

# September El Paso Tests

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*September 1, 2018*

## Just some random results

```
#Playing with El Paso
ep primaries <- el_paso_vhist %>%
  filter(ELECTION_TYPE == "Primary")

summary(as.factor(ep primaries$ELECTION_DESCRIPTION))
```

```
##      03/05/1996 PRESIDENTIAL PRIMARY      03/10/2000 PRESIDENTIAL PRIMARY
##                                22381                                16625
##      08/08/2000 PRIMARY ELECTION      08/08/2006 PRIMARY ELECTION
##                                19893                                42270
##      08/10/2004 PRIMARY ELECTION      08/11/1998 PRIMARY ELECTION
##                                49307                                22373
##      08/13/1996 PRIMARY ELECTION      08/13/2002 PRIMARY ELECTION
##                                22714                                15229
## 2010 El Paso County Primary Election 2012 El Paso County Primary Election
##                                64797                                64962
## 2014 El Paso County Primary Election 2016 El Paso County Primary Election
##                                72947                                83297
##                                Primary Election
##                                49983
```

```
ep_coordinated <- el_paso_vhist %>%
  filter(ELECTION_TYPE == "Coordinated")

summary(as.factor(ep_coordinated$ELECTION_DESCRIPTION))
```

```
##      11/01/2005 COORDINATED ELECTION
##                                90674
##      11/02/1999 COORDINATED ELECTION
##                                50917
##      11/04/1997 COORDINATED ELECTION
##                                30072
##      11/04/2003 COORDINATED ELECTION
##                                63020
##      11/06/2001 COORDINATED ELECTION
##                                64608
##      11/06/2007 COORDINATED ELECTION
##                                47940
## 2009 El Paso County Coordinated Election
##                                96846
## 2011 El Paso County Coordinated Election
##                                100546
## 2013 El Paso County Coordinated Election
##                                138118
## 2015 El Paso County Coordinated Election
```

```
##                                139473
## 2017 El Paso County Coordinated Election
##                                153113

summary(as.factor(ep_coordinated$VOTING_METHOD))

##      Absentee Carry      Absentee Mail      Early Voting
##              2          248961          13192
## Early Voting - DRE      In Person      In Person - DRE
##              8          2913          302
##      Mail Ballot      Mail Ballot - DRE      Polling Place
##      512277          625          197047
```

## Example of First Model Turnout Calculation

```
#So I don't have to read them in again if this fails...
ep_vhist <- el_paso_vhist
```

*Raw vote count file*

```
summary(as.factor(ep_vhist$VOTING_METHOD))

##      Absentee Carry      Absentee Mail      Early Voting
##              1436          1108080          102996
## Early Voting - DRE      In Person      In Person - DRE
##              46916          28375          3890
##      Mail Ballot      Mail Ballot - DRE      Polling Place
##      1028954          660          1246631
```

*#Sorting out voting methods*

```
ep_vhist$VOTING_METHOD[ep_vhist$VOTING_METHOD == "Early Voting - DRE"] <- "Early Voting"
ep_vhist$VOTING_METHOD[ep_vhist$VOTING_METHOD == "In Person - DRE"] <- "In Person"
ep_vhist$VOTING_METHOD[ep_vhist$VOTING_METHOD == "Mail Ballot - DRE"] <- "Mail Ballot"
ep_vhist$ELECTION_DATE <- mdy(ep_vhist$ELECTION_DATE)
```

*#More needed, don't know what ones to cut, will do the following##*

*#Create turnouts file with raw vote counts*

```
ep_turnouts <- ep_vhist %>%
  mutate(count = 1) %>%
  group_by(ELECTION_DESCRIPTION, ELECTION_TYPE, ELECTION_DATE, VOTING_METHOD) %>%
  summarize(total_votes = sum(count)) %>%
  spread(key = VOTING_METHOD, value = total_votes)
```

```
glimpse(ep_turnouts)
```

```
## Observations: 44
## Variables: 9
## $ ELECTION_DESCRIPTION <chr> "03/05/1996 PRESIDENTIAL PRIMARY", "03/10...
## $ ELECTION_TYPE        <chr> "Primary", "Primary", "Municipal", "Munic...
## $ ELECTION_DATE        <date> 1996-03-05, 2000-03-10, 2003-04-01, 2001...
## $ `Absentee Carry`     <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N...
## $ `Absentee Mail`      <dbl> NA, NA, NA, NA, 11355, NA, 15758, 14562, ...
## $ `Early Voting`       <dbl> NA, NA, NA, NA, 1482, NA, 2376, 2802, NA,...
## $ `In Person`          <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N...
## $ `Mail Ballot`        <dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, N...
```

```
## $ `Polling Place`      <dbl> 22381, 16625, 54663, 30979, 11224, 19893,...
```

*Number of registered voters, under some assumptions*

```
#Use VReg files for total amount of registrants  
ep_reg_counts <- el_paso_vrf %>%  
  filter(BIRTH_YEAR > 1900) %>%  
  select(2, 4, 5, 8, 9)
```

## El Paso Long Form Voting History for Individuals

```
summary(as.factor(el_paso_votes$ELECTION_DESCRIPTION))  
  
ep_wide <- el_paso_votes %>%  
  slice(1:13) %>%  
  spread(key = ELECTION_DESCRIPTION, value = 1)
```