STATA CODE

\*\*\* Case ID

codebook V160001

clonevar caseID = V160001

\*\*\* Participant racial groupings

tab V161310x V161309, mi

tab V161310x, gen(racegrp)

rename racegrp2 WHITE

rename racegrp3 BLACK

rename racegrp6 HISPN

rename racegrp4 ASIAN

tab V161310x WHITE, mi

tab V161310x BLACK, mi

tab V161310x HISPN, mi

tab V161310x ASIAN, mi

\*\*\* Thermometers

tab1 V162310 V162311 V162312 V162314

gen thermoA = V162310

gen thermoH = V162311

gen thermoB = V162312

gen thermoW = V162314

recode thermoW thermoB thermoH thermoA (-9/-1=.)

sum thermoW thermoB thermoH thermoA

\*\*\* Isolated negative feeling

gen thermoW0 = 0 if thermoW!=. & thermoB!=. & thermoH!=. & thermoA!=.

replace thermoW0 = 1 if thermoW<50 & (thermoB>=50 & thermoB<=100) & (thermoH>=50 & thermoH<=100) & (thermoA>=50 & thermoA<=100)

gen thermoB0 = 0 if thermoW!=. & thermoB!=. & thermoH!=. & thermoA!=.

replace thermoB0 = 1 if thermoB<50 & (thermoW>=50 & thermoW<=100) & (thermoH>=50 & thermoH<=100) & (thermoA>=50 & thermoA<=100)

gen thermoH0 = 0 if thermoW!=. & thermoB!=. & thermoH!=. & thermoA!=.

replace thermoH0 = 1 if thermoH<50 & (thermoW>=50 & thermoW<=100) & (thermoB>=50 & thermoB<=100) & (thermoA>=50 & thermoA<=100)

gen thermoA0 = 0 if thermoW!=. & thermoB!=. & thermoH!=. & thermoA!=.

replace thermoA0 = 1 if thermoA<50 & (thermoW>=50 & thermoW<=100) & (thermoB>=50 & thermoB<=100) & (thermoH>=50 & thermoH<=100)

tab1 thermoW0 thermoB0 thermoH0 thermoA0

sum thermoW thermoB thermoH thermoA if thermoW0==1

sum thermoW thermoB thermoH thermoA if thermoB0==1

sum thermoW thermoB thermoH thermoA if thermoH0==1

sum thermoW thermoB thermoH thermoA if thermoA0==1

sum thermoW thermoB thermoH thermoA if thermoW0==0

sum thermoW thermoB thermoH thermoA if thermoB0==0

sum thermoW thermoB thermoH thermoA if thermoH0==0

sum thermoW thermoB thermoH thermoA if thermoA0==0

\*\*\*

svyset [pweight=V160102w], strata(V160201w) psu(V160202w) singleunit(centered) // Web

svy: prop thermoW0 thermoB0 thermoH0 thermoA0

svy, subpop(WHITE): prop thermoW0 thermoB0 thermoH0 thermoA0

svy, subpop(BLACK): prop thermoW0 thermoB0 thermoH0 thermoA0

svy, subpop(HISPN): prop thermoW0 thermoB0 thermoH0 thermoA0

svy, subpop(ASIAN): prop thermoW0 thermoB0 thermoH0 thermoA0

R CODE

### By racial group

#install.packages("ggplot2", dependencies=TRUE)

library(ggplot2)

#pdf(file="F:PSfig1.pdf", width=7, height=5)

theme.z <- theme(

 panel.background=element\_rect(fill="gray85"),

 panel.grid.major.y=element\_blank(),

 panel.grid.major.x=element\_line(size=0.1, linetype="solid", color="white"),

 panel.grid.minor.x=element\_blank(),

 panel.border=element\_rect(color="black", fill=NA, size=1.5),

 axis.title.y=element\_text(size=10, color="black"),

 axis.title.x=element\_blank(),

 axis.text.y=element\_text(size=10, color="black"),

 axis.text.x=element\_text(size=10, color="black", vjust=-0.5),

 axis.ticks.y=element\_blank(),

 axis.ticks.x=element\_blank(),

 plot.title=element\_text(face="bold", size=12, hjust=0.5),

 plot.margin=margin(0.5,0.5,0.5,0,"cm"),

plot.caption=element\_text(hjust=0.5),

 legend.position="none"

 )

TARGET <- c("INF against Whites","INF against Blacks","INF against Hispanics","INF against Asians")

# Whites

PCT <- 100\*c(0.0181,0.0419,0.0348,0.0201)

LOCI <- 100\*c(0.0120,0.0347,0.0266,0.0136)

