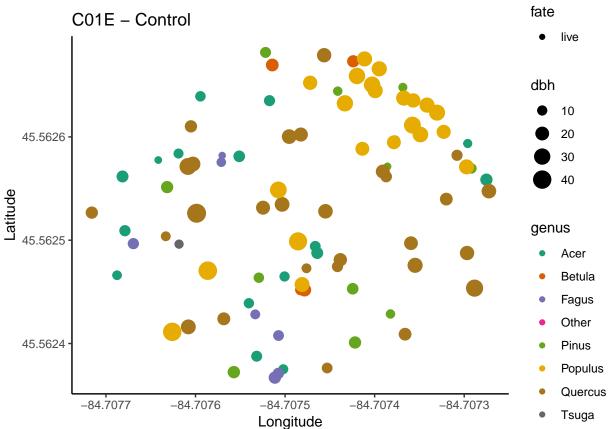
# disturbance\_stem\_maps\_group\_c Jeff Atkins April 4, 2019

# Disturbance Stem Maps

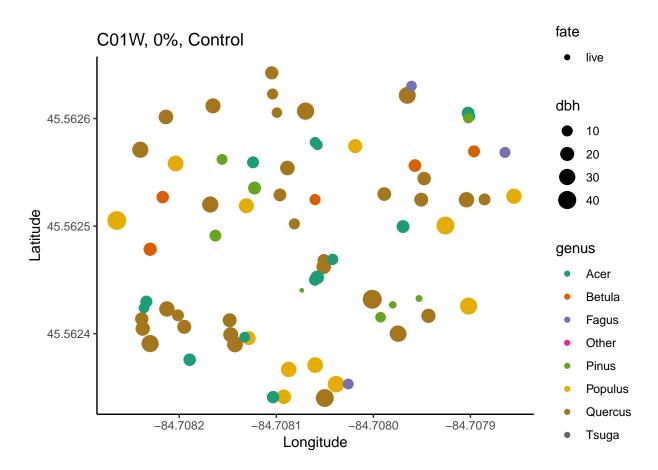
The following document produces stem maps that assign mortality and treatments DRAFT DRAFT DRAFT

#### C01

```
## C01E, 0%, Control
## Plot LAI
## [1] 4.599969
##
## live
## 91
```



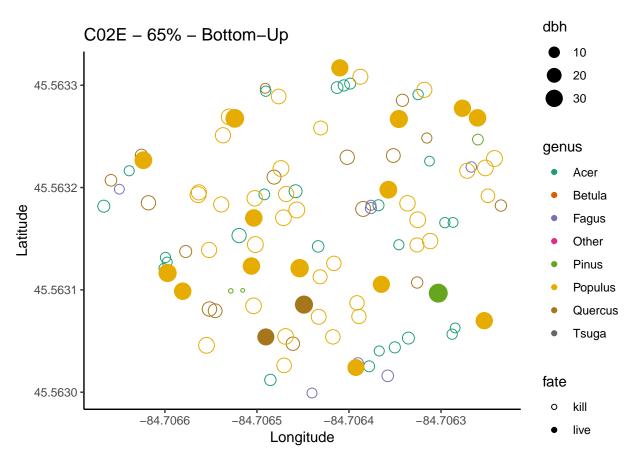
```
## C01W, 0%, Control
##
## live
## 75
```



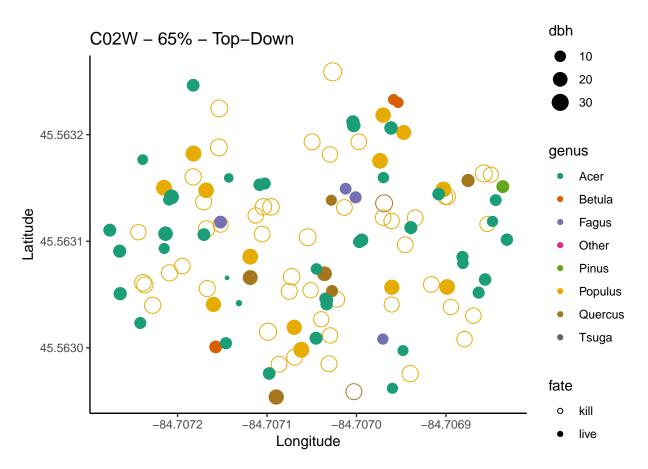
```
## Plot LAI
## [1] 4.599969
```

# C02

```
## C02E, 65%, bottom-down
## Plot leaf.area
## [1] 6.076819
##
## kill live
## 86 18
```



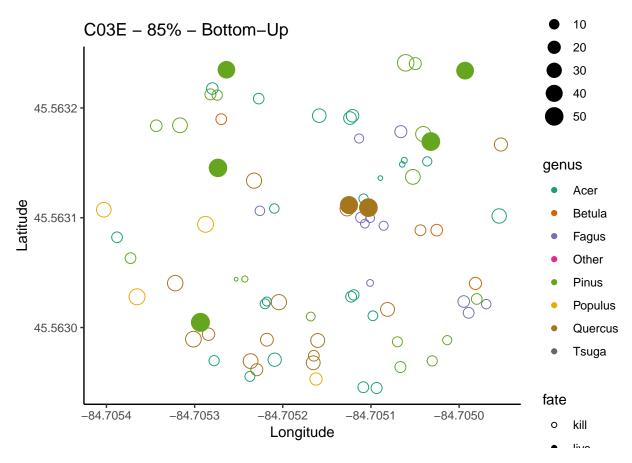
```
## Plot LAI
## [1] 6.076819
## LAI of all trees to Kill
## [1] 3.878329
## Ratio of Kill to Live LAI - Targetting 65% Disturbance threshold
## [1] 0.6382169
## CO2W, 65%, Top-Down
##
## kill live
## 50 67
```



```
## Plot LAI CO2W
## [1] 7.280626
## LAI of all trees to Kill
## [1] 4.719676
## Ratio of Kill to Live LAI - Targeting 65% Disturbance threshold
## [1] 0.6482514
```

