\*\* Stata code

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\*\* Code for the ANES 2020 Time Series Study

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\*\* Racial groups

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tab V201549x

clonevar race = V201549x

recode race (-9 -8=99)

tab V201549x race, mi

tab V201549x, mi

recode V201549x (-9/-1 2/6=0) , gen(Rwhite)

recode V201549x (-9/-1 1 3/6=0) (2=1) , gen(Rblack)

recode V201549x (-9/-1 1/2 4/6=0) (3=1) , gen(Rhispn)

recode V201549x (-9/-1 1/3 5/6=0) (4=1) , gen(Rasian)

recode V201549x (-9/-1 1 6=0) (2/5=1), gen(Rpoc)

tab V201549x Rwhite, mi

tab V201549x Rblack, mi

tab V201549x Rhispn, mi

tab V201549x Rasian, mi

tab V201549x Rpoc , mi

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\*\* Racial resentment

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tab1 V202300 V202301 V202302 V202303

clonevar RR1 = V202300

clonevar RR2 = V202301

clonevar RR3 = V202302

clonevar RR4 = V202303

recode RR1 RR2 RR3 RR4 (-9/-1=.)

sum RR1 RR2 RR3 RR4

pwcorr RR1 RR2 RR3 RR4

desc RR1 RR2 RR3 RR4

gen RRsum = RR2 + RR3 - RR1 - RR4

factor RR1 RR2 RR3 RR4, pcf

predict RRfactor

pwcorr RRfactor RRsum, sig obs

sum RRfactor RRsum

gen RRsum01 = (RRsum+8)/16

sum RRsum01

gen RRsum16 = RRsum + 8

sum RRsum16

gen RR01 = RRsum16/16

sum RR01

tab V202300 RRsum16 // Check order

tab V202301 RRsum16 // Check order

tab V202302 RRsum16 // Check order

tab V202303 RRsum16 // Check order

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\*\* Racial feeling thermometers

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codebook V202477 V202478 V202480 V202479 V202482

tab1 V202477 V202478 V202480 V202479 V202482, mi

desc V202477 V202478 V202480 V202479 V202482

// Sample sizes

// N=6666 rated all four racial groups

sum V200001 if ((V202477>=0 & V202477<=100) | (V202478>=0 & V202478<=100)) & (V202480>=0 & V202480<=100) & (V202479>=0 & V202479<=100) & (V202482>=0 & V202482<=100)

// N=700 did not rate at least one racial group

sum V200001 if V202477==-9 | V202478==-9 | V202480==-9 | V202479==-9 | V202482==-9

// N=7366 rated all four racial groups or skipped at least one racial group rating

sum V200001 if (((V202477>=0 & V202477<=100) | (V202478>=0 & V202478<=100)) & (V202480>=0 & V202480<=100) & (V202479>=0 & V202479<=100) & (V202482>=0 & V202482<=100)) | (V202477==-9 | V202478==-9 | V202480==-9 | V202479==-9 | V202482==-9)

// Code FTasian combined

gen FTasianC = .

replace FTasianC = V202477 if V202478==-1

replace FTasianC = V202478 if V202477==-1

tab FTasianC

sum FTasianC

// Check asian thermometer coding

clonevar FTaa = V202477

clonevar FTab = V202478

recode FTaa FTab (-100/-1=.)

egen FTasianX = rowmean(FTaa FTab)

tab FTasianX

sum FTasianX FTasianC if FTasianX>=0 & FTasianC>=0

// Code other racial thermometerss

clonevar FTblack = V202480

clonevar FThispn = V202479

clonevar FTwhite = V202482

recode FTblack FThispn FTwhite FTasianC (-7 -6 -5=.)