HICI <- 100\*c(0.0273,0.0505,0.0454,0.0297)

df <- data.frame(TARGET,PCT,LOCI,HICI)

plot.w <- ggplot(df, aes(x=TARGET, y=PCT, fill=factor(TARGET))) +

 geom\_bar(stat="identity", position="dodge", color="black", size=1, width=0.85) +

 geom\_errorbar(aes(ymin=LOCI, ymax=HICI), width=0.25, position=position\_dodge(0.85)) +

labs(title="Whites") +

 coord\_flip() +

 scale\_x\_discrete(limits=TARGET, labels=TARGET, name="")+

 scale\_y\_continuous(limits=c(0,100), breaks=seq(0,100,20), minor\_breaks=seq(0,100,20), labels=seq(0,100,20), expand=c(0,0), name="") +

 scale\_fill\_manual(values=c("dodgerblue","dodgerblue","dodgerblue","dodgerblue")) +

 theme.z

plot.w

# Blacks

PCT <- 100\*c(0.1380,0.0000,0.0273,0.0266)

LOCI <- 100\*c(0.0862,0.0000,0.0096,0.0069)

HICI <- 100\*c(0.2135,0.0000,0.0750,0.0968)

df <- data.frame(TARGET,PCT,LOCI,HICI)

plot.b <- ggplot(df, aes(x=TARGET, y=PCT, fill=factor(TARGET))) +

 geom\_bar(stat="identity", position="dodge", color="black", size=1, width=0.85) +

 geom\_errorbar(aes(ymin=LOCI, ymax=HICI), width=0.25, position=position\_dodge(0.85)) +

labs(title="Blacks") +

 coord\_flip() +

 scale\_x\_discrete(limits=TARGET, labels=c("","","",""), name="")+

 scale\_y\_continuous(limits=c(0,100), breaks=seq(0,100,20), minor\_breaks=seq(0,100,20), labels=seq(0,100,20), expand=c(0,0), name="") +

 scale\_fill\_manual(values=c("dodgerblue","dodgerblue","dodgerblue","dodgerblue")) +

 theme.z

plot.b

# Hispanics

PCT <- 100\*c(0.0442,0.0449,0.0167,0.0203)

LOCI <- 100\*c(0.0220,0.0235,0.0049,0.0078)

HICI <- 100\*c(0.0868,0.0840,0.0550,0.0518)

df <- data.frame(TARGET,PCT,LOCI,HICI)

plot.h <- ggplot(df, aes(x=TARGET, y=PCT, fill=factor(TARGET))) +

 geom\_bar(stat="identity", position="dodge", color="black", size=1, width=0.85) +

 geom\_errorbar(aes(ymin=LOCI, ymax=HICI), width=0.25, position=position\_dodge(0.85)) +

labs(title="Hispanics") +

 coord\_flip() +

 scale\_x\_discrete(limits=TARGET, labels=TARGET, name="")+

 scale\_y\_continuous(limits=c(0,100), breaks=seq(0,100,20), minor\_breaks=seq(0,100,20), labels=seq(0,100,20), expand=c(0,0), name="") +

 scale\_fill\_manual(values=c("dodgerblue","dodgerblue","dodgerblue","dodgerblue")) +

 theme.z

plot.h

#dev.off()

# Asians

PCT <- 100\*c(0.0723,0.0408,0.0126,0.0079)

LOCI <- 100\*c(0.0259,0.0145,0.0017,0.0010)

HICI <- 100\*c(0.1858,0.1092,0.0859,0.0572)

df <- data.frame(TARGET,PCT,LOCI,HICI)

plot.a <- ggplot(df, aes(x=TARGET, y=PCT, fill=factor(TARGET))) +

 geom\_bar(stat="identity", position="dodge", color="black", size=1, width=0.85) +

 geom\_errorbar(aes(ymin=LOCI, ymax=HICI), width=0.25, position=position\_dodge(0.85)) +

labs(title="Asians") +

 coord\_flip() +

 scale\_x\_discrete(limits=TARGET, labels=c("","","",""), name="")+

 scale\_y\_continuous(limits=c(0,100), breaks=seq(0,100,20), minor\_breaks=seq(0,100,20), labels=seq(0,100,20), expand=c(0,0), name="") +

 scale\_fill\_manual(values=c("dodgerblue","dodgerblue","dodgerblue","dodgerblue")) +

 theme.z

plot.a

library("grid")

library(lattice)

library(gridExtra)

g1 <- cbind(ggplotGrob(plot.w), ggplotGrob(plot.b), size="first")

g2 <- cbind(ggplotGrob(plot.h), ggplotGrob(plot.a), size="first")

grid.arrange(g1, g2, ncol=1, top=textGrob("\nIsolated negative feeling (INF) by race", x=0.58, y=0.5, just="center", gp=gpar(fontsize=15, fontface="bold")), bottom=textGrob("Note: Data source: 2016 American National Election Studies Time Series Study.\nIsolated negative feeling is rating the target group under 50 and the three other target groups at 50 or\nabove, on 0-to-100 feeling thermometers for target groups of Whites, Blacks, Hispanics, and Asians.\n", x=0.5, y=0.5, just="center", gp=gpar(fontsize=10)))