Replication Log for Soldiers, Pollsters, and International Crises

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Analysis conducted using R version 4.0.2 on OS 10.14.6. Comments indicate where in main text or appendix the findings appear.

```
rm(list=ls())
setwd("~/Dropbox/Writing/Military Officers and Public Opinion/Data Analysis")
data <-read.csv("DataOfficers_Replication.csv")

library(doBy)
library(markdown)
library(plyr)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:plyr':
##
##     arrange, count, desc, failwith, id, mutate, rename, summarise,
##     summarize
```

```
## The following object is masked from 'package:doBy':
##
##     order_by
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(gmodels)
library(ggplot2)
library(xtable)
library(sandwich)
library(lmtest)
```

```
## Loading required package: zoo
```

```
##
## Attaching package: 'zoo'
```

```
## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric
```

```r
library(aod)
library(MASS)
```

```
##
## Attaching package: 'MASS'
```

```
## The following object is masked from 'package:dplyr':
##
##     select
```

```r
library(xtable)
library(stargazer)
```

```
##
## Please cite as:
```

```
##  Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.
```

```
##  R package version 5.2.2. https://CRAN.R-project.org/package=stargazer
```

```r
library(descr)
```

```
##
## Attaching package: 'descr'
```

```
## The following object is masked from 'package:gmodels':
##
##     CrossTable
```

```r
library(DescTools)
```

```
## Registered S3 method overwritten by 'DescTools':
##   method         from
##   reorder.factor gdata
```

```r
library(ggpubr)
```

```
##
## Attaching package: 'ggpubr'
```

```
## The following object is masked from 'package:plyr':
##
##     mutate
```

```r
library(scales)
library(rlang)
```

Variable Creation

```r
#Create Rank Variable

data$Rank <- NA
data$Rank[data$O1==1] <- 1 #n=3
data$Rank[data$O2==1] <- 2 #n=11
data$Rank[data$O3==1] <- 3 #n=65
data$Rank[data$O4==1] <- 4 #n=49
data$Rank[data$O5==1] <- 5 #n=36
data$Rank[data$O6==1] <- 6 #n=20
```

```
data$Rank[data$O7==1] <- 7 #n=1

#Calculate percentage of officers in rank of Maj/LCDR or above
FieldGradePlus <- (sum(data$Rank == 4)+sum(data$Rank == 5)+sum(data$Rank == 6)+sum(data$Rank == 7))/185

#Create Air Force Variable (Used for Chi-Square tests; see Appendix 2.1)

data$AirForce <- NA
data$AirForce[data$Mil_Branch==5] <- 1 #n=103 Air Force, n=82 not Air Force
data$AirForce[data$Mil_Branch==4] <- 0
data$AirForce[data$Mil_Branch==3] <- 0
data$AirForce[data$Mil_Branch==2] <- 0
data$AirForce[data$Mil_Branch==1] <- 0
```

Main Findings

```
##Recommendations Toward Use of Force by Condition (Findings presented in first paragraph of findings s

RecommendationTable <- table(data$PublicOpinion, data$Recommendation)
PropRecommendationTable <- prop.table(RecommendationTable,1)
rownames(RecommendationTable) <-c("Public Supports Military Action", "Public Opposes Military Action")
colnames(RecommendationTable) <-c("Recommend Operation", "Recommend Against Operation")
prop.test(RecommendationTable)
```

```
##
##  2-sample test for equality of proportions with continuity correction
##
## data:  RecommendationTable
## X-squared = 9.1659, df = 1, p-value = 0.002466
## alternative hypothesis: two.sided
## 95 percent confidence interval:
##  0.05522246 0.23771871
## sample estimates:
##    prop 1    prop 2
## 0.9764706 0.8300000
```

```
chisq.test(RecommendationTable)
```

```
##
##  Pearson's Chi-squared test with Yates' continuity correction
##
## data:  RecommendationTable
## X-squared = 9.1659, df = 1, p-value = 0.002466
```

```
##Regression Analysis (Appendix, Table 1)
m1_Recommendation <- lm(Recommendation ~  PublicSupports, data=data)
summary(m1_Recommendation)
```

```
##
## Call:
## lm(formula = Recommendation ~ PublicSupports, data = data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
```

