#analysis of FIES 1996 to 2015

#fiescode2

#1997 to 2015 codes

#fies 1997

colnames(f97vars)

f97vars$pcinc97 <- f97vars$toinc/f97vars$fsize

f97vars$pcexp97 <- f97vars$toexp/f97vars$fsize

##real prices

f97vars$toinc97adj <- f97vars$toinc \* 115.4295 / 52.90

f97vars$food97adj <- f97vars$food \* 115.4295 / 52.90

f97vars$albev97adj <- f97vars$albev \* 115.4295 / 52.90

f97vars$tbcco97adj <- f97vars$tbcco \* 115.4295 / 52.90

f97vars$trcom97adj <- f97vars$trcom \* 115.4295 / 52.90

f97vars$educ97adj <- f97vars$educ \* 115.4295 / 52.90

f97vars$rcrtn97adj <- f97vars$rcrtn \* 115.4295 / 52.90

f97vars$medic97adj <- f97vars$medic \* 115.4295 / 52.90

f97vars$nfood97adj <- f97vars$nfood \* 115.4295 / 52.90

f97vars$toexp97adj <- f97vars$toexp \* 115.4295 / 52.90

f97vars$depo97adj <- f97vars$depo \* 115.4295 / 52.90

f97vars$eainc97adj <- f97vars$eainc \* 115.4295 / 52.90

f97vars$pcexp97adj <- f97vars$pcexp97 \* 115.4295 / 52.90

f97vars$pcinc97adj <- f97vars$pcinc97 \* 115.4295 / 52.90

#SES indicator

f97vars$ses97[f97vars$pcinc97adj < 9999.99] <- 1

f97vars$ses97[9999.99<= f97vars$pcinc97adj & f97vars$pcinc97adj < 19999.97] <- 2

f97vars$ses97[19999.97<= f97vars$pcinc97adj & f97vars$pcinc97adj < 39999.94] <- 3

f97vars$ses97[39999.94<= f97vars$pcinc97adj & f97vars$pcinc97adj < 699999.04] <- 4

f97vars$ses97[699999.04<= f97vars$pcinc97adj & f97vars$pcinc97adj < 119999.82] <- 5

f97vars$ses97[119999.82<= f97vars$pcinc97adj & f97vars$pcinc97adj < 199999.70] <- 6

f97vars$ses97[199999.70<= f97vars$pcinc97adj] <- 7

f97vars$ses97b[f97vars$ses97 < 3] <- 1

f97vars$ses97b[2 < f97vars$ses97 & f97vars$ses97 < 6] <- 2

f97vars$ses97b[5 < f97vars$ses97] <- 3

colnames(f97vars)

table(f97vars$ses97b)

#group weighted mean

library(dplyr)

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(pcinc97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(pcexp97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(food97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(albev97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(tbcco97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(trcom97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(educ97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(rcrtn97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(medic97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(nfood97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(eainc97adj, rfact))

f97vars %>%

group\_by(ses97b) %>%

summarise(weighted.mean(toinc97adj, rfact))

#fies 2000

colnames(f2kvars)

f2kvars$pcinc2k <- f2kvars$toinc/f2kvars$fsize

f2kvars$pcexp2k <- f2kvars$toexp/f2kvars$fsize

##real prices

f2kvars$toinc2kadj <- f2kvars$toinc \* 115.4295 / 63.65

f2kvars$food2kadj <- f2kvars$food \* 115.4295 / 63.65

f2kvars$albev2kadj <- f2kvars$albev \* 115.4295 / 63.65

f2kvars$tbcco2kadj <- f2kvars$tbcco \* 115.4295 / 63.65

f2kvars$trcom2kadj <- f2kvars$trcom \* 115.4295 / 63.65

f2kvars$educ2kadj <- f2kvars$educ \* 115.4295 / 63.65

f2kvars$rcrtn2kadj <- f2kvars$rcrtn \* 115.4295 / 63.65

f2kvars$medic2kadj <- f2kvars$medic \* 115.4295 / 63.65

f2kvars$nfood2kadj <- f2kvars$nfood \* 115.4295 / 63.65

f2kvars$toexp2kadj <- f2kvars$toexp \* 115.4295 / 63.65

f2kvars$depo2kadj <- f2kvars$depo \* 115.4295 / 63.65

f2kvars$eainc2kadj <- f2kvars$eainc \* 115.4295 / 63.65

f2kvars$pcexp2kadj <- f2kvars$pcexp2k \* 115.4295 / 63.65

f2kvars$pcinc2kadj <- f2kvars$pcinc2k \* 115.4295 / 63.65

#SES indicator

f2kvars$ses2k[f2kvars$pcinc2kadj < 9999.99] <- 1

f2kvars$ses2k[9999.99<= f2kvars$pcinc2kadj & f2kvars$pcinc2kadj < 19999.97] <- 2

f2kvars$ses2k[19999.97<= f2kvars$pcinc2kadj & f2kvars$pcinc2kadj < 39999.94] <- 3

