Legal ID - Multicountry Comparison

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1. Prepare IPUMS Data

```
# Load latest IPUMS Census Data for Ecuador, Pakistan, Peru, and Zambia
multi_ipums <- read_dta("ipumsi_00009 2.dta")</pre>
```

```
# Subset population to samples with legal ID age and above
ipums_legal_age <-
 multi ipums %>%
 filter((country == 218 & age > 16) |
          (country == 586 & age > 17) |
          (country == 604 & age > 17)
          (country == 894 & age > 15)) %>%
 # Set variables as.factor()
 "pk1998a_relig", "pk1998a_idcard", "pe2007a_idcard",
                    "pe2007a_religion", "zm2010a_relig", "ethniczm",
                    "zm2010a_nidcard"), ~as.factor(.))%>%
 # Recode countries
 mutate(country = recode(country, "218" = "ecuador",
                        "586" = "pakistan",
                        "604" = "peru",
                        "894" = "zambia"),
        edattain = recode(edattain, "0" = "NIU",
                         "1" = "Less than primary",
                         "2" = "Primary",
                         "3" = "Secondary",
                         "4" = "Post-secondary",
                         "9" = "Unknown"),
        ethniczm = recode(ethniczm,
                         "4" = "Bisa",
                         "18" = "Luano"
                         "34" = "Luyana",
                         "42" = "Mashi",
                         "61" = "Yombe".
                         "68" = "Other",
                         "99" = "Unspecified",
```

```
"67" = "European",
                  "66" = "Asian",
                  "65" = "American",
                  "64" = "Other African"),
 ethnicec = recode(ethnicec,
                  "1" = "Achuar",
                  "2" = "Awa",
                  "3" = "Cofan",
                  "4" = "Chachi".
                  "7" = "Siona",
                  "9" = "Zapara",
                  "18" = "Quitu",
                  "31" = "Epera",
                  "33" = "Andoa",
                  "36" = "Pastos",
                  "37" = "Tomabela",
                  "34" = "Pastos"),
zm2010a_relig = recode(zm2010a_relig, "4" = "Hindu", "3" = "Muslim"),
pk1998a_relig = recode(pk1998a_relig, "3" = "Hindu", "5" = "Scheduled Caste"),
sex = recode(sex, "1" = "Male", "2" = "Female"),
age2 = recode(age2, "4"="15-19",
              "12" = "20-24",
              "13" = "25-29",
              "14" = "30-34".
              "15" = "35-39"
              "16" = "40-44",
              "17" = "45-49"
              "18" = "50-54".
              "19" = "55-59",
              "20" = "60-64"
              "21" = "65-69",
              "22" = "70-74",
              "23" = "75-79",
              "24" = "80+".
              "25" = "85+"),
geolev1 = recode(geolev1, "586005" = "Baluchistan",
                 "218006" = "Chimborazo",
                 "604007" = "Callao",
                 "604018" = "Moquegua")
```

```
# Create function to summarise Legal ID ownership by subpopulations
subpop_summary <- function(data) {

# Set CI alpha (95% level) - (1-alpha/2)*100%
alpha = 0.05

# Calculate the critical z-score
z = qnorm(1-alpha/2)

data_imp <-
data %>%
gather(-c(country, id, ), key = "type", value = "subpop") %>%
```

```
group_by(country, type, subpop, id) %>%
  # Number of ID possession by Subgroups, weighted (Person Weight = 10)
  summarise(n_id=(n()*10)) %>%
  mutate (prop_id = n_id/sum(n_id)) %>%
  mutate (total_subpop = sum(n_id)) %>%
  # Standard Error
  mutate (Std_Err = z*sqrt(prop_id*(1-prop_id)/total_subpop)) %>%
  # Confidence Intervals
  mutate (Lower_CI = prop_id + (-1)*Std_Err) %>%
  mutate (Upper_CI = prop_id + 1*Std_Err) %>%
  filter(id == "yes") %>%
  select(-id)
 # Range
  Range <- max(data_imp$prop_id)-min(data_imp$prop_id)</pre>
  data_imp <- cbind(data_imp, Range)</pre>
 data_imp <- rename(data_imp, "Range" = "...10")</pre>
 return(data_imp)
# Ecuador Legal ID by Education, Ethnicity, Race, and Urban/Rural
coord_ecuador <- runif(44, 0.5, 1.3)</pre>
ecuador <-
  ipums_legal_age %>%
  subset(country == "ecuador",
         select = c(country, geolev1, sex, age2, edattain,
                    ec2010a citcard, ec2010a race)) %>%
  mutate(ec2010a_citcard = recode(ec2010a_citcard, "1" = "yes", "2" = "no")) %>%
  rename_at (.vars = c("ec2010a_race", "ec2010a_citcard"),
             ~c("race", "id")) %>%
  subpop_summary() %>%
  cbind(., coord_ecuador) %>%
  rename(coord = "...11") %>%
  mutate(subpop = recode(subpop, "3" = "Black"))
## Warning: attributes are not identical across measure variables;
## they will be dropped
## `summarise()` regrouping output by 'country', 'type', 'subpop' (override with `.groups` argument)
## New names:
## * NA -> ...10
## New names:
## * NA -> ...11
```

Table 1: Legal ID Possession by Subpopulations

country type	subpop	n_id prop_id total_subp &p d_Err Lower_C	TUpper_CRange coord
ecuador age2	15-19	779270 0.9255868 841920 0.000560@.925026	2 0.926147 3 0.074413 2 0.5967049
ecuador age2	20-24	12650300.98173931288560 0.00023120.9815083	1 0.981970 5 0.074413 2 0.6456062
ecuador age2	25-29	11877100.98726551203030 0.00020040.987065	10.98746590.07441320.6122436
ecuador age2	30-34	10556700.98950201066870 0.00019340.9893086	30.98969540.07441320.8606575
ecuador age2	35-39	932950 0.9905295 941870 0.00019560.9903339	90.99072510.074413 2 1.2081918
ecuador age2	40-44	811760 0.9905915 819470 0.000209@.9903829	5 0.990800 5 0.074413 2 0.5510471
ecuador age2	45-49	746170 0.9908507 753060 0.000215@.990635@	3 0.991065 7 0.074413 2 1.2491239
ecuador age2	50-54	602800 0.9908444 608370 0.00023930.9906053	10.991083 7 0.074413 2 1.1595913
ecuador age2	55-59	508760 0.9899788 513910 0.00027230.989706	5 0.990251 1 0.074413 2 0.9923463
ecuador age2	60-64	392160 0.9876842 397050 0.00034310.9873413	10.988027 2 0.074413 2 1.1337957
ecuador age2	65-69	318760 0.9869647 322970 0.00039120.9865736	30.98735590.07441320.8658178
ecuador age2	70-74	234020 0.9821219 238280 0.00053200.9815898	3 0.982653 3 0.074413 2 0.9480655
ecuador age2	75-79	161830 0.9834701 164550 0.000616@.9828540	<u> 0</u> 0.98408610.074413 2 0.5004945
ecuador age2	80+	113430 0.9799568 115750 0.00080740.9791494	4 0.980764 2 0.074413 2 0.8150164
ecuador age2	85+	91410 0.9665856 94570 0.00114540.9654402	2 0.967731 0 0.074413 2 1.0482614
ecuador edattair	Less than	17954700.96479811860980 0.00026480.9645333	30.96506290.07441320.6394571
	primary		
ecuador edattair	n Post-	761520 1.0000000 761520 0.00000001.0000000	01.00000000.07441321.0149558
	secondary		
ecuador edattair	n Primary	36166600.97909253693890 0.00014590.9789466	30.97923849.07441320.5119528
ecuador edattair	n Secondary	27312800.99606862742060 0.00007410.9959946	3 0.996142 7 0.074413 2 0.7888524
ecuador edattair	ı Unknown	296800 0.9519533 311780 0.00075070.9512020	3 0.952704 0 0.074413 2 0.5833634
ecuador geolev1	218001	456530 0.9830111 464420 0.00037170.9826394	40.983382 7 0.074413 2 0.7928891
ecuador geolev1	218002	110860 0.9768262 113490 0.00087530.9759508	3 0.977701 5 0.074413 2 0.6598846
ecuador geolev1	218004	101940 0.9477501 107560 0.00132990.9464203	2 0.949080 0 .074413 2 .2393140
ecuador geolev1	218005	249100 0.9826818 253490 0.00050780.9821739	30 .983189 6 0.074413 2 0.9023995
ecuador geolev1	218007	387930 0.9825988 394800 0.00040790.9821909	3 0.983006 7 0.074413 2 0.7739131
ecuador geolev1	218009	63248500.98257586437010 0.00010110.982474	7 0.982676 8 0.074413 2 1.1365450
ecuador geolev1	218010	252570 0.9822276 257140 0.00051070.9817169	90.98273830.07441321.0349533
ecuador geolev1	218011	282980 0.9813428 288360 0.00049390.9808489	9 0.981836 6 0.074413 2 0.6078435
ecuador geolev1	218014	75300 0.9709865 77550 0.00118130.9698053	10.97216780.074413 2 0.9527406
ecuador geolev1	218016	47200 0.9837432 47980 0.001131@.9826113	7 0.984874 8 0.074413 2 1.1104156
ecuador geolev1	218018	339130 0.9895539 342710 0.00034040.989213	5 0.989894 2 0.074413 2 0.9545477
ecuador geolev1	218019	50910 0.9790385 52000 0.00123130.9778072	2 0.980269 7 0.074413 2 0.5346340
ecuador geolev1	218021	229820 0.9624356 238790 0.00076260.9616730	0.963198 $20.074413 $ 21.1662686
ecuador geolev1	Chimborazo	292610 0.9921337 294930 0.00031880.9918149	30 .992452 6 0.074413 2 0.5044102
ecuador race	1	577870 0.9752093 592560 0.00039590.9748134	4 0.975605 2 0.074413 2 0.5268060
ecuador race	2	376740 0.9706542 388130 0.000531@.9701233	2 0.971185 1 0.074413 2 0.6004743
ecuador race	Black	87550 0.9366642 93470 0.00156150.935102	7 0.938225 6 0.074413 2 0.6464922
ecuador race	4	169650 0.9674936 175350 0.000830@.9666638	5 0.968323 6 0.074413 2 0.8836994
ecuador race	5	713180 0.9781246 729130 0.00033580.9777889	30.97846040.07441320.9770122
ecuador race	6	66687900.98507936769800 0.00009130.9849880	10 .985170 10 .074413 20 .8347690
ecuador race	7	572530 0.9788009 584930 0.00036910.9784317	7 0.979170 0 0.074413 2 0.6509509
ecuador race	8	35420 0.9609333 36860 0.001978@.958955	3 0.962911 2 0.074413 2 0.8177613
ecuador sex	Female	47084200.98347994787510 0.00011420.9833658	3 0.98359410.074413 2 1.2903603
ecuador sex	Male	44933100.98048984582720 0.00012660.9803633	10.98061640.074413 2 1.0944005

```
# Pakistan Legal ID by Education, Religion, and Urban/Rural
pakistan <-
  ipums_legal_age %>%
  subset(country == "pakistan",
         select = c(country, geolev1, sex, age2, edattain, pk1998a_relig, pk1998a_idcard)) %>%
  mutate(pk1998a_idcard = recode(pk1998a_idcard, "1" = "yes", "2" = "no",
                                 "8" = "unknown", "9" = "niu")) %>% # There are NIU IDs in Pakistan des
  rename_at (.vars = c("pk1998a_idcard", "pk1998a_relig"),
             ~c("id", "religion") ) %>%
  subpop_summary()%>%
  cbind(., runif(32, 4.7, 5.3)) %>%
  rename(coord = "...11")
## Warning: attributes are not identical across measure variables;
## they will be dropped
## `summarise()` regrouping output by 'country', 'type', 'subpop' (override with `.groups` argument)
## New names:
## * NA -> ...10
## New names:
## * NA -> ...11
pakistan %>%
 kable(format = "pipe", caption = "Legal ID Possession by Subpopulations")
```