sum FTblack FThispn FTwhite FTasianC

// Get racial thermos from 0 to 100

recode V202480 (-100/-1=.), gen(FTblack100)

recode V202479 (-100/-1=.), gen(FThispn100)

recode V202482 (-100/-1=.), gen(FTwhite100)

recode FTasianC (-100/-1=.), gen(FTasian100)

tab1 FTblack100 FThispn100 FTasian100 FTwhite100, mi

sum FTblack100 FThispn100 FTasian100 FTwhite100

desc FTblack100 FThispn100 FTasian100 FTwhite100

// Get equal thermo cases that included refusals in the omitted category

gen FTeqMISS = 0 if (FTblack>=0 & FTblack<=100) & (FThispn>=0 & FThispn<=100) & (FTasianC>=0 & FTasianC<=100) & (FTwhite>=0 & FTwhite<=100)

tab FTeqMISS, mi

replace FTeqMISS = 1 if (FTblack==FThispn) & (FTblack==FTasianC) & (FTblack==FTwhite) & (FThispn==FTasianC) & (FThispn==FTwhite) & (FTasianC==FTwhite) & (FTblack>=0 & FTblack<=100) & (FThispn>=0 & FThispn<=100) & (FTasianC>=0 & FTasianC<=100) & (FTwhite>=0 & FTwhite<=100)

replace FTeqMISS = 0 if FTblack==-9 | FThispn==-9 | FTasianC==-9 | FTwhite==-9

tab FTeqMISS

// Cold / Warm only for Whites compared to all four rated equally

sum FTblack FThispn FTwhite FTasianC

gen FTwhiteCW4 = 4 if FTasianC!=. & FThispn!=. & FTblack!=. & FTwhite!=.

replace FTwhiteCW4 = 1 if (FTasianC>=50 & FTasianC<=100) & (FTblack>=50 & FTblack<=100) & (FThispn>=50 & FThispn<=100) & (FTwhite>=0 & FTwhite<50)

replace FTwhiteCW4 = 2 if (FTasianC>=0 & FTasianC<=50) & (FTblack>=0 & FTblack<=50) & (FThispn>=0 & FThispn<=50) & (FTwhite>50 & FTwhite<=100)

replace FTwhiteCW4 = 3 if (FTasianC==FThispn) & (FTasianC==FTblack) & (FTasianC==FTwhite) & (FThispn==FTblack) & (FThispn==FTwhite) & (FTblack==FTwhite) & FTblack!=. & FThispn!=. & FTasianC!=. & FTwhite!=.

replace FTwhiteCW4 = 4 if V202477==-9 | V202478==-9 | V202480==-9 | V202479==-9 | V202482==-9

tab FTwhiteCW4, mi

label define FTwhiteCW4 1 "[1] Cold to Whites only" 2 "[2] Warm to Whites only" 3 "[3] All equal" 4 "[4] Residual"

label values FTwhiteCW4 FTwhiteCW4

tab FTwhiteCW4

tab FTwhiteCW4, mi

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\*\* Stereotypes

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// Hardworking

tab V202515 V202516

clonevar HWw = V202515

clonevar HWb = V202516

recode HWw HWb (-9/-1=.)

tab HWw HWb

gen HWwb = (HWb - HWw)

tab HWwb

recode HWwb (-6/-1=1) (0=2) (1/6=3), gen(HWwb3)

tab HWwb3

label define HWwb3 1 "Whites more lazy" 2 "Equal rating" 3 "Blacks more lazy"

label values HWwb3 HWwb3

tab HWwb3

tab V202521 V202522

clonevar VIw = V202521

clonevar VIb = V202522

recode VIw VIb (-9/-1=.)

tab VIw VIb

gen VIwb = (VIb - VIw)

tab VIwb

recode VIwb (-6/-1=1) (0=2) (1/6=3), gen(VIwb3)

tab VIwb3

label define VIwb3 1 "Whites more violent" 2 "Equal rating" 3 "Blacks more violent"

label values VIwb3 VIwb3

tab VIwb3

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\*\* Demographics

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tab V201600

clonevar gender3 = V201600

recode gender3 (-9=99)

tab V201600 gender3, mi

tab V201507x

recode V201507x (-9=99) (18/21=1) (22/29=2) (30/39=3) (40/49=4) (50/59=5) (60/69=6) (70/79=7) (80=8), gen(ageGRP)

tab ageGRP

label define ageGRP 1 "[1] 18-21" 2 "[2] 22-29" 3 "[3] 30-39" 4 "[4] 40-49" 5 "[5] 50-59" 6 "[6] 60-69" 7 "[7] 70-79" 8 "[8] 80+" 99 "[99] Refused"

label values ageGRP ageGRP

tab ageGRP, mi

tab V201511x

clonevar educ = V201511x

recode educ (-9/-1=99)

tab V201511x educ, mi

tab V201508

clonevar marital = V201508

recode marital (2=1) (-9 -8=99)

tab V201508 marital, mi

tab V201617x

clonevar hhincome = V201617x

recode hhincome (-9 -5=99)

tab V201617x hhincome, mi

tab V201231x

clonevar party = V201231x

recode party (-9 -8=.)

