Plant Comp Plots

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COLLABORATORS: Phoebe Zarnetske, Mark Hammond, Pat Bills, Moriah Young
DATA INPUT: Clean & plot plant comp csv from the shared Google drive
DATA OUTPUT: Code and Rmd are in the scripts folder in Github
PROJECT: warmXtrophic

```
## -- Attaching packages ------------------------------------ tidyverse 1.3.0 --


## v ggplot2 3.3.3     v purrr   0.3.4
## v tibble  3.0.6     v dplyr   1.0.4
## v tidyr   1.1.2     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.1


## -- Conflicts --------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()


## [1] "/Volumes/GoogleDrive/Shared drives/SpaCE_Lab_warmXtrophic/data/L0/"


## 'data.frame':    24294 obs. of  21 variables:
##  $ X               : int  2 3 4 5 6 7 8 9 10 11 ...
##  $ site            : chr  "kbs" "kbs" "kbs" "kbs" ...
##  $ plot            : chr  "C6" "A1" "A1" "A1" ...
##  $ species         : chr  "Acsa" "Acmi" "Acmi" "Acmi" ...
##  $ cover           : int  3 1 6 12 5 40 5 15 25 4 ...
##  $ date            : chr  "2015-05-21" "2015-05-21" "2015-05-21" "2015-05-21" ...
##  $ julian          : int  141 141 141 141 202 202 202 202 237 81 ...