Table 2: Legal ID Possession by Subpopulations

country type	subpop	n_id	prop_	_id total_	_subp	Sp d_	Err Lower	_CUpper_	_CRange	coord
pakistan age2	15-19	807690	0.122	75116579	900	0.000	25070.1225	5004).1230	0180.80789	845.250194
pakistan age2	20-24	4403200	0.3744	468911758	3520	0.000	27660.3741	9230.3747	4550.80789	844.878698
pakistan age2	25-29	5651930	0.5838	83859680	640	0.000	31050.5835	52800.5841	4900.80789	844.941686
pakistan age2	30-34	5721280	0.7008	85558163	280	0.000	31410.7005	64140.7011	6960.80789	844.864712
pakistan age2	35-39	4788120	0.7655	53826254	580	0.000	33200.7652	20620.7658	7020.80789	845.031570
pakistan age2	40-44	4877460	0.838	19565819	000	0.000	29920.8378	39630.8384	9480.80789	844.835173
pakistan age2	45-49	4046660	0.8776	69574610	550	0.000	29910.8773	39670.8779	9480.80789	844.829169
pakistan age2	50-54	3690580	0.880	11564193	290	0.000	31090.8798	30470.8804	2650.80789	844.721070
pakistan age2	55-59	2537350	0.9052	27822802	840	0.000	34280.9049	3540.9056	2100.80789	845.068662
pakistan age2	60-64	2337470	0.8740	05262674	290	0.000	39770.8736	55490.8744	5020.80789	845.202524
pakistan age2	65-69	1411310	0.8975	58011572	350	0.000	47390.8971	0610.8980	5400.80789	845.102901
pakistan age2	70-74	1226290	0.8569	94621431	000	0.000	57370.8563	37250.8575	1990.80789	845.217880
pakistan age2	75-79	509380	0.8788	8323 579	610	0.000	84010.8779	9220.8796	7240.80789	845.091288
pakistan age2	80+	477540	0.8048	8608 593	320	0.001	00840.8038	35240.8058	6920.80789	845.107677
pakistan age2	85+	322090	0.7904	4437 407	480	0.001	24960.7891	9410.7916	9330.80789	844.942650
pakistan edattain	Less than	26290590	00.5962	246344093	3510	0.000	14480.5961	0140.5963	9110.80789	845.035534
	primary									
pakistan edattain	Post-	2198920	0.9300	64952362	780	0.000	32390.9303	32560.9309	7340.80789	844.727057
	secondary									
pakistan edattain	Primary	12170870	00.6809	916017874	1260	0.000	21610.6806	69990.6811	3210.80789	845.206252

```
pakistan edattain Secondary
                                2058570 \ 0.77480442656890
                                                            0.00050230.77430210.77530660.80789845.148806
pakistan edattain Unknown
                                        0.6711208 \ 133210
                                                            0.0025229.6685979.67364370.807898 \pm .012330
                                89400
pakistan geolev1 586001
                                                            0.00032140.62946190.63010460.80789844.787196
                                5462060 0.62978338672920
pakistan geolev1
                  586003
                                253600100.648338739115370
                                                            0.00014960.64818910.64848840.80789845.282214
pakistan geolev1
                  586004
                                102852700.640280316063700
                                                            0.00023470.64004560.64051490.80789844.983045
pakistan geolev1
                  Baluchistan
                                1701010 0.52039983268660
                                                            0.00054160.51985820.52094140.80789845.099534
pakistan religion
                                413441200.639547764645870
                                                            0.00011700.63943070.63966480.80789845.000746
pakistan religion 2
                                693290 \quad 0.63672931088830
                                                            0.00090340.63582600.63763270.80789844.845817
pakistan religion 4
                                111040 \quad 0.7109290 \quad 156190
                                                            0.00224820.70868080.71317720.80789844.898153
pakistan religion 6
                                29950
                                        0.5605465 \quad 53430
                                                            0.00420840.55633810.56475490.80789845.036797
pakistan religion
                 Hindu
                                545370 \quad 0.53435171020620
                                                            0.00096770.53338390.53531940.80789845.007551
pakistan religion Scheduled
                                84580
                                        0.5431893 \ 155710
                                                            0.00247420.54071510.54566350.80789845.258038
                  Caste
pakistan sex
                  Female
                                171036500.529585932296270
                                                            0.00017210.52941380.52975810.80789845.176194
pakistan sex
                  Male
                                257047000.738123734824380
                                                            0.000146 \\ 0.7379777 \\ 0.7382697 \\ 0.8078984 \\ 0.973777
# Peru Legal ID by Education, Religion, and Urban/Rural
peru <-
  ipums_legal_age %>%
  subset(country == "peru",
          select = c(country, geolev1, sex, age2, edattain, pe2007a_idcard, pe2007a_religion)) %>%
  mutate(pe2007a_idcard = recode(pe2007a_idcard, "1" = "yes", "2" = "no", "9" = "niu")) %>%
  rename_at (.vars = c("pe2007a_idcard", "pe2007a_religion"),
              ~c("id", "religion") ) %>%
  subpop_summary() %>%
```

prop_id_total_subp&pd_Err Lower_CUpper_CRange

subpop

n id

country type

```
subpop_summary() % %
cbind(., runif(50, 1.7, 2.3)) % > %
rename(coord = "...11")

## Warning: attributes are not identical across measure variables;
## they will be dropped

## `summarise()` regrouping output by 'country', 'type', 'subpop' (override with `.groups` argument)

## New names:
## * NA -> ...10

## New names:
## * NA -> ...11
```

```
peru %>%
  kable(format = "pipe", caption = "Legal ID Possession by Subpopulations")
```

Table 3: Legal ID Possession by Subpopulations

-						
countr	ry type	subpop	n_id	prop_id total_subp	Spd_Err Lower_CUpper_CRange	coord
peru	age2	15-19	917210	0.85078101078080	0.000672 0.850108 40.851453 40.16830	572.135483
peru	age2	20-24	2452740	0.96467722542550	0.00022690.96445030.96490410.16830	571.801400
peru	age2	25-29	2256850	0.97919132304810 (0.00018430.97900710.97937560.16830	572.137607
peru	age2	30-34	2044530	0.98591912073730	0.00016049.98575879.98607959.16830	572.191682

country	type	subpop	n_id	prop_id total_subj	pSpd_Err Lower_CUpper_CRange coord
peru	age2	35-39	1854670	0.98615421880710	$0.000167 \\ 0.985987 \\ 20.986321 \\ 20.1683057 \\ 2.222323$
peru	age2	40-44		0.98698231653130	$0.000172 \\ 30.986809 \\ 50.987155 \\ 10.168305 \\ 72.294979$
peru	age2	45-49		0.98677281374440	$0.000191 \\ 0.986581 \\ 80.986963 \\ 80.168305 \\ 72.092374$
peru	age2	50-54		0.98445021152430	0.00022599.98422440.98467610.16830572.113520
peru	age2	55-59	868420	$0.9810882\ 885160$	$0.000283 \\ 30.980804 \\ 40.981371 \\ 90.168305 \\ 72.076329$
peru	age2	60-64	710200	0.9711340 731310	0.00038370.97075030.97151770.16830571.953366
peru	age2	65-69	557820	$0.9629041 \ 579310$	$0.0004867 0.9624175 0.963390 \\ 30.1683057 \\ 2.032287$
peru	age2	70-74	427140	$0.9447283 \ 452130$	$0.0006661 0.944062 \\ 20.945394 \\ 40.1683057 \\ 1.853211$
peru	age2	75-79	317610	$0.9266521 \ 342750$	$0.000872 \\ 30.925779 \\ 30.927524 \\ 90.168305 \\ 71.906042$
peru	age2	80+	180000	$0.8968163\ 200710$	$0.00133080.895485 \\ 50.898147 \\ 10.168305 \\ 71.948101$
peru	age2	85+	153900	$0.8275528\ 185970$	0.00171690.82583590.82926980.16830571.738549
peru	edattain	Less than	4286420	0.93403564589140	0.00022710.93380850.93426270.16830571.710991
		primary			
peru	edattain	Post-	1861160	0.99585851868900	$0.0000921 \\ 0.9957665 \\ 0.9959506 \\ 0.1683057 \\ 2.097081$
		secondary			
peru	edattain	Primary	2963280	0.95161453113950	$0.000238 \\ 30.951376 \\ 20.951852 \\ 30.168305 \\ 71.740565$
peru	edattain	Secondary	7752610	0.98568137865230	$0.000083 \\ 0.985598 \\ 30.985764 \\ 30.168305 \\ 72.291096$
peru	geolev1	604001	189700	$0.9090909 \ 208670$	$0.0012335 0.907857 \\ 40.910324 \\ 40.1683057 \\ 2.129073$
peru	geolev1	604002	633820	$0.9658504\ 656230$	$0.00043940.965411 \\ 0.966289 \\ 80.168305 \\ 72.240801$
peru	geolev1	604003	220210	$0.9724872\ 226440$	0.00067370.97181350.97316090.16830571.983519
peru	geolev1	604004	764590	0.9799044 780270	$0.000311 \\ 40.979593 \\ 00.980215 \\ 80.168305 \\ 72.276642$
peru	geolev1	604005	341680	$0.9738357\ 350860$	$0.000528 \\ 20.973307 \\ 50.974363 \\ 90.168305 \\ 72.269842$
peru	geolev1	604006	758280	$0.9416118\ 805300$	$0.0005121 \\ 0.9410997 \\ 0.9421239 \\ 0.1683057 \\ 2.004619$
peru	geolev1	604008	673390	$0.9664313\ 696780$	$0.0004229.9660084 0.966854 \\ 20.1683057 1.801762$
peru	geolev1	604009	237700	0.9684648 245440	$0.00069140.96777340.969156 \\ 20.168305 \\ 72.248433$
peru	geolev1	604010	398880	0.9423104 423300	$0.00070240.941608 \\ 0.943012 \\ 0.168305 \\ 7.164512$
peru	geolev1	604011	451780	0.9814050 460340	$0.0003902 \\ 0.981014 \\ 0.981795 \\ 3 \\ 0.1683057 \\ 1.738849$
peru	geolev1	604012	723010	0.9593573 753640	$0.000445 \\ 20.958911 \\ 40.959803 \\ 10.168305 \\ 72.261640$
peru	geolev1	604013	982240	0.96071991022400	$0.0003765 \\ 0.960343 \\ 30.9610964 \\ 0.1683057 \\ 2.131258$
peru	geolev1	604014	678190	0.9661101 701980	$0.0004233 \\ 0.9656869 \\ 0.9665334 \\ 0.1683057 \\ 0.772458$
peru	geolev1	604015	5767360	0.98024175883610	0.0001125 0.9801293 0.9803542 0.1683057 0.959269
peru	geolev1	604016	444560	$0.9152598\ 485720$	$0.000783 \\ 20.914476 \\ 40.916043 \\ 40.168305 \\ 72.286839$
peru	geolev1	604017	65050	0.9415255 69090	$0.001749 \\ 0.939775 \\ 90.943275 \\ 10.168305 \\ 72.018880$
peru	geolev1	604019	164470	0.9671292 170060	$0.00084740.966281 \\ \$0.96797670.16830571.839170$
peru	geolev1	604020	967510	0.95142151016910	$0.000417 \\ 0.951003 \\ 0.951839 \\ 0.1683057 \\ .943694$
peru	geolev1	604021	762110	$0.9776281 \ 779550$	$0.000328 \\ 30.977299 \\ 80.977956 \\ 40.168305 \\ 71.982882$
peru	geolev1	604022	403840	0.9364840 431230	0.00072799.93575610.93721199.16830572.273465
peru	geolev1	604023	189980	0.9838426 193100	0.00056230.98328020.98440490.16830572.047081
peru	geolev1	604024	123300	0.9600561 128430	$0.001071 \\ 0.958985 \\ 10.961127 \\ 10.1683057 \\ 2.262361$
peru	geolev1	604025	226230	0.9333306 242390	0.00099310.93233750.93432360.16830571.993609
peru	geolev1	Callao	584860	0.9855253 593450	0.00030390.98522140.98582920.16830572.142773
peru	geolev1	Moquegua	110730	0.9883960 112030	0.00062710.98776880.98902310.16830571.799231
peru	_	1		00.969240314222510	0.00008970.969150@.969330@.16830571.783756
peru	religion			0.96035492150330	0.00026080.96009410.96061570.16830571.906035
peru	religion		548250	0.9657560 567690	0.00047310.96528290.96622900.16830572.046300
peru	religion	4	465110	0.9364191 496690	0.000678@.935740@.93709770.16830571.896815
peru	sex	Female		0.96372328867380	0.00012310.96360020.96384630.16830572.029180
roru		Male		0.97058648569840	0.00011310.97047330.97069950.16830571.833105

```
# Zambia Legal ID by Education, Ethnicity, and Religion
zambia <-
ipums_legal_age %>%
```

```
subset(country == "zambia",
         select = c(country, geolev1, sex, age2, edattain, zm2010a_relig, ethniczm, zm2010a_nidcard)) %
  mutate(zm2010a_nidcard = recode(zm2010a_nidcard, "1" = "yes", "2" = "no",
                                  "8" = "unknown", "9" = "niu")) %>%
  rename_at (.vars = c("zm2010a_relig", "ethniczm", "zm2010a_nidcard"),
             ~c("religion", "ethnic", "id") ) %>%
  subpop_summary() %>%
  cbind(., runif(103, 2.7, 3.25)) %>%
  rename(coord = "...11")
## Warning: attributes are not identical across measure variables;
## they will be dropped
## `summarise()` regrouping output by 'country', 'type', 'subpop' (override with `.groups` argument)
## New names:
## * NA -> ...10
## New names:
## * NA -> ...11
zambia %>%
 kable(format = "pipe", caption = "Legal ID Possession by Subpopulations")
```

