#analysis of SWS datasets

###SWS data analysis

setwd("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Data Analysis/SWS")

library(dplyr)

library(weights)

library(sjstats)

library(gmodels)

library(pollster)

library(readxl)

exit98 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/exit98a.xlsx")

head(exit98)

exit98$eclass <- as.factor(exit98$eclass)

exit98$presiden <- as.factor(exit98$presiden)

class\*exit98$presiden

library(gmodels)

weights(exit98$wgt)

mytable <- CrossTable(exit98$presiden, exit98$eclass, chisq = TRUE)

ftable(mytable)

mytable$prop.row

#https://cran.r-project.org/web/packages/pollster/readme/README.html

#this is better because it has weights but no Chisq

library(pollster)

crosstab(df = exit98, x = presiden, y = eclass, weight = wgt)

mytable <- (crosstab(df = exit98, x = presiden, y = eclass, weight = wgt))

class(mytable)

ftable(mytable)

mytable

library(dplyr)

mytable <- crosstab(df = exit98, x = presiden, y = eclass, weight = wgt) %>%

knitr::kable(digits = 3)

library(ggplot2)

exit98p <- crosstab(df = exit98, x = eclass, y = presiden, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(presiden, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = , angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Exit Polls 1998", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

exit98p

ggsave("exit98.jpeg", plot = exit98p)

###TO DO: Request for location/regn and or prov variable

###In WVS political/democracy seems to be a significant factor. Now, explore inside

###by looking at significant vars in WVS and descriptives of SWS vars.

###weighted chi-square test!!!!

wtd.chi.sq(exit98$eclass, exit98$presiden, weight=exit98$wgt)

#https://www.rdocumentation.org/packages/sjstats/versions/0.18.1/topics/cramer

# bootstrapped confidence intervals

cramer(eclass ~ presiden, data = exit98, ci.lvl = .95, n = 1200)

##exit04

exit04 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/exit04a.xlsx")

head(exit04)

exit04p <- crosstab(df = exit04, x = eclass, y = press, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(press, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Exit Polls 2004", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

exit04p

ggsave("exit04.jpeg", plot = exit04p)

wtd.chi.sq(exit04$eclass, exit04$press, weight=exit04$wgt)

cramer(eclass ~ press, data = exit04)

cramer(eclass ~ press, data = exit04, ci.lvl = .95, n = 1200)

#exit2010

exit10 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/exit10a.xlsx")

head(exit10)

table(exit10$PRESS)

exit10p <- crosstab(df = exit10, x = ECLASS, y = PRESS, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(PRESS, pct, fill = ECLASS, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 7, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Exit Polls 2010", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

exit10p

ggsave("exit10.jpeg", plot = exit10p)

wtd.chi.sq(exit10$ECLASS, exit10$PRESS, weight=exit10$wgt)

cramer(ECLASS ~ PRESS, data = exit10)

cramer(ECLASS ~ PRESS, data = exit10, ci.lvl = .95, n = 1200)

##poverty and hunger

##2000

povhun00 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun00.xlsx")

head(povhun00)

#poverty

p00 <- crosstab(df = povhun00, x = ECLASS\_1, y = POVERTY, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(POVERTY, pct, fill = ECLASS\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2000)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p00

ggsave("p00.jpeg", plot = p00)

wtd.chi.sq(povhun00$ECLASS\_1, povhun00$POVERTY, weight=povhun00$wgt)

cramer(ECLASS\_1 ~ POVERTY, data = povhun00)

cramer(ECLASS\_1 ~ POVERTY, data = povhun00, ci.lvl = .95, n = 1200)

#hunger

h00 <- crosstab(df = povhun00, x = ECLASS\_1, y = HUNGER\_1, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(HUNGER\_1, pct, fill = ECLASS\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2000)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h00

ggsave("h00.jpeg", plot = h00)

wtd.chi.sq(povhun00$ECLASS\_1, povhun00$HUNGER\_1, weight=povhun00$wgt)

#cramer(ECLASS\_1 ~ POVERTY, data = povhun00)

cramer(ECLASS\_1 ~ HUNGER\_1, data = povhun00, ci.lvl = .95, n = 1200)

##2003

#poverty

povhun03 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun03a.xlsx")

head(povhun03)

p03 <- crosstab(df = povhun03, x = eclass\_1, y = poverty, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p03

ggsave("p03.jpeg", plot = p03)

wtd.chi.sq(povhun03$eclass\_2, povhun03$poverty, weight=povhun03$wgt)