```
## -0.17000 -0.17000 -0.02353 -0.02353  0.97647
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)     1.17000    0.02963  39.491  < 2e-16 ***
## PublicSupports -0.14647    0.04371  -3.351 0.000978 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2963 on 183 degrees of freedom
## Multiple R-squared:  0.05782,    Adjusted R-squared:  0.05267
## F-statistic: 11.23 on 1 and 183 DF,  p-value: 0.0009778
```

```
m2_Recommendation <- lm(Recommendation ~  PublicSupports + Gender + Age + Mil_Branch + Combat + Status +
summary(m2_Recommendation)
```

```
##
## Call:
## lm(formula = Recommendation ~ PublicSupports + Gender + Age +
##     Mil_Branch + Combat + Status + Rank + Staff + Education +
##     Race + Political_ID + Income, data = data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.30361 -0.16287 -0.08448  0.00101  0.98866
##
## Coefficients:
##                  Estimate Std. Error t value Pr(>|t|)
## (Intercept)     1.1213422  0.3025773   3.706 0.000285 ***
## PublicSupports -0.1518724  0.0456759  -3.325 0.001083 **
## Gender         -0.0554644  0.0621869  -0.892 0.373708
## Age            -0.0004951  0.0032477  -0.152 0.879006
## Mil_Branch     -0.0004910  0.0139438  -0.035 0.971949
## Combat          0.0144019  0.0519086   0.277 0.781774
## Status         -0.0286349  0.0580035  -0.494 0.622173
## Rank           -0.0317778  0.0296042  -1.073 0.284603
## Staff          -0.0626916  0.0556030  -1.127 0.261126
## Education       0.0253622  0.0382447   0.663 0.508130
## Race            0.0013303  0.0106223   0.125 0.900481
## Political_ID   -0.0234108  0.0273573  -0.856 0.393344
## Income          0.0355255  0.0176556   2.012 0.045784 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.2992 on 170 degrees of freedom
##   (2 observations deleted due to missingness)
## Multiple R-squared:  0.1064, Adjusted R-squared:  0.04334
## F-statistic: 1.687 on 12 and 170 DF,  p-value: 0.07336
```

```
#Branch Effects and Chi Square Test (Appendix, Table 2)
AirForceTable <- table(data$AirForce, data$Recommendation)
PropAirForceTable <- prop.table(AirForceTable,1)
rownames(AirForceTable) <-c("Not Air Force", "Air Force")
colnames(AirForceTable) <-c("Recommend Operation", "Recommend Against Operation")
prop.test(AirForceTable)
```

```
##
##  2-sample test for equality of proportions with continuity correction
##
## data:  AirForceTable
## X-squared = 0.0014601, df = 1, p-value = 0.9695
## alternative hypothesis: two.sided
## 95 percent confidence interval:
##  -0.11220286  0.08686542
## sample estimates:
##    prop 1    prop 2
## 0.8902439 0.9029126
```

```
chisq.test(AirForceTable)
```

```
##
##  Pearson's Chi-squared test with Yates' continuity correction
##
## data:  AirForceTable
## X-squared = 0.0014601, df = 1, p-value = 0.9695
```

Justifications Analysis

```
#Justifications: "Write a sentence or two telling us why you choose this recommendation"?
## 1- Recommendation Accounts for Public Opinion; 2- Public opinion is beyond purview of military offic

JustificationTable <- table(data$PublicOpinion, data$JustificationID)
PropJustificationTable <- prop.table(JustificationTable, 1)
print(PropJustificationTable)*100
```

```
##
##              1          2          3          4          5
##   1 0.10588235 0.01176471 0.78823529 0.01176471 0.08235294
##   2 0.09000000 0.19000000 0.58000000 0.04000000 0.10000000
```

```
##
##             1         2         3         4         5
##   1 10.588235  1.176471 78.823529  1.176471  8.235294
##   2  9.000000 19.000000 58.000000  4.000000 10.000000
```

```
## Intercoder Reliability Check
sum(data$JustificationID == data$JustificationID_2)/length(data$JustificationID) #0.9135135
```

```
## [1] 0.9135135
```

How much do military officers consider public opinon? (Main Text)

```
##"To what extent do you consider public opinion when making decisions on use of force?"