Table 4: Legal ID Possession by Subpopulations

country type	subpop	n_i id	$prop_id$	total_sub	op &p d_	Err Lower_	$_{ m CUpper}_{ m }$	$_{ m CR}$ ange	coord
zambia age2	15-19	564900	0.4646209	01215830	0.000	088650.4637	3430.46550	0740.733350	
zambia age2	20-24	928500	0.7668104	1210860	0.000	075320.76608	5720.76756	6350.733350	42.804571
zambia age2	25-29	905800	0.8464709	01070090	0.000	068300.84578	8780.84715	5390.733350	43.051003
zambia age2	30-34	735710	0.8652154	850320	0.000	072580.86448	8960.86594	1130.733350	42.951858
zambia age2	35-39	597550	0.8657510	690210	0.000	080430.86494	4670.86655	5530.733350	43.056466
zambia age2	40-44	413540	0.8663789	477320	0.000	096520.8654	1370.86734	1420.733350	43.125794
zambia age2	45-49	331360	0.8719082	380040	0.001	106250.8708	45 7 0.87297	70 7 0.733350	43.057504
zambia age2	50-54	251470	0.8716464	1 288500	0.001	122050.87042	2590.87286	6700.733350	42.734579
zambia age2	55-59	169580	0.8731336	5 194220	0.001	148020.8716	5340.87461	1370.733350	43.015915
zambia age2	60-64	149080	0.8731916	3 170730	0.001	157840.8716	1320.87477	7000.733350	43.184072
zambia age2	65-69	108080	0.8647092	2 124990	0.001	189620.8628	1300.86660	0540.733350	43.178358
zambia age2	70-74	83320	0.8647639	96350	0.002	215930.86260	0460.86692	2320.733350	42.827685
zambia age2	75-79	56480	0.8507305	66390	0.002	271070.8480	1990.85344	1120.733350	42.715880
zambia age2	80+	56710	0.8223608	68960	0.002	285270.81950	0810.82521	340.733350	42.716510
zambia edattain l	Less than	1670250	0.8117112	22057690	0.000	053420.8111	7700.81224	1540.733350	43.199149
1	primary								
zambia edattain	Post-	44780	0.8698524	1 51480	0.002	290650.86694	4590.87275	5890.733350	43.210455
\$	secondary								
zambia edattain l	Primary	2559390	0.8033164	13186030	0.000	043650.8028	7990.80375	5280.733350	43.082931
zambia edattain S	Secondary	1077660	0.9480101	1136760	0.000	040810.94760	0200.94841	820.733350	43.215688
zambia ethnic	1	1165460	0.8011907	1454660	0.000	064860.80054	4210.80183	3920.733350	42.881040
zambia ethnic	10	36170	0.7579631	47720	0.003	884290.75412	2020.76180	0610.733350	43.156599
zambia ethnic	11	18990	0.7608173	3 24960	0.005	529210.75552	2520.76610	940.733350	42.819350
zambia ethnic	12	2200	0.7638889	2880	0.015	551050.7483	7840.77939	940.733350	48.158355