f2kvars$ses2k[39999.94<= f2kvars$pcinc2kadj & f2kvars$pcinc2kadj < 699999.04] <- 4

f2kvars$ses2k[699999.04<= f2kvars$pcinc2kadj & f2kvars$pcinc2kadj < 119999.82] <- 5

f2kvars$ses2k[119999.82<= f2kvars$pcinc2kadj & f2kvars$pcinc2kadj < 199999.70] <- 6

f2kvars$ses2k[199999.70<= f2kvars$pcinc2kadj] <- 7

f2kvars$ses2kb[f2kvars$ses2k < 3] <- 1

f2kvars$ses2kb[2 < f2kvars$ses2k & f2kvars$ses2k < 6] <- 2

f2kvars$ses2kb[5 < f2kvars$ses2k] <- 3

colnames(f2kvars)

#group weighted mean

library(dplyr)

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(pcinc2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(pcexp2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(food2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(albev2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(tbcco2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(trcom2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(educ2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(rcrtn2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(medic2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(nfood2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(eainc2kadj, rfact))

f2kvars %>%

group\_by(ses2kb) %>%

summarise(weighted.mean(toinc2kadj, rfact))

#2003

colnames(f2k3vars)

f2k3vars$pcexp2k3 <- f2k3vars$totex03adj/f2k3vars$fsize03

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(pcinc03, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(pcexp2k3, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(food03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(albev03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(tbcco03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(trcom03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(educ03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(rcrtn03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(medic03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(nfood2kadj, rfact))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(eainc03adj, fwgt03))

f2k3vars %>%

group\_by(ses03b) %>%

summarise(weighted.mean(toinc03adj, fwgt03))

#2006

colnames(f2k6vars)

f2k6vars$pcexp2k6 <- f2k6vars$totex06adj/f2k6vars$fsize06

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(pcinc06, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(pcexp2k6, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(food06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(albev06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(tbcco06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(trcom06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(educ06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(rcrtn06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(medic06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(nfood2kadj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(eainc06adj, rfact))

f2k6vars %>%

group\_by(ses06b) %>%

summarise(weighted.mean(toinc06adj, rfact))

#2009

colnames(f2k9vars)

f2k9vars$pcexp2k9 <- f2k9vars$totex09adj/f2k9vars$fsize09

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(pcinc09, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(pcexp2k9, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(food09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(albev09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(tbcco09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(trcom09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(educ09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(rcrtn09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(medic09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(nfood09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(eainc09adj, fwgt09))

f2k9vars %>%

group\_by(ses09b) %>%

summarise(weighted.mean(toinc09adj, fwgt09))

#2012

colnames(f12vars)

#f12vars$pcinc12 <- f12vars$toinc/f12vars$fsize

#f12vars$pcexp12 <- f12vars$toexp/f12vars$fsize

#no fsize

#pcing already here

mean(f12vars$pcinc)

#real prices

f12vars$toinc12adj <- f12vars$toinc \* 115.4295 / 107.89

f12vars$food12adj <- f12vars$t\_food \* 115.4295 / 107.89

f12vars$albev12adj <- f12vars$t\_alcohol \* 115.4295 / 107.89

f12vars$tbcco12adj <- f12vars$t\_tobacco \* 115.4295 / 107.89

f12vars$trcom12adj <- f12vars$t\_transport \* 115.4295 / 107.89

f12vars$comm12adj <- f12vars$t\_communication \* 115.4295 / 107.89

f12vars$educ12adj <- f12vars$t\_education \* 115.4295 / 107.89

f12vars$rcrtn12adj <- f12vars$t\_recreation \* 115.4295 / 107.89

f12vars$medic12adj <- f12vars$t\_health \* 115.4295 / 107.89

f12vars$nfood12adj <- f12vars$t\_nfood \* 115.4295 / 107.89

f12vars$toexp12adj <- f12vars$t\_totex \* 115.4295 / 107.89

#f12vars$depo12adj <- f12vars$depo \* 115.4295 / 107.89

f12vars$eainc12adj <- f12vars$eainc \* 115.4295 / 107.89

#f12vars$pcexp12adj <- f12vars$pcexp2k \* 115.4295 / 107.89

f12vars$pcinc12adj <- f12vars$pcinc \* 115.4295 / 107.89

#SES indicator

f12vars$ses12[f12vars$pcinc12adj < 9999.99] <- 1

f12vars$ses12[9999.99<= f12vars$pcinc12adj & f12vars$pcinc12adj < 19999.97] <- 2

f12vars$ses12[19999.97<= f12vars$pcinc12adj & f12vars$pcinc12adj < 39999.94] <- 3

f12vars$ses12[39999.94<= f12vars$pcinc12adj & f12vars$pcinc12adj < 699999.04] <- 4

f12vars$ses12[699999.04<= f12vars$pcinc12adj & f12vars$pcinc12adj < 119999.82] <- 5

f12vars$ses12[119999.82<= f12vars$pcinc12adj & f12vars$pcinc12adj < 199999.70] <- 6

f12vars$ses12[199999.70<= f12vars$pcinc12adj] <- 7

f12vars$ses12b[f12vars$ses12 < 3] <- 1

f12vars$ses12b[2 < f12vars$ses12 & f12vars$ses12 < 6] <- 2

f12vars$ses12b[5 < f12vars$ses12] <- 3

#weighted group mean

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(pcinc12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(pcexp12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(food12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(albev12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(tbcco12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(trcom12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(comm12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(educ12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(rcrtn12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(medic12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(nfood12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(eainc12adj, rfact))

f12vars %>%

group\_by(ses12b) %>%

summarise(weighted.mean(toinc12adj, rfact))