tab V201231x party, mi

tab V201200

clonevar ideo = V201200

recode ideo (-9/-8=99)

tab V201200 ideo, mi

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\*\* Outcome variables

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// Scientists

tab V202173

clonevar FTscien = V202173

recode FTscien (-100/-1 998 999=.)

sum FTscien

desc FTscien

gen FTscien01 = FTscien/100

// Journalists

tab V202175

clonevar FTjourn = V202175

recode FTjourn (-100/-1 998 999=.)

sum FTjourn

desc FTjourn

gen FTjourn01 = FTjourn/100

// Environment / jobs tradeoff

tab V201262

recode V201262 (-9/-8 99=.), gen(envJOB)

tab V201262 envJOB, mi

gen envJOB01 = (7-envJOB)/6

tab envJOB01, mi

// Climate change

tab V202332

recode V202332 (-9/-1=.), gen(CC)

tab V202332 CC, mi

gen CC01 = (CC-1)/4

tab CC01, mi

// Regulations on greenhouse emissions

tab V202336x

recode V202336x (-7/-1=.), gen(GH)

tab V202336x GH, mi

gen GH01 = (7-GH)/6

tab GH01, mi

// Dr Fauci

tab V202158

recode V202158 (-100/-1 998 999=.), gen(FTfauci)

desc FTfauci

sum FTfauci

gen FTfauci01 = FTfauci/100

// CDC

tab V202187

recode V202187 (-100/-1 998 999=.), gen(FTcdc)

desc FTcdc

sum FTcdc

gen FTcdc01 = FTcdc/100

// Welfare

tab V201314x

recode V201314x (-9/-1=.), gen(welfare)

tab V201314x welfare, mi

gen welfare01 = (5-welfare)/4

tab V201314x welfare01, mi

// Crime

tab V201311x

recode V201311x (-9/-1=.), gen(crime)

tab V201311x crime, mi

gen crime01 = (crime-1)/4

tab V201311x crime01, mi

// Highway spending

tab V201317x

recode V201317x (-9/-1=.), gen(roads)

tab V201317x roads, mi

gen roads01 = (5-roads)/4

tab V201317x roads01, mi

// Federal spending: Protecting the environment

tab V201323x

recode V201323x (-9/-1=.), gen(spendENV)

tab V201323x spendENV, mi

gen spendENV01 = (5-spendENV)/4

tab V201323x spendENV01, mi

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\*\* Weights

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svyset [pweight=V200010b], strata(V200010d) psu(V200010c) singleunit(centered)

svyset [pweight=V200010b], strata(V200010d) psu(V200010c)

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\*\* FTequal by levels of RR

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svyset [pweight=V200010b], strata(V200010d) psu(V200010c) singleunit(centered)

svy: mean FTeqMISS if RRsum16==0, level(83.4)

svy: mean FTeqMISS if RRsum16==1, level(83.4)

svy: mean FTeqMISS if RRsum16==2, level(83.4)

svy: mean FTeqMISS if RRsum16==3, level(83.4)

svy: mean FTeqMISS if RRsum16==4, level(83.4)

svy: mean FTeqMISS if RRsum16==5, level(83.4)

svy: mean FTeqMISS if RRsum16==6, level(83.4)

svy: mean FTeqMISS if RRsum16==7, level(83.4)

svy: mean FTeqMISS if RRsum16==8, level(83.4)

svy: mean FTeqMISS if RRsum16==9, level(83.4)

svy: mean FTeqMISS if RRsum16==10, level(83.4)

svy: mean FTeqMISS if RRsum16==11, level(83.4)

svy: mean FTeqMISS if RRsum16==12, level(83.4)

svy: mean FTeqMISS if RRsum16==13, level(83.4)

svy: mean FTeqMISS if RRsum16==14, level(83.4)

svy: mean FTeqMISS if RRsum16==15, level(83.4)

svy: mean FTeqMISS if RRsum16==16, level(83.4)

foreach i of num 0/16 {

 display `"----------------`i'"'

 svy, subpop(Rwhite): prop FTeqMISS if RRsum16==`i', level(83.4)