zambia ethnic 13 1060 0.7517730 1410 0.02254179, 7292251, 77432210, 7333504, 2965018 zambia ethnic 15 8550 0.7972350 10850 0.0075552, 78966938,0348003,7333504, 074230 zambia ethnic 16 10330 0.7612380 13570 0.0071730, 7540550,7684110,7333504,274230 zambia ethnic 16 10330 0.7632203 38940 0.0007130,7540550,7684110,7333504,271246 zambia ethnic 2 675900 0.8252497 69070 0.002830,7812540,7660032,7333504,80037839 zambia ethnic 2 57000 0.8252497 69070 0.0023820,2824177,8259018,73333504,8160127 zambia ethnic 2 40060 0.7510311 53340 0.003690,7473613,7547009,7333504,17806 zambia ethnic 2 40060 0.7510311 53340 0.0038430,7473613,7547009,7333504,2866201 zambia ethnic 2 10130 0.823577 12300 0.004320,31043,733180,17918,7333504,2866201 zambia ethnic 2 11340 0.752184 9160 0.0088413,743181 916132 zambia e	country type	subpop	n_id	prop_id	total_	_subp Sp d_	_Err Lower_	_CUpper_	_CRange	coord
zambia ethnic 15 8560 0.7972550 10850 0.00776529.7896698.80480007.333504.0719246 zambia ethnic 17 23270 0.763201 30490 0.0047718.75840569.7694110.7333504.2719246 zambia ethnic 19 67591 0.7632013 30490 0.0008839.7643254.7660937.7335504.803350 zambia ethnic 2 57000 0.8522407 6070 0.00283219.8224177.8280818.7333504.8166127 zambia ethnic 2 85900 0.812635 4011 0.003230.977338.98.8047918.7333504.816162 zambia ethnic 23 2550 0.8148148 31320 0.0036690.7473610.7547000.7333504.21683 zambia ethnic 23 6590 0.751834 31320 0.0036690.7473610.7547000.7333504.21683 zambia ethnic 24 6890 0.7521834 9106 0.0084810.7433419.7161249.7333504.21636 zambia ethnic 25 11330 0.7521834 910 0.0013369.7831201.78699.393.333504.296521 zambia ethnic 26 113430 0.756154 272790 0.0013690.7831200.78699.893.3335504.296521 zambia ethnic	zambia ethnic	13	1060	0.751773	30 1·	410 0.02	254790.72922	2510.77432	2100.733350	142.820006
zambia ethnic 16 10330 0.7612380 13570 0.00171730.7540650.7684110.7333504.7719246 zambia ethnic 19 675940 0.7652091 883340 0.0008339.7644259.7669932.7333504.037839 zambia ethnic 2 57000 0.8252497 69070 0.0028321.8224177.8289813.07333504.037839 zambia ethnic 21 39350 0.8012625 49110 0.0035293.7977332.8047918.7333504.181509 zambia ethnic 22 40600 0.7510311 5340 0.0036090.7473610.7547080.7333504.181509 zambia ethnic 23 25520 0.8148148 31320 0.003620.8105120.8191108.7333504.966673 zambia ethnic 24 6890 0.7521831 9160 0.0038413.7433419.7610249.7333504.966673 zambia ethnic 25 10130 0.8235772 21300 0.0063690.743630.9784910.8333504.068497 zambia ethnic 26 113350 0.7786114 146020 0.0021350.7746750.478699.803133.7333504.068497 zambia ethnic 29 21510 0.7810518 245020 0.0013350.781200.7869990.7333504.278692 zambia	zambia ethnic	14	2960	0.800000	00 3	700 0.01	288860.7871	1140.81288	8860.733350	42.965018
zambia ethnic 17 23270 0.7652901 30490 0.0047718.7584293.7670728.733350e.863103 zambia ethnic 2 57000 0.8252497 69070 0.0028321.8224177.8280818.7333508.160127 zambia ethnic 2 57000 0.8252497 69070 0.0024321.8224177.8280818.7333508.160127 zambia ethnic 2 85000 0.7813333 109940 0.0024433.7788920.7837780.733504.181509 zambia ethnic 23 2550 0.814848 3130 0.0036690.7473613.7547008.7333504.181509 zambia ethnic 24 6890 0.7521834 9160 0.0084810.7433419.7610249.7333504.216562 zambia ethnic 25 10130 0.8235772 12300 0.006736.0816409.8303130.7333504.29652 zambia ethnic 26 113430 0.7768114 4600 0.002135.7747657.7789471.7333504.24538 zambia ethnic 27 13565 0.7804558 23370 0.0019360.7831609.7305420.7333504.29513 zambia ethnic 23 21510 0.781643 2270 0.0018360.778520.8164300.7333504.275124 zambia ethnic 30 66769 0.7804588 <td>zambia ethnic</td> <td>15</td> <td>8650</td> <td>0.797235</td> <td>0 10</td> <td>850 0.00</td> <td>756520.78966</td> <td>6980.80480</td> <td>0030.733350</td> <td>43.074230</td>	zambia ethnic	15	8650	0.797235	0 10	850 0.00	756520.78966	6980.80480	0030.733350	43.074230
zambia ethnic 19 675940 0.765203 83340 0.0008839_164325_0.766093_0.733506_0.93780 zam50 athnic 2 57000 0.825247 6907 0.002832_0.8221477_0.8280810.733506_0.161027 zambia ethnic 2 85900 0.781335_0.19940 0.002433_0.78290_7837780_0.733504_0.16807 zambia ethnic 2 40060 0.751031_0.3340 0.0036600_747361_0.75410_0.733504_0.18106 2 1586 zambia ethnic 2 40060 0.751031_0.3340 0.003600_747361_0.75410_0.733504_0.18160 2 1586 zambia ethnic 2 2 1580 0.752181_0.000 0.0088410_743341_0.76102_0.0733504_0.81660 2 1586 2 2 1580 0.752181_0.000 0.009360_0.081612_0.8191160_0.733504_0.84667 2 1586 2 2 1580 0.785055_0.000 0.0088413_0.743341_0.76102_0.733550_0.806497 2 2 1510 0.785055_0.000 0.001360_0.81310_0.733550_0.806407 2 2 1510 0.785055_0.000 0.001360_0.78120_0.783550_0.781600_0.0000_0.0000_0.0000_0.0000_0.00	zambia ethnic	16	10330	0.761238	30 13	570 0.00	717300.75400	6500.76841	1100.733350	2.719246
zambia ethnic 2 57000 0.852947 69070 0.002832 D.8224177.8280818.7333508.150127 zambia ethnic 2 85900 0.7813353 109940 0.0024433.7788920.7837780.7333504.916507 zambia ethnic 2 40060 0.5101265 49110 0.0035290.797733.8047918.7333504.916536 zambia ethnic 24 6890 0.7521834 31320 0.00403208.1015128.8101608.7333504.805826 zambia ethnic 25 10130 0.8235772 12300 0.0067360.81684099.8303136.7333504.965261 zambia ethnic 26 113430 0.758184 14602 0.0021357.7746757.7789471.333504.808497 zambia ethnic 27 135650 0.7850570 12790 0.0013369.7831201.7869939.7333504.245388 zambia ethnic 28 61490 0.7875555 8370 0.0048813.7767321.786940.7333504.96344 zambia ethnic 30 61670 0.805458 213670 0.0017551.7787007.7822110.7333504.25386 zambia ethnic 31 800 0.80808 990 0.0245311.7835497.83231.14917.333504.27592 zambia ethnic	zambia ethnic	17	23270	0.763201	.0 30	490 0.00	477180.75842	2930.76797	7280.733350	42.863103
zambia ethnic 20 85900 0.7813353 109040 0.0024433.7788920.7837780.7333504.718350 27916807 zambia ethnic 21 39350 0.8012625 4910 0.003690.7473613.7547008.7333504.815109 zambia ethnic 23 25520 0.8148148 31320 0.0043020.8105123.8191168.7333504.965201 zambia ethnic 25 10130 0.8235772 12300 0.0067364.8168409.8303136.733504.806897 zambia ethnic 26 113430 0.75768114 146020 0.0021350.7746750.7789471.7333504.295520 zambia ethnic 28 61490 0.7375555 8370 0.0029863.7345690.7405420.7333504.96663 zambia ethnic 29 21510 0.7816134 27520 0.0048813.7767321.7864946.7333504.94364 zambia ethnic 31 166760 0.7804555 23670 0.0029863.7345690.7405420.7333504.94364 zambia ethnic 31 18670 0.7804555 23670 0.0048813.7767321.7864946.7333504.873504.873504.87351 zambia ethnic 31 18600 0.7804555 7470 0.00435311.7835409.3733504.735304.0335304.873504.73530	zambia ethnic	19	675940	0.765209	3 883	340 0.00	088390.76432	2540.76609	9320.733350	43.037839
zambia ethnic 21 39350 0.8012625 49110 0.0035290.79773320.8047918.7333504.181509 2ambia ethnic 22 40060 0.7510311 53340 0.0036696.7473618.7547008.7333504.715336 2anbia cthnic 23 25520 0.8148148 31320 0.00430208.105128.8191168.7333504.965201 zambia ethnic 26 11330 0.8235772 12300 0.0067364.8168409.8303130.7333504.965201 zambia ethnic 27 135650 0.7585141 14602 0.002135D.774675D.7789471.7333504.245385 zambia ethnic 28 61490 0.7375555 8370 0.0029865.7345690.7405420.7333504.046364 zambia ethnic 3 166760 0.875916 7640 0.0048813.776732D.7864946.7333504.94372 zambia ethnic 3 166760 0.805458 213670 0.001755.D.77800D.7822110.7333504.95372 zambia ethnic 3 166760 0.805458 213670 0.001755.D.77800D.7822110.7333504.95272 zambia ethnic 31 800 0.808080 397595.958.14307.736037.7333504.941272 zambia ethnic 35 10160 0.7720365	zambia ethnic	2	57000	0.825249	7 69	070 - 0.00	283210.8224	1770.82808	8180.733350	43.160127
zambia ethnic 22 40060 0.710311 53340 0.0036690.7473613.77547008.7333504.2715836 233504.715836 2486673 2346673 2346673 2346673 23466673 23466673 23466673 23466673 2346673 23466673 23466673 23466673 23466673 23466673 23466673 23466673 23466673 23466673 23466473 23466490 2333504.068497 23466490 2333504.068497 23466490 234504.235508.23558 23470 0.0013350.7746750.7789471.7333504.23558 23466490 234504.23558 23460 0.0013350.7746750.7789471.7333504.23558 2346634	zambia ethnic	20	85900	0.781335	3109	940 0.00	244330.77889	9200.78377	7860.733350	42.916807
zambia ethnic 23 25520 0.8148148 3120 0.0043020.8105128.81911680.7333504.846673 zambia ethnic 24 6890 0.7521834 1916 0.0088413.7433410.7610249.7333504.955201 zambia ethnic 26 113430 0.7768114 146020 0.0021357.7746757.7789471.7333504.824558 zambia ethnic 28 61490 0.7375555 83370 0.0029869.7345690.7405420.7333504.952174 zambia ethnic 29 21510 0.7816134 27520 0.0048813.7767321.7864940.7333504.982174 zambia ethnic 3 166760 0.78045516 7640 0.0088391.7987520.8164307.333504.982174 zambia ethnic 31 800 0.808080 990 0.0245311.7835497.8326119.7333504.273042 zambia ethnic 32 25510 0.7690684 33170 0.0018190.7803742.7840123.7333504.275082 zambia ethnic 35 10160 0.7821932 197790 0.0018190.7803742.7840123.7333504.78503.033573 zambia ethnic 36 2380 0.743750 3200 0.0071670.76486899.7792040.7333504.78503.03733504.097888 <th< td=""><td>zambia ethnic</td><td>21</td><td>39350</td><td>0.801262</td><td>25 49</td><td>110 0.00</td><td>352930.79773</td><td>3320.80479</td><td>9180.733350</td><td>43.181509</td></th<>	zambia ethnic	21	39350	0.801262	25 49	110 0.00	352930.79773	3320.80479	9180.733350	43.181509
zambia ethnic 24 6890 0.7521834 9160 0.0088410.7433419.7610249.7333504.965201 zambia ethnic 25 10130 0.28235772 1200 0.0067360.8168409.8303136.7333504.068497 zambia ethnic 27 135650 0.785070 172790 0.0013360.7476757.7789470.7333504.24358 zambia ethnic 28 61490 0.7375555 8370 0.0029860.7345690.7405420.7333504.06364 zambia ethnic 3 166760 0.780458 213670 0.001755D.778700D.7822110.7333504.873722 zambia ethnic 30 6170 0.808508 990 0.001755D.778700D.7822110.7333504.873722 zambia ethnic 31 800 0.808508 990 0.024531D.783549D.832619.033502.918086 zambia ethnic 32 25510 0.7690684 3170 0.0045352.7645332.7736037.7333504.033573 zambia ethnic 33 154710 0.7829192 19770 0.0018190.7803742.7840123.7333504.23502.779822 zambia ethnic 36 2380 0.743750 3200 0.0151250.7286240.7588758.7333504.31272 zambia ethnic	zambia ethnic	22	40060	0.751031	1 53	340 0.00	366960.74736	6150.75470	0080.733350	42.715836
