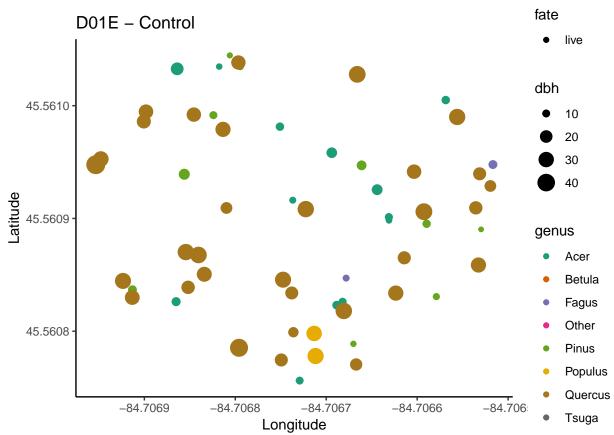
disturbance_stem_maps_group_d Jeff Atkins May 01, 2019

Disturbance Stem Maps

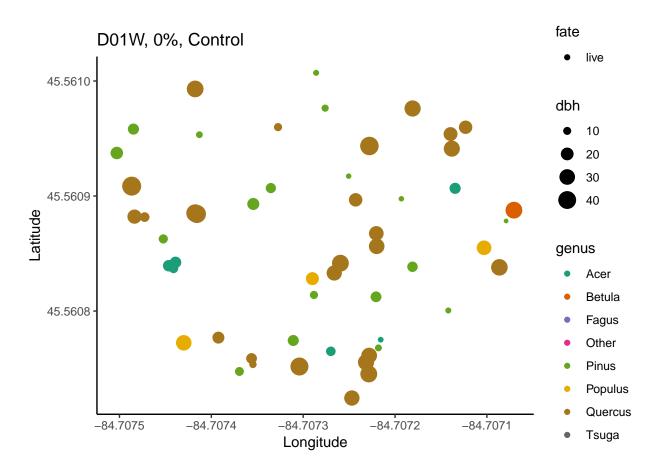
The following document produces stem maps that assign mortality and treatments for the FoRTE project.

D01

```
## D01E, 0%, Control
## Plot LAI
## [1] 3.633188
##
## live
## 60
```



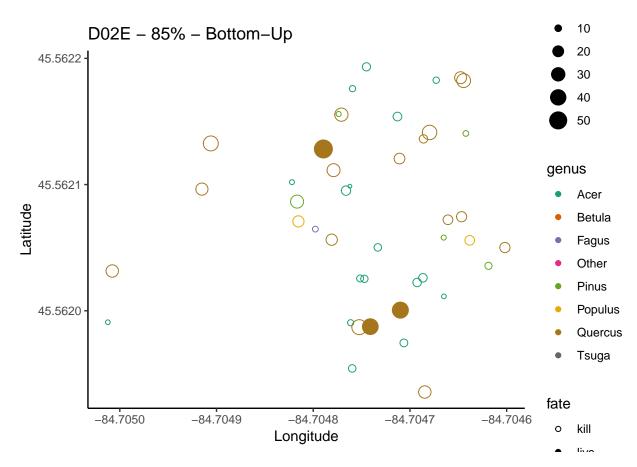
```
## D01W, 0%, Control
##
## live
## 54
```



Plot LAI ## [1] 3.633188

D02

D02E, 85%, bottom-down
##
kill live
77 4



```
## Plot LAI
```

[1] 4.617035

LAI of all trees to Kill

[1] 3.863693

Ratio of Kill to Live LAI - Targetting 65% Disturbance threshold

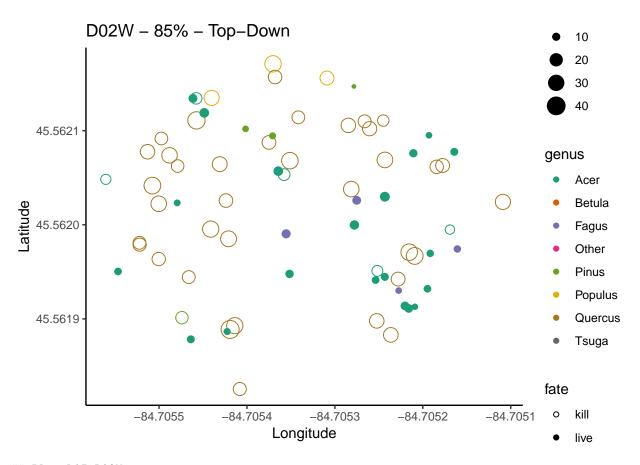
[1] 0.8368342

D02W, 85%, Top-Down

##

kill live

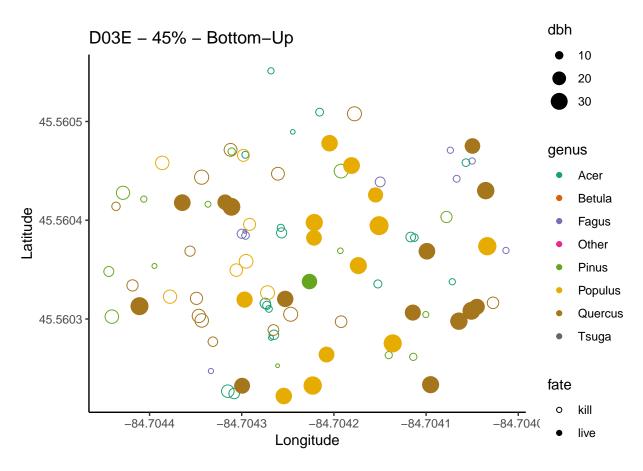
45 28



```
## Plot LAI D02W
## [1] 4.28631
## LAI of all trees to Kill
## [1] 3.613063
## Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold
## [1] 0.8429308
```

