

# 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

### D01

```
## D01E, 0%, Control
```

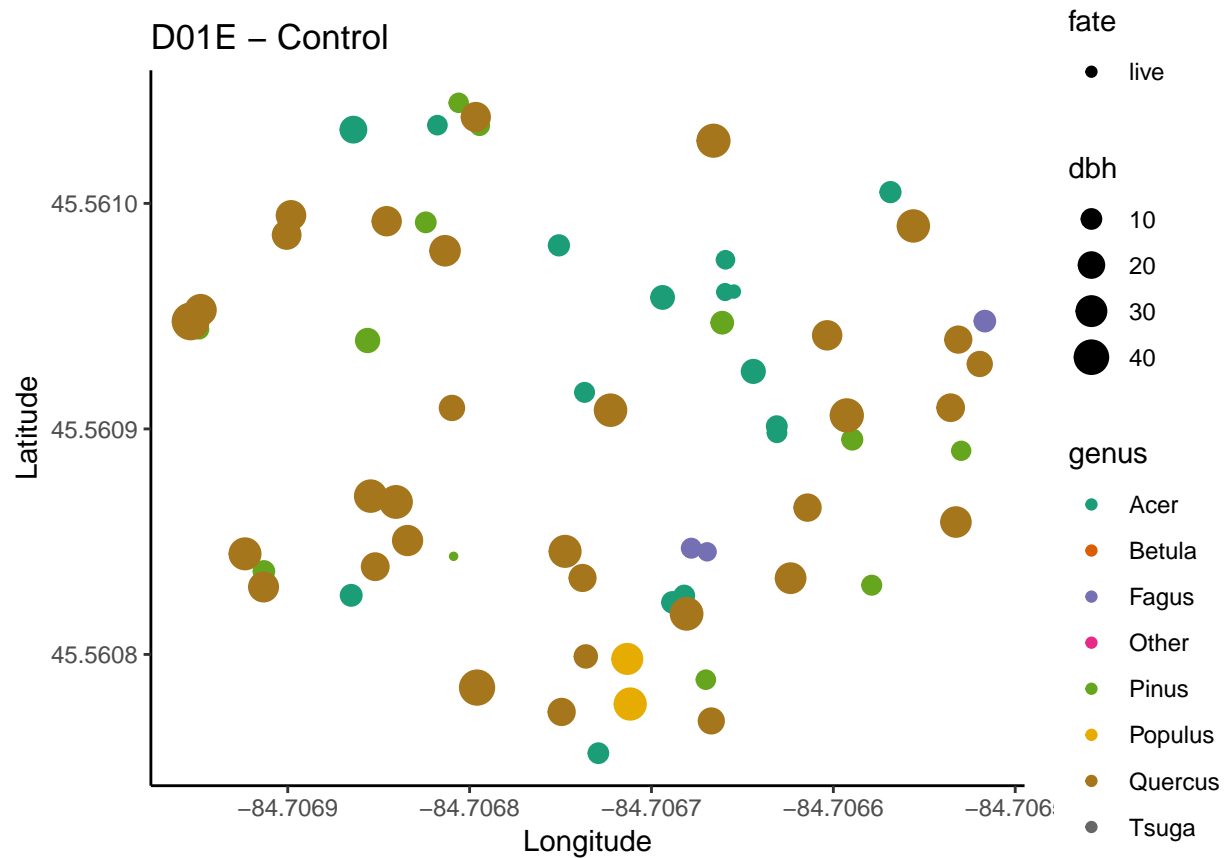
```
## Plot LAI
```

```
## [1] 3.682615
```

```
##
```

```
## live
```

```
## 65
```

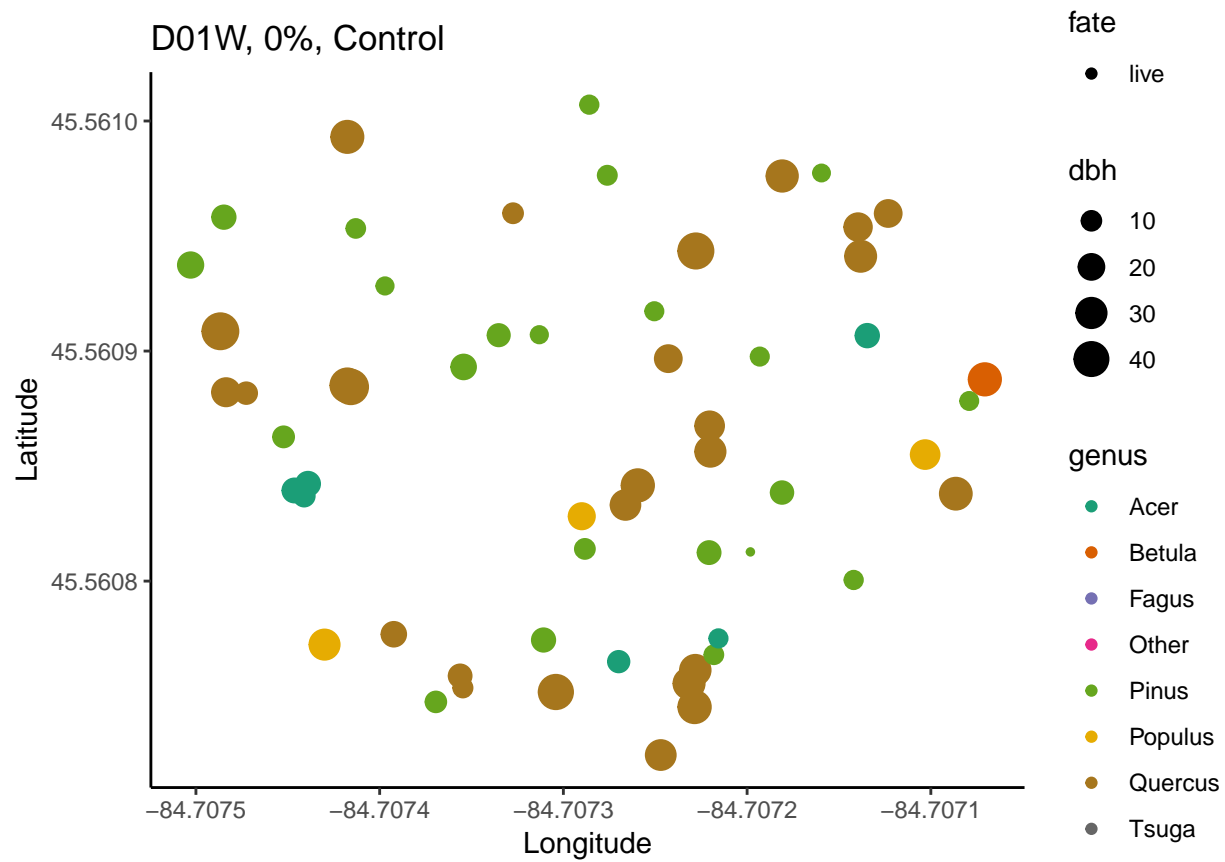