#cramer(ecalss\_2 ~ hunger\_1, data = povhun03)

cramer(ecalss\_2 ~ press, data = povhun03, ci.lvl = .95, n = 1200)

#hunger

h03 <- crosstab(df = povhun03, x = eclass\_1, y = hunger\_1, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h03

ggsave("h03.jpeg", plot = h03)

wtd.chi.sq(povhun03$eclass\_2, povhun03$hunger\_1, weight=povhun03$wgt)

#cramer(ECLASS ~ PRESS, data = povhun03)

cramer(eclass\_2 ~ hunger\_1, data = povhun03, ci.lvl = .95, n = 1200)

###clarify with SWS how SES was asked

###should I use eclass\_1 or eclass\_2? this is not consistent across datasets btw.

###should I disaggregate D (D, D1, D2) or aggregated will be enough?

##2004

povhun04 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun04a.xlsx")

head(povhun04)

p04 <- crosstab(df = povhun04, x = eclass\_1, y = poverty, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2004)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p04

ggsave("p04.jpeg", plot = p04)

wtd.chi.sq(povhun04$eclass\_1, povhun04$poverty, weight=povhun04$hhwgt)

#cramer(eclass\_1 ~ poverty, data = povhun04)

cramer(eclass\_1 ~ poverty, data = povhun04, ci.lvl = .95, n = 1200)

#hunger

h04 <- crosstab(df = povhun04, x = eclass\_1, y = hunger\_1, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2004)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h04

ggsave("h04.jpeg", plot = h04)

wtd.chi.sq(povhun04$eclass\_1, povhun04$hunger\_1, weight=povhun04$hhwgt)

#cramer(eclass\_1 ~ hunger\_1, data = povhun04)

cramer(eclass\_1 ~ hunger\_1, data = povhun04, ci.lvl = .95, n = 1200)

##2006

povhun06 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun06a.xlsx")

head(povhun06)

#poverty

p06 <- crosstab(df = povhun06, x = eclass, y = poverty, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p06

ggsave("p06.jpeg", plot = p06)

wtd.chi.sq(povhun06$eclass, povhun06$poverty, weight=povhun06$hhwgt)

cramer(eclass ~ poverty, data = povhun06, ci.lvl = .95, n = 1200)

#hunger

h06 <- crosstab(df = povhun06, x = eclass, y = hunger\_1, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h06

ggsave("h06.jpeg", plot = h06)

wtd.chi.sq(povhun06$eclass, povhun06$hunger\_1, weight=povhun06$hhwgt)

cramer(eclass ~ hunger\_1, data = povhun06, ci.lvl = .95, n = 1200)

##2009

povhun09 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun09a.xlsx")

head(povhun09)

#poverty

p09 <- crosstab(df = povhun09, x = eclass, y = poverty, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2009)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p09

ggsave("p09.jpeg", plot = p09)

wtd.chi.sq(povhun09$eclass, povhun09$poverty, weight=povhun09$wgthh)

cramer(eclass ~ poverty, data = povhun09, ci.lvl = .95, n = 1200)

#hunger

h09 <- crosstab(df = povhun09, x = eclass, y = hunger\_1, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2009)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h09

ggsave("h09.jpeg", plot = h09)

wtd.chi.sq(povhun09$eclass, povhun09$hunger\_1, weight=povhun09$wgthh)

cramer(eclass ~ hunger\_1, data = povhun09, ci.lvl = .95, n = 1200)

##2010

povhun10 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun10a.xlsx")

head(povhun10)

#poverty

p10 <- crosstab(df = povhun10, x = eclass, y = poverty, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2010)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p10

ggsave("p10.jpeg", plot = p10)

wtd.chi.sq(povhun10$eclass, povhun10$poverty, weight=povhun10$wgthh)

cramer(eclass ~ poverty, data = povhun10, ci.lvl = .95, n = 1200)

#hunger

h10 <- crosstab(df = povhun10, x = eclass, y = hunger\_1, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2010)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h10

ggsave("h10.jpeg", plot = h10)

wtd.chi.sq(povhun10$eclass, povhun10$hunger\_1, weight=povhun10$wgthh)

cramer(eclass ~ hunger\_1, data = povhun10, ci.lvl = .95, n = 1200)

##2012

povhun12 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun12a.xlsx")

head(povhun12)