##  $ year            : int  2015 2015 2015 2015 2015 2015 2015 2015 2016 ...
##  $ month           : int  5 5 5 5 7 7 7 7 8 3 ...
##  $ treatment_key   : chr  "WI" "A0" "A0" "A0" ...
##  $ state           : chr  "warmed" "ambient" "ambient" "ambient" ...
##  $ insecticide     : chr  "insects" "no_insects" "no_insects" "no_insects" ...
##  $ scientific_name : chr  "Acer saccharum" "Achillea millefolium" "Achillea millefolium" "Achillea mil
##  $ common_name     : chr  "sugar maple" "common yarrow" "common yarrow" "common yarrow" ...
##  $ USDA_code       : chr  "ACSA3" "ACMI2" "ACMI2" "ACMI2" ...
##  $ LTER_code       : chr  "ACESAC" "ACHMI" "ACHMI" "ACHMI" ...
##  $ origin          : chr  "Native" "Native" "Native" "Native" ...
##  $ group           : chr  "Dicot" "Dicot" "Dicot" "Dicot" ...
##  $ family          : chr  "Aceraceae" "Fabaceae" "Fabaceae" "Fabaceae" ...
##  $ duration        : chr  "Perennial" "Biennial" "Biennial" "Biennial" ...
##  $ growth_habit    : chr  "Tree" "Forb" "Forb" "Forb" ...
```
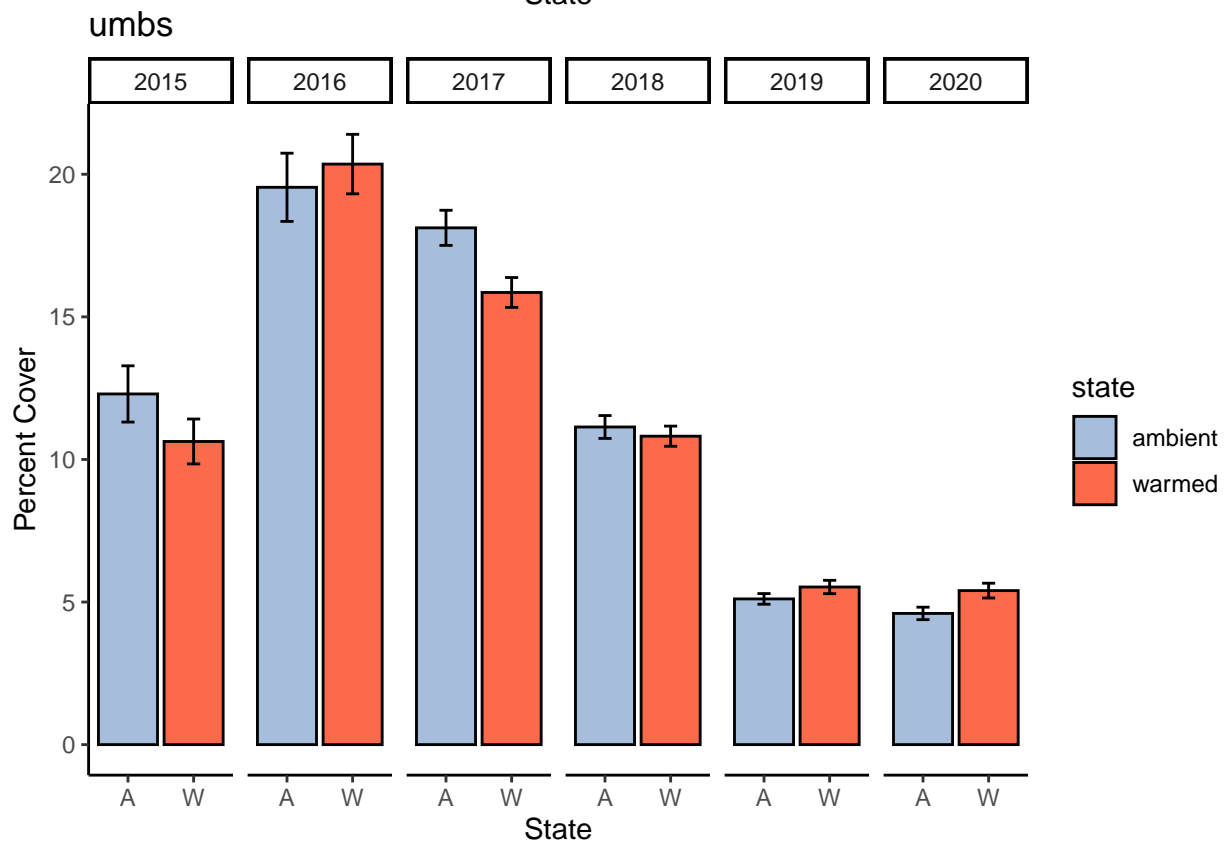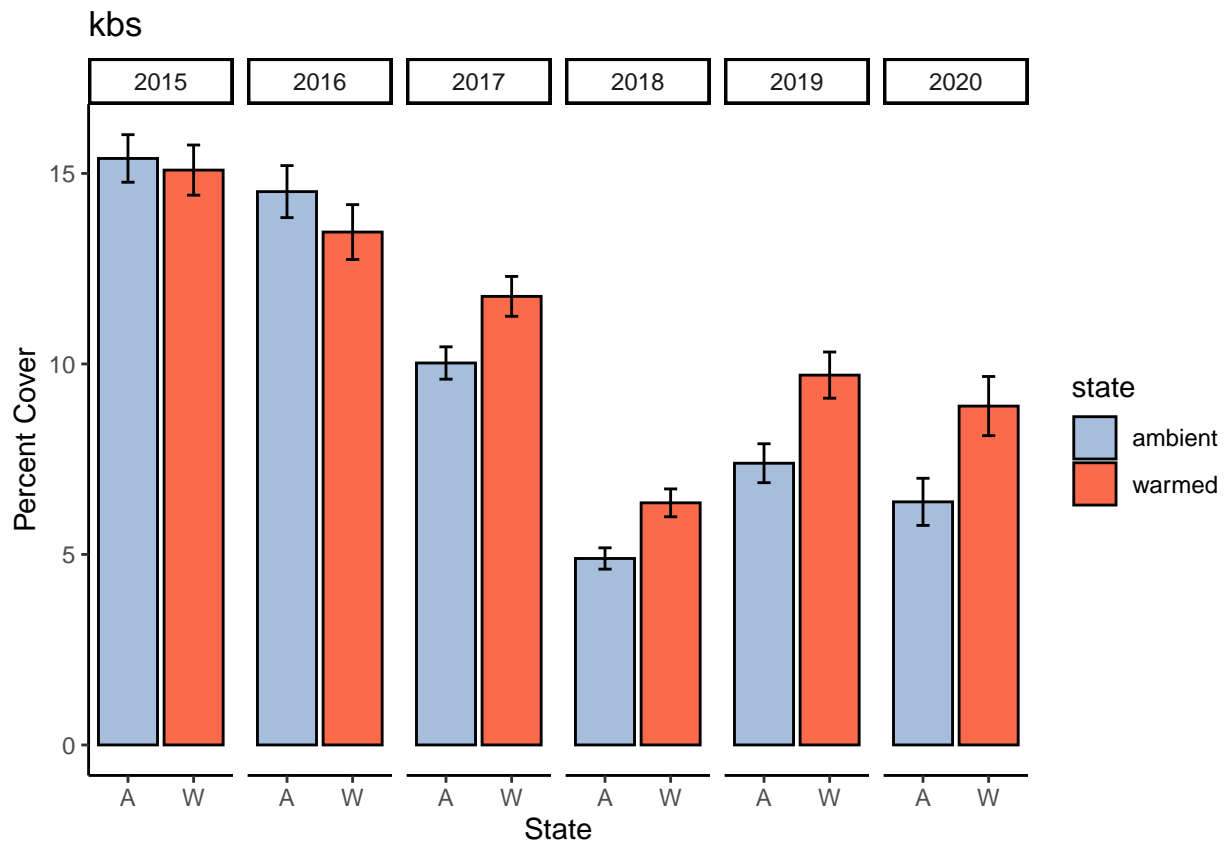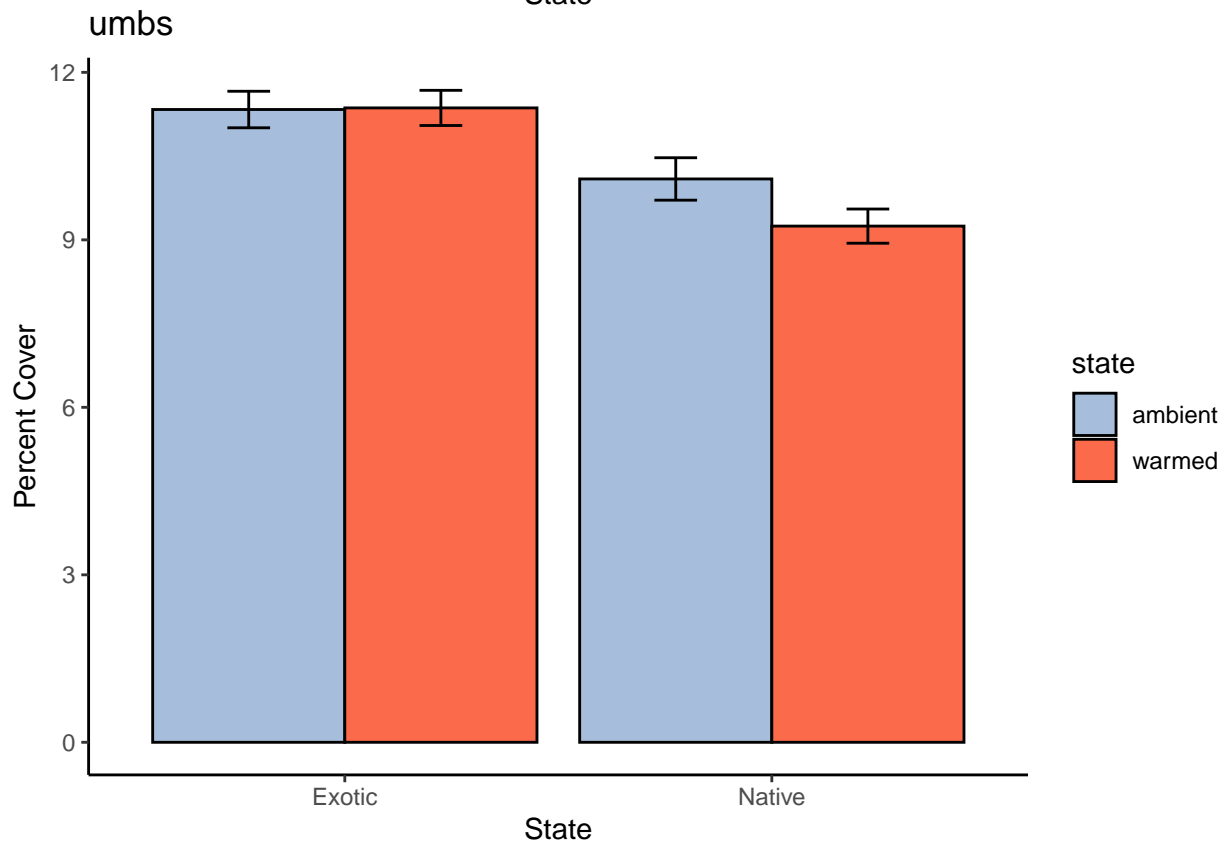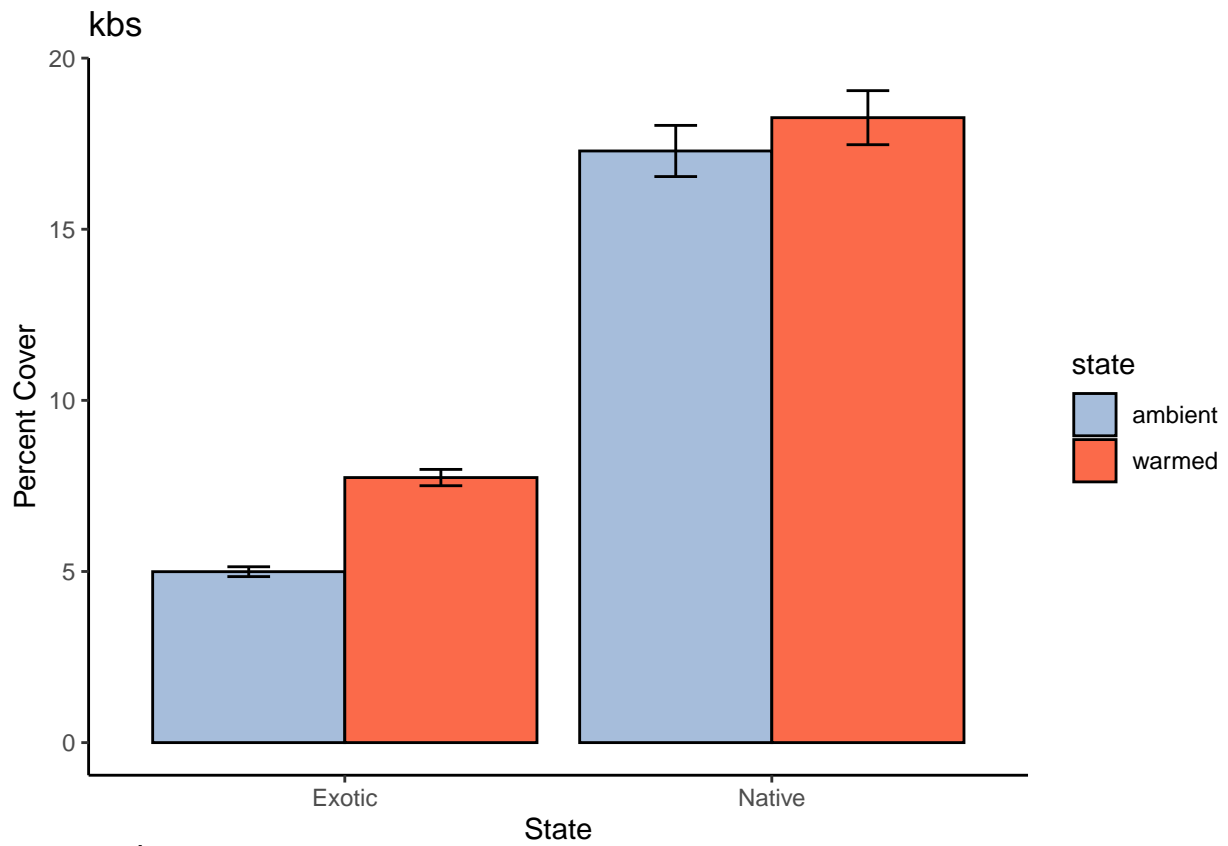