```
## D01W, 0%, Control
```

```
##
```

```
## live
```

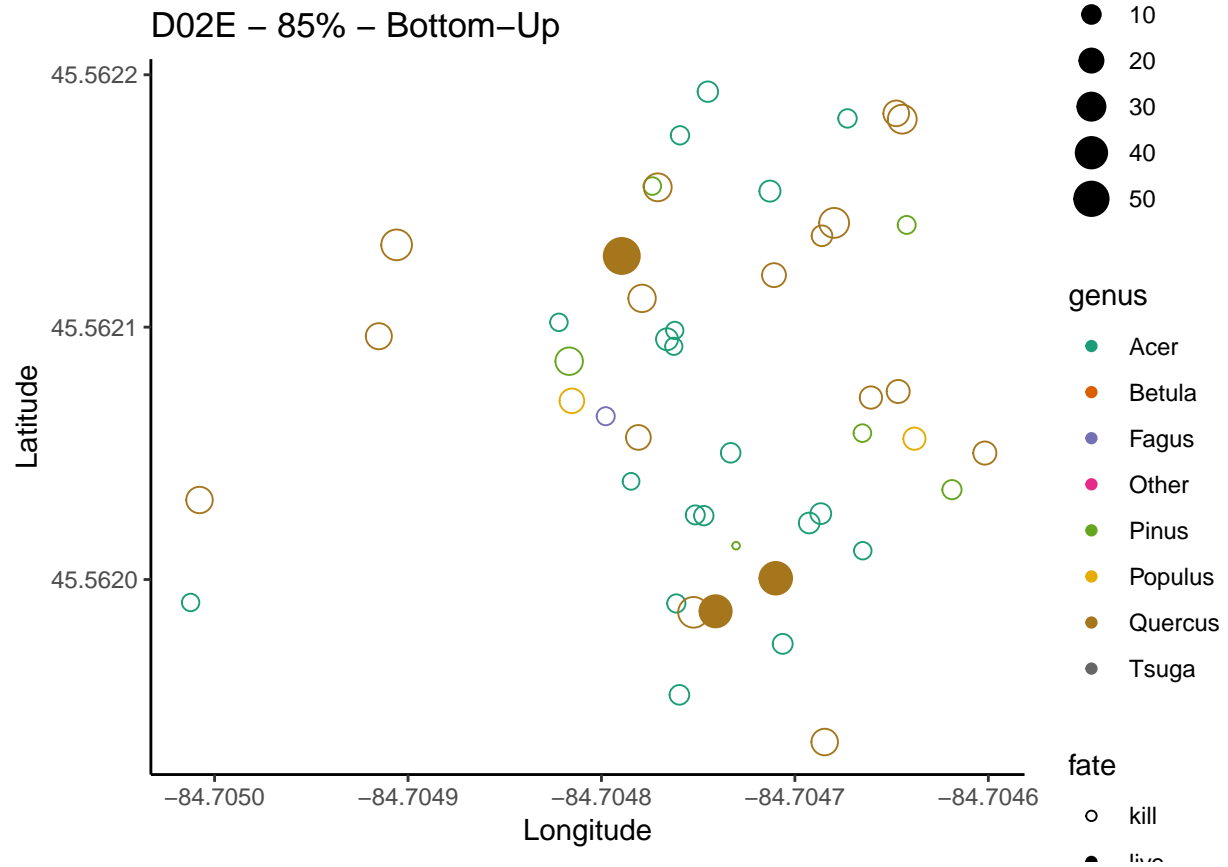
```
## 58
```



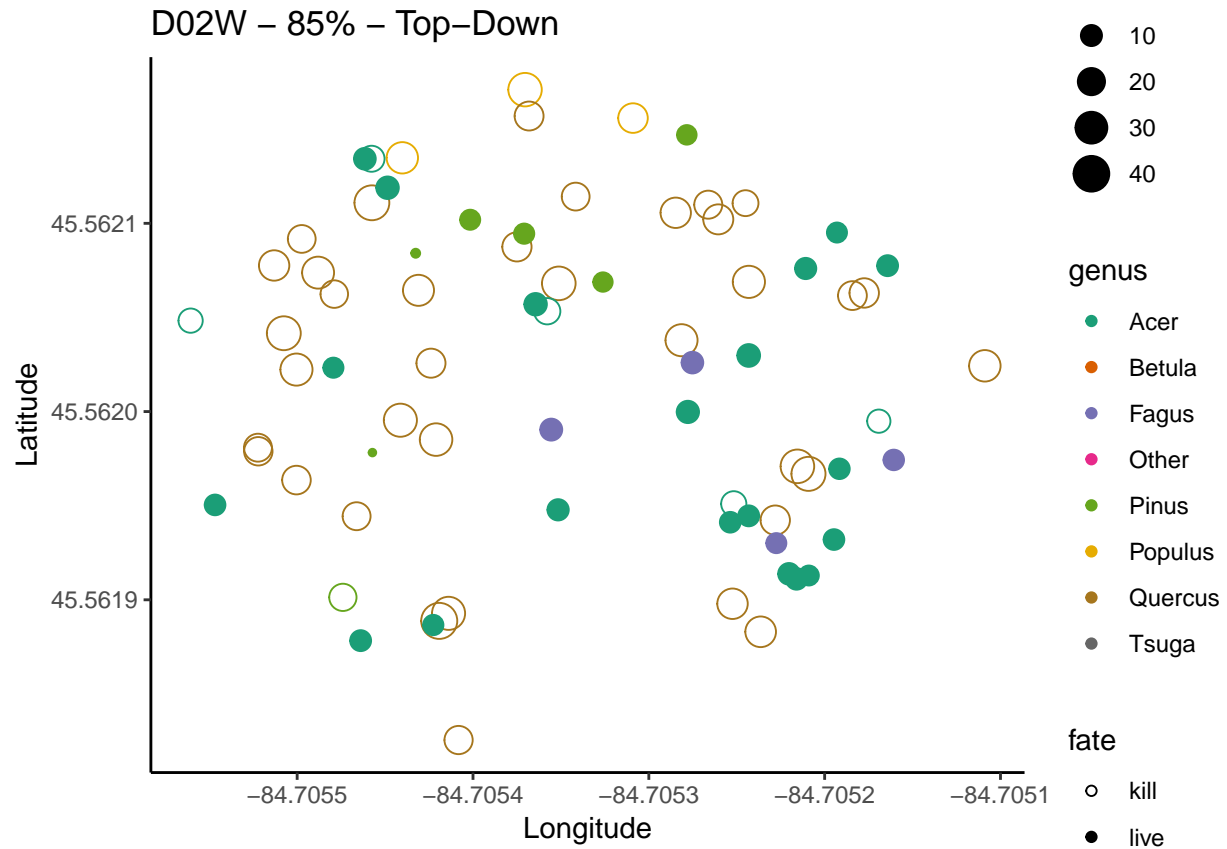
```
## Plot LAI
## [1] 3.682615
```

## D02

```
## D02E, 85%, bottom-down
##
## kill live
## 80 4
```