#poverty

p12 <- crosstab(df = povhun12, x = eclass, y = poverty, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p12

ggsave("p12.jpeg", plot = p12)

wtd.chi.sq(povhun12$eclass, povhun12$poverty, weight=povhun12$wgthh)

cramer(eclass ~ poverty, data = povhun12, ci.lvl = .95, n = 1200)

#hunger

h12 <- crosstab(df = povhun12, x = eclass, y = hunger\_1, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h12

ggsave("h12.jpeg", plot = h12)

wtd.chi.sq(povhun12$eclass, povhun12$hunger\_1, weight=povhun12$wgthh)

cramer(eclass ~ hunger\_1, data = povhun12, ci.lvl = .95, n = 1200)

##2013

povhun13 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun13a.xlsx")

head(povhun13)

#poverty

p13 <- crosstab(df = povhun13, x = eclass, y = poverty, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p13

ggsave("p13.jpeg", plot = p13)

wtd.chi.sq(povhun13$eclass, povhun13$poverty, weight=povhun13$wgthh)

cramer(eclass ~ poverty, data = povhun13, ci.lvl = .95, n = 1200)

#hunger

h13 <- crosstab(df = povhun13, x = eclass, y = hunger\_1, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h13

ggsave("h13.jpeg", plot = h13)

wtd.chi.sq(povhun13$eclass, povhun13$hunger\_1, weight=povhun13$wgthh)

cramer(eclass ~ hunger\_1, data = povhun13, ci.lvl = .95, n = 1200)

##2015

povhun15 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun15a.xlsx")

head(povhun15)

#poverty

p15 <- crosstab(df = povhun15, x = eclass, y = poverty, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

p15

ggsave("p15.jpeg", plot = p15)

wtd.chi.sq(povhun15$eclass, povhun15$poverty, weight=povhun15$wgthh)

cramer(eclass ~ poverty, data = povhun15, ci.lvl = .95, n = 1200)

#hunger

h15 <- crosstab(df = povhun15, x = eclass, y = hunger\_1, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

h15

ggsave("h15.jpeg", plot = h15)

wtd.chi.sq(povhun15$eclass, povhun15$hunger\_1, weight=povhun15$wgthh)

cramer(eclass ~ hunger\_1, data = povhun15, ci.lvl = .95, n = 1200)

###looks like the MC is feeling POOR

###but MC is not hungry ...as are the poor...hmmm

###by SEX

#https://cran.r-project.org/web/packages/pollster/vignettes/crosstab3way.html

##exit 1998 per gender

exit98s <- crosstab\_3way(df = exit98, x = eclass, y = presiden, z = gender, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(presiden, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 12, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Exit Polls 1998", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

exit98s

ggsave("exit98s.jpeg", plot = exit98s)

wtd.chi.sq(exit98$eclass, exit98$presiden, weight=exit98$wgt)

cramer(eclass ~ presiden, data = exit98, ci.lvl = .95, n = 1200)

##exit 2004 per gender

exit04s <- crosstab\_3way(df = exit04, x = eclass, y = press, z = gender, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(press, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Exit Polls 2004", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

exit04s

ggsave("exit04s.jpeg", plot = exit04s)

#exit2010

exit10 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/exit10a.xlsx")

head(exit10)

exit10s <- crosstab\_3way(df = exit10, x = ECLASS, y = PRESS, z = GENDER, weight = WGT, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(PRESS, pct, fill = ECLASS, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 6, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Exit Polls 2010", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(GENDER))

exit10s

ggsave("exit10s.jpeg", plot = exit10s)

##poverty and hunger

##2000

povhun00 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun00.xlsx")

head(povhun00)

p00s <- crosstab\_3way(df = povhun00, x = ECLASS\_1, y = POVERTY, z = area, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(POVERTY, pct, fill = ECLASS\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2000)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(area))

p00s

ggsave("p00s.jpeg", plot = p00s)

##2003

povhun03 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun03a.xlsx")

head(povhun03)

p03s <- crosstab\_3way(df = povhun03, x = eclass\_1, y = poverty, z = gender, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p03s

ggsave("p03s.jpeg", plot = p03s)

##2004

povhun04 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun04a.xlsx")

head(povhun04)

p04s <- crosstab\_3way(df = povhun04, x = eclass\_1, y = poverty, z = gender, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2004)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p04s

ggsave("p04s.jpeg", plot = p04s)

