Separations: Quit and Retired

Separations: Quit and Retired

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11/22/2017

This analysis looks at the number of people who quit or retired between January and June (the most recent figures available) for both President Trump and President Obama in their first six months in office.

It was part of the story: How the Trump era is changing federal bureaucracy (https://www.washingtonpost.com/politics/how-the-trump-era-is-changing-the-federal-bureaucracy/2017/12/30/8d5149c6-daa7-11e7-b859-fb0995360725 story.html).

Other data and analysis scripts can be found in the wpinvestigative (https://github.com/wpinvestigative/federal_employees_trump_2017) Github repo.

This story's analysis was based on raw data from the U.S. Office of Personnel Managament Employment Cubes (https://www.opm.gov/Data/) and aggregated data exported from the Fedscope explorer (https://www.fedscope.opm.gov) (Because raw data is only available annually).

This analysis only counts permanent employees (excluding seasonal and appointed positions) and also excludes separations categorized as transfers, terminations, deaths, reduction in force, and other reasons for separation to limit the employees.

```
# Loading libraries
library(tidyverse)
library(DT)
# We need to bring in total employment figures under Obama when he started so we have a starting point for compa
ring separations
# Downloading Obama's December raw data (12/2008)
if (!file.exists("data/employment/2008-12/FACTDATA_Dec2008.TXT")) {
 obama_dec_dir <- "data/employment/2008-12"
 dir.create(obama_dec_dir, showWarnings = F)
 temp <- tempfile()</pre>
 download.file("https://web.archive.org/web/20150610051705/www.opm.gov/Data/Files/35/53fbe0c4-7d12-4ebe-8035-bd
1e3507fe27.zip",temp)
 unzip(temp, exdir=obama_dec_dir, overwrite=T)
 unlink(temp)
# Importing the data
dec 08 <- read fwf(
 file="data/employment/2008-12/FACTDATA Dec2008.TXT",
 fwf_widths(c(4,2,4,1,5,2,1,1,2,1,1,1,1,7,5)))
colnames(dec 08) <- c("AGYSUB", "LOC", "OCC", "PATCO", "PPGRD", "GSEGRD", "SALLVL", "WORKSCH", "TOA", "GENDER",
"AGELVL", "LOSLVL", "EMPLOYMENT", "SALARY", "LOS")
# Permanent: 10, 15, 30, 32, 35, 36, 38, 50, 55, **
dec 08$type <- ifelse(dec 08$TOA=="**" |
                      dec 08$TOA=="10" |
                      dec 08$TOA=="15" |
                      dec 08$TOA=="30" |
                      dec 08$TOA=="32" |
                      dec 08$TOA=="35" |
                        dec_08$TOA=="36" |
                        dec_08$TOA=="38" |
                        dec 08$TOA=="50" |
                        dec_08$TOA=="55", "Permanent", "Nope")
dtagy dec_08 <- read_fwf(</pre>
  file="data/employment/2008-12/Tagysub.txt",
  fwf_widths(c(2,2, 4,1,NA)))
colnames(dtagy_dec_08) <- c("AGY", "Number", "AGYSUB", "Extra", "AGYSUBT")</pre>
dtagy_dec_08$Extra <- NULL
dec_08 <- left_join(dec_08, dtagy_dec_08)</pre>
# Going through the motions of importing Obama's September 2009 total employment figures
# Why? Because we need the department data to join with the December 2008 data (It's missing)
# We'll discard the overall data but keep a dataframe of the department names and abbreviations
# Downloading Obama's September raw data (9/2009)
if (!file.exists("data/employment/2009-9/FACTDATA SEP2009.TXT")) {
 obama sep dir <- "data/employment/2009-9"
 dir.create(obama sep dir, showWarnings = F)
 temp <- tempfile()</pre>
 download.file("https://www.opm.gov/Data/Files/26/f0a8eef6-a0b5-4015-a2f4-6597f1ca3ae7.zip",temp)
 unzip(temp, exdir=obama_sep_dir, overwrite=T)
 unlink(temp)
}
```

```
# Importing data
sep 09 <- read.table("data/employment/2009-9/FACTDATA SEP2009.txt", header= TRUE, sep = ",", quote = "\"")
dtagy_sep_09 <- read.table("data/employment/2009-9/DTagy.txt", header= TRUE, sep = ",", quote = "\"") #agency in
wkstat sep 09 <- read.table("data/employment/2009-9/DTwkstat.txt", header= TRUE, sep = ",", quote = "\"")
sep_09 <- left_join(sep_09, dtagy_sep_09)</pre>
sep_09 <- left_join(sep_09, wkstat_sep_09)</pre>
sep_09$two <- substr(sep_09$AGYT, 0, 2)</pre>
sep_09$AGYT <- gsub(".*-", "", sep_09$AGYT)</pre>
sep_09$AGYSUBT <- gsub(".*-", "", sep_09$AGYSUBT)</pre>
sep 09 filtered <- sep 09 %>%
 filter(TOA=="**" |
        TOA=="10" |
        TOA=="15" |
        TOA=="30" |
        TOA=="32" |
        TOA=="35" |
        TOA=="36" |
        TOA=="38" |
        TOA=="50" |
        TOA=="55") %>%
  select (AGYSUB, LOC, OCC, PATCO, PPGRD, GSEGRD, SALLVL, WORKSCH, TOA, AGELVL, LOSLVL, EMPLOYMENT,
         LOS, AGYSUBT, AGYT, two) %>%
  mutate(Date="September", President="Obama")
sep 09 raw <- sep 09 %>%
  select (AGYSUB, LOC, OCC, PATCO, PPGRD, GSEGRD, SALLVL, WORKSCH, TOA, AGELVL, LOSLVL, EMPLOYMENT,
         LOS, AGYSUBT, AGYT, two) %>%
 mutate(Date="September", President="Obama")
\# Alright, we went through all that trouble for these lines below
obama_agencies <- select(sep_09, AGYSUB, AGY, AGYT, AGYSUBT) %>%
 unique()
# Going back to the December 2008 data and joining it to the obama_agencies dataframe
dec 08 <- left join(dec 08, obama agencies)
dec_08$two <- dec_08$AGY
# Filtering out the non-permanent employees
dec_08_filtered <- subset(dec_08, type!="Nope")</pre>
dec_08_filtered <- dec_08_filtered %>%
 select(AGYSUB, LOC, OCC, PATCO, PPGRD, GSEGRD, SALLVL, WORKSCH, TOA, AGELVL, LOSLVL, EMPLOYMENT,
        LOS, AGYSUBT, AGYT, two) %>%
 mutate(Date="December", President="Obama")
# Gotta clean up the department names a bit
dec_08_filtered_not_na <- subset(dec_08_filtered, !is.na(AGYT))</pre>