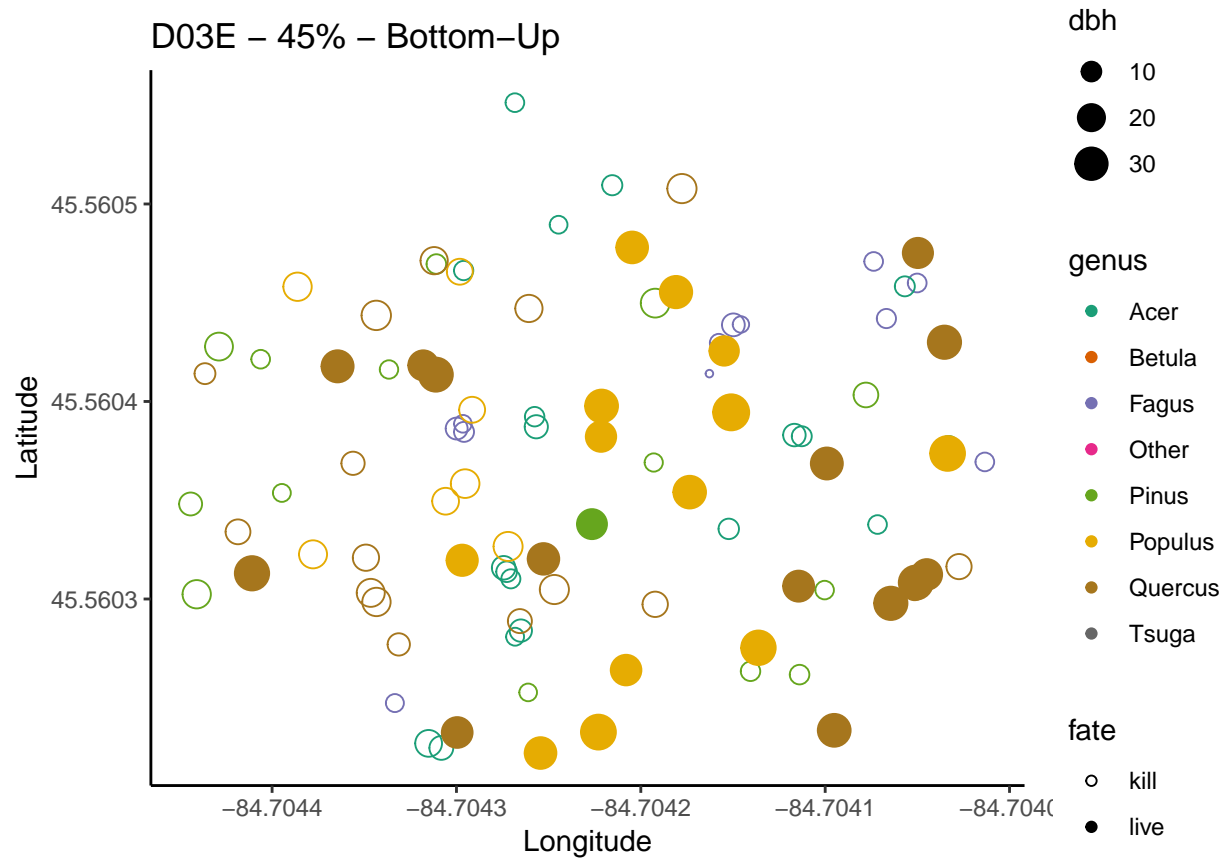
```
## Plot LAI
## [1] 4.649377
## LAI of all trees to Kill
## [1] 3.896035
## Ratio of Kill to Live LAI - Targetting 65% Disturbance threshold
## [1] 0.8379692
## D02W, 85%, Top-Down
##
## kill live
## 45 31
```