##2006

povhun06 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun06a.xlsx")

head(povhun06)

p06s <- crosstab\_3way(df = povhun06, x = eclass, y = poverty, z = gender, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p06s

ggsave("p06s.jpeg", plot = p06s)

##2009

povhun09 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun09a.xlsx")

head(povhun09)

p09s <- crosstab\_3way(df = povhun09, x = eclass, y = poverty, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2009)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p09s

ggsave("p09s.jpeg", plot = p09s)

##2010

povhun10 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun10a.xlsx")

head(povhun10)

p10s <- crosstab\_3way(df = povhun10, x = eclass, y = poverty, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2010)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p10s

ggsave("p10s.jpeg", plot = p10s)

##2012

povhun12 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun12a.xlsx")

head(povhun12)

p12s <- crosstab\_3way(df = povhun12, x = eclass, y = poverty, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p12s

ggsave("p12s.jpeg", plot = p12s)

##2013

povhun13 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun13a.xlsx")

head(povhun13)

p13s <- crosstab\_3way(df = povhun13, x = eclass, y = poverty, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p13s

ggsave("p13s.jpeg", plot = p13s)

###NO AB in 2013?

##povhun15

povhun15 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun15a.xlsx")

head(povhun15)

p15s <- crosstab\_3way(df = povhun15, x = eclass, y = poverty, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(poverty, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

p15s

ggsave("p15s.jpeg", plot = p15s)

c <- crosstab(df = povhun15, x = gender, y = poverty, weight = wgthh)

###

p <- ggplot(povhun15, aes(eclass, poverty)) + geom\_bar(stat = "identity", position = "dodge")

p + facet\_grid(rows = vars(gender))

###TO DO Dec 16:

#tab of gender and eclass

#fix eclass 2004 povhun

##crosstab of gender and eclass

#2000

crosstab(df = povhun00, x = GENDER, y = ECLASS\_1, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(ECLASS\_1, pct, fill = GENDER, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "Where would you place your family in this card? (2000)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

wtd.chi.sq(povhun00$ECLASS\_1, povhun00$POVERTY, weight=povhun00$wgt)

cramer(ECLASS\_1 ~ POVERTY, data = povhun00)

cramer(ECLASS\_1 ~ POVERTY, data = povhun00, ci.lvl = .95, n = 1200)

###not much here

###happiness and satisfaction

##2003

hapsat03 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat03a.xlsx")

head(hapsat03)

#lifesat

#re-order

hapsat03$lifesat = factor(hapsat03$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat03 <-crosstab(df = hapsat03, x = rclass1, y = lifesat, weight = weight, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = rclass1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

sat03

ggsave("sat03.jpeg", plot = sat03)

wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat03$happy = factor(hapsat03$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap03 <- crosstab(df = hapsat03, x = rclass1, y = happy, weight = weight, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = rclass1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

hap03

ggsave("hap03.jpeg", plot = hap03)

wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#sat06

sat06 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/sat06a.xlsx")

head(sat06)

sat06$lifesat = factor(sat06$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat06 <- crosstab(df = sat06, x = eclass\_2, y = lifesat, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass\_2, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

sat06

ggsave("sat06.jpeg", plot = sat06)

#wtd.chi.sq(sat06$rclass1, sat06$lifesat, weight=sat06$weight)

#cramer(rclass1 ~ lifesat, data = sat06, ci.lvl = .95, n = 1200)

##happiness

hap06 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hap06a.xlsx")

head(hap06)

hap06$happy = factor(hap06$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap06 <- crosstab(df = hap06, x = class, y = happy, weight = weight, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = class, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

hap06

ggsave("hap06.jpeg", plot = hap06)

#wtd.chi.sq(sat06$rclass1, sat06$lifesat, weight=sat06$weight)

#cramer(rclass1 ~ lifesat, data = sat06, ci.lvl = .95, n = 1200)

##2012

hapsat12 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat12a.xlsx")

head(hapsat12)

#lifesat

#re-order

hapsat12$lifesat = factor(hapsat12$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat12 <- crosstab(df = hapsat12, x = eclass, y = lifesat, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

sat12

ggsave("sat12.jpeg", plot = sat12)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat12$happy = factor(hapsat12$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap12 <- crosstab(df = hapsat12, x = eclass, y = happy, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

hap12

ggsave("hap12.jpeg", plot = hap12)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

