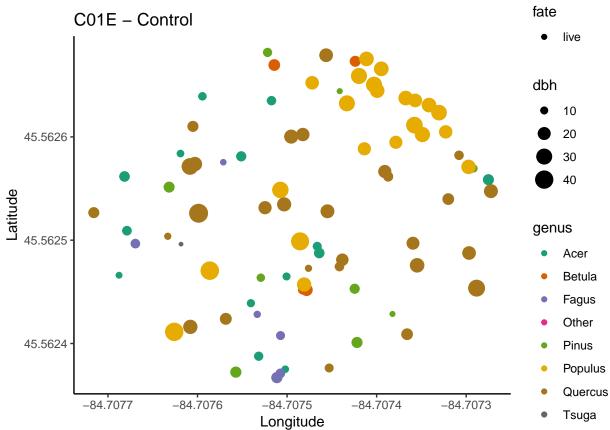
# disturbance\_stem\_maps\_group\_c Jeff Atkins May 01, 2019

# Disturbance Stem Maps

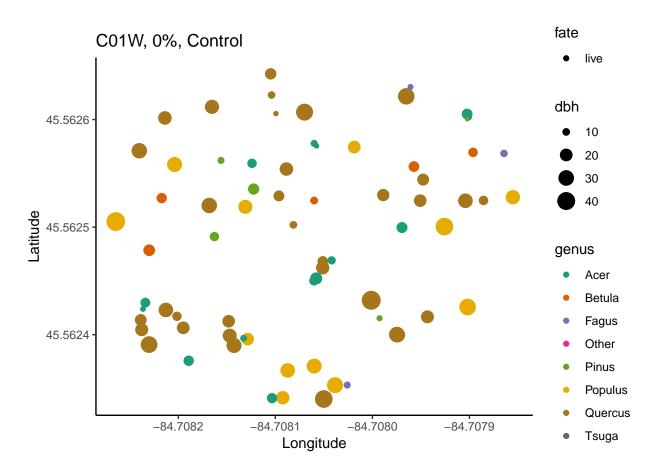
The following document produces stem maps that assign mortality and treatments for the FoRTE project.

#### C01

```
## C01E, 0%, Control
## Plot LAI
## [1] 4.554842
##
## live
## 85
```



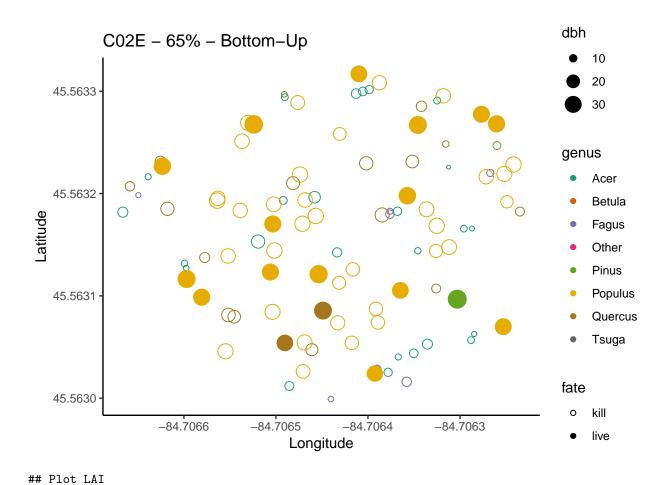
```
## C01W, 0%, Control
##
## live
## 72
```



```
## Plot LAI
## [1] 4.554842
```

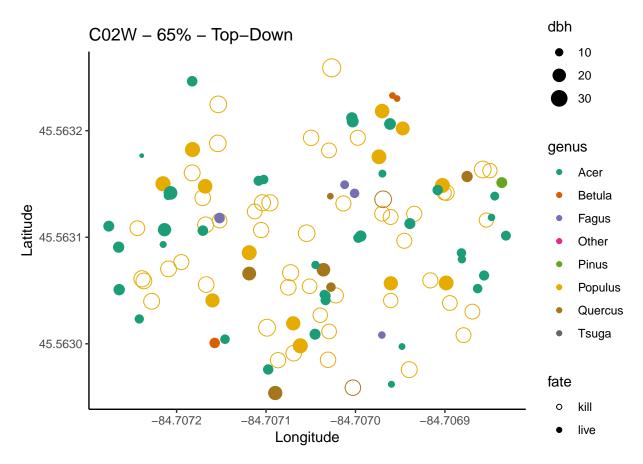
# C02

```
## C02E, 65%, bottom-down
## Plot leaf.area
## [1] 6.060388
##
## kill live
## 83 18
```



```
## [1] 6.060388
## LAI of all trees to Kill
## [1] 3.861897
## Ratio of Kill to Live LAI - Targetting 65% Disturbance threshold
## [1] 0.637236
## CO2W, 65%, Top-Down
```

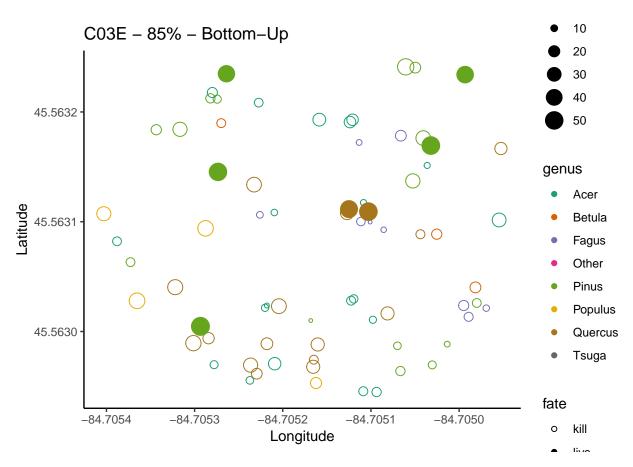
## ## kill live ## 50 64



```
## Plot LAI CO2W
## [1] 7.268545
## LAI of all trees to Kill
## [1] 4.719676
## Ratio of Kill to Live LAI - Targeting 65% Disturbance threshold
## [1] 0.6493288
```