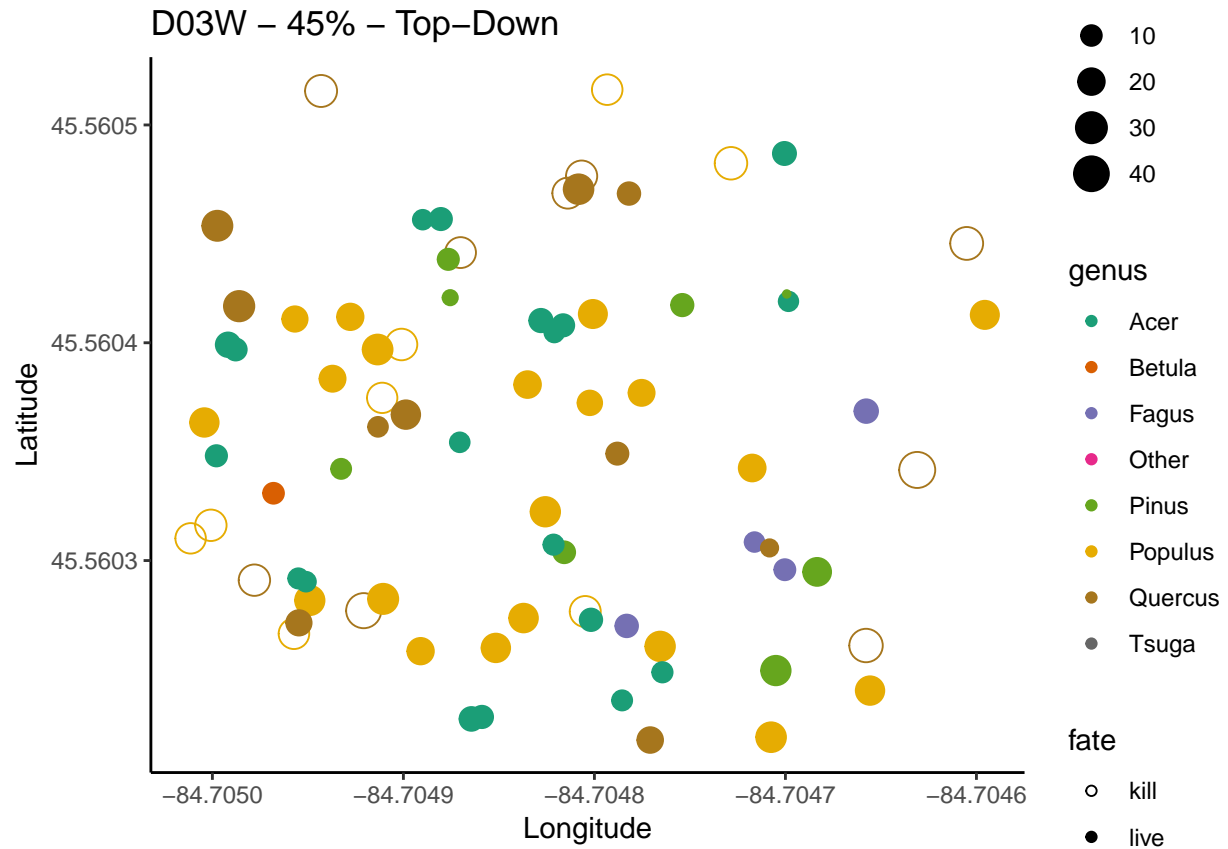
```
## Plot LAI D02W
## [1] 4.288501
## LAI of all trees to Kill
## [1] 3.613063
## Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold
## [1] 0.8425002
```

## D03

```