##(Coded on five point Likert scale from "Not at all" to "Very Large Extent")

ConsiderPublicOpinionTable <-table(data$ConsiderPublicOpinion)
prop.table(ConsiderPublicOpinionTable)
```

```
##
##         1         2         3         4         5
```

```
## 0.07567568 0.31351351 0.49729730 0.09729730 0.01621622
```

```
# Comparison of mean levels of consideration to ensure no difference in levels of consideration in publ
##Full sample
mean(data$ConsiderPublicOpinion) #2.664865
```

```
## [1] 2.664865
```

```
## Means, sd, and se by treatment
Mean_ConsiderPublicOpinion <- ddply(data, c("PublicOpinion"), summarise, mean = mean(ConsiderPublicOpini
print(Mean_ConsiderPublicOpinion) #2.624 (.085), 2,70 (.084)
```

```
##   PublicOpinion     mean        sd        sem
## 1             1 2.623529 0.7864397 0.08530136
## 2             2 2.700000 0.8468599 0.08468599
```

Reasons for Considering Public Opinion (Main Text, Table 2 and Appendix, Table 6)

```
# How important are each of the following reasons for considering public opinion?

# Main Text, Table 2/Appendix Section 2.3 and Appendix Table 6
## Note: In main text table 2, I collapse "not at all important" and "slightly important" into one colu

## "Public support is needed to carry out successful military operations"
OpSuccessTable <-table(data$OpSuccess)
prop.table(OpSuccessTable)
```

```
##
##          1          2          3          4          5
## 0.15675676 0.22702703 0.37297297 0.20540541 0.03783784
```

```
Mean_OpSuccess <- ddply(data, c("PublicOpinion"), summarise, mean = mean(OpSuccess), sd = sd(OpSuccess)
print(Mean_OpSuccess) #Public Supports: 2.694118; Public Opposes: 2.780000)
```

```
##   PublicOpinion     mean       sd       sem
## 1             1 2.694118 1.112949 0.1207163
## 2             2 2.780000 1.040396 0.1040396
```

```
Mean_OpSuccess_Full <- (mean = mean(data$OpSuccess)) #2.740541
sd_OpSuccess_Full = sd(data$OpSuccess) #1.072244
se_OpSuccess_Full = sd(data$OpSuccess)/sqrt(length(data$OpSuccess)) #0.07883291

m1_OpSuccess <- lm(OpSuccess ~ PublicOpinion, data=data)
summary(m1_OpSuccess) # p-value: .5886
```

```
##
## Call:
## lm(formula = OpSuccess ~ PublicOpinion, data = data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.7800 -0.7800  0.2200  0.3059  2.3059
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
```

```
## (Intercept)    2.60824    0.25662  10.164   <2e-16 ***
## PublicOpinion  0.08588    0.15849   0.542    0.589
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.074 on 183 degrees of freedom
## Multiple R-squared:  0.001602,   Adjusted R-squared:  -0.003854
## F-statistic: 0.2936 on 1 and 183 DF,  p-value: 0.5886
```

```
## "Taking actions that run counter to public opinion jeopardizes the military's reputation"
MilReputationTable <-table(data$MilReputation)
prop.table(MilReputationTable)
```

```
##
##         1         2         3         4         5
## 0.09189189 0.30270270 0.37297297 0.17837838 0.05405405
```

```
Mean_MilReputation <- ddply(data, c("PublicOpinion"), summarise, mean = mean(MilReputation), sd = sd(Mil
print(Mean_MilReputation) #Public Supports: 2.8; Public Opposes: 2.8
```

```
##   PublicOpinion mean        sd       sem
## 1             1  2.8 0.9976162 0.1082067
## 2             2  2.8 1.0347498 0.1034750
```

```
Mean_MilReputation_Full <- (mean = mean(data$MilReputation)) #2.8
sd_MilReputation_Full = sd(data$MilReputation) #1.015103
se_MilReputation_Full = sd(data$MilReputation)/sqrt(length(data$MilReputation)) #0.07463188

m1_MilReputation <- lm(MilReputation ~ PublicOpinion, data=data)
summary(m1_MilReputation) # p-value:  1
```

```