dec_08_filtered_na <- subset(dec_08_filtered, is.na(AGYT))</pre>
dec 08 filtered na$AGYT <- NULL
obama_agencies_selected <- select(obama_agencies, two=AGY, AGYT) %>%
 unique()
dec_08_filtered_na <- left_join(dec_08_filtered_na, obama_agencies_selected) %>%
 select(AGYSUB, LOC, OCC, PATCO, PPGRD, GSEGRD, SALLVL, WORKSCH, TOA, AGELVL, LOSLVL, EMPLOYMENT, LOS, AGYSUBT,
AGYT, two, Date, President)
dec 08 filtered <- rbind(dec 08 filtered na, dec 08 filtered not na)
```

```
# Counting up the employees and relabeling things so we know these are Obama figures
dec 08 aggregated sub <- dec 08 filtered %>%
 group by (AGYSUB, AGYSUBT, AGYT) %>%
 summarize(Obama Total=n()) %>%
 select (AGYSUB, Obama Total)
dec 08 aggregated sub <- data.frame(dec 08 aggregated sub)
dec_08_aggregated_sub$AGYSUBT <- NULL
dec 08 aggregated <- dec 08 filtered %>%
 group_by(two) %>%
 summarize(Obama_Total=n()) %>%
 select(two, Obama_Total)
# Downloading Obama Separations in 2009 data
# Downloading Obama's September raw data (9/2009)
if (!file.exists("data/separations/2009/SEPDATA FY2009.TXT")) {
 obama sep dir <- "data/separations/2009"
 dir.create(obama_sep_dir, showWarnings = F)
 temp <- tempfile()</pre>
 download.file("https://web.archive.org/web/20161209105315/www.opm.gov/Data/Files/80/74d87a22-c1d8-48ea-8d93-11
604be750e6.zip",temp)
 unzip(temp, exdir=obama sep dir, overwrite=T)
 unlink(temp)
# Bringing in Obama separations data
Y2009 <- read.table("data/separations/2009/SEPDATA FY2009.txt", header= TRUE, sep = ",", quote = "\"")
# Bringing in additional tables that identify agencies and categorization of separations
DTagy <- read.table("data/separations/2009/DTagy.txt", header= TRUE, sep = ",", quote = "\"") #agency info table
DTsep <- read.table("data/separations/2009/DTsep.txt", header= TRUE, sep = ",", quote = "\"")
# Bringing in additional table that identify work schedule
DTwrksch <- read.table("data/separations/2009/DTwrksch.txt", header= TRUE, sep = ",", quote ="\"")
# Combining the original data with the additional tables
Y2009 <- left_join(Y2009, DTagy)
Y2009 <- left join(Y2009, DTsep)
Y2009 <- left_join(Y2009, DTwrksch)
# Creating some new tables so it'll be easier to group up departments down the line
Y2009$agency_name <- substr(Y2009$AGYT, 4, nchar(as.character(Y2009$AGYT)))
Y2009$agency_sub <- substr(Y2009$AGYSUBT, 6, nchar(as.character(Y2009$AGYSUBT)))
Y2009$two <- substr(Y2009$AGYSUB, 1, 2)
# Reformating some columns for easier filtering later on
Y2009$SEPT <- as.character(Y2009$SEPT)
Y2009$WORKSCHT <- as.character(Y2009$WORKSCHT)
# Cleaning up some categories so it'll be easier to aggregate when joined with future data
Y2009$separation <- ifelse(grep1("Retirement", Y2009$SEPT), "Retirement", Y2009$SEPT)
Y2009$separation <- ifelse(grepl("Termination", Y2009$separation), "Termination or Removal", Y2009$separation)
# Because the Obama separations data is for the entire year, we have to filter it so it matches with the data we
pull for Trump
# While we're at it, let's also filter out non-permanent employees
Y2009 half <- filter(Y2009,
                 EFDATE==200812 |
                  EFDATE==200901 |
                  EFDATE==200902 |
                  EFDATE==200903 |
                  EFDATE==200904 |
```

```
EFDATE==200905 |
                  EFDATE==200906) %>%
             filter(TOA=="**" |
                            TOA=="10" |
                            TOA=="15" |
                            TOA=="30" |
                            TOA=="32" |
                            TOA=="35" |
                            TOA=="36" |
                            TOA=="38" |
                            TOA=="50" |
                            TOA=="55")
# Grouping analysis time
Y2009_agency <- Y2009_half %>%
 group by (agency name, EFDATE, separation) %>%
 count() %>%
 group by (agency name, separation) %>%
 spread(EFDATE, n)
Y2009_agency_total <- Y2009_half %>%
 group_by(two,agency_name, separation) %>%
 summarize(Obama_Separations=n()) %>%
 left join(dec 08 aggregated) %>%
 mutate(Obama_Percent=round(Obama_Separations/Obama_Total*100,2)) %>%
 filter(Obama Total >= Obama Separations)
Y2009 agency sub <- Y2009 half %>%
 group by (AGYSUB, agency name, agency sub, EFDATE, separation) %>%
 summarize(Obama_Separations=n()) %>%
 left join(dec 08 aggregated sub)
# Repeating the process above but for Trump
# Bringing in December employment Trump data
dec 16 <- read.table("data/employment/2016-12/FACTDATA DEC2016.txt", header= TRUE, sep = ",", quote = "\"")
\texttt{dtagy\_dec\_16} \leftarrow \texttt{read.table}(\texttt{"data/employment/2016-12/DTagy.txt", header= TRUE, sep = ",", quote = "\"") \textit{\#agency i}
wkstat_dec_16 <- read.table("data/employment/2016-12/DTwkstat.txt", header= TRUE, sep = ",", quote = "\"")</pre>
dec 16 <- left join(dec 16, dtagy dec 16)
dec_16 <- left_join(dec_16, wkstat_dec_16)</pre>
dec_16$two <- substr(dec_16$AGYT, 0, 2)</pre>
dec_16$AGYT <- gsub(".*-", "", dec_16$AGYT)</pre>
dec_16$AGYSUBT <- gsub(".*-", "", dec_16$AGYSUBT)</pre>
# Filtering out non-permanent employees
dec 16 filtered <- dec 16 %>%
              filter(TOA=="**" |
                 TOA=="10" |
                 TOA=="15" |
                 TOA=="30" |
                 TOA=="32" |
                 TOA=="35" |
                 TOA=="36" |
                 TOA=="38" |
                 TOA=="50" |
                 TOA=="55") %>%
  select (AGYSUB, LOC, OCC, PATCO, PPGRD, GSEGRD, SALLVL, WORKSCH, TOA, AGELVL, LOSLVL, EMPLOYMENT,
        LOS, AGYSUBT, AGYT, two) %>%
 mutate(Date="December", President="Trump")
```