 }

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==0, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==1, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==2, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==3, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==4, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==5, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==6, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==7, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==8, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==9, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==10, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==11, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==12, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==13, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==14, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==15, level(83.4)

svy, subpop(Rwhite): prop FTeqMISS if RRsum16==16, level(83.4)

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\*\* RR by FT whites

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svy: mean RR01, over(FTwhiteCW4)

svy: prop discWonly, over(RRsum16)

svy: prop HWwb3, over(RRsum16)

svy: prop VIwb3, over(RRsum16)

tab FToutW3, mi

svy, subpop(Rwhite): mean RR01, over(FTwhiteCW4)

svy, subpop(Rwhite): mean RR01 if HWwb3==1

svy, subpop(Rwhite): mean RR01 if HWwb3==2

svy, subpop(Rwhite): mean RR01 if HWwb3==3

svy, subpop(Rwhite): mean RR01 if VIwb3==1

svy, subpop(Rwhite): mean RR01 if VIwb3==2

svy, subpop(Rwhite): mean RR01 if VIwb3==3

svy, subpop(Rpoc): mean RR01, over(FTwhiteCW4)

svy, subpop(Rpoc): mean RR01 if HWwb3==1

svy, subpop(Rpoc): mean RR01 if HWwb3==2

svy, subpop(Rpoc): mean RR01 if HWwb3==3

svy, subpop(Rpoc): mean RR01 if VIwb3==1

svy, subpop(Rpoc): mean RR01 if VIwb3==2

svy, subpop(Rpoc): mean RR01 if VIwb3==3

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\*\* Racial resentment predicting outcomes

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svy, subpop(Rwhite): reg welfare01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg crime01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg CC01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg GH01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg FTfauci01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg FTjourn01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg envJOB01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg FTcdc01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg FTscien01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg roads01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

svy, subpop(Rwhite): reg spendENV01 i.gender i.race i.ageGRP i.educ i.marital i.hhincome i.party i.ideo RR01

# R plot FT equal

library(ggplot2)

library(dplyr)

DATA <- read.csv(file.choose(), header=TRUE)

DATA$RR <- factor(DATA$RR, levels=c("0","1","2","3","4","5","6","7","8","9","10","11","12","13","14","15","16"))

DATA$FACET <- factor(DATA$FACET, levels=c("All respondents", "White respondents"))

y <- 5

DATA$CILO.RR0.A <- DATA$CILO[DATA$FACET=="All respondents" & DATA$RR==0]

DATA$CIHI.RR0.A <- DATA$CIHI[DATA$FACET=="All respondents" & DATA$RR==0]

DATA$CILO.RR0.W <- DATA$CILO[DATA$FACET=="White respondents" & DATA$RR==0]

DATA$CIHI.RR0.W <- DATA$CIHI[DATA$FACET=="White respondents" & DATA$RR==0]

plot <- ggplot(DATA, aes(RR, 100\*PE)) +

 geom\_rect(data=filter(DATA, FACET=="All respondents"), aes(ymin=100\*CILO.RR0.A, ymax=100\*CIHI.RR0.A, xmin=-Inf, xmax=Inf), fill="lightsteelblue3", inherit.aes=FALSE) +

 geom\_rect(data=filter(DATA, FACET=="White respondents"), aes(ymin=100\*CILO.RR0.W, ymax=100\*CIHI.RR0.W, xmin=-Inf, xmax=Inf), fill="lightsteelblue3", inherit.aes=FALSE) +

 geom\_hline(yintercept=0, color="black") +

 scale\_x\_discrete(name="Racial resentment (0 is lowest, 16 is highest)") +

 scale\_y\_continuous(name="", breaks=seq(0,100,25), labels=seq(0,100,25), expand=c(0,0), limits=c(0,100),