##
## Call:
## lm(formula = MilReputation ~ PublicOpinion, data = data)
##
## Residuals:
##    Min     1Q Median     3Q    Max
##   -1.8   -0.8    0.2    0.2    2.2
##
## Coefficients:
##                Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.800e+00  2.431e-01   11.52   <2e-16 ***
## PublicOpinion 1.099e-15  1.502e-01    0.00        1
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.018 on 183 degrees of freedom
## Multiple R-squared:  1.027e-29,  Adjusted R-squared:  -0.005464
## F-statistic: 1.879e-27 on 1 and 183 DF,  p-value: 1
```

```
## "The military carries out the policies of elected leaders who are responsive to public opinion. The
LeadersPreferenceTable <-table(data$LeadersPreference)
prop.table(LeadersPreferenceTable)
```

```
##
##         1         2         3         4         5
## 0.04864865 0.09729730 0.24324324 0.36756757 0.24324324
```

```r
Mean_LeadersPreference <- ddply(data, c("PublicOpinion"), summarise, mean = mean(LeadersPreference), sd
print(Mean_LeadersPreference) #Public Supports: 3.63; Public Opposes: 3.69
```

```
##   PublicOpinion     mean       sd       sem
## 1             1 3.623529 1.154458 0.1252185
## 2             2 3.690000 1.051166 0.1051166
```

```r
Mean_LeadersPreference_Full <- (mean = mean(data$LeadersPreference)) #3.659459
sd_LeadersPreference_Full = sd(data$LeadersPreference) #1.097294
se_LeadersPreference_Full = sd(data$LeadersPreference)/sqrt(length(data$LeadersPreference)) #0.08067466

m1_LeadersPreference <- lm(LeadersPreference ~ PublicOpinion, data=data)
summary(m1_LeadersPreference) # p-value:  .683
```

```
##
## Call:
## lm(formula = LeadersPreference ~ PublicOpinion, data = data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -2.6900 -0.6900  0.3100  0.3765  1.3765
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)    3.55706    0.26271   13.54   <2e-16 ***
## PublicOpinion  0.06647    0.16225    0.41    0.683
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.1 on 183 degrees of freedom
## Multiple R-squared:  0.0009163,  Adjusted R-squared:  -0.004543
## F-statistic: 0.1678 on 1 and 183 DF,  p-value: 0.6825
```

```r
## "The military should carry out the will of the public"
PublicWillTable <-table(data$PublicWill)
prop.table(PublicWillTable)
```

```
##
##          1          2          3          4          5
## 0.32432432 0.29189189 0.25405405 0.10270270 0.02702703
```

```r
Mean_PublicWill <- ddply(data, c("PublicOpinion"), summarise, mean = mean(PublicWill), sd = sd(PublicWi
print(Mean_PublicWill) #Public Supports: 2.06; Public Opposes: 2.35
```

```
##   PublicOpinion     mean       sd       sem
## 1             1 2.058824 1.061815 0.1151700
## 2             2 2.350000 1.104399 0.1104399
```

```r
Mean_PublicWill_Full <- (mean = mean(data$PublicWill)) #2.216216
sd_PublicWill_Full = sd(data$PublicWill) #1.091846
se_PublicWill_Full = sd(data$PublicWill)/sqrt(length(data$PublicWill)) #0.08027409

m1_PublicWill <- lm(PublicWill ~ PublicOpinion, data=data)
summary(m1_PublicWill) # p-value:  .0706
```

```
##
## Call:
```

```
## lm(formula = PublicWill ~ PublicOpinion, data = data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -1.3500 -1.0588 -0.3500  0.9412  2.9412
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)     1.7676     0.2592   6.820 1.28e-10 ***
## PublicOpinion   0.2912     0.1601   1.819   0.0706 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.085 on 183 degrees of freedom
## Multiple R-squared:  0.01776,    Adjusted R-squared:  0.01239
## F-statistic: 3.309 on 1 and 183 DF,  p-value: 0.07055
```

Balance/Randomization Checks (Appendix, Section 2.1.1)

