

waseca_variety_5Jun2024.R

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```
# 5Jun2024
# Jesse assessed stands in Waseca
# 0=no plants, 10=perfect stand

# anything below a stand rating = 9 should not be combine harvested due to
# insufficient population in the plot

# data
# https://docs.google.com/spreadsheets/d/1ZmKH_3KzYk3fSEiAouU_yP-atyN0wzYZn9rYUPajzfU/edit#gid=75810074

library(tidyverse)

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.3      v readr      2.1.4
## v forcats    1.0.0      v stringr    1.5.0
## v ggplot2    3.4.4      v tibble     3.2.1
## v lubridate  1.9.3      v tidyr      1.3.0
## v purrr      1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

read.csv("MASTER Variety Trial 2023 Plant - plant_counts.csv") -> dat

dat %>%
  filter(year=="2024") %>%
  select(-c(count_0.5m_1,count_0.5m_2,notes)) -> dat2

dat2 %>%
  summarise(mean=round(mean(stand_rating),1),
            sd = round(sd(stand_rating),1))

##   mean sd
## 1  5.9 2.5

dat2 %>%
  group_by(program) %>%
  summarise(mean=round(mean(stand_rating),1),
            sd = round(sd(stand_rating),1)) %>%
  arrange(mean)

## # A tibble: 2 x 3
```

```
##   program mean   sd
##   <chr>   <dbl> <dbl>
## 1 MN      5.9   2.5
## 2 TLI      5.9   2.7
```

```
dat2 %>%
  group_by(variety) %>%
  summarise(mean=round(mean(stand_rating),1),
            sd = round(sd(stand_rating),1)) %>%
  arrange(mean)
```

```
## # A tibble: 20 x 3
##   variety mean   sd
##   <int> <dbl> <dbl>
## 1    701  3.5  1.3
## 2   1803  4.5  3.1
## 3   1902  4.5  3.9
## 4   1904  4.5  2.4
## 5   1504  4.8  2.9
## 6   1603  4.8  1.5
## 7   1901  4.8  1.5
## 8   1905  5    3.2
## 9   2205  5    2.2
## 10  1001  6.2  3.3
## 11  1903  6.2  1.5
## 12  2203  6.2  3.6
## 13   801  6.5  2.4
## 14  2206  6.8  1.7
## 15  2204  7    1.8
## 16  1802  7.2  1.5
## 17  2202  7.2  3.6
## 18   704  7.5  2.5
## 19  1605  7.8  2.1
## 20  2201  7.8  1.7
```

```
dat2 %>%
  mutate(variety = as.factor(variety)) %>%
  mutate(variety = fct_reorder(variety,stand_rating)) %>%
  ggplot(aes(variety,stand_rating)) +
  stat_summary() +
  theme(axis.text.x = element_text(angle = 90))
```

```
## No summary function supplied, defaulting to `mean_se()`
```