zambia ethnic 25 10130 0.8235772 12300 0.0067360.8168409.8303130.7333504.068497 zambia ethnic 26 113430 0.7768114 146020 0.0021357.77467577.7789417.7333504.24538 zambia ethnic 28 61490 0.7375555 83370 0.0029860.7345600.7405420.7333504.06364 zambia ethnic 29 21510 0.7816134 27520 0.0048813.7767322.7864940.7333504.98214 zambia ethnic 30 6170 0.8075916 7640 0.008830.7987529.8164307.7333504.98732 zambia ethnic 31 800 0.808080 900 0.0245311.785490.836119.7333504.97328 zambia ethnic 31 800 0.808080 900 0.0245311.785491.836119.7333504.91886 zambia ethnic 33 154710 0.7821932 19790 0.0018190.7803742.7840123.7333504.07982 zambia ethnic 36 2380 0.7437500 3200 0.0151250.72862410.7588753.333504.07982 zambia ethnic 37 6160 0.7315914 8420 0.0094651.7221260.7410563.7333504.326352 zambia ethnic 40	zambia ethnic	23	25520	0.814814	8 31	320 0.00	430200.8105	1280.81911	1680.733350	42.846673
zambia ethnic 26 113430 0.7768114 146020 0.002135D.7.74675D.778947D.7333508.2435858 zambia ethnic 27 135650 0.7850575 1272790 0.0019369.7831201.7869939.7333504.243584 zambia ethnic 28 61490 0.785555 83370 0.0029860.7831201.7869939.7333504.046364 zambia ethnic 3 166760 0.7804558 213670 0.001755D.778700D.7822110.7333504.982114 zambia ethnic 3 166760 0.7804558 213670 0.001755D.778700D.7822110.7333504.933504.29110 zambia ethnic 31 800 0.8080808 990 0.024531D.783549D.8326119.7333504.2712102 zambia ethnic 32 25510 0.7690684 33170 0.0045352D.764533D.773603D.7333504.237278002 zambia ethnic 35 10160 0.7720365 13160 0.0071670.76486890.7792040.7333504.278982 zambia ethnic 36 2380 0.7437500 300 0.0151258.7286240.75887580.7333504.09122 zambia ethnic 38 7110 0.8163031 8710 0.0071670.76486890.7785405.7333506.401232 z	zambia ethnic	24	6890	0.752183	34 9	160 - 0.00	884150.74334	4190.76102	2490.733350	42.965201
zambia ethnic 27 135650 0.7850570 172790 0.0019369.7831200.7869939.733350-2.739543 zambia ethnic 28 61499 0.7375555 83370 0.0029863.7345690.7405420.733350-4.046364 zambia ethnic 3 166760 0.7804558 213670 0.0017551.7787007.7822110.733350-4.873722 zambia ethnic 30 6170 0.807516 7640 0.0088391.7987523.8164307.733350-4.873722 zambia ethnic 32 25510 0.7699084 3317 0.0045552.7645332.7736037.7333504.938573 zambia ethnic 33 154710 0.7821932 197790 0.0018190.7803742.7840129.7333504.278901 zambia ethnic 35 10160 0.7720365 1316 0.0071670.76486807.792040.7333504.278901 zambia ethnic 36 2380 0.743750 3200 0.0151258.72862427.788875.37333504.97888 zambia ethnic 36 2380 0.743750 3200 0.0151258.72862427.788875.7333504.23690 zambia ethnic 36 1100 0.710107 2710 0.01512580.72862427.788875.7333504.23604 zambia ethnic	zambia ethnic	25	10130	0.823577	2 12	300 - 0.00	673640.81684	4090.83031	1360.733350	43.068497
zambia ethnic 28 61490 0.7375555 83370 0.0029869.73456900.7405420.7333504.046364 zambia ethnic 29 21510 0.7816134 27520 0.0048813.7767322.7864940.7333504.9873722 zambia ethnic 30 6170 0.8075916 7640 0.0088301.7987529.8164307.7333504.2918086 zambia ethnic 31 800 0.8080808 990 0.0245311.78364907.8326119.7333504.2918086 zambia ethnic 33 154710 0.7821932 197790 0.0018190.78034321.7840123.7333504.272882 zambia ethnic 35 10160 0.7720365 13160 0.0071670.76458391.7736037.333504.0727882 zambia ethnic 36 2380 0.7437500 3200 0.01512580.72862427.7588753.33504.097888 zambia ethnic 36 2380 0.7437500 3200 0.00161670.7648689.7792040.7333504.07888 zambia ethnic 38 7110 0.8163031 8710 0.00173510.6831.37808.244350.7333504.041272 zambia ethnic 40 2210 0.7100348 2870 0.1539550.7546390.7854303.7333504.2791457 zambia ethnic<	zambia ethnic		113430				213570.7746	75 7 0.77894	4710.733350	43.245358
zambia ethnic 29 21510 0.7816134 27520 0.0048813.776732D.7864940.7333504.982174 zambia ethnic 3 166760 0.7804558 213670 0.001755D.7787007.7822110.7333504.273722 zambia ethnic 31 800 0.808808 900 0.024531D.783549D.8326119.7333504.91806 zambia ethnic 32 25510 0.7690684 3170 0.004535D.764533D.773603D.7333504.033573 zambia ethnic 33 154710 0.782193 197790 0.0018190.7803742D.7840123.7333504.773603D.7333504.778002 zambia ethnic 36 2380 0.7437500 3200 0.0151258.7286242D.7588759.7333504.078808 zambia ethnic 36 2380 0.7437500 3200 0.009165D.7221264.74105603.733506.041272 zambia ethnic 37 6160 0.7315914 8420 0.009465D.7221264.74105603.7333506.127316 zambia ethnic 40 2210 0.771077 2710 0.0172351.6838719.718342D.7333504.216808 zambia ethnic 41 1650 0.771080 2140 0.0178019.753226D.7888300.7333504.234990 zambia ethn	zambia ethnic		135650	0.785057	0 172	790 0.00	193690.78312	2010.78699	9390.733350	42.739543
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zambia ethnic 31 800 0.8080808 990 0.02453110.78354970.8326119.7333504.712102 zambia ethnic 32 25510 0.7690684 33170 0.00453521.7645332.77360373.733504.033573 zambia ethnic 35 10160 0.7720365 13160 0.0071670.7648680.7792040.7333504.2727982 zambia ethnic 36 2380 0.7437500 3200 0.01512580.72862420.7588758.7333504.097888 zambia ethnic 37 6160 0.7315914 8420 0.009465D.7221264.7410563.7333504.041272 zambia ethnic 38 7110 0.8163031 8710 0.0081323.8081708.8244354.7333504.233504 zambia ethnic 40 2210 0.7710280 2140 0.017235D.6838719.718342D.7333504.233504 zambia ethnic 41 1650 0.7710280 2140 0.0172470.7688100.7733600.7333504.243990 zambia ethnic 43 322350 0.7700348 2870 0.00127470.7688100.7733600.7333504.243990 zambia ethnic 43 322350 0.7700583 4820 0.00114020.79591370.8181942.7333504.233504.243990 zambia ethn	zambia ethnic	3	166760	0.780455	8 213	670 - 0.00	175510.77870	0070.78221	1100.733350	42.873722
zambia ethnic 32 25510 0.7690684 3170 0.0045350.76453320.7736037.733504.033573 zambia ethnic 33 154710 0.7820365 13160 0.0071670.76486897.77840123.7333504.2727882 zambia ethnic 36 2380 0.7437500 3200 0.00515258.7286642.7588758.7333504.097888 zambia ethnic 37 6160 0.7315914 8420 0.00946517.7221264.7410563.7333504.041272 zambia ethnic 38 7110 0.8163031 8710 0.0081323.8081708.8244354.7333504.23652 zambia ethnic 39 1900 0.7101070 2710 0.0172351.66838719.7183421.7333504.23652 zambia ethnic 40 2210 0.7700348 2870 0.0153955.7546394.7854303.733504.243990 zambia ethnic 41 1650 0.7710280 2140 0.0178019.7532261.7888300.7333504.243990 zambia ethnic 43 322350 0.7700853 4850 0.00127470.7688106.7713600.7333504.243990 zambia ethnic 45 2610 0.7438597 3510 0.0114405.729144.7580351.7333504.218304 zambia ethnic	zambia ethnic	30	6170	0.807591	6 7	640 0.00	883910.7987	5250.81643	3070.733350	2.918086
zambia ethnic 33 154710 0.7821932 197790 0.0018190.7803742.7840123.7333504.727982 zambia ethnic 35 10160 0.7720365 13160 0.0071676.7648689.7792040.73335042.783001 zambia ethnic 36 2380 0.7437500 3200 0.01512580.72862420.7588750.73335048.097888 zambia ethnic 37 6160 0.7315914 8420 0.00094651.722164.7410565.7333504.041272 zambia ethnic 39 1900 0.7011070 2710 0.0172351.6838719.7183421.73335048.23632 zambia ethnic 40 2210 0.7700348 2870 0.0153950.7546394.7854303.7333504.243990 zambia ethnic 41 1650 0.7710280 2140 0.0178019.7532261.7888300.7333504.243990 zambia ethnic 43 322350 0.7700348 2870 0.0012747.7688100.7713600.7333504.243990 zambia ethnic 44 3890 0.8070539 4820 0.0011402.7959137.8181942.7333504.243990 zambia ethnic 45 2610 0.7458874 3510 0.00144450.7291444.7580351.7333504.8143484 zambia ethnic	zambia ethnic	31	800	0.808080	8	990 0.02	453110.78354	4970.83261	1190.733350	42.712102
zambia ethnic 35 10160 0.7720365 13160 0.007167@.76486899.779204@.7333504.783001 zambia ethnic 36 2380 0.7437500 3200 0.0151258.728624@.7588758.7333504.097888 zambia ethnic 37 6160 0.7315914 8420 0.009465D.7221264D.7541056D.73335048.041272 zambia ethnic 38 7110 0.8163031 8710 0.0081323.0881708.08244354.73335048.246352 zambia ethnic 40 2210 0.7700348 2870 0.0153950.7546394.7854300.73335048.166808 zambia ethnic 41 1650 0.7710280 2140 0.01780190.753226D.7888300.73335042.43990 zambia ethnic 43 322350 0.7700853 418590 0.001274D.7688100.7713600.77335048.042319 zambia ethnic 44 3890 0.8070539 4820 0.0011402.799147.7688100.7713600.7733504.816303 zambia ethnic 45 2610 0.7435897 3510 0.0144450.7291444.758035D.73335048.143231 zambia ethnic 47 480 0.7058824 680 0.03424680.671635D.740129D.73335042.791676 zambia eth	zambia ethnic	32	25510	0.769068	34 33	170 0.00	453520.76453	3320.77360	0370.733350	43.033573
zambia ethnic 36 2380 0.7437500 3200 0.0151258.7286242.7588759.7333504.097888 zambia ethnic 37 6160 0.7315914 8420 0.009465 D.7221264.7410569.7333504.041272 zambia ethnic 38 7110 0.8163031 8710 0.0081323.8081708.8244354.7333504.236352 zambia ethnic 39 1900 0.7011070 2710 0.0172355.0838719.718342D.7333504.26352 zambia ethnic 41 1650 0.7710280 2140 0.0178019.753226D.7888300.7333504.243990 zambia ethnic 43 322350 0.7700348 2870 0.0127470.7688106.7713600.7333504.243990 zambia ethnic 43 322350 0.7700853 418590 0.00127470.7688106.7713600.7333504.243990 zambia ethnic 45 2610 0.7435897 3510 0.0114020.75931370.81819427.333504.865823 zambia ethnic 46 25420 0.7549748 33670 0.00459410.7503807.7595689.7333504.7915744 zambia ethnic 47 480 0.7058824 680 0.03424689.6716359.7401299.7533504.79957545 zambia ethnic	zambia ethnic	33	154710	0.782193	2 197	790 0.00	181900.7803	7420.78401	1230.733350	42.727982
zambia ethnic 37 6160 0.7315914 8420 0.00946510.7221264.7410569.7333504.041272 zambia ethnic 38 7110 0.8163031 8710 0.0081323.8081708.8244354.7333504.23652 zambia ethnic 39 1900 0.7011070 2710 0.0172351.6838719.7183421.7333504.166808 zambia ethnic 40 2210 0.7700348 2870 0.0153950.7546394.7854303.7333504.791457 zambia ethnic 41 1650 0.7710280 2140 0.0178019.7532261.7888300.7333504.2791457 zambia ethnic 43 322350 0.7700853 418590 0.0012740.7688100.7713600.7333504.249390 zambia ethnic 44 3890 0.8070539 4820 0.01114020.79591370.8181942.7333504.865823 zambia ethnic 45 2610 0.7435897 3510 0.0144454.7291444.7580351.7333504.865823 zambia ethnic 47 480 0.758884 360 0.0045940.7593807.7595688.7333504.91354 zambia ethnic 49 289750 0.7888647 36730 0.00113820.7788970.78117399.7333504.91393504.91364 zambia ethnic <td>zambia ethnic</td> <td>35</td> <td>10160</td> <td>0.772036</td> <td>55 13</td> <td>160 0.00</td> <td>716760.76486</td> <td>6890.77920</td> <td>0400.733350</td> <td>42.783001</td>	zambia ethnic	35	10160	0.772036	55 13	160 0.00	716760.76486	6890.77920	0400.733350	42.783001
zambia ethnic 38 7110 0.8163031 8710 0.0081323.8081708.8244354.7333504.236352 zambia ethnic 39 1900 0.7011070 2710 0.0172351.6838719.7183421.7333504.266808 zambia ethnic 40 2210 0.7700348 2870 0.0153953.7546394.7854303.7333504.243990 zambia ethnic 41 1650 0.7710280 2140 0.0178019.7532261.7888300.7333504.243990 zambia ethnic 43 322350 0.770853 41850 0.0012747.7688106.7713600.7733504.243990 zambia ethnic 44 3890 0.8070539 4820 0.0111402.79591370.8181942.7333504.214231 zambia ethnic 45 2610 0.7435897 3510 0.0144450.729144-0.7580351.7333504.913434 zambia ethnic 46 25420 0.7549748 3670 0.00459410.7503807.7595688.7333504.913434 zambia ethnic 47 480 0.7568824 680 0.0342468.67163550.7401292.7333504.293982 zambia ethnic 49 288750 0.7888647 367300 0.0011389.787540.970.78117399.733504.293582 zambia ethnic	zambia ethnic	36	2380	0.743750	00 3	200 0.01	512580.72862	2420.75887	7580.733350	43.097888
