

# Amberson Election Status

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```
r format(Sys.time(), '%B %d, %Y')

{r setup, include=FALSE} knitr::opts_chunk$set(echo = FALSE)

{r function-units} # Function to print units by row based on the first digit
print_units_by_row <- function(units) {  first_digits <- unique(floor(units / 100))  for (digit in first_digits) {    # Using paste with collapse="," to add commas between numbers    cat(paste(units[floor(units / 100) == digit], collapse=", "), "\n")  } }

``{r directory} directory <- "/Users/cervas/Downloads/"

emails <- read.csv('/Users/cervas/Library/CloudStorage/GoogleDrive-jcervas@andrew.cmu.edu/My Drive/GitHub/amberson/amberson-emails.csv')

unitWeights <- read.csv('https://raw.githubusercontent.com/jcervas/amberson-weights.csv')

```{r}
registration <- read.table(paste0(directory, "voter_emails.txt"), header=F, sep=",")
names(registration) <- c("Email", "Weight")

registration <- merge(registration, emails, by=c("Email", "Weight"), all=T)
head(registration)

``{r read-OpaVote} # Read OpaVote Files voted <- read.table(paste0(directory, "voted.txt"))
voted$voted <- 1

not_voted <- read.table(paste0(directory, 'not_voted.txt')) not_voted$not_voted <- 1
```

**Exclude those who are disabled (not usual)**

```
disabled_voted <- read.table(paste0(directory, 'disabled.txt'))
```

```
disabled_voted$disabled <- 1
```

```

```{r merge-files}
# Registration and Voted
voted_merge <- merge(registration,voted, by.x="Email",by.y="V1", all=T)
units_voted <- sort(voted_merge[Unit[voted_merge$voted %in% 1]])
units_voted_weight <- sort(voted_merge$Weight[voted_merge$voted %in% 1])

votes_cast <- sum(voted_merge$Weight[voted_merge$voted %in% 1])
votes_total <- sum(emails$Weight)
cat("Reached Quorum? ",
votes_cast/votes_total)

# Not voted
voted_notvoted_merge <- merge(voted_merge,not_voted, by.x="Email", by.y="Email", all=T)

# Disabled
voted_notvoted_disabled_merge <- merge(voted_notvoted_merge,disabled_voted, by.x="Email", by.y="Email", all=T)

# Sort
units_notvoted <- sort(voted_merge[Unit[!voted_merge$voted %in% 1]])

units_notvoted <- sort(voted_notvoted_disabled_merge[Unit[is.na(voted_notvoted_disabled_merge$Unit)]])

# Visited OpaVote?
# visited <- read.table('/Users/cervas/Library/Mobile Documents/com~apple~CloudDocs/Downloads/visited.csv')
# visited$visited <- 1
# voted_notvoted_disabled_visited_merge <- merge(voted_notvoted_disabled_merge,visited, by.x="Email", by.y="Email", all=T)
# sort(voted_notvoted_disabled_visited_merge[Unit[
#   (is.na(voted_notvoted_disabled_visited_merge$disable) &
#   is.na(voted_notvoted_disabled_visited_merge$voted)) &
#   !is.na(voted_notvoted_disabled_visited_merge$visited)
# ]])

```

## Number of voters

```
{r voted-output} sum(voted$voted)
```

## Unit Percentage (Weighted) voted”

```
paste0(round(sum(voted_merge$Weight[voted_merge$voted %in% 1])/999989, d=3) * 100, "%")
```

## Units that have voted

```
print_units_by_row(units_voted)
```

## **Units that have not voted**

```
print_units_by_row(units_notvoted)
```