## D03E, 45%, Bottom-Up
##
## kill live
## 68 28
```



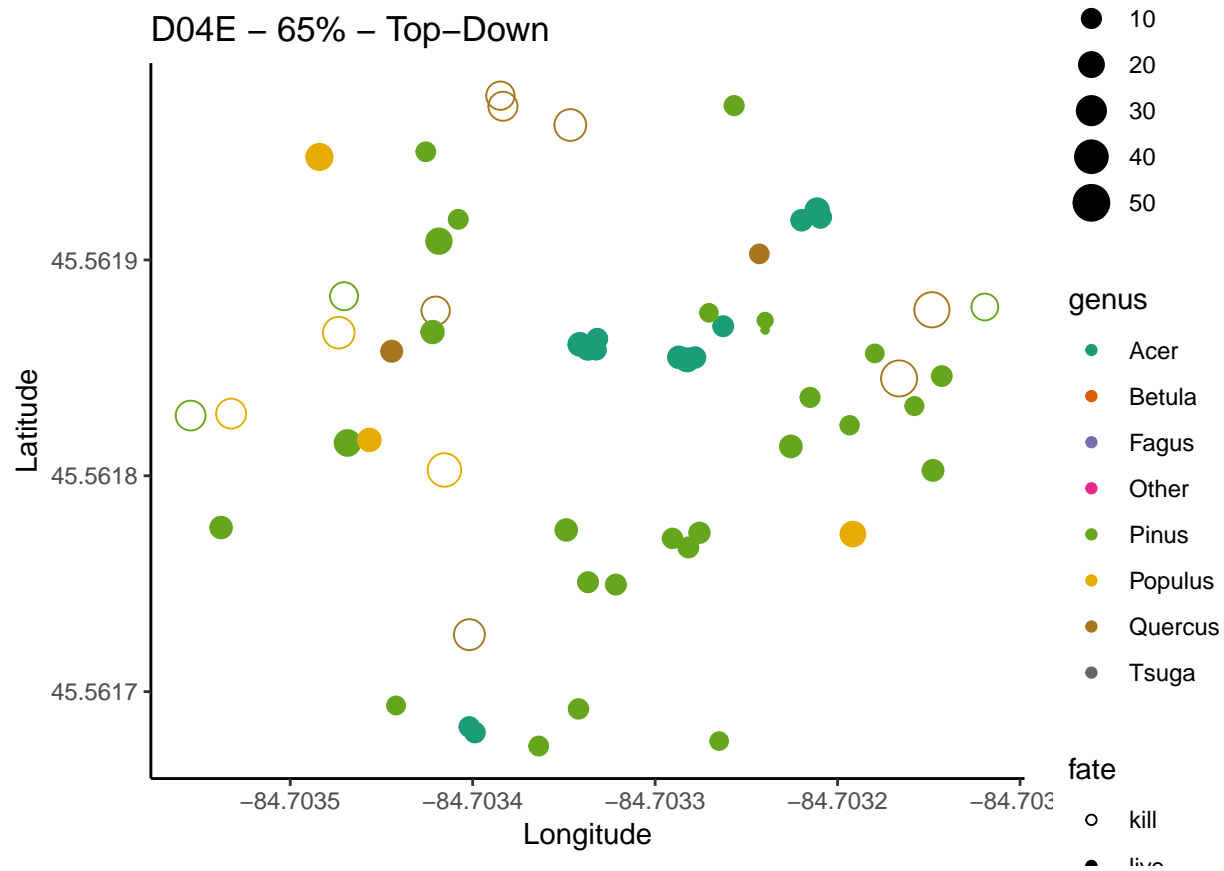
```
## Plot LAI D02W
## [1] 4.919435
## LAI of all trees to Kill
## [1] 2.175331
## Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold
## [1] 0.4421913
## D03W, 45%, Top-Down
##
## kill live
## 17 62
```