zambia ethnic 39 1900 0.7011070 2710 0.017235 D.6838719.718342 D.7333504.166808 zambia ethnic 40 2210 0.7700348 2870 0.015395 D.7546394.7854303.7333504.243990 zambia ethnic 41 1650 0.7710280 2140 0.0178019.753226 D.7888300.7333504.243990 zambia ethnic 43 322350 0.7700853 418590 0.001274 D.7688100.77136000.7333504.014231 zambia ethnic 44 3890 0.8070539 4820 0.0111402.795913 D.8181942.7333504.2865823 zambia ethnic 45 2610 0.7435897 3510 0.0144454.7291440.758035 D.7333504.865823 zambia ethnic 46 25420 0.7549748 33670 0.004594D.7503807.7595688.7333504.713484 zambia ethnic 48 396890 0.780338 508810 0.0011382D.7788976.7811739.7333504.293932 zambia ethnic 5 104200 0.8136176 128070 0.0021320.8114849.8157503.7333504.282932 zambia ethnic 5 226030 0.7875610 28700 0.0013960.7860440.7890574.7333504.993526 zambia et	zambia ethnic	37	6160	0.731591	4 8	420 0.00	946510.72212	2640.74105	6650.733350	43.041272
zambia ethnic 40 2210 0.7700348 2870 0.0153955.7546394.7854303.7333504.791457 zambia ethnic 41 1650 0.7710280 2140 0.0178019.7532261.788830@.7333504.243990 zambia ethnic 43 322350 0.7700853 418590 0.0012747.768810@.771360@.7333504.8131 zambia ethnic 44 3890 0.8070539 4820 0.0111402.7959137.8181942.7333504.81303 zambia ethnic 45 2610 0.7435897 3510 0.0144454.7291440.7580351.7333504.81303 zambia ethnic 46 25420 0.7549748 33670 0.0045941.7503807.7595688.7333504.81303 zambia ethnic 47 480 0.7058824 680 0.03424680.6716355.7401290.7333504.2795745 zambia ethnic 49 289750 0.7888647 367300 0.00113820.7788970.7811739.7333504.293087 zambia ethnic 5 104200 0.8136176 128070 0.00213270.8114848.8157503.7333504.29352 zambia ethnic 51 20860 0.7772020 27020 0.0050023.76701850.7770230.7333504.291622 zambia ethnic	zambia ethnic	38	7110	0.816303	81 8	710 0.00	813230.8081	7080.82443	3540.733350	436352
zambia ethnic 41 1650 0.7710280 2140 0.0178019.7532261.7888300.7333504.243990 zambia ethnic 43 322350 0.7700853 418590 0.0012747.7688106.7713600.7333504.014231 zambia ethnic 44 3890 0.8070539 4820 0.011140D.7959137.818194D.7333504.865823 zambia ethnic 45 2610 0.7435897 3510 0.0144450.7953807.7595680.7333504.813003 zambia ethnic 46 25420 0.7549748 33670 0.0045941.7503807.7595680.7333504.81303 zambia ethnic 47 480 0.758824 680 0.03424680.6716350.7401292.7333504.813303 zambia ethnic 48 396890 0.780358 508810 0.00113820.7788976.7811739.7333504.293087 zambia ethnic 5 104200 0.8136176 128070 0.0021327.8114848.8157503.7333504.293082 zambia ethnic 50 226030 0.7875610 287000 0.0014960.7860640.7890574.7333504.2993526 zambia ethnic 51 20860 0.7720207 27020 0.0050023.76701830.7770230.7333504.291572 zambia ethnic </td <td>zambia ethnic</td> <td>39</td> <td>1900</td> <td>0.701107</td> <td>0 - 2</td> <td>710 0.01</td> <td>723510.6838</td> <td>7190.71834</td> <td>1210.733350</td> <td>43.166808</td>	zambia ethnic	39	1900	0.701107	0 - 2	710 0.01	723510.6838	7190.71834	1210.733350	43.166808
zambia ethnic 43 322350 0.7700853 418590 0.0012747.7688106.7713600.733504.014231 zambia ethnic 44 3890 0.8070539 4820 0.0111402).79591370.8181942).7333504.865823 zambia ethnic 45 2610 0.7435897 3510 0.0144454.7291444.7580351).7333504.813003 zambia ethnic 46 25420 0.7549748 33670 0.0045941.7503807.7595688.7333504.173484 zambia ethnic 47 480 0.7058824 680 0.03424680.7163557.4012920.7333504.919745 zambia ethnic 48 396890 0.7800358 50810 0.0011382).77889760.7811739.7333504.930887 zambia ethnic 49 289750 0.7888647 367300 0.0013198.77889760.7811739.7333504.2893082 zambia ethnic 5 104200 0.8136176 128070 0.0014963.78606437.890574.73335042.89332 zambia ethnic 51 20860 0.7720207 27020 0.0050023.76701850.7770230.73335042.91572 zambia ethnic 52 38910 0.797361 48800 0.0035669.7937699.8009020.7333504.2839874 zambia	zambia ethnic	40	2210	0.770034	8 2	870 0.01	539550.75463	3940.78543	3030.733350	42.791457
zambia ethnic 44 3890 0.8070539 4820 0.0111402.79591370.81819420.73335042.865823 zambia ethnic 45 2610 0.7435897 3510 0.0144454.7291444.75803510.73335042.813003 zambia ethnic 46 25420 0.7549748 33670 0.00459410.75038070.75956880.73335042.173484 zambia ethnic 47 480 0.7058824 680 0.03424680.67163550.74012920.73335042.795745 zambia ethnic 48 396890 0.78080358 508810 0.00113820.7788970.78117390.73335042.930887 zambia ethnic 49 289750 0.7888647 367300 0.00113890.78754490.79018450.73335042.91869 zambia ethnic 5 104200 0.8136176 1280700 0.00213270.8114848.81575030.73335042.818932 zambia ethnic 50 226030 0.7875610 287000 0.00149650.78606450.78905740.73335042.993526 zambia ethnic 51 20860 0.7720207 27020 0.005500230.76701850.7702300.73335042.915752 zambia ethnic 53 15020 0.8293760 18110 0.00547880.82389720.834854480.73335042.813179 <td>zambia ethnic</td> <td>41</td> <td>1650</td> <td>0.771028</td> <td>80 2</td> <td>140 0.01</td> <td>780190.75322</td> <td>2610.78883</td> <td>3000.733350</td> <td>43990</td>	zambia ethnic	41	1650	0.771028	80 2	140 0.01	780190.75322	2610.78883	3000.733350	43990
zambia ethnic 45 2610 0.7435897 3510 0.014445-0.729144-0.75803510.7333504.813003 zambia ethnic 46 25420 0.7549748 33670 0.00459410.75038070.75956880.7333504.8130484 zambia ethnic 47 480 0.7058824 680 0.03424680.67163550.74012920.73335042.795745 zambia ethnic 48 396890 0.7800358 508810 0.00113820.77889760.78117390.73335042.930887 zambia ethnic 49 289750 0.7888647 367300 0.00131980.78754490.79018450.73335042.91696 zambia ethnic 5 104200 0.8136176 128070 0.00213270.81148480.81575030.73335042.828932 zambia ethnic 50 226030 0.7875610 287000 0.00149650.78606450.78905740.73335042.828932 zambia ethnic 51 20860 0.7720207 27020 0.00500230.76701850.77702300.73335042.9115752 zambia ethnic 53 15020 0.8293760 18110 0.0054788.82389720.83485480.73335042.811629 zambia ethnic 54 41310 0.7482340 55210 0.0036204.7446130.67518540.73335042.771666 <td>zambia ethnic</td> <td>43</td> <td>322350</td> <td>0.770085</td> <td>3 418</td> <td>590 - 0.00</td> <td>127470.7688</td> <td>1060.77136</td> <td>6000.733350</td> <td>43.014231</td>	zambia ethnic	43	322350	0.770085	3 418	590 - 0.00	127470.7688	10 6 0.77136	6000.733350	43.014231
zambia ethnic46254200.7549748336700.0045941.7503807.7595688.7333504.173484zambia ethnic474800.70588246800.0342468.6716353.7401292.7333504.795745zambia ethnic483968900.78003585088100.00113820.7788976.7811739.7333504.930887zambia ethnic492897500.78886473673000.0013198.7875449.7901845.7333504.216196zambia ethnic51042000.81361761280700.00213270.8114848.8157503.7333504.2828932zambia ethnic502260300.78756102870000.00149650.78606450.7890574.7333504.2993526zambia ethnic51208600.7720207270200.00500230.76701850.7770230.7333504.915752zambia ethnic52389100.7973361488000.00356650.79376950.8009020.7333504.241622zambia ethnic53150200.8293760181100.00547880.82389720.83485480.7333504.839874zambia ethnic54413100.7482340552100.00362040.7446130.75185440.7333504.2813179zambia ethnic561522600.79704761910300.00180360.7952440.79885120.7333504.29858zambia ethnic5711500.777027014800.02120610.75582090.79823320.7333504.298658zambia ethnic592376100.77647793060100.00147610.77500180.7779540.7333504.997162zambia ethnic6288700.8315092347200.0033780.7876984.7943140.7333504.275891zambia ethnic6459100.7910062580400.003378	zambia ethnic	44	3890	0.807053	9 4	820 0.01	114020.7959	1370.81819	9420.733350	42.865823
zambia ethnic474800.70588246800.0342468.6716355.7401292.7333504.795745zambia ethnic483968900.78003585088100.0011382).7788976.7811739.7333504.930887zambia ethnic492897500.78886473673000.0013198).7875449.7901845.7333504.716196zambia ethnic51042000.81361761280700.0021327.8114848).8157503.7333504.828932zambia ethnic502260300.78756102870000.0014965).7860645).7890574.7333504.993526zambia ethnic51208600.7720207270200.0050023).7670185).7770230.7333504.915752zambia ethnic52389100.7973361488000.0035665).7937695).8009020.7333504.241622zambia ethnic53150200.8293760181100.0054788).8238972).8348548).7333504.839874zambia ethnic54413100.7482340552100.0036204).7446130.75185440.7333504.813179zambia ethnic551342900.77619791730100.0019640).7742340.7781619.7333504.271666zambia ethnic561522600.79704761910300.0018030.7952440.7988512).7333504.038399zambia ethnic5822500.783972128700.0150561).7689160.7990282.7333504.766108zambia ethnic592376100.77647793060100.0014761).7750118).7779540.7333504.997162zambia ethnic6288700.8315092347200.0033078).7876984.7943140.7333504.775891zambia ethnic6459100.7910062580400.003307	zambia ethnic	45	2610	0.743589	7 3	510 0.01	444540.72914	4440.75803	3510.733350	42.813003
zambia ethnic483968900.78003585088100.0011382).77889760.7811739).73335042.930887zambia ethnic492897500.78886473673000.0013198).7875449.7901845).73335042.716196zambia ethnic51042000.81361761280700.00213270.81148480.8157503).73335042.828932zambia ethnic502260300.78756102870000.0014965).7860645).7890574).73335042.993526zambia ethnic51208600.7720207270200.0050023).7670185).7770230).73335042.915752zambia ethnic52389100.7973361488000.0035665).7937695.8009026).73335042.41622zambia ethnic53150200.8293760181100.00547880.8238972).8348548).73335042.839874zambia ethnic54413100.7482340552100.0036204.7446130.7518544).73335042.813179zambia ethnic551342900.77619791730100.0019640.7742340.77816199.73335042.813179zambia ethnic561522600.79704761910300.00180360.7952440.7988512).7333504.028658zambia ethnic5822500.783972128700.01505610.7689160.7990282).73335042.766108zambia ethnic592376100.77647793060100.00147610.77500180.7779540.73335042.997162zambia ethnic6288700.8315092347200.00330780.7876984.7943140.73335042.775891zambia ethnic6459100.7910062580400.00330780.7876984.7943140.73335042.975819zambia ethnic7362800.7938731 <t< td=""><td>zambia ethnic</td><td>46</td><td>25420</td><td>0.754974</td><td>8 33</td><td>670 - 0.00</td><td>459410.75038</td><td>8070.75956</td><td>6880.733350</td><td>43.173484</td></t<>	zambia ethnic	46	25420	0.754974	8 33	670 - 0.00	459410.75038	80 7 0.75956	6880.733350	43.173484