Search:

```
dec 16 aggregated sub <- dec 16 filtered %>%
  group by (AGYSUB, AGYSUBT, AGYT) %>%
  summarize(Trump_Total=n()) %>%
  select(AGYSUB, Trump Total)
dec 16 aggregated sub <- data.frame(dec 16 aggregated sub)
dec 16 aggregated sub$AGYSUBT <- NULL
dec 16 aggregated <- dec 16 filtered %>%
 group by(two) %>%
 summarize(Trump_Total=n()) %>%
 select(two, Trump_Total)
# Bringing in January - June separations Trump data exported from Fedscope summaries
trump <- read_csv("data/separations/trump_separations_thru_june.csv")</pre>
trump$two <- substr(trump$agency name, 1,2)</pre>
trump aggregated <- group by(trump, two, separation) %>%
 summarize(Trump Separations=sum(Trump Separations)) %>%
 left_join(dec_16_aggregated) %>%
 mutate(Trump_Percent=round(Trump_Separations/Trump_Total*100,2))
# Joining the Trump data with the Obama data
presidents <- full join(trump aggregated, Y2009 agency total) %>%
  select(two, agency_name, separation, Trump_Separations, Obama_Separations, Trump_Total, Obama_Total, Trump_Per
cent, Obama Percent) %>%
 filter(separation=="Quit" | separation=="Retirement") %>%
 group by(two, agency name) %>%
  summarize (Trump Separations=sum (Trump Separations, na.rm=T), Obama Separations=sum (Obama Separations, na.rm=
T),
            Trump Total=mean(Trump Total, na.rm=T), Obama Total=mean(Obama Total, na.rm=T)) %>%
 mutate(Trump Percent = round(Trump Separations/ Trump Total*100,2), Obama Percent=round(Obama Separations/Obam
a_Total*100,2))
```

