tables_c1c2.R

datalab

2023-06-16

```
############################################################
####### Summary Statistics of the Dependent Variables  ####
##################       Appendix (C1-C2)        #############
###############      October 10, 2018     ##################
#########  Checked December 16, 2022 ###############


rm(list=ls())
library(foreign)
library(plyr)
library(stargazer)
library(ggplot2)


data=read.csv("~/Dropbox/Personal Research 2017/replications/karn_nov16.csv")
names(data)
```

```
##   [1] "X.1"              "dist_name"        "vilname91"        "v1"
##   [5] "dist_code"        "thsil_code"       "block_code"       "vill_code"
##   [9] "loc_code"         "area"             "h_cntr"           "mcw_cntr"
##  [13] "mh_cntr"          "cwc_cntr"         "phc_cntr"         "hc_cntr"
##  [17] "fpc_cntr"         "tb_cntr"          "nh_cntr"          "chw_cntr"
##  [21] "rp_cntr"          "smp_cntr"         "oth_cntr"         "well"
##  [25] "canal"            "loc_town"         "st_code"          "talu_code"
##  [29] "st_town"          "agri_land"        "near_town"        "circl_code"
##  [33] "m_pop"            "f_pop"            "village_name"     "st_name"
##  [37] "subdist_n"        "cdblock_c"        "cdblock_n"        "neastt_n"
##  [41] "neastt_d"         "tot_sc"           "m_sc"             "f_sc"
##  [45] "tot_st"           "m_st"             "f_st"             "com_hctr"
##  [49] "hosall"           "hosalt"           "dispens"          "vethosp"
##  [53] "mobclin"          "famwel"           "ngmf_op"          "ngmf_iop"
##  [57] "ngmf_char"        "ngmfprwmedd"      "ngmfprwothd"      "ngmfprwnod"
##  [61] "ngmftrpr"         "ngmfmedshop"      "ngmfoth"          "nonagrarea"
##  [65] "permpastr"        "fallland"         "curfalland"       "netarea"
##  [69] "roadall"          "fp"               "taptr"            "tapuntr"
##  [73] "hp"               "covwell"          "uncovwell"        "tw"
##  [77] "power_binary"     "mchhc"            "prhc"             "primsch"
##  [81] "midsch"           "secsch"           "sensecsch"        "disp"
##  [85] "phs_cntr"         "prhsc"            "stname"           "stname1991"
##  [89] "d_name"           "distname91"       "year"             "primary_binary"
##  [93] "middle_binary"    "totalhealth"      "health_binary"    "high_binary"
##  [97] "tap_binary"       "all_disp"         "all_hosp"         "area_na_cu"
## [101] "ayu_disp"         "ayu_hosp"         "canal_govt"       "canal_pvt"
```

```
## [105] "college"           "crsoc_fac"         "dist_town"         "edu_fac"
## [109] "fwc_cntr"          "handpump"          "hom_disp"          "hom_hosp"
## [113] "ind_sch"           "lake"              "m_home"            "m_sch"
## [117] "nw_fac"            "n_home"            "other"             "other_soc"
## [121] "oth_sch"           "phs_cnt"           "ph_cntr"           "power_agr"
## [125] "power_all"         "power_dom"         "power_oth"         "power_supl"
## [129] "p_sch"             "p_t_fac"           "rang_mcw"          "rang_m_sch"
## [133] "rang_nac"          "rang_nw"           "rang_oth"          "rang_phc"
## [137] "rang_p_sch"        "rang_spcl"         "sou_summ"          "sp_cl_fac"
## [141] "s_sch"             "s_s_sch"           "tot_exp"           "tot_inc"
## [145] "tr_sch"            "tubewell"          "un_disp"           "un_hosp"
## [149] "lost"              "st_c"              "dist_c"            "subdist_c"
## [153] "vill_c"            "gp_n"              "gov_ps_n"          "pr_ps_n"
## [157] "gov_ms_n"          "pr_ms_n"           "gov_secs_n"        "pr_secs_n"
## [161] "gov_sens_n"        "pr_sens_n"         "gov_oth_n"         "pr_oth_n"
## [165] "prim_hctr"         "prim_hsubctr"      "macwf"             "nviltms"
## [169] "nviltmsna"         "nviltsecs"         "nviltsecsna"       "power"
## [173] "hplost"            "lostmandi"         "lostdata2011"      "disp_cntr"
## [177] "eudu_inst"         "gr_coll"           "hand_pump"         "h_sch"
## [181] "oth_fac"           "ph_fac"            "pnt_fac"           "power_ea"
## [185] "power_eag"         "power_edea"        "power_eo"          "pu_coll"
## [189] "state_code"        "state_name"        "tube_well"         "thsil_name"
## [193] "vill_name"         "lost91"            "lost01"            "vn91"
## [197] "medfac"            "rangmed"           "tot_hh"            "pucca_binary"
## [201] "kucha_binary"      "tot_pop"           "uncult"            "tot_irr"
## [205] "cultwaste"         "tot_unir"          "land_forest"       "drink_wat"
## [209] "rang_water"        "river"             "dist_fr_town"      "tbcl"
## [213] "tank"              "tap"               "X"                 "VILLAGE_ID"
## [217] "NAME"              "SUB_DISTRI"        "DISTRICT"          "STATE_UT"
## [221] "C_CODE01"          "LEVEL"             "TOT_NM_HH"         "TOT_POP"
## [225] "M_POP"             "F_POP"             "TOT_L6"            "M_L6"
## [229] "F_L6"              "TOT_SC"            "M_SC"              "F_SC"
## [233] "TOT_ST"            "M_ST"              "F_ST"              "TOT_LIT"
## [237] "M_LIT"             "F_LIT"             "TOT_ILLT"          "M_ILLT"
## [241] "F_ILLT"            "TOT_W"             "M_W"               "F_W"
## [245] "TOT_MNW"           "M_MNW"             "F_MNW"             "TOT_CULT"
## [249] "M_CULT"            "F_CULT"            "TOT_AGLB"          "M_AGLB"
## [253] "F_AGLB"            "TOT_MFHH"          "M_MFHH"            "F_MFHH"
## [257] "TOT_OTH_W"         "M_OTH_W"           "F_OTH_W"           "TOT_MRW"
## [261] "M_MRW"             "F_MRW"             "T_MRG_CULT"        "M_MRG_CULT"
## [265] "F_MRG_CULT"        "T_MRG_AGLB"        "M_MRG_AGLB"        "F_MRG_AGLB"
## [269] "T_MRG_HH"          "M_MRG_HH"          "F_MRG_HH"          "T_MRG_OTH"
## [273] "M_MRG_OTH"         "F_MRG_OTH"         "TOT_NNW"           "M_NNW"
## [277] "F_NNW"             "Latitude"          "Longitude"         "NEAR_FID_border1"
## [281] "NEAR_DIST_border1" "NEAR_ANGLE"        "temp_av"           "wc2010mt_1"
## [285] "TerrainRug"        "Slope"             "border1"           "NEAR_FID_border2"
## [289] "NEAR_DIST_border2" "border2"
```

```
summary(data$Latitude)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   13.49   14.28   14.96   15.25   16.21   17.75     138
```

```r
summary(data$Longitude)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   74.12   75.26   75.89   75.90   76.48   77.67     138
```

```r
summary(data$border1)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   0.000   0.000   1.000   0.599   1.000   1.000    5146
```

```r
summary(data$border2)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   0.000   0.000   1.000   0.569   1.000   1.000    6425
```

```r
summary(data$Slope)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##    0.00   89.98   89.99   87.69   89.99   90.00     138
```

```r
########################
##### Distances #####

#Distance to Mysore-Bombay Border
rd10.mb=data[which(data$NEAR_DIST_border1<10000),] #20 km


table(rd10.mb$border1)
```

```
##
##   0   1
## 559 599
```

```r
#Distance to Hyderabad-Bombay Border
rd10.hb=data[which(data$NEAR_DIST_border2<10000),] #20 km

table(rd10.hb$border2)
```

```
##
##   0   1
## 447 493
```

```r
########################################
##### Tables B1-B2 Descriptive Stats ########
####### Dependent Variable #############

#baseline bandwidth (20km)
#summary of the dependent variable

#Mys-Bom
dv1=as.data.frame(cbind(rd10.mb$health_binary,
                        rd10.mb$pucca_binary))
colnames(dv1)=c("Health Centers",
                "Paved Roads")
summary(dv1)
```

```
##  Health Centers    Paved Roads
##  Min.   :0.0000   Min.   :0.0000
##  1st Qu.:0.0000   1st Qu.:1.0000
```

```
##  Median :0.0000   Median :1.0000
##  Mean   :0.2314   Mean   :0.8446
##  3rd Qu.:0.0000   3rd Qu.:1.0000
##  Max.   :1.0000   Max.   :1.0000
```

```
stargazer(dv1)
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Fri, Jun 16, 2023 - 14:35:58
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lccccccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## Statistic & \multicolumn{1}{c}{N} & \multicolumn{1}{c}{Mean} & \multicolumn{1}{c}{St. Dev.} & \multi
## \hline \\[-1.8ex]
## Health Centers & 1,158 & 0.231 & 0.422 & 0 & 0 & 0 & 1 \\
## Paved Roads & 1,158 & 0.845 & 0.362 & 0 & 1 & 1 & 1 \\
## \hline \\[-1.8ex]
## \end{tabular}
## \end{table}
```

```
#Hyd-Bom
dv2=as.data.frame(cbind(rd10.hb$health_binary,
                        rd10.hb$pucca_binary))
colnames(dv2)=c("Health Centers",
                "Paved Roads")
summary(dv2)
```

```
##  Health Centers    Paved Roads
##  Min.   :0.0000   Min.   :0.0000
##  1st Qu.:0.0000   1st Qu.:1.0000
##  Median :0.0000   Median :1.0000
##  Mean   :0.2798   Mean   :0.8777
##  3rd Qu.:1.0000   3rd Qu.:1.0000
##  Max.   :1.0000   Max.   :1.0000
```

```
stargazer(dv2)
```

```
##
## % Table created by stargazer v.5.2.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harva
## % Date and time: Fri, Jun 16, 2023 - 14:35:59
## \begin{table}[!htbp] \centering
##   \caption{}
##   \label{}
## \begin{tabular}{@{\extracolsep{5pt}}lccccccc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## Statistic & \multicolumn{1}{c}{N} & \multicolumn{1}{c}{Mean} & \multicolumn{1}{c}{St. Dev.} & \multi
## \hline \\[-1.8ex]
## Health Centers & 940 & 0.280 & 0.449 & 0 & 0 & 1 & 1 \\
## Paved Roads & 940 & 0.878 & 0.328 & 0 & 1 & 1 & 1 \\
## \hline \\[-1.8ex]
## \end{tabular}
```

```
## \end{table}
```