 sec.axis=dup\_axis()) +

 facet\_wrap(~FACET, ncol=1, dir="h") +

 geom\_point(size=2.5) +

 labs(title="% of respondents that rated Whites, Blacks,\nHispanics, and Asians equally on 0-to-100 feeling thermometers", caption="Error bars are 83.4% confidence intervals. Ratings about racial groups (Whites, Blacks, Hispanics, and Asians/Asian-Americans)\nwere on 0-to-100 feeling thermometers. Participants who did not rate at least one of these four racial groups were included in\nthe estimates as not rating all groups equally. Survey weights were applied, with the singleunit(centered) option.\nData source: American National Election Studies. 2021. ANES 2020 Time Series Study Preliminary Release: Combined\nPre-Election and Post-Election Data [dataset and documentation]. March 24, 2021 version. www.electionstudies.org.") +

 geom\_errorbar(aes(ymin=100\*CILO, ymax=100\*CIHI), width=0.2, size=0.75) +

 theme(

 strip.background = element\_rect(color="black", fill="black"),

 strip.text.x = element\_text(size=14, color="white", face="bold"),

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

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

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

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

 panel.background = element\_rect(fill="lightsteelblue2", color="black", size=0.5, linetype="solid"),

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

 panel.spacing.x = unit(2, "lines"),

 panel.spacing.y = unit(1, "lines"),

 axis.title.y = element\_text(size=12, color="black"),

 axis.title.x = element\_text(size=12, color="black", margin=margin(t=12, b=6)),

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

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

 axis.text.x = element\_text(color="black", size=12),

 axis.text.y = element\_text(color="black", size=12),

 plot.margin = unit(c(0.25,0.1,0.25,0.1),"cm"),

 plot.title = element\_text(face="bold", margin=margin(t=0, b=13), size=16, hjust=0.5),

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

 plot.caption = element\_text(hjust=0))

plot

ggsave(file="D:RR FTeq.svg", width=8, height=6)

# R plot nonracial

library(ggplot2)

DATA <- read.csv(file.choose(), header=TRUE)

DATA$ITEM <- factor(DATA$ITEM, levels=rev(c("Increase federal spending on welfare", "Favor more greenhouse regulations", "Climate change affects severe weather", "FT Journalists", "FT Dr Fauci", "More regulating business for the environment", "More federal spending on the environment", "Less federal spending on crime", "FT CDC", "FT Scientists", "More federal spending on roads")))

p1 <- ggplot(DATA, aes(PE, ITEM)) +

 geom\_rect(data=NULL,aes(xmin=-Inf, xmax=0, ymin=-Inf, ymax=Inf), col="black", fill="lightsteelblue3") +

 geom\_errorbarh(aes(xmin=CILO, xmax=CIHI), height=0, size=0.75) +

 geom\_point(size=3.5) +

 scale\_x\_continuous(name="", breaks=seq(-0.4,0.2,0.1), limits=c(-0.4, 0.2), labels=scales::number\_format(accuracy=0.1)) +

 labs(title="Racial resentment coefficients\nfrom an OLS regression among Whites", caption="FT = Feeling thermometer. Outcome variables and racial\nresentment are on 0-to-1 scales. Models control for\ngender, age group, education, marital status, income,\npartisanship, and ideology, all controlled for using\ncategorical predictors. Error bars are 95% confidence\nintervals. Data source: American National Election Studies.\n2021. ANES 2020 Time Series Study Preliminary Release:\nCombined Pre-Election and Post-Election Data [dataset and\ndocumentation]. March 24, 2021 version. www.electionstudies.org.") +

theme(

 plot.background=element\_rect(fill="white"),

 strip.background=element\_rect(color="black", size=1.5),

 strip.text.x=element\_text(face="bold", size=15),

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

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

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

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

 panel.background=element\_rect(fill="lightsteelblue2", color="black", size=0.5, linetype="solid"),

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

 panel.spacing.x=unit(2, "lines"),

 panel.spacing.y=unit(1, "lines"),

 axis.text.x = element\_text(size=12, color="black", margin=margin(t=7, b=5)),

 axis.text.y = element\_text(size=12, color="black", margin=margin(r=7)),

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

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

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

 axis.title.x = element\_text(size=12, color="black"),

 plot.margin=unit(c(0.5,0.5,0.5,0.5),"cm"),

 plot.title=element\_text(face="bold", margin=margin(t=0, b=13), size=15, hjust=0.5),

 plot.subtitle=element\_text(hjust=0.5, size=12),

 plot.caption=element\_text(hjust=0, size=10))

p1

ggsave(file="D:RR nonracial.svg", width=8, height=6)