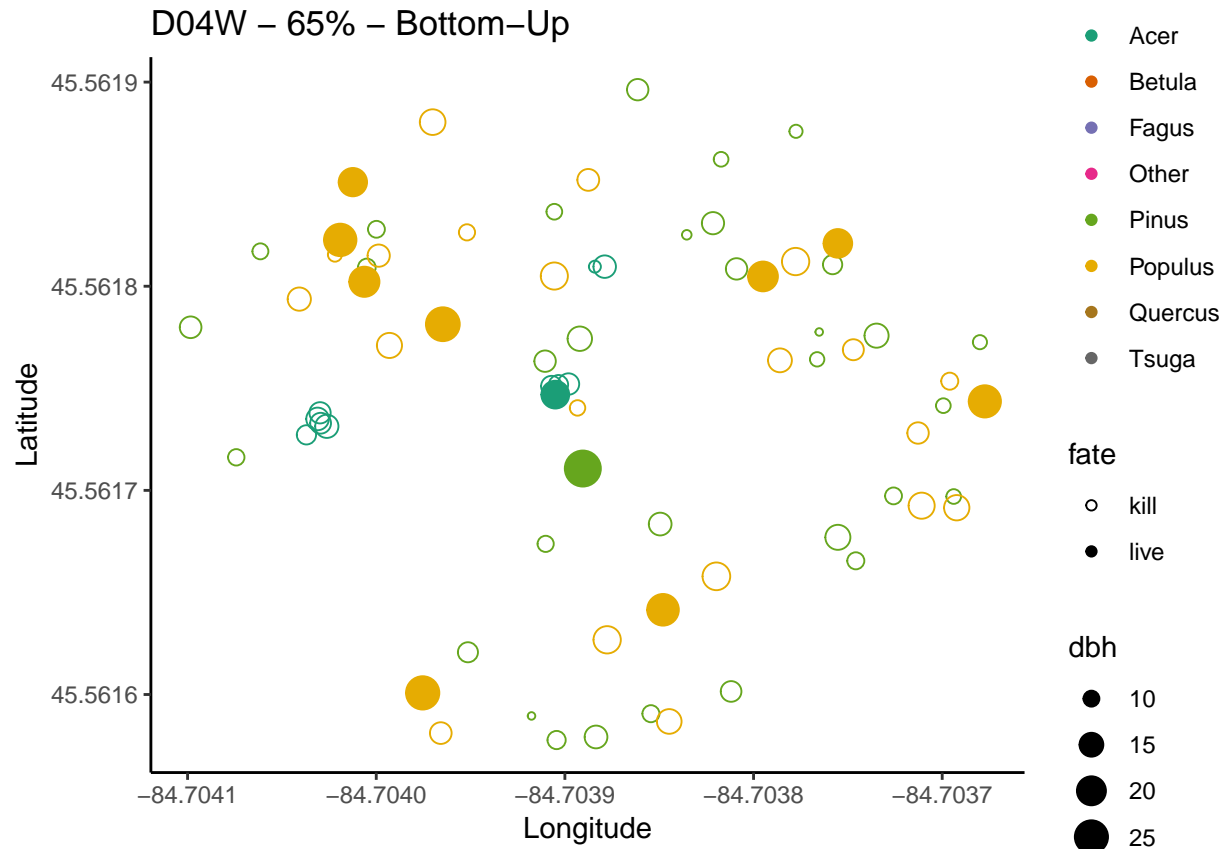
```
## Plot LAI D03W
## [1] 4.207497
## LAI of all trees to Kill
## [1] 1.83237
## Ratio of Kill to Live LAI - Targeting 85% Disturbance threshold
## [1] 0.4355012
```

## D04

```