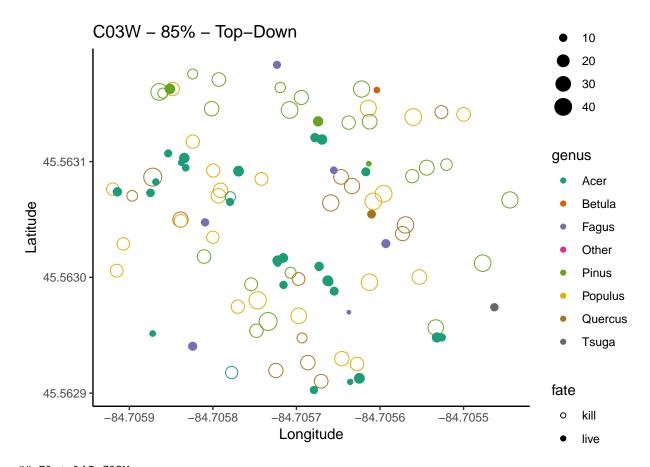
### C03

## CO3E, 85%, Bottom-Up
##
## kill live
## 74 7



```
## Plot LAI CO2E
```

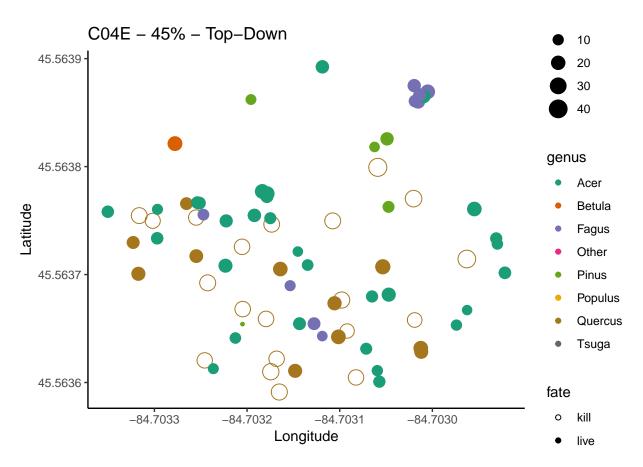
- ## [1] 4.324047
- ## LAI of all trees to Kill
- ## [1] 3.649581
- ## Ratio of Kill to Live LAI Targeting 85% Disturbance threshold
- ## [1] 0.8440197
- ## CO3W, 85%, Top-Down
- ##
- ## kill live
- ## 61 38



```
## Plot LAI CO3W
## [1] 6.61111
## LAI of all trees to Kill
## [1] 5.615334
## Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold
## [1] 0.8493783
```

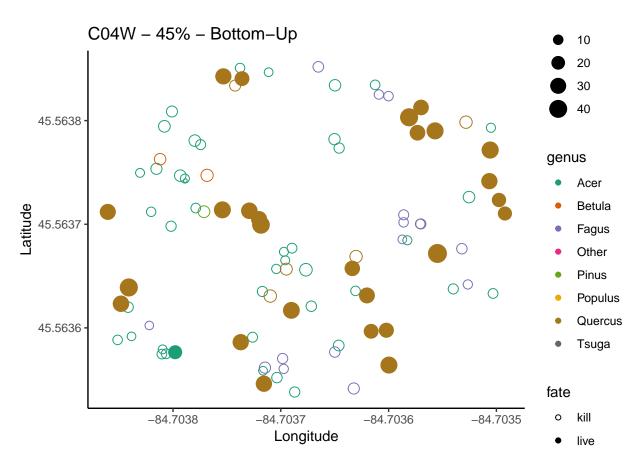
### C04

```
## C04E, 45%, top-down
##
## kill live
## 20 56
```

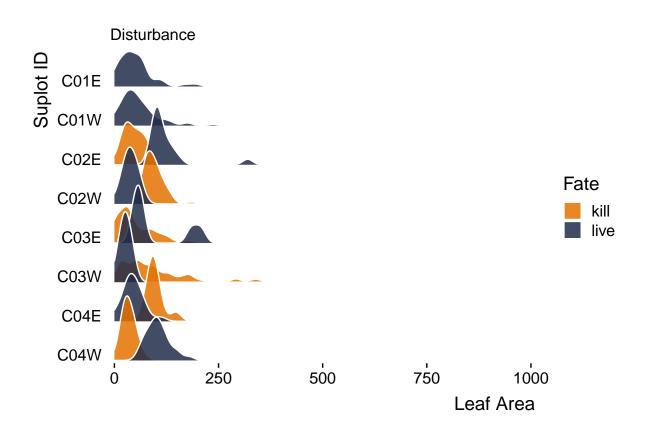


```
## Plot LAI CO4E
```

- ## [1] 4.461615
- ## LAI of all trees to Kill
- ## [1] 1.946295
- ## Ratio of Kill to Live LAI Targeting 65% Disturbance threshold
- ## [1] 0.4362311
- ## CO4W, 45%, Bottom-Down
- ##
- ## kill live
- ## 66 27



- ## Plot LAI CO4W
- ## [1] 5.082257
- ## LAI of all trees to Kill
- ## [1] 2.263103
- $\mbox{\tt \#\#}$  Ratio of Kill to Live LAI Targeting 45% Disturbance threshold
- ## [1] 0.4452949
- ## Picking joint bandwidth of 12



```
## Total mortality count
```

##

## kill live ## 357 379

## Estimated total number of trees killed for all 0.5 ha plots combined in Group C ## [1] 892.5