##2013

hapsat13 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat13a.xlsx")

head(hapsat13)

#lifesat

#re-order

hapsat13$lifesat = factor(hapsat13$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat13 <- crosstab(df = hapsat13, x = eclass, y = lifesat, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

sat13

ggsave("sat13.jpeg", plot = sat13)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat13$happy = factor(hapsat13$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap13 <- crosstab(df = hapsat13, x = eclass, y = happy, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

hap13

ggsave("hap13.jpeg", plot = hap13)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#2015

hapsat15 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat15a.xlsx")

head(hapsat15)

#lifesat

#re-order

hapsat15$lifesat = factor(hapsat15$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat15 <- crosstab(df = hapsat15, x = eclass, y = lifesat, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

sat15

ggsave("sat15.jpeg", plot = sat15)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat15$happy = factor(hapsat15$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap15 <- crosstab(df = hapsat15, x = eclass, y = happy, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100))

hap15

ggsave("hap15.jpeg", plot = hap15)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

####looks like MC are satisfied and happy

#############################

#TODO: 1) hunger per gender, 2) sat per gender, 3) happy per gender

##########

##hunger\_1 and hunger\_1 per sex

##2000

##hunger\_1

povhun00 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun00a.xlsx")

head(povhun00)

h00s <- crosstab\_3way(df = povhun00, x = ECLASS\_1, y = HUNGER\_1, z = GENDER, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(HUNGER\_1, pct, fill = ECLASS\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2000)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(GENDER))

h00s

ggsave("h00s.jpeg", plot = h00s)

##2003

povhun03 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun03a.xlsx")

head(povhun03)

h03s <- crosstab\_3way(df = povhun03, x = eclass\_1, y = hunger\_1, z = gender, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h03s

ggsave("h03s.jpeg", plot = h03s)

##2004

povhun04 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun04a.xlsx")

head(povhun04)

h04s <- crosstab\_3way(df = povhun04, x = eclass\_1, y = hunger\_1, z = gender, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass\_1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2004)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h04s

ggsave("h04s.jpeg", plot = h04s)

##2006

povhun06 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun06a.xlsx")

head(povhun06)

h06s <- crosstab\_3way(df = povhun06, x = eclass, y = hunger\_1, z = gender, weight = hhwgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h06s

ggsave("h06s.jpeg", plot = h06s)

##2009

povhun09 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun09a.xlsx")

head(povhun09)

h09s <- crosstab\_3way(df = povhun09, x = eclass, y = hunger\_1, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2009)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h09s

ggsave("h09s.jpeg", plot = h09s)

##2010

povhun10 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun10a.xlsx")

head(povhun10)

h10s <- crosstab\_3way(df = povhun10, x = eclass, y = hunger\_1, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2010)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h10s

ggsave("h10s.jpeg", plot = h10s)

##2012

povhun12 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun12a.xlsx")

head(povhun12)

h12s <- crosstab\_3way(df = povhun12, x = eclass, y = hunger\_1, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h12s

ggsave("h12s.jpeg", plot = h12s)

##2013

povhun13 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun13a.xlsx")

head(povhun13)

h13s <- crosstab\_3way(df = povhun13, x = eclass, y = hunger\_1, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h13s

ggsave("h13s.jpeg", plot = h13s)

###NO AB in 2013?

##povhun15

povhun15 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/povhun15a.xlsx")

head(povhun15)

h15s <- crosstab\_3way(df = povhun15, x = eclass, y = hunger\_1, z = gender, weight = wgthh, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(hunger\_1, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "In the last 3 months, \ndid it happen even once that your family experienced hunger \nand not have anything to eat? (YES, NO) (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

h15s

ggsave("h15s.jpeg", plot = h15s)

######happy and sat per sex

hapsat03 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat03a.xlsx")

head(hapsat03)

#lifesat

#re-order

hapsat03$lifesat = factor(hapsat03$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat03s <- crosstab\_3way(df = hapsat03, x = rclass1, y = lifesat, z = gender, weight = weight, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = rclass1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

sat03s

ggsave("sat03s.jpeg", plot = sat03s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat03$happy = factor(hapsat03$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap03s <- crosstab\_3way(df = hapsat03, x = rclass1, y = happy, z = gender, weight = weight, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = rclass1, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2003)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

hap03s

ggsave("hap03s.jpeg", plot = hap03s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#sat06

sat06 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/sat06a.xlsx")

head(sat06)

sat06$lifesat = factor(sat06$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat06s <- crosstab\_3way(df = sat06, x = eclass\_2, y = lifesat, z = gender, weight = wgt, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass\_2, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

sat06s

ggsave("sat06s.jpeg", plot = sat06s)