## D04E, 65%, top-down
##
## kill live
## 13 46
```

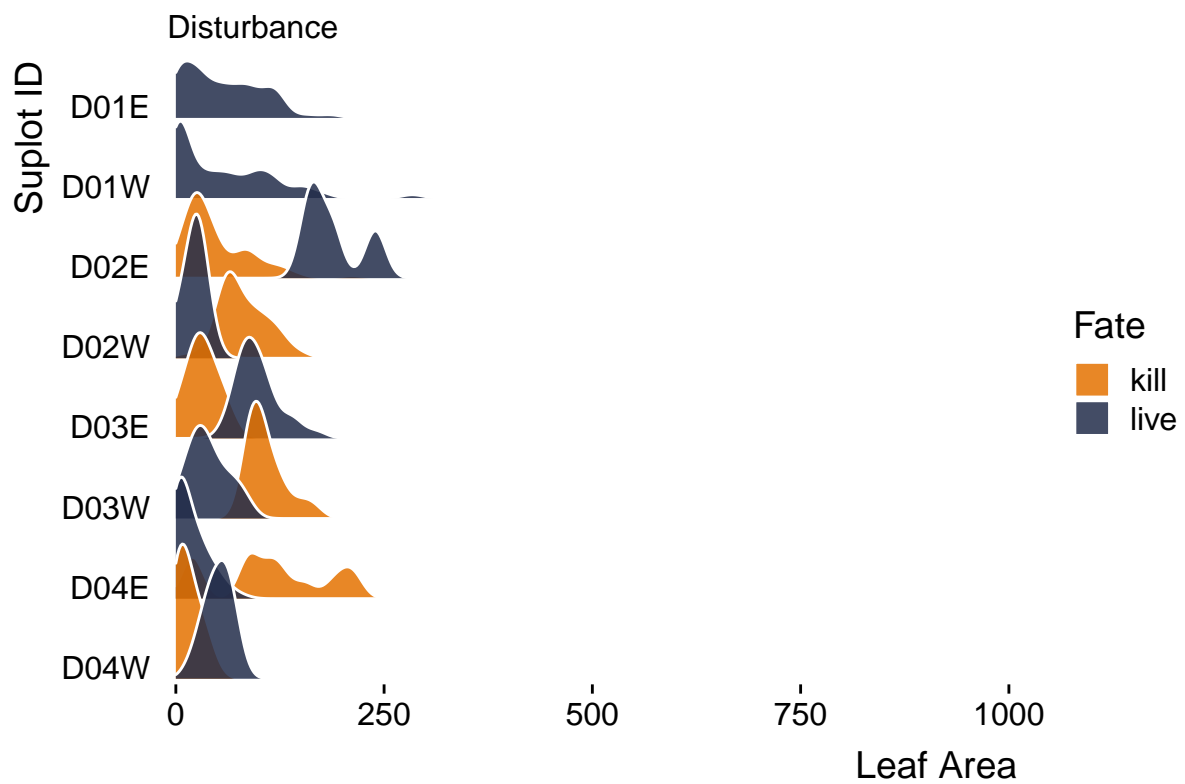


```
## Plot LAI D04E
## [1] 2.248164
## LAI of all trees to Kill
## [1] 1.451658
## Ratio of Kill to Live LAI - Targeting 65% Disturbance threshold
## [1] 0.6457085
## D04W, 65%, Bottom-Down
##
## kill live
##    63   11
```



```
## Plot LAI D04W
## [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
## 286 305

## Estimated total number of trees killed for all 0.5 ha plots combined in Group C
## [1] 715
```