```
## Regress treatment condition variable on covariates (OLS). Used to produce Appendix, Table 4.
BalanceCheck_PublicSupports<- lm(PublicSupports ~  Gender + Age + Mil_Branch + Combat + Status + Rank +
summary(BalanceCheck_PublicSupports)
```

```
##
## Call:
## lm(formula = PublicSupports ~ Gender + Age + Mil_Branch + Combat +
##     Status + Rank + Staff + Education + Race + Political_ID +
##     Income, data = data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.6566 -0.4508 -0.2527  0.4985  0.8133
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -0.232592   0.506272  -0.459    0.647
## Gender       -0.127530   0.103657  -1.230    0.220
## Age          -0.005671   0.005420  -1.046    0.297
## Mil_Branch    0.018332   0.023303   0.787    0.433
## Combat        0.124920   0.086380   1.446    0.150
## Status        0.080964   0.096914   0.835    0.405
## Rank          0.036460   0.049486   0.737    0.462
## Staff        -0.085395   0.092863  -0.920    0.359
## Education     0.051946   0.063907   0.813    0.417
## Race          0.006325   0.017778   0.356    0.722
## Political_ID  0.051807   0.045631   1.135    0.258
## Income        0.014944   0.029537   0.506    0.614
##
## Residual standard error: 0.5009 on 171 degrees of freedom
##   (2 observations deleted due to missingness)
## Multiple R-squared:  0.05413,    Adjusted R-squared:  -0.006716
## F-statistic: 0.8896 on 11 and 171 DF,  p-value: 0.5517
```

```r
BalanceCheck_PublicOpposes <- lm(PublicOpposes ~  Gender + Age + Mil_Branch + Combat + Status + Rank + S
summary(BalanceCheck_PublicOpposes)
```

```
##
## Call:
## lm(formula = PublicOpposes ~ Gender + Age + Mil_Branch + Combat +
##     Status + Rank + Staff + Education + Race + Political_ID +
##     Income, data = data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.8133 -0.4985  0.2527  0.4508  0.6566
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1.232592   0.506272   2.435   0.0159 *
## Gender        0.127530   0.103657   1.230   0.2203
## Age           0.005671   0.005420   1.046   0.2969
## Mil_Branch   -0.018332   0.023303  -0.787   0.4326
## Combat       -0.124920   0.086380  -1.446   0.1500
## Status       -0.080964   0.096914  -0.835   0.4046
## Rank         -0.036460   0.049486  -0.737   0.4623
## Staff         0.085395   0.092863   0.920   0.3591
## Education    -0.051946   0.063907  -0.813   0.4174
## Race         -0.006325   0.017778  -0.356   0.7224
## Political_ID -0.051807   0.045631  -1.135   0.2578
## Income       -0.014944   0.029537  -0.506   0.6135
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5009 on 171 degrees of freedom
##   (2 observations deleted due to missingness)
## Multiple R-squared:  0.05413,    Adjusted R-squared:  -0.006716
## F-statistic: 0.8896 on 11 and 171 DF,  p-value: 0.5517
```

```r
#Balance Table of Covariate Means (Used to Produce Appendix, Table 3)

get_mean_sd <- function(vector){
  mean <- mean(vector, na.rm = T)
  sd <- sd(vector, na.rm = T)
  sem <- sd/(sqrt(length(vector)))
  output <- paste(round(mean, 3), " (", round(sem, 3), ")", collapse = "", sep = "")
  return(output)
}

balance_table <- group_by(data, PublicOpinion) %>%
  summarize(Branch = get_mean_sd(Mil_Branch),
            Rank = get_mean_sd(Rank),
            CombatExperience = get_mean_sd(Combat),
            StaffExperience = get_mean_sd(Staff),
            Gender = get_mean_sd(Gender),
            Race = get_mean_sd(Race),
            Age = get_mean_sd(Age),
            Education = get_mean_sd(Education),
```

```
            PoliticalID = get_mean_sd(Political_ID))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
BalanceTable <- t(balance_table[,2:10])
colnames(BalanceTable) <- c("Public Supports Action", "Public Opposes Action")