D03

```
## DO3E, 45%, Bottom-Up
##
## kill live
## 66 28
```



```
## Plot LAI DO2W
```

[1] 4.89309

LAI of all trees to Kill

[1] 2.148986

Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold

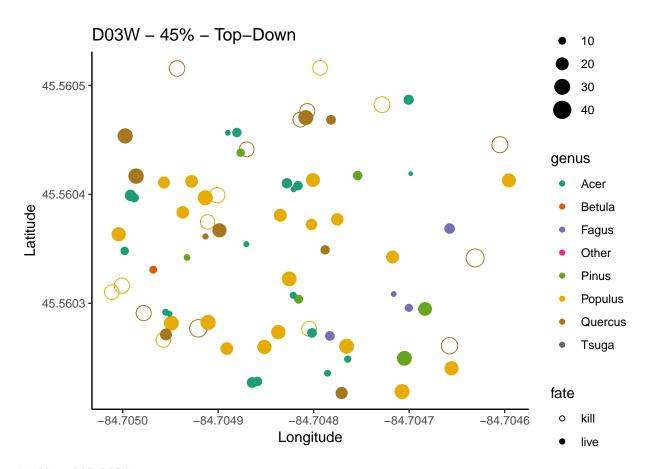
[1] 0.439188

DO3W, 45%, Top-Down

##

kill live

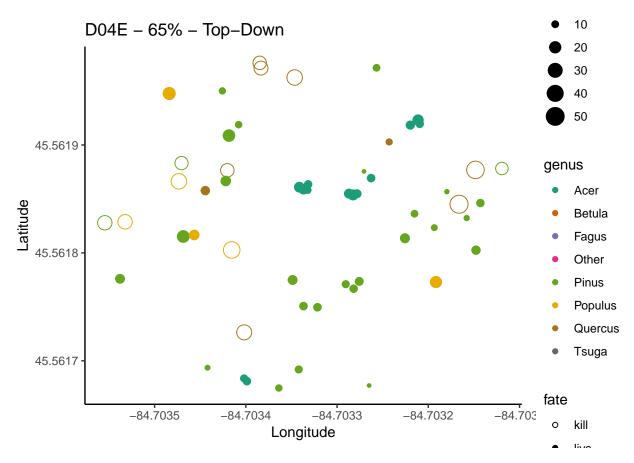
17 59



```
## Plot LAI DO3W
## [1] 4.197842
## LAI of all trees to Kill
## [1] 1.83237
## Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold
## [1] 0.4365028
```

D04

```
## D04E, 65%, top-down
##
## kill live
## 13 44
```



```
## Plot LAI DO4E
```

[1] 2.247027

LAI of all trees to Kill

[1] 1.451658

Ratio of Kill to Live LAI - Targeting 65% Disturbance threshold

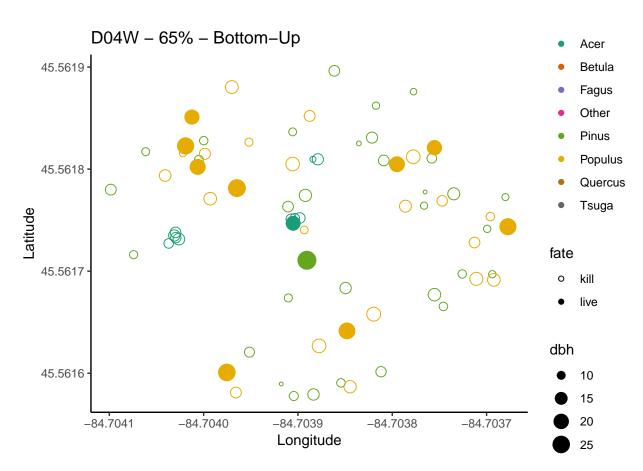
[1] 0.6460352

DO4W, 65%, Bottom-Down

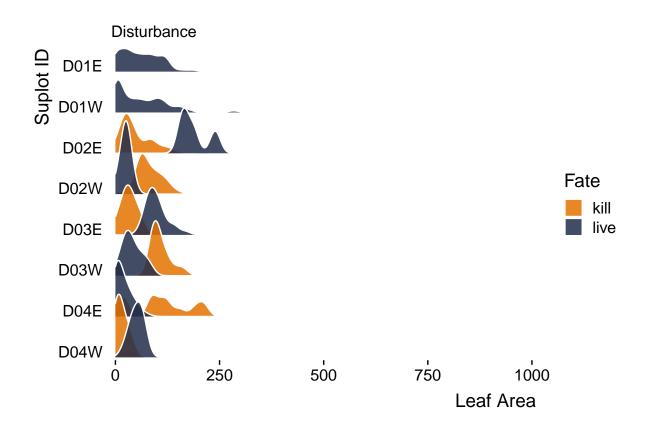
##

kill live

63 11



- ## Plot LAI DO4W
- ## [1] 1.450113
- ## LAI of all trees to Kill
- ## [1] 0.8929707
- ## Ratio of Kill to Live LAI Targeting 65% Disturbance threshold
- ## [1] 0.6157939
- ## Picking joint bandwidth of 12.4



```
## Total mortality count
##
## kill live
## 281 288
## Estimated total number of trees killed for all 0.5 ha plots combined in Group C
## [1] 702.5
```