Comparing Trump to Obama

Show 10 entries

More than 70,000 federal employees quit or retired during President Trump's first six months in office compared to 50,000 under President Obama. However, Trump started out with more employees compared to Obama.

Still, that's a higher rate of separations (3.6 percent) compared to Obama (2.8 percent).

```
president_summary <- presidents %>%
  ungroup() %>%
  select(Trump_Separations, Obama_Separations, Trump_Total, Obama_Total, -two) %>%
  summarize(`Trump quits and retires`=sum(Trump_Separations, na.rm=T), `Obama quits and retires`=sum(Obama_Separations, na.rm=T), `Trump total employees`=sum(Trump_Total, na.rm=T), `Obama total employees`=sum(Obama_Total, na.rm=T)) %>%
  mutate(`Trump percent of workforce quit or retired`=round(`Trump quits and retires`/`Trump total employees`*10
0,2), `Obama percent of workforce quit or retired`=round(`Obama quits and retires`/`Obama total employees`*100,
2))

datatable(president_summary)
```

					000.0			
	Trump quits and retires	Obama quits and retires	Trump total employees	Obama total employees	Trump percent of workforce quit or retired	Obama percent of workforce quit or retired		
1	71285	49866	1964322	1774648	3.63	2.81		

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Drilling down into Departments

So 71,000 is a small percent of the workforce, but if we look at specific agencies, then we can see how those numbers leaving can have a significant effect.

More than 50 employees quit or retired from the Office of Management and Budget while Trump was in office—that's more than 10 percent of their workforce. In comparison, only eight employees (2 percent) left under Obama.

Twice the percent of the workforce in the Department of Energy and the Department of Education quit or retired under Trump compared to Obama.

```
drill_down <- presidents %>%
   filter(!is.na(Obama_Separations) & !is.na(Trump_Separations) & !is.na(Trump_Total) & !is.na(Obama_Total) & Tru
mp_Percent<=100) %>%
   select(-Trump_Total, -Obama_Total, -two) %>%
   arrange(-Trump_Percent)

datatable(drill_down, filter='top')
```

