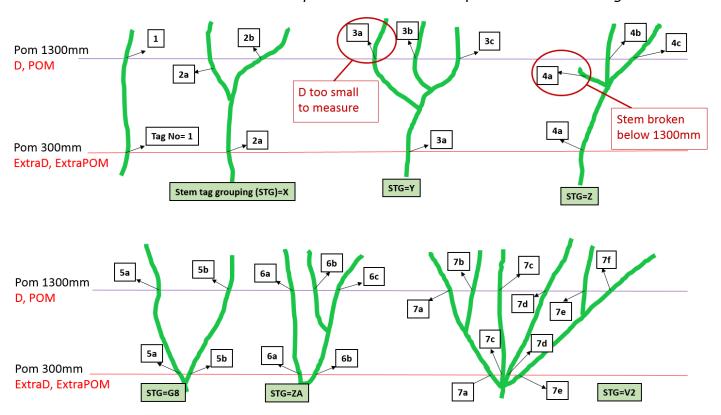
Enter any D= NULL values as 0.

- These will be stems that are too small to measure at POM=1300 but were large enough to measure at Extra POM=300, (see Fig 4, Tag No=3a below as an example)
- or stems that have snapped below POM=1300, if so then please use flag1=k (see Fig 4, Tag No=4a below as an example)

Leave any Extra D and Extra POM NULL values as blank

These will be stems that have branched above Extra POM=300

Fig 4. Diagrammatic representation of different multiple stemmed trees showing position of POM, D, Extra POM, Extra D. Stem Tag Grouping (STG) and Tag Number. Please see the table below for an example of the tree data represented in the diagram.



Stem tag grouping	Tag No	T1	T2	Х	Υ	D	РОМ	Extra D	Extra POM
	1					100	1300	122	300
Χ	2a					100	1300	100	300
Χ	2b					100	1300		
Υ	3a					0	0	120	300
Υ	3b					125	1300		
Υ	3c					102	1300		
Z	4a					0	0	249	300
Z	4b					201	1300		
Z	4c					199	1300		
G8	5a					156	1300	160	300
G8	5b					136	1300	142	300
ZA	6a					201	1300	220	300
ZA	6b					100	1300	109	300
ZA	6c					100	1300		
V2	7a					150	1300	158	300
V2	7b					147	1300		
V2	7c					162	1300	165	300
V2	7d					128	1300	152	300
V2	7e					132	1300	142	300
V2	7f					129	1300		

STEP 4- CD1 & CD2

CD1 & CD2 (Crown diameter –orthogonal): Crown diameter 1 (CD1 is measured orthogonal to CD2, i.e. at a direction this is at right-angles to CD2).

STEP 5- Flag 1

Please note that for alive normal multi-stemmed trees, Flag 1=ah