zambia ethnic492897500.78886473673000.0013198).7875449.790184\$\text{.7333504}.716196zambia ethnic51042000.81361761280700.00213270.81148480.81575030.7333504.828932zambia ethnic502260300.78756102870000.001496\$\text{.786064\$\text{.7890574}.73335042.993526}zambia ethnic51208600.7720207270200.00500230.767018\$\text{.777023}0.73335042.915752}zambia ethnic52389100.7973361488000.003566\$\text{.793769}\text{.800902}\text{.800902}\text{.73335042.813592}zambia ethnic53150200.8293760181100.00547880.82389720.83485480.73335042.813179zambia ethnic54413100.7482340552100.00362040.744613\text{.7518544}\text{.73335042.813179}zambia ethnic551342900.77619791730100.001964\text{.0774234}\text{.07781619}\text{.73335042.771666}zambia ethnic561522600.79704761910300.001803\text{.0795244}\text{.07988512}\text{.7333504}\text{.038399}zambia ethnic5822500.783972128700.015056\text{.0768916}\text{.079902820.73335042.766108}zambia ethnic592376100.77647793060100.001476\text{.07750018}\text{.7759018}\text{.7779540}\text{.73335042.997162}zambia ethnic6288700.8315092347200.0033078.7876984.794314\text{.073335042.975891}zambia ethnic6459100.7910662580400.0033078.7876984.794314\text{.073335042.915392}zambia ethnic736	zambia ethnic	47	480	0.705882	24	680 - 0.03	424680.67163	3550.74012	2920.733350	42.795745
zambia ethnic51042000.81361761280700.00213270.81148480.81575030.73335042.828932zambia ethnic502260300.78756102870000.00149630.78606450.78905740.73335042.993526zambia ethnic51208600.7720207270200.00500230.76701850.77702360.73335042.915752zambia ethnic52389100.7973361488000.00356650.79376950.80090260.73335043.241622zambia ethnic53150200.8293760181100.00547880.82389720.83485480.73335042.839874zambia ethnic54413100.7482340552100.00362040.74461360.75185440.73335042.813179zambia ethnic551342900.77619791730100.00196400.77423400.77816190.73335042.771666zambia ethnic561522600.79704761910300.00180360.79524400.79885120.73335043.028658zambia ethnic5711500.777027014800.02120610.75582090.79823320.73335042.038399zambia ethnic5822500.783972128700.01505610.76891600.79902820.73335042.997162zambia ethnic592376100.777647793060100.00147610.77500180.77795400.73335042.997162zambia ethnic6288700.8315092347200.00330780.78769840.79431400.73335042.775891zambia ethnic60459100.7910062580400.00330780.78769840.79431400.73335042.915392zambia ethnic7362800.7938731457000.00370880.79016430.79758190.73335042.915392zambia ethnic81147300.818	zambia ethnic	48	396890	0.780035	8 508	810 0.00	113820.77889	9760.78117	7390.733350	42.930887
zambia ethnic502260300.78756102870000.0014965.7860645.7890574.7333504.993526zambia ethnic51208600.7720207270200.0050023.7670185.7770230.7333504.915752zambia ethnic52389100.7973361488000.0035665.7937695.8009026.7333504.241622zambia ethnic53150200.8293760181100.00547880.8238972.8348548.7333504.839874zambia ethnic54413100.7482340552100.0036204.7446136.7518544.7333504.813179zambia ethnic551342900.77619791730100.0019640.7742340.7781619.7333504.028658zambia ethnic561522600.79704761910300.0018036.7952440.7988512.7333504.028658zambia ethnic5711500.777027014800.02120610.7558209.7982332.7333504.038399zambia ethnic5822500.783972128700.01505610.7689160.7990282.7333504.997162zambia ethnic592376100.77647793060100.00147610.77500180.77795400.73335042.997162zambia ethnic6288700.8315092347200.00393710.82757210.83544630.73335042.704401zambia ethnic60459100.7910062580400.00330780.78769840.7943140.73335042.915392zambia ethnic7362800.7938731457000.00370880.79016430.7975819.73335042.915392zambia ethnic81147300.81821421402200.00201860.81619560.82023290.7333504.987249	zambia ethnic	49	289750	0.788864	7 367	300 0.00	131980.78754	4490.79018	8450.733350	42.716196
zambia ethnic51208600.7720207270200.0050023.767018\$.777023\$.7333504.915752zambia ethnic52389100.7973361488000.003566\$.793769\$.800902\$.7333504.241622zambia ethnic53150200.8293760181100.005478\$.823897\$.834854\$.7333504.839874zambia ethnic54413100.7482340552100.0036204.744613\$.7518544.7333504.813179zambia ethnic551342900.77619791730100.001964\$.774234\$.778161\$.7333504.2771666zambia ethnic561522600.79704761910300.001803\$.795244\$.798851\$.7333504.028658zambia ethnic5711500.777027014800.021206\$D.755820\$.798233\$.7333504.038399zambia ethnic5822500.783972128700.015056\$D.768916\$.799028\$.7333504.766108zambia ethnic592376100.77647793060100.001476\$D.775001\$.777954\$.7333504.794401zambia ethnic6288700.8315092347200.003307\$.7876984.794314\$.7333504.704401zambia ethnic6459100.7910062580400.003307\$.7876984.794314\$.7333504.915392zambia ethnic7362800.7938731457000.003708\$.7901643.797581\$.7333504.9971292zambia ethnic81147300.81821421402200.002018\$.816195\$.8202329.7333504.987249	zambia ethnic	5	104200	0.813617	6 128	070 - 0.00	213270.81148	8480.81575	5030.733350	42.828932
zambia ethnic52389100.7973361488000.0035665.7937695.8009026.7333504.241622zambia ethnic53150200.8293760181100.00547880.8238972.8348548.7333504.839874zambia ethnic54413100.7482340552100.00362040.74461360.75185440.73335042.813179zambia ethnic551342900.77619791730100.00196400.77423400.77816190.73335042.771666zambia ethnic561522600.79704761910300.00180360.79524400.79885120.73335043.028658zambia ethnic5711500.777027014800.02120610.75582090.79823320.73335043.038399zambia ethnic5822500.783972128700.01505610.76891600.79902820.73335042.766108zambia ethnic592376100.77647793060100.00147610.77500180.77795400.73335042.997162zambia ethnic6288700.8315092347200.00339710.82757210.83544630.73335042.704401zambia ethnic6459100.7910062580400.00330780.78769840.79431400.73335042.775891zambia ethnic7362800.7938731457000.00370880.79016430.79758190.73335042.9987249zambia ethnic81147300.81821421402200.00201860.81619560.82023290.73335042.9987249	zambia ethnic	50	226030	0.787561	0 287	0.00 0.00	149650.78600	6450.78905	5740.733350	42.993526
zambia ethnic53150200.8293760181100.0054788.8238972.8348548.7333504.839874zambia ethnic54413100.7482340552100.0036204.74461360.7518544.7333504.813179zambia ethnic551342900.77619791730100.0019640.7742340.7781619.7333504.771666zambia ethnic561522600.79704761910300.0018036.7952440.79885120.7333504.028658zambia ethnic5711500.777027014800.02120610.75582090.79823320.7333504.038399zambia ethnic5822500.783972128700.01505610.76891600.79902820.73335042.766108zambia ethnic592376100.77647793060100.00147610.77500180.77795400.73335042.997162zambia ethnic6288700.8315092347200.00339710.82757210.83544630.73335042.704401zambia ethnic60459100.7910062580400.00330780.78769840.79431400.73335042.775891zambia ethnic7362800.7938731457000.00370880.79016430.79758190.73335042.997249zambia ethnic81147300.81821421402200.00201860.81619560.82023290.73335042.9987249	zambia ethnic	51	20860	0.772020	7 27	020 0.00	500230.7670	18 5 0.77702	2300.733350	42.915752
zambia ethnic54413100.7482340552100.0036204.7446136.7518544.7333504.813179zambia ethnic551342900.77619791730100.0019640.7742340.7781619.7333504.771666zambia ethnic561522600.79704761910300.0018036.7952440.7988512).7333504.028658zambia ethnic5711500.777027014800.02120610.7558209.7982332).7333504.038399zambia ethnic5822500.783972128700.01505610.7689160.7990282).7333504.766108zambia ethnic592376100.77647793060100.00147610.77500180.7779540.73335042.997162zambia ethnic6288700.8315092347200.00339710.82757210.83544630.73335042.704401zambia ethnic60459100.7910062580400.00330780.78769840.79431400.73335042.775891zambia ethnic7362800.7938731457000.00370880.79016430.79758190.73335042.9987249zambia ethnic81147300.81821421402200.00201860.81619560.82023290.73335042.9987249	zambia ethnic	52	38910	0.797336	1 48	800 0.00	356650.79370	6950.80090	0260.733350	43.241622
zambia ethnic551342900.77619791730100.001964@.774234@.778161@.7333504.771666zambia ethnic561522600.79704761910300.001803@.795244@.798851@.7333504.028658zambia ethnic5711500.777027014800.021206D.755820@.798233@.7333504.038399zambia ethnic5822500.783972128700.015056D.768916@.799028@.7333504.766108zambia ethnic592376100.77647793060100.001476D.775001@.777954@.7333504.997162zambia ethnic6288700.8315092347200.003937D.827572D.835446@.7333504.704401zambia ethnic60459100.7910062580400.003307@.7876984D.794314@.7333504.775891zambia ethnic7362800.7938731457000.003708@.790164@.797581@.7333504.995249zambia ethnic81147300.81821421402200.002018@.816195@.820232@.7333504.9987249	zambia ethnic	53	15020	0.829376	io 18	110 0.00	547880.82389	9720.83485	5480.733350	42.839874
zambia ethnic561522600.79704761910300.001803@.795244@.7988512D.733350&.028658zambia ethnic5711500.777027014800.021206D.755820@.7982332D.733350&.038399zambia ethnic5822500.783972128700.015056D.768916@.7990282D.733350&.766108zambia ethnic592376100.77647793060100.001476D.775001&.777954@.733350&.997162zambia ethnic6288700.8315092347200.003937D.827572D.8354463D.733350&.704401zambia ethnic60459100.7910062580400.003307&.787698&D.794314@.733350&D.775891zambia ethnic7362800.7938731457000.003708&D.7901643D.797581@.733350&D.915392zambia ethnic81147300.81821421402200.002018@.816195@.820232@.733350&D.987249	zambia ethnic	54	41310	0.748234	0 55	210 0.00	36204).7446	1360.75185	5440.733350	42.813179
zambia ethnic5711500.777027014800.02120610.7558209.79823320.73335048.038399zambia ethnic5822500.783972128700.01505610.76891600.79902820.73335042.766108zambia ethnic592376100.77647793060100.00147610.77500180.77795400.73335042.997162zambia ethnic6288700.8315092347200.00339710.82757210.83544630.73335042.704401zambia ethnic60459100.7910062580400.00330780.78769840.79431400.73335042.775891zambia ethnic7362800.7938731457000.00370880.79016430.79758190.73335042.915392zambia ethnic81147300.81821421402200.00201860.81619560.82023290.73335042.987249	zambia ethnic	55	134290	0.776197	9 173	010 0.00	1964@.7742	3400.77816	5190.733350	2.771666
zambia ethnic 58 2250 0.7839721 2870 0.01505610.7689160.79902820.73335042.766108 zambia ethnic 59 237610 0.7764779 306010 0.00147610.77500180.77795400.73335042.997162 zambia ethnic 6 28870 0.8315092 34720 0.00393710.82757210.83544630.73335042.704401 zambia ethnic 60 45910 0.7910062 58040 0.00330780.78769840.79431400.73335042.775891 zambia ethnic 7 36280 0.7938731 45700 0.00370880.79016430.79758190.73335042.915392 zambia ethnic 8 114730 0.8182142 140220 0.00201860.81619560.82023290.73335042.987249	zambia ethnic	56	152260	0.797047	6 191	030 0.00	1803@.79524	4400.79885	5120.733350	43.028658
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$ zambia \ ethnic 8 \\ \qquad 114730 \ 0.8182142 \ 140220 0.002018 \\ \textbf{0}.816195 \\ \textbf{0}.820232 \\ \textbf{0}.733350 \\ \textbf{2}.987249 \\ $	zambia ethnic	7					370880.79016	6430.79758	8190.733350	42.915392
	zambia ethnic	8		0.818214	2 140	220 0.00	2018@.81619	9560.82023	3290.733350	42.987249