print(BalanceTable)
```

```
##                   Public Supports Action Public Opposes Action
## Branch            "3.529 (0.193)"        "3.43 (0.179)"
## Rank              "4 (0.135)"            "3.83 (0.114)"
## CombatExperience "1.671 (0.051)"        "1.55 (0.05)"
## StaffExperience   "1.376 (0.053)"        "1.38 (0.049)"
## Gender            "1.129 (0.037)"        "1.2 (0.04)"
## Race              "2.271 (0.235)"        "2.18 (0.216)"
## Age               "39.928 (1.046)"       "39.81 (1.088)"
## Education         "7.682 (0.071)"        "7.58 (0.07)"
## PoliticalID       "2.988 (0.098)"        "2.86 (0.082)"
```

Manipulation Check (Appendix Section 2.1.2, Table 5)

```
sum(data$PublicOpinion == 1 & data$Check == 2)/sum(data$PublicOpinion == 1) #0.9764706
```

```
## [1] 0.9764706
```

```
sum(data$PublicOpinion == 2 & data$Check == 3)/sum(data$PublicOpinion == 2) #0.99
```

```
## [1] 0.99
```

Demographics (Appendix, Section 1.3)

```
###Sample
##Gender
GenderTable <-table(data$Gender)
prop.table(GenderTable)
```

```
##
##         1         2
## 0.8324324 0.1675676
```

```
##Rank
RankTable <-table(data$Rank)
prop.table(RankTable)
```

```
##
##           1           2           3           4           5           6
## 0.016216216 0.059459459 0.351351351 0.264864865 0.194594595 0.108108108
##           7
## 0.005405405
```

```
##Military Branch
BranchTable <-table(data$Mil_Branch)
prop.table(BranchTable)
```

```
##
##          1          2          4          5
## 0.23783784 0.18378378 0.02162162 0.55675676
```

```
##Service Headquarters/Joint Staff Experience
StaffTable <-table(data$Staff)
prop.table(StaffTable)
```

```
##
##         1         2
## 0.6216216 0.3783784
```

```
##Combat Experience
CombatTable <-table(data$Combat)
prop.table(CombatTable)
```

```
##
##         1         2
## 0.3945946 0.6054054
```

```
##Military Rank
CombatTable <-table(data$Combat)
prop.table(CombatTable)
```

```
##
##         1         2
## 0.3945946 0.6054054
```

```
##Education
EducationTable <-table(data$Education)
prop.table(EducationTable)
```

```
##
##         6         7         8
## 0.1135135 0.1459459 0.7405405
```

```
##Race
RaceTable <-table(data$Race)
prop.table(RaceTable)
```

```
##
##          1          2          4          5          6          7          8
## 0.71351351 0.03243243 0.09189189 0.01621622 0.05405405 0.06486486 0.02702703
```

```
##Political ID
PoliticalIDTable <-table(data$Political_ID)
prop.table(PoliticalIDTable)
```

```
##
##          1          2          3          4          5
## 0.04324324 0.25945946 0.45405405 0.22162162 0.02162162
```

```
###DOD Data (From DOD 2018 Demographics: Profile of the Military Community https://download.militaryone

# Percentage of Officers per service (Source: DOD 2018 Demographics, Page 13)--Note, the denominator of
#Army
92315/212870 #0.4336684
```

```
## [1] 0.4336684
```

```
#Navy
54737/212870 #0.2571382
```

```
## [1] 0.2571382
```

```
#Marine Corps
21332/212870 #0.09233673
```

```
## [1] 0.1002114
```

```
#Air Force
62640/212870 #0.2711407
```

```
## [1] 0.2942641
```

```
#Rank (Source: DOD 2018 Demographics, 15)

##O-1
28002/212870 #0.1315451
```

```
## [1] 0.1315451
```

```
##O-2
28283/212870 #0.1328651
```

```
## [1] 0.1328651
```

```
##O-3
74223/212870 #0.3486776
```

```
## [1] 0.3486776
```

```
##O-4
43207/212870 #0.2029736
```

```
## [1] 0.2029736
```

```
##O-5
27179/212870 #0.1276789
```

```
## [1] 0.1276789
```

```
##O-6
11049/212870 #0.05190492
```

```
## [1] 0.05190492
```

```
##O-7
440/212870 #0.002066989
```

```
## [1] 0.002066989
```

```
# Gender Data (Source: DOD 2018 Demographics, 19)
# Race/Ethnicity (Source: DOD 2018 Demographics, 42)
# Education (Source: DOD 2018 Demographics, 42)
```