#analysis of SWS dataset per area

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)

library(ggplot2)

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

head(exit98)

exit98a <- crosstab\_3way(df = exit98, x = eclass, y = presiden, z = area, 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 = 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 1998", y = "Percent", fill = "SES") + scale\_y\_continuous(limits = c(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

exit98a

ggsave("exit98a.jpeg", plot = exit98a)

##exit04

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

head(exit04)

##exit 2004 per area

exit04a <- crosstab\_3way(df = exit04, x = eclass, y = press, z = area, 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 = 5, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

exit04a

ggsave("exit04a.jpeg", plot = exit04a)

#exit2010

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

head(exit10)

exit10a <- crosstab\_3way(df = exit10, x = ECLASS, y = PRESS, z = area, 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 = 5, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

exit10a

ggsave("exit10a.jpeg", plot = exit10a)

##poverty and hunger

##2000

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

head(povhun00)

p00a <- 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p00a

ggsave("p00a.jpeg", plot = p00a)

##2003

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

head(povhun03)

p03a <- crosstab\_3way(df = povhun03, x = eclass\_1, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p03a

ggsave("p03a.jpeg", plot = p03a)

##2004

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

head(povhun04)

p04a <- crosstab\_3way(df = povhun04, x = eclass\_1, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p04a

ggsave("p04a.jpeg", plot = p04a)

##2006

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

head(povhun06)

p06a <- crosstab\_3way(df = povhun06, x = eclass, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p06a

ggsave("p06a.jpeg", plot = p06a)

##2009

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

head(povhun09)

p09a <- crosstab\_3way(df = povhun09, x = eclass, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p09a

ggsave("p09a.jpeg", plot = p09a)

##2010

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

head(povhun10)

p10a <- crosstab\_3way(df = povhun10, x = eclass, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p10a

ggsave("p10a.jpeg", plot = p10a)

##2012

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

head(povhun12)

p12a <- crosstab\_3way(df = povhun12, x = eclass, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p12a

ggsave("p12a.jpeg", plot = p12a)

##2013

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

head(povhun13)

p13a <- crosstab\_3way(df = povhun13, x = eclass, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p13a

ggsave("p13a.jpeg", plot = p13a)

###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)

p15a <- crosstab\_3way(df = povhun15, x = eclass, y = poverty, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

p15a

ggsave("p15a.jpeg", plot = p15a)

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

head(povhun00)

h00a <- crosstab\_3way(df = povhun00, x = ECLASS\_1, y = HUNGER\_1, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h00a

ggsave("h00a.jpeg", plot = h00a)

##2003

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

head(povhun03)

h03a <- crosstab\_3way(df = povhun03, x = eclass\_1, y = hunger\_1, z = area, 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 = 1, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h03a

ggsave("h03a.jpeg", plot = h03a)

##2004

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

head(povhun04)

h04a <- crosstab\_3way(df = povhun04, x = eclass\_1, y = hunger\_1, z = area, 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 = .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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h04a

ggsave("h04a.jpeg", plot = h04a)

##2006

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

head(povhun06)

h06a <- crosstab\_3way(df = povhun06, x = eclass, y = hunger\_1, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h06a

ggsave("h06a.jpeg", plot = h06a)

##2009

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

head(povhun09)

h09a <- crosstab\_3way(df = povhun09, x = eclass, y = hunger\_1, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h09a

ggsave("h09a.jpeg", plot = h09a)

##2010

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

head(povhun10)

h10a <- crosstab\_3way(df = povhun10, x = eclass, y = hunger\_1, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h10a

ggsave("h10a.jpeg", plot = h10a)

##2012

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

head(povhun12)

h12a <- crosstab\_3way(df = povhun12, x = eclass, y = hunger\_1, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h12a

ggsave("h12a.jpeg", plot = h12a)

##2013

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

head(povhun13)

h13a <- crosstab\_3way(df = povhun13, x = eclass, y = hunger\_1, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h13a

ggsave("h13a.jpeg", plot = h13a)

###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)

h15a <- crosstab\_3way(df = povhun15, x = eclass, y = hunger\_1, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

h15a

ggsave("h15a.jpeg", plot = h15a)

######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"))

sat03a <- crosstab\_3way(df = hapsat03, x = rclass1, y = lifesat, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

sat03a

ggsave("sat03a.jpeg", plot = sat03a)

#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"))

hap03a <- crosstab\_3way(df = hapsat03, x = rclass1, y = happy, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

hap03a

ggsave("hap03a.jpeg", plot = hap03a)

#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"))

sat06a <- crosstab\_3way(df = sat06, x = eclass\_2, y = lifesat, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

sat06a

ggsave("sat06a.jpeg", plot = sat06a)

#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"))

hap06a <- crosstab\_3way(df = hap06, x = class, y = happy, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

hap06a

ggsave("hap06a.jpeg", plot = hap06a)

#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"))

sat12a <- crosstab\_3way(df = hapsat12, x = eclass, y = lifesat, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

sat12a

ggsave("sat12a.jpeg", plot = sat12a)

#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"))

hap12a <- crosstab\_3way(df = hapsat12, x = eclass, y = happy, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

hap12a

ggsave("hap12a.jpeg", plot = hap12a)

#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"))

sat13a <- crosstab\_3way(df = hapsat13, x = eclass, y = lifesat, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

sat13a

ggsave("sat13a.jpeg", plot = sat13a)

#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"))

hap13a <- crosstab\_3way(df = hapsat13, x = eclass, y = happy, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

hap13a

ggsave("hap13a.jpeg", plot = hap13a)

#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"))

sat15a <- crosstab\_3way(df = hapsat15, x = eclass, y = lifesat, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

sat15a

ggsave("sat15a.jpeg", plot = sat15a)

#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"))

hap15a <- crosstab\_3way(df = hapsat15, x = eclass, y = happy, z = area, 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(0,110)) +

facet\_grid(rows = vars(area)) + theme(strip.text.y = element\_text(size = 5))

hap15a

ggsave("hap15a.jpeg", plot = hap15a)

#crosstabs

library(gmodels)

CrossTable(exit98$eclass, exit98$area, chisq = TRUE) #\*\*educ recoded