Input files

Flow chart for vegetation data

1. Read raw data file “slash.wall.data.2022.7february2023\_incomplete.xlsx” into “regen\_and\_plot\_input\_2022\_cleaning.Rmd
   1. Vegetation data on worksheet “regen”
   2. Plot data in worksheet “site-plot”

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| \*.Rmd file for reading data | Source Data File Name | Description |
| regen\_and\_plot\_input\_2019\_cleaning.Rmd and outputs:   * regen\_per\_acre\_2019\_alpha\_point\_untidy.csv * regen\_point\_per\_acre\_2019\_alpha\_tidy.csv | * *slash-wall-vegetation/regen-data-2019.csv* (veg data from 2019 growing season, first year of data) * *plot-data-2019.xlsx* (plot data of 2019 growing season) | * read raw data, clean data entry issues, expand data for plots with no vegetation. * Expand veg data from point to acre scale * Output regeneration data, spp=alpha, as tidy and untidy formats |
| regen\_and\_plot\_input\_2020\_cleaning.Rmd and outputs:   * plot\_data\_2020\_untidy.csv (plot variables) * count\_of\_points\_harvest\_x\_location.csv * regen\_per\_acre\_2020\_numeric\_point\_untidy.csv * regen\_per\_acre\_2020\_alpha\_point\_untidy.csv * regen\_point\_per\_acre\_2020\_alpha\_tidy.csv | *regen.data.2020\_cleaned.xlsx* ; **sheet = regen**  *regen.data.2019-season.21aug2020.FINAL.xlxs* was manipulated to create the input data for \*.Rmd as *regen.data.2020\_cleaned.xlxs*  regen.data.2020\_cleaned.xlsx, sheet=site-plot | * All the data from the 2020 growing season, includes a readme worksheet |
| regen\_and\_plot\_input\_2021\_cleaning.Rmd and outputs:   * plot\_data\_2021\_untidy.csv * regen\_per\_acre\_2021\_numeric\_point\_untidy.csv * regen\_point\_per\_acre\_2021\_alpha\_tidy.csv | * *regen.data.2021\_cleaned.xlxs* * *regen.data.2020\_cleaned.xlsx", sheet = "site-plot* * *location\_by\_point.xlsx* | Plot, veg and seedling height data for 2021 growing season |
| regen\_and\_plot\_input\_2022\_cleaning.Rmd and outputs:   * count\_of\_points\_harvest\_x\_location.csv * count\_of\_points\_harvest\_x\_treatment.csv * count\_of\_points\_harvest\_x\_treatment.csv * plot\_data\_2022\_untidy.csv * regen\_per\_acre\_2022\_numeric\_point\_untidy.csv * regen\_per\_acre\_2022\_alpha\_point\_untidy.csv * regen\_point\_per\_acre\_2022\_alpha\_tidy.csv | * "slash.wall.data.2022.16may2023\_final.xlsx", sheet = "regen" * slash.wall.data.2022.1february2023\_incomplete.xlsx", sheet = "site-plot" | * Plot, veg and seedling height data for 2022 growing season. * Date indicates last date the data was update. Still need data from some harvest sites (e.g., red pine, camp ridge) |
| plot\_basal\_area\_calc\_summ.Rmd which outputs:   * plot\_calc\_2020\_untidy.csv * site\_summary\_2020\_basal\_area.csv | plot\_data\_2020\_untidy.csv | Plot data from the 2020 growing season. |
| regen\_and\_plot\_freq\_analysis which outputs:   * freq\_plot\_attrib\_5.csv * freq\_stocking\_attrib\_4\_all.csv   freq\_cover\_attrib\_4.csv | tidy\_plot\_2019.csv  untidy\_plot\_2019\_stocking.csv  tidy\_regen\_point\_2019.csv | It appears the \*.Rmd file looks at patterns of stocking level vs. different attributes of the plot |
| summary\_regen\_veg\_data.Rmd which outputs   * regen\_per\_acre\_all\_alpha\_tidy\_trmt\_coded.csv * regen\_per\_acre\_winners\_spp\_composition\_tables.csv * regen\_per\_acre\_winners\_spp\_5\_dom.csv * regen\_per\_acre\_total\_spp\_composition\_tables.csv * regen\_per\_acre\_total\_spp\_5\_dom.csv * regen\_per\_acre\_exp\_GT\_4.5ft\_spp\_composition\_tables.csv * regen\_per\_acre\_exp\_GT\_4.5ft\_spp\_5\_dom.csv * regen\_per\_acre\_desired\_spp\_composition\_tables.csv * regen\_per\_acre\_desired\_spp\_5\_dom.csv * regen\_per\_acre\_dsrd\_exp\_gt4.5ft\_spp\_composition\_tables.csv * regen\_per\_acre\_dsrd\_exp\_gt4.5ft\_spp\_5\_dom.csv * regen\_per\_acre\_type\_exp\_gt4.5ft\_composition\_tables.csv * regen\_per\_acre\_type\_exp\_gt4.5ft\_5\_dom.csv * regen\_summary\_type\_exp\_gt4.5ft\_composition\_tables.csv * regen\_summary\_type\_exp\_gt4.5ft\_5\_dom.csv |  |  |
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| seedling\_ht\_input\_format\_2020data.Rmd and outputs:   * seedling\_height\_2020\_alpha\_point\_untidy.csv | * *regen.data.2020\_cleaned.xlsx* sheet = height | * Seedling height data for 2020 growing season |
| *seedling\_ht\_analysis\_stats\_2018-2022.RMD*  and outputs:   * Graphs Fig\_z1 through z5+ | * heights\_seedlings\_summary.csv from seedling\_ht\_analysis\_stats.Rmd * heights\_seedlings\_raw.csv from seedling\_ht\_analysis\_stats.Rmd | * Use tidy and untidy seedling height data to produce graphs depicting annual seedling height for protected and unprotected seedlings. |
| *seedling\_height\_analysis\_graphs.RMD* and outputs:   * Pull code from this file for use “seedling ht analysis stats 2018-2022” * Fig x1 – x4 * Mostly bar graphs of seedling height, in facet by species, each figure differs for harvest. | * tidy\_seedling\_heights\_2017-2019.csv |  |