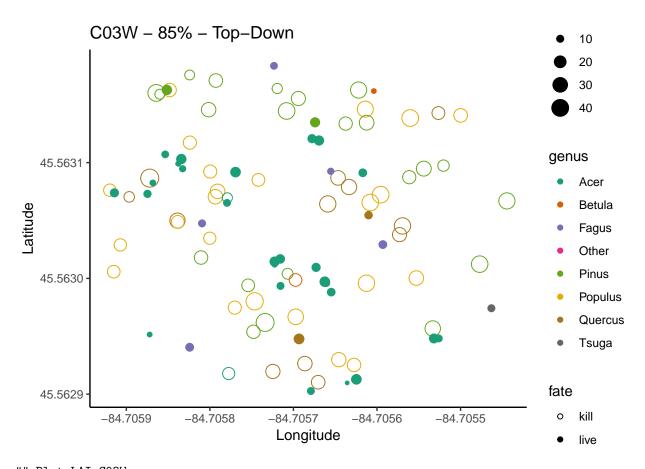
### C03

## CO3E, 85%, Bottom-Up
##
## kill live
## 67 7



```
## Plot LAI CO2E
```

- ## [1] 4.291152
- ## LAI of all trees to Kill
- ## [1] 3.616686
- ## Ratio of Kill to Live LAI Targeting 85% Disturbance threshold
- ## [1] 0.842824
- ## CO3W, 85%, Top-Down
- ##
- ## kill live
- ## 60 37

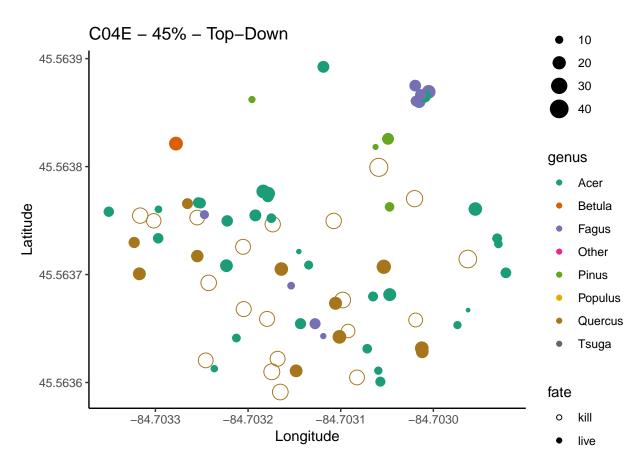


```
## Plot LAI CO3W
## [1] 6.587342
## LAI of all trees to Kill
## [1] 5.580957
## Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold
```

### C04

## CO4E, 45%, top-down
##
## kill live
## 20 55

## [1] 0.8472245



```
## Plot LAI CO4E
```

## [1] 4.4615

## LAI of all trees to Kill

## [1] 1.946295

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

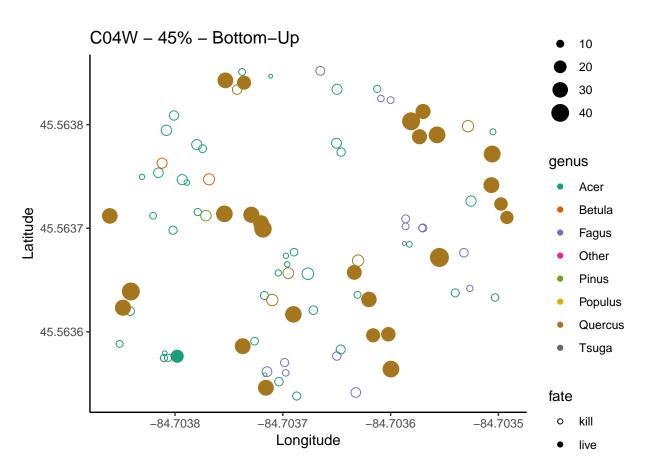
## [1] 0.4362423

## CO4W, 45%, Bottom-Down

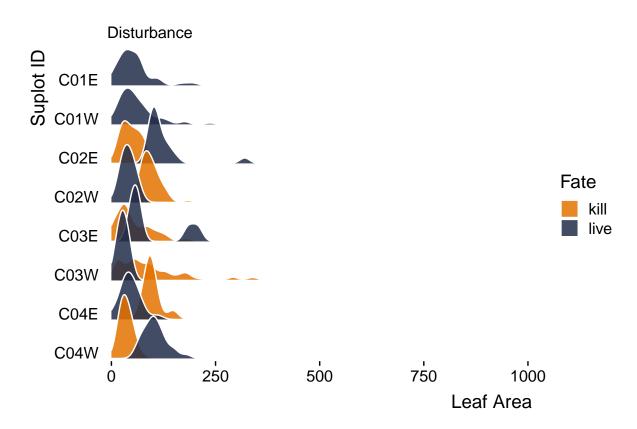
##

## kill live

## 63 27



- ## Plot LAI CO4W
- ## [1] 5.039303
- ## LAI of all trees to Kill
- ## [1] 2.220149
- $\mbox{\tt \#\#}$  Ratio of Kill to Live LAI Targeting 45% Disturbance threshold
- ## [1] 0.4405666
- ## Picking joint bandwidth of 11.9



```
## Total mortality count
##
## kill live
## 343 365
## Estimated total number of trees killed for all 0.5 ha plots combined in Group C
## [1] 857.5
```