#wtd.chi.sq(sat06$rclass1, sat06$lifesat, weight=sat06$weight)

#cramer(rclass1 ~ lifesat, data = sat06, ci.lvl = .95, n = 1200)

##happiness

hap06 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hap06a.xlsx")

head(hap06)

hap06$happy = factor(hap06$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap06s <- crosstab\_3way(df = hap06, x = class, y = happy, z = gender, weight = weight, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = class, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2006)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

hap06s

ggsave("hap06s.jpeg", plot = hap06s)

#wtd.chi.sq(sat06$rclass1, sat06$lifesat, weight=sat06$weight)

#cramer(rclass1 ~ lifesat, data = sat06, ci.lvl = .95, n = 1200)

##2012

hapsat12 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat12a.xlsx")

head(hapsat12)

#lifesat

#re-order

hapsat12$lifesat = factor(hapsat12$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat12s <- crosstab\_3way(df = hapsat12, x = eclass, y = lifesat, z = gender, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you \nVERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

sat12s

ggsave("sat12s.jpeg", plot = sat12s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat12$happy = factor(hapsat12$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap12s <- crosstab\_3way(df = hapsat12, x = eclass, y = happy, z = gender, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2012)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

hap12s

ggsave("hap12s.jpeg", plot = hap12s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

##2013

hapsat13 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat13a.xlsx")

head(hapsat13)

#lifesat

#re-order

hapsat13$lifesat = factor(hapsat13$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat13s <- crosstab\_3way(df = hapsat13, x = eclass, y = lifesat, z = gender, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

sat13s

ggsave("sat13s.jpeg", plot = sat13s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat13$happy = factor(hapsat13$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap13s <- crosstab\_3way(df = hapsat13, x = eclass, y = happy, z = gender, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2013)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

hap13s

ggsave("hap13s.jpeg", plot = hap13s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#2015

hapsat15 <- read\_excel("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/SWS/hapsat15a.xlsx")

head(hapsat15)

#lifesat

#re-order

hapsat15$lifesat = factor(hapsat15$lifesat, levels = c("VERY SATISFIED", "FAIRLY SATISFIED", "NOT VERY SATISFIED", "NOT AT ALL SATISFIED", "DON'T KNOW"))

sat15s <- crosstab\_3way(df = hapsat15, x = eclass, y = lifesat, z = gender, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(lifesat, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "On the whole, are you VERY SATISFIED, FAIRLY SATISFIED, NOT VERY SATISFIED, or NOT AT ALL SATISFIED \nwith the life you lead? (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

sat15s

ggsave("sat15s.jpeg", plot = sat15s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)

#happiness

hapsat15$happy = factor(hapsat15$happy, levels = c("VERY HAPPY", "FAIRLY HAPPY", "NOT VERY HAPPY", "NOT AT ALL HAPPY", "DON'T KNOW"))

hap15s <- crosstab\_3way(df = hapsat15, x = eclass, y = happy, z = gender, weight = wgtpr, format = "long") %>% mutate(pct = pct) %>%

ggplot(aes(happy, pct, fill = eclass, label = round(pct, digits = 2))) +

geom\_bar(stat = "identity", position = "dodge") + geom\_text(position = position\_dodge(width = .9), vjust = -0.5, size = 1.5) +

theme(axis.text.x = element\_text(size = 8, angle=65, vjust=1, hjust=1), axis.title=element\_text(size=10, face=("bold"))) +

labs(title="", subtitle="", caption="Source: Social Weather Stations", x = "If you were to consider your life these days, how happy or unhappy would you say you are on the whole? \nAre you VERY HAPPY, FAIRLY HAPPY, NOT VERY HAPPY, or NOT AT ALL HAPPY? (2015)", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,100)) +

facet\_grid(rows = vars(gender))

hap15s

ggsave("hap15s.jpeg", plot = hap15s)

#wtd.chi.sq(hapsat03$rclass1, hapsat03$lifesat, weight=hapsat03$weight)

#cramer(rclass1 ~ lifesat, data = hapsat03, ci.lvl = .95, n = 1200)