Choice Paper

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This paper expands Ngbede's thesis work to publish in Choice Magazine of AAEA.

1.1 Housekeeping

```
rm(list = ls()) # Clean the environment.
options(warn=-1) # Supress warnings. options(warn=0) to bring it back.
```

1.2 Load libraries

```
# Modify as necesary:
options(tigris_use_cache = TRUE)
library(ggplot2, warn.conflicts = FALSE, quietly = TRUE)
library(dplyr, warn.conflicts = FALSE, quietly = TRUE)
library(tidyverse, warn.conflicts = FALSE, quietly = TRUE)
```

```
-- Attaching core tidyverse packages ------------------------ tidyverse 2.0.0 --
v forcats   1.0.0     v stringr   1.5.1
v lubridate 1.9.3     v tibble    3.2.1
v purrr     1.0.2     v tidyr     1.3.1
v readr     2.1.5
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to becor
```

```
library(tigris, warn.conflicts = FALSE, quietly = TRUE)
```

```
To enable caching of data, set `options(tigris_use_cache = TRUE)`
in your R script or .Rprofile.
```

```
library(sf, warn.conflicts = FALSE, quietly = TRUE)
```

```
Linking to GEOS 3.12.1, GDAL 3.8.5, PROJ 9.4.0; sf_use_s2() is TRUE
```

```
library(GJRM, warn.conflicts = FALSE, quietly = TRUE) #bivariate probit
```

```
Attaching package: 'nlme'

The following object is masked from 'package:dplyr':

    collapse

This is mgcv 1.8-42. For overview type 'help("mgcv-package")'.

This is GJRM 0.2-6.5.
For overview type 'help("GJRM-package")'.
```

```
library(psych, warn.conflicts = FALSE, quietly = TRUE)
library(likert,  warn.conflicts = FALSE, quietly = TRUE) #likert scale plot
library(mice,  warn.conflicts = FALSE, quietly = TRUE) #likert scale plot
library(gmodels,  warn.conflicts = FALSE, quietly = TRUE)
```

1.3 Import Data

import necessary data.

```
# Modify Code.
#Survey data with zipcode:
# surveydata = read.csv("SurveyWZip.csv") %>%
#   dplyr::mutate(countyname = tolower(OrgCOUNTY))
# names(surveydata) <- tolower(names(surveydata))
# #setNames(swzip, tolower(names(swzip))) #Prints df. Not Preferred.
# surveydata[45:54][is.na(surveydata[45:54])] <- 0
```

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