Shov	w 10 entries	;			Search:	
	two	agency_name	Trump_Separations	Obama_Separations	Trump_Percent	Obama_Percent
	•	All	All	All	All	All
1	EQ	COUNCIL ON ENVIRONMENTAL QUALITY/OFFICE OF ENVIRONMENTAL QUALITY	2	1	40	16.67
2	TS	OFFICE OF SCIENCE AND TECHNOLOGY POLICY	2	3	14.29	18.75
3	ВО	OFFICE OF MANAGEMENT AND BUDGET	51	8	10.56	1.79
4	QQ	OFFICE OF NATIONAL DRUG CONTROL POLICY	6	6	9.68	7.59
5	TN	OFFICE OF THE U.S. TRADE REPRESENTATIVE	19	8	9.31	3.88
6	EW	TRADE AND DEVELOPMENT AGENCY	4	1	8.89	2.38
7	SS	SELECTIVE SERVICE SYSTEM	10	9	8	7.69
8	СС	COMMISSION ON CIVIL RIGHTS	2	1	7.69	2.7
9	RE	OFFICE OF NAVAJO AND HOPI INDIAN RELOCATION	2	2	5.88	4.55

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Separations:	Ouit and	Refired

	two	agency_name	Trump_Separations	Obama_Separa	tions	Т	rump_	_Perce	ent	Oba	ma_P	ercent
10	FL	FARM CREDIT ADMINISTRATION	17		6				5.74			2.34
Show	Showing 1 to 10 of 85 entries				1	2	3	4	5		9	Next

Quit and retired as a percent of total separations

This table aggregates the percent of workers by department who quit or retired out of all separations.

For example, 89 percent of the workers in the Office of Management and Budget who separated from that department were categorized as quit or retired under Trump. Under Obama, that figure was 62 percent.

Some notable agencies from this analysis include:

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- Securities and Exchange Commission (91 percent quit or retired under Trump compared to the 71 percent under Obama)
- The Department of Veterans Affairs (90 percent quit or retired under Trump compared to the 75 percent under Obama)
- Homeland Security (85 percent quit or retired under Trump compared to the 68 percent under Obama)

```
presidents_percent <- full_join(trump_aggregated, Y2009_agency_total) %>%
  select(two, agency_name, separation, Trump_Separations, Obama_Separations, -Trump_Total, -Obama_Total, -Trump_
Percent, -Obama_Percent)
presidents_percent$separation <- ifelse(presidents_percent$separation=="Quit" | presidents_percent$separation=="
Retirement", "Quit or Retired", "Other")
presidents percent sum <- presidents percent %>%
 group by (separation) %>%
 summarize (Trump Separations=sum (Trump Separations, na.rm=T), Obama Separations=sum (Obama Separations, na.rm=
 mutate(Trump Percent=Trump Separations/sum(Trump Separations)*100, Obama Percent=Obama Separations/sum(Obama S
eparations) *100)
  presidents percent <- presidents percent %>%
    group_by(agency_name, separation) %>%
  summarize(trump separations=sum(Trump Separations, na.rm=T), obama separations=sum(Obama Separations, na.rm=
 mutate(trump percent=round(trump separations/sum(trump separations)*100,2), obama percent=round(obama separati
ons/sum(obama separations)*100,2)) %>%
   filter(separation=="Quit or Retired") %>%
   filter(!is.na(trump_percent)) %>%
   arrange(-trump_separations, -trump_percent) %>%
   mutate(diff=trump_percent-obama_percent) %>%
    select(-separation)
  datatable (presidents percent, filter='top')
```

	agency_name	trump_separations	obama_separations	trump_percent	obama_percent	diff
	All	All	All	All	All	All
1	DEPARTMENT OF VETERANS AFFAIRS	13068	7656	90.35	74.63	15.72
2	DEPARTMENT OF THE ARMY	8798	7169	79.17	71.13	8.0400000000001

	agency_name	trump_separations	obama_separations	trump_percent	obama_percent	diff
3	DEPARTMENT OF THE NAVY	6908	3544	80.82	65.34	15.48
4	DEPARTMENT OF HOMELAND SECURITY	6176	4099	84.94	67.61	17.33
5	DEPARTMENT OF THE AIR FORCE	5314	4020	82.32	70.53	11.79
6	DEPARTMENT OF THE TREASURY	4996	5280	90.95	85.56	5.39
7	DEPARTMENT OF DEFENSE	4159	2506	75.98	59.85	16.13
8	DEPARTMENT OF JUSTICE	3638	2010	87.28	75.22	12.06
9	DEPARTMENT OF AGRICULTURE	3079	2438	83.9	74.88	9.02000000000001
10	DEPARTMENT OF HEALTH AND HUMAN SERVICES	2339	1389	84.26	73.65	10.61
Show	ing 1 to 10 of 78 entries	s		Previous 1 2	2 3 4 5	8 Next

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