#2015

colnames(f15vars)

f15vars$pcinc15 <- f15vars$toinc/f15vars$fsize

f15vars$pcexp15 <- f15vars$totex/f15vars$fsize

#real prices

f15vars$toinc15adj <- f15vars$toinc \* 115.4295 / 115.4295

f15vars$food15adj <- f15vars$food \* 115.4295 / 115.4295

f15vars$albev15adj <- f15vars$alcohol \* 115.4295 / 115.4295

f15vars$tbcco15adj <- f15vars$tobacco \* 115.4295 / 115.4295

f15vars$trcom15adj <- f15vars$transport \* 115.4295 / 115.4295

f15vars$comm15adj <- f15vars$communication \* 115.4295 / 115.4295

f15vars$educ15adj <- f15vars$education \* 115.4295 / 115.4295

f15vars$rcrtn15adj <- f15vars$recreation \* 115.4295 / 115.4295

f15vars$medic15adj <- f15vars$health \* 115.4295 / 115.4295

f15vars$nfood15adj <- f15vars$nfood \* 115.4295 / 115.4295

f15vars$toexp15adj <- f15vars$totex \* 115.4295 / 115.4295

#f15vars$depo15adj <- f15vars$depo \* 115.4295 / 115.4295

f15vars$eainc15adj <- f15vars$eainc \* 115.4295 / 115.4295

f15vars$pcexp15adj <- f15vars$pcexp15 \* 115.4295 / 115.4295

f15vars$pcinc15adj <- f15vars$pcinc15 \* 115.4295 / 115.4295

#SES indicator

f15vars$ses15[f15vars$pcinc15adj < 9999.99] <- 1

f15vars$ses15[9999.99<= f15vars$pcinc15adj & f15vars$pcinc15adj < 19999.97] <- 2

f15vars$ses15[19999.97<= f15vars$pcinc15adj & f15vars$pcinc15adj < 39999.94] <- 3

f15vars$ses15[39999.94<= f15vars$pcinc15adj & f15vars$pcinc15adj < 699999.04] <- 4

f15vars$ses15[699999.04<= f15vars$pcinc15adj & f15vars$pcinc15adj < 119999.82] <- 5

f15vars$ses15[119999.82<= f15vars$pcinc15adj & f15vars$pcinc15adj < 199999.70] <- 6

f15vars$ses15[199999.70<= f15vars$pcinc15adj] <- 7

f15vars$ses15b[f15vars$ses15 < 3] <- 1

f15vars$ses15b[2 < f15vars$ses15 & f15vars$ses15 < 6] <- 2

f15vars$ses15b[5 < f15vars$ses15] <- 3

#weighted group mean

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(pcinc15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(pcexp15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(food15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(albev15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(tbcco15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(trcom15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(comm15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(educ15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(rcrtn15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(medic15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(nfood15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(eainc15adj, rfact))

f15vars %>%

group\_by(ses15b) %>%

summarise(weighted.mean(toinc15adj, rfact))

###panel

df %>%

group\_by(sesmob) %>%

summarise(mean(medic03adj))

aggregate(df$medic03adj~df$sesmob, df, mean)

aggregate(df$medic06adj~df$sesmob, df, mean)

aggregate(df$medic09adj~df$sesmob, df, mean)

aggregate(df$tbcco03adj~df$sesmob, df, mean)

aggregate(df$tbcco06adj~df$sesmob, df, mean)

aggregate(df$tbcco09adj~df$sesmob, df, mean)

aggregate(df$eainc03adj~df$sesmob, df, mean)

aggregate(df$eainc06adj~df$sesmob, df, mean)

aggregate(df$eainc09adj~df$sesmob, df, mean)

aggregate(df$rcrtn03adj~df$sesmob, df, mean)

aggregate(df$rcrtn06adj~df$sesmob, df, mean)

aggregate(df$rcrtn09adj~df$sesmob, df, mean)

aggregate(df$trcom03adj~df$sesmob, df, mean)

aggregate(df$trcom06adj~df$sesmob, df, mean)

aggregate(df$trcom09adj~df$sesmob, df, mean)

aggregate(df$houserent03~df$sesmob, df, mean)

aggregate(df$houserent06~df$sesmob, df, mean)

aggregate(df$houserent09~df$sesmob, df, mean)