```
## 'data.frame':    24294 obs. of  20 variables:
##  $ site           : chr  "kbs" "kbs" "kbs" "kbs" ...
##  $ plot           : chr  "C6" "A1" "A1" "A1" ...
##  $ species        : chr  "Acsa" "Acmi" "Acmi" "Acmi" ...
##  $ cover          : int  3 1 6 12 5 40 5 15 25 4 ...
##  $ date           : chr  "2015-05-21" "2015-05-21" "2015-05-21" "2015-05-21" ...
##  $ julian         : int  141 141 141 141 202 202 202 202 237 81 ...
##  $ year           : int  2015 2015 2015 2015 2015 2015 2015 2015 2015 2016 ...
##  $ month          : int  5 5 5 5 7 7 7 7 8 3 ...
##  $ treatment_key  : chr  "WI" "A0" "A0" "A0" ...
##  $ state          : chr  "warmed" "ambient" "ambient" "ambient" ...
##  $ insecticide    : chr  "insects" "no_insects" "no_insects" "no_insects" ...
##  $ scientific_name: chr  "Acer saccharum" "Achillea millefolium" "Achillea millefolium" "Achillea mil
##  $ common_name    : chr  "sugar maple" "common yarrow" "common yarrow" "common yarrow" ...
##  $ USDA_code      : chr  "ACSA3" "ACMI2" "ACMI2" "ACMI2" ...
##  $ LTER_code      : chr  "ACESAC" "ACHMI" "ACHMI" "ACHMI" ...
##  $ origin         : chr  "Native" "Native" "Native" "Native" ...
##  $ group          : chr  "Dicot" "Dicot" "Dicot" "Dicot" ...
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##  $ duration       : chr  "Perennial" "Biennial" "Biennial" "Biennial" ...
##  $ growth_habit   : chr  "Tree" "Forb" "Forb" "Forb" ...
```
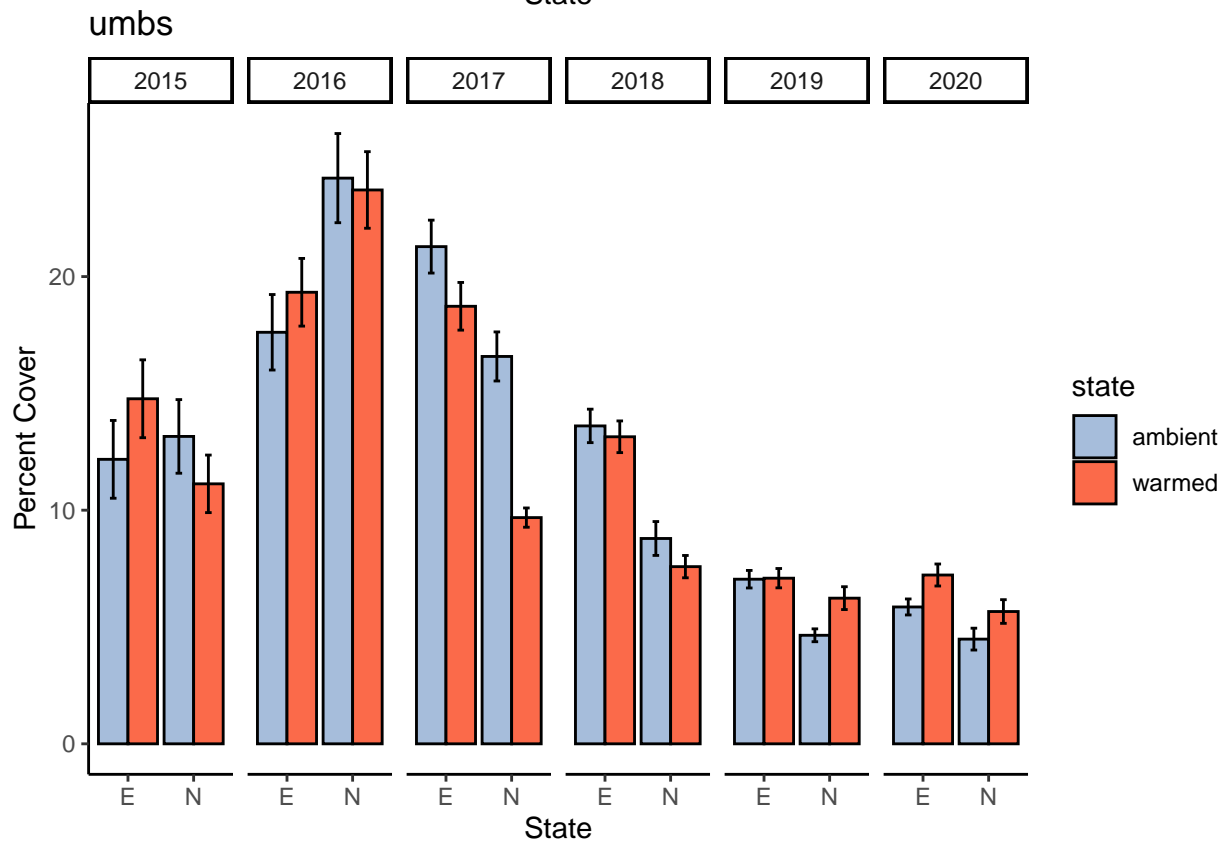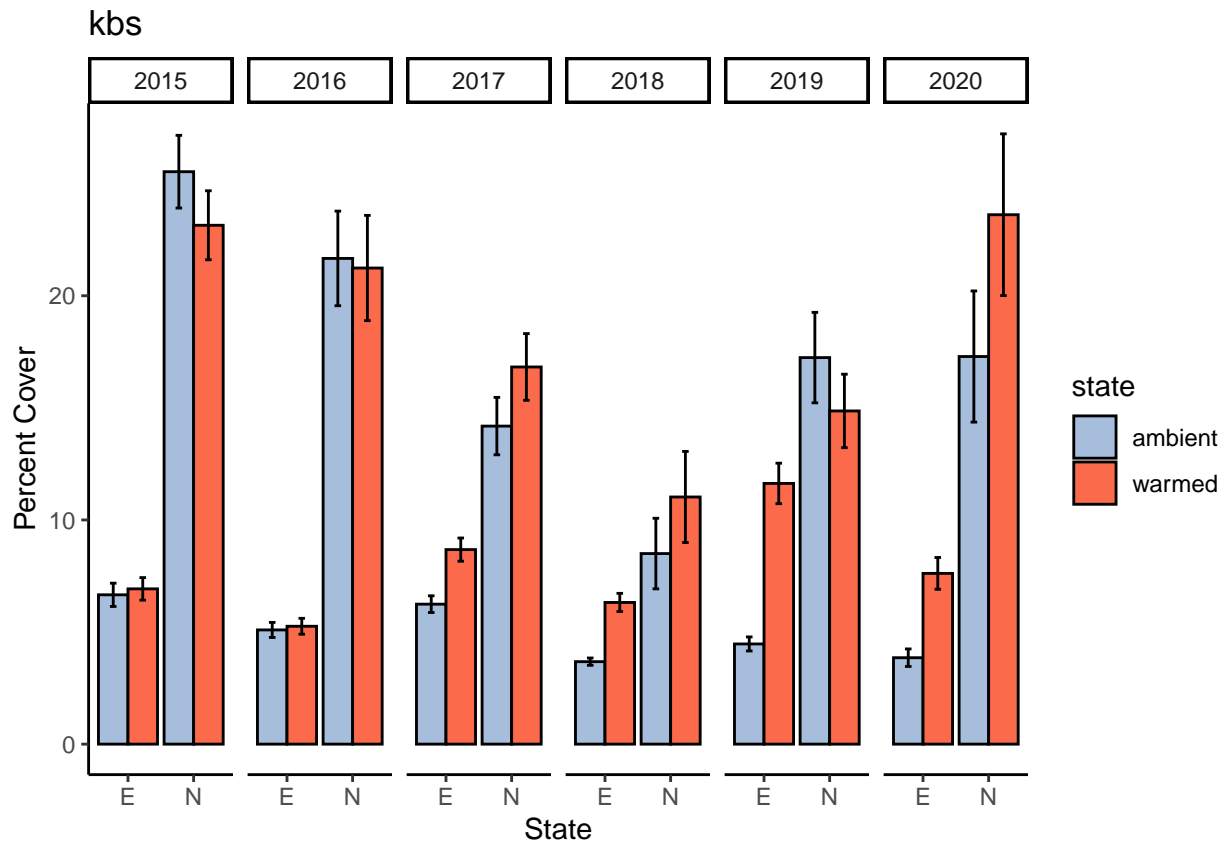
Plot for plant cover between warmed and ambient treatments

Plot for percent cover between native/exotic for warmed and ambient

Plot for percent cover between native/exotic for warmed and ambient, separated by year

Plot for percent cover between forb/graminoid for warmed and ambient