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zambia ethnic European 410 0.2146597 1910 0.0184135.1962462.2330732.7333504.0699 zambia ethnic Luano 530 0.6022727 880 0.0323367.5699360.6346095.7333504.8668 zambia ethnic Luyana 370 0.6379310 580 0.0391126.5988184.6770436.7333504.7600 zambia ethnic Other 25600 0.6673315 25070 0.0058324.0661499.06731639.7333504.8119 zambia ethnic Other 25600 0.66380857 40120 0.0047023.6333834.6427880.7333504.8189 zambia ethnic Unspecified 13440 0.2249372 59750 0.0033479.2215893.2282852.7333504.0382 zambia geolev1 894001 496870 0.7393789 672010 0.001495.7383293.74042840.7333504.0382 zambia geolev1 894002 932760 0.8284867112560 0.0006963.8277904.8291830.7333504.8762 zambia geolev1 894004 396490 0.7346837.755751709110 0.0006461.7529274.7542196.7333504.7902 zambia geolev1 894005	zambia ethnic	Asian	2680	0.3055872	8770	0.00964110.29594620.31522830.73335048.13322
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zambia ethnic Luyana 370 0.6379310 580 0.039112@.5988184.677043@.7333504.760 zambia ethnic Mashi 16730 0.6673315 25070 0.0058324.6614991.6731639.7333504.818 zambia ethnic Other 25600 0.6380857 40120 0.0047023.6333834.642788@.7333504.818 zambia ethnic Other 18850 0.4292872 43910 0.00462970.42465750.433916@.7333504.935 zambia ethnic Unspecified 13440 0.2249372 59750 0.00334790.22158930.22828520.73335048.038 zambia geolev1 894001 496870 0.7393789 672010 0.00104950.7333293.74042840.73335048.151 zambia geolev1 894002 932760 0.828248671125860 0.00069630.8277904.829183@.7333504.151 zambia geolev1 894003 12879400.7535751709110 0.00064610.75292740.754219@.7333504.209 zambia geolev1 894004 396490 0.7946965 49820 0.00112080.7935757.79581740.7333504.209 zambia geolev1 894008 268890 0.7468337 360040 0.0012203.74541340.748254@.7333504.876 zambia geolev1	zambia ethnic	European	410	0.2146597	1910	$0.018413 \\ 50.196246 \\ 20.233073 \\ 20.733350 \\ 46.06962$
$\begin{array}{c} {\rm zambia\ ethnic} \\ {\rm zambia\ ethnic} \\ {\rm zambia\ ethnic} \\ {\rm Other} \\ {\rm Cother} \\ {\rm Se600} \\ {\rm Cother} \\ {\rm Se700} \\ {\rm Cother} \\ {\rm C$	zambia ethnic	Luano	530	0.6022727	880	$0.03233670.569936\\ 0.634609\\ \textbf{5}.733350\\ \textbf{4}.86687$
zambia ethnic Other 25600 0.6380857 40120 0.0047023.63338340.6427880.7333504.8188 zambia ethnic Other 18850 0.4292872 43910 0.00462970.42465750.43391680.73335048.2490 zambia ethnic Unspecified 13440 0.2249372 59750 0.00334790.22158930.22828520.73335048.0382 zambia geolev1 894001 496870 0.7393789 672010 0.00104930.73832930.74042840.73335042.8876 zambia geolev1 894002 932760 0.82848671125860 0.00069630.82779040.82918300.73335042.890 zambia geolev1 894004 396490 0.7946965 498920 0.00112080.79357570.79581740.73335042.890 zambia geolev1 894008 268890 0.7468327 560040 0.0006896.80444020.80581930.73335042.890 zambia geolev1 894009 608590 0.75763218 803290 0.00014203.74541340.7482540.73335042.870 zambia religion 1 11311800.84025141346240 0.00127710.72517410.72772820.73335042.808 zambia religion 2 39657800.83275174762260 0.00061890.83963250.8408703.73335042.896 zambia religion	zambia ethnic	Luyana	370	0.6379310	580	$0.039112 \\ 0.598818 \\ 40.677043 \\ 0.733350 \\ 2.76019$
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zambia ethnicUnspecified134400.2249372597500.0033479.2215893.2282852.7333504.0382zambia ethnicYombe4600.66666676900.0351736.6314930.7018403.733504.7392zambia geolev18940014968700.73937896720100.0010493.7383293.7404284.7333504.8876zambia geolev18940029327600.828486711258600.0006963.8277904.8291830.7333504.1513zambia geolev189400312879400.753573517091100.00064610.75292740.7542196.7333504.2993zambia geolev18940043964900.79469654989200.00112080.79357570.79581740.7333504.2093zambia geolev189400510205100.805129712675100.00068960.80444020.80581930.7333504.8762zambia geolev18940082688900.74683373600400.00142030.74541340.7482540.73335042.8762zambia geolev18940103400300.72645124680700.00093710.75668470.75855890.73335042.8083zambia religion111311800.840251413462400.00061890.83963250.84087030.73335042.8483zambia religion239657800.832751747622600.000033520.83241650.83308690.73335042.8296zambia religion536600.820627844600.01125980.80936800.8318870.73335042.7886zambia religion71066900.80441831326300.00213470.80228360.8065530.73335042.7886zambia religion81198300.80401231490400.00201530.8019970.80602770.73335042.875zambia religionHindu9300.291536131900.0157709.27576510.3073070.73335	zambia ethnic	Other	25600	0.6380857	40120	$0.004702 \\ 30.633383 \\ 40.642788 \\ 40.733350 \\ 42.81882$
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zambia geolev18940014968700.73937896720100.0010495.7383293.7404284.7333504.8876zambia geolev18940029327600.828486711258600.0006963.8277904.8291830.7333504.1512zambia geolev189400312879400.753573517091100.00064610.7529274.7542196.73335042.7909zambia geolev18940043964900.79469654989200.0011208.7935757.7958174.73335042.209zambia geolev189400510205100.805129712675100.0006896.8044402.8058193.73335042.876zambia geolev18940082688900.74683373600400.0014203.7454134.7482540.73335042.876zambia geolev18940096085900.75762188032900.00093710.75668470.7585589.73335042.876zambia geolev18940103400300.72645124680700.00127710.72517410.72772820.73335042.808zambia religion111311800.840251413462400.0006189.83963250.8408703.73335042.848zambia religion239657800.832751747622600.00033520.83241650.83308690.73335042.8296zambia religion536600.820627844600.01125980.80936800.83188760.73335042.7886zambia religion71066900.80441831326300.00213470.80228360.80655300.73335042.7495zambia religion81198300.80401231490400.00201530.8019970.80602770.73335042.875zambia religionHindu9300.291536131900.01577090.27576510.30730700.73335043.1206	zambia ethnic	Unspecified	13440	0.2249372	59750	$0.0033479 .221589 \\ 30.228285 \\ 20.733350 \\ 46.03829$
zambia geolev18940029327600.828486711258600.0006963.8277904.8291830.7333504.1513zambia geolev189400312879400.753573517091100.00064610.7529274.7542196.7333504.7903zambia geolev18940043964900.7946965 4989200.00112080.79357570.79581740.7333504.2093zambia geolev189400510205100.805129712675100.00068960.80444020.80581930.7333504.7803zambia geolev18940082688900.74683373600400.00142030.74541340.74825400.7333504.8776zambia geolev18940096085900.75762188032900.00093710.75668470.75855890.7333504.8706zambia religion 111311800.840251413462400.000127710.72517410.72772820.7333504.8483zambia religion 239657800.832751747622600.00033520.83241630.83308690.7333504.8483zambia religion 536600.820627844600.01125980.80936800.83188760.7333504.7886zambia religion 71066900.80441831326300.00213470.80228360.80655300.7333504.7493zambia religion 81198300.80401231490400.00201530.8019970.80602770.7333504.8753zambia religion Hindu9300.291536131900.01577090.27576510.30730700.7333504.1206	zambia ethnic	Yombe	460	0.6666667	690	$0.035173 \\ 0.631493 \\ 0.701840 \\ 3.733350 \\ 2.73984$
zambia geolev189400312879400.753573517091100.00064610.75292740.75421960.73335042.7909zambia geolev18940043964900.79469654989200.00112080.79357570.79581740.73335043.2097zambia geolev189400510205100.805129712675100.00068960.80444020.80581930.73335042.7808zambia geolev18940082688900.74683373600400.00142030.74541340.74825400.73335042.8776zambia geolev18940096085900.75762188032900.00093710.75668470.75855890.73335042.8706zambia religion 111311800.840251413462400.000127710.72517410.72772820.73335042.8485zambia religion 239657800.832751747622600.000033520.83241650.83308690.73335042.8296zambia religion 536600.820627844600.01125980.80936800.83188760.73335042.8296zambia religion 71066900.80441831326300.00213470.80228360.80655360.73335042.7493zambia religion 81198300.80401231490400.00201530.8019970.80602770.73335042.8752zambia religion Hindu9300.291536131900.01577090.27576510.30730700.73335043.1206	zambia geolev1	894001	496870	0.7393789	672010	$0.001049 \\ 50.738329 \\ 30.740428 \\ 40.733350 \\ 42.88768$
zambia geolev18940043964900.79469654989200.0011208.7935757.7958174.73335048.2093zambia geolev189400510205100.805129712675100.0006896.80444020.80581930.73335042.7808zambia geolev18940082688900.74683373600400.00142030.74541340.74825400.73335042.8776zambia geolev18940096085900.75762188032900.00093710.75668470.75855890.73335042.8706zambia religion 111311800.840251413462400.00127710.72517410.72772820.73335042.8083zambia religion 239657800.832751747622600.00061890.83963250.84087030.73335042.8296zambia religion 536600.820627844600.01125980.80936800.83188760.73335042.8296zambia religion 615800.854054118500.01608860.83796610.87014200.73335042.7493zambia religion 71066900.80441831326300.00213470.80228360.80655300.73335042.7493zambia religion 81198300.80401231490400.00201530.8019970.80602770.73335042.8753zambia religion Hindu9300.291536131900.01577090.27576510.30730700.73335043.1206	zambia geolev1	894002	932760	0.8284867	1125860	$0.0006963 0.8277904 0.829183 \\ 0.7333504 0.15135$
zambia geolev189400510205100.805129712675100.0006896.8044402.8058193.7333504.7808zambia geolev18940082688900.74683373600400.0014203.7454134.7482540.7333504.8776zambia geolev18940096085900.75762188032900.00093710.75668470.7585589.7333504.8706zambia geolev18940103400300.72645124680700.00127710.72517410.72772820.7333504.8083zambia religion 111311800.840251413462400.0006189.83963250.8408703.7333504.8488zambia religion 239657800.832751747622600.000033520.83241650.8330869.7333504.1546zambia religion 536600.820627844600.01125980.8093680.83188760.7333504.8296zambia religion 71066900.80441831326300.00213470.80228360.80655300.73335042.7493zambia religion 81198300.80401231490400.00201530.8019970.80602770.7333504.8753zambia religion Hindu9300.291536131900.01577090.27576510.3073070.7333504.1206	zambia geolev1	894003	128794	00.7535735	1709110	$0.00064610.75292740.754219 \\ \text{@.}73335042.79093$
zambia geolev1 894008 268890 0.7468337 360040 0.0014203.7454134.7482540.7333504.8776 zambia geolev1 894009 608590 0.7576218 803290 0.00093710.75668470.7585589.7333504.8706 zambia geolev1 894010 340030 0.7264512 468070 0.00127710.72517410.72772820.7333504.8083 zambia religion 1 11311800.84025141346240 0.0006189.83963250.8408703.7333504.8488 zambia religion 2 39657800.83275174762260 0.00033520.83241650.8330869.7333504.1546 zambia religion 5 3660 0.8206278 4460 0.01125980.8093680.83188760.7333504.8296 zambia religion 6 1580 0.8540541 1850 0.0160880.83796610.87014200.73335042.7886 zambia religion 7 106690 0.8044183 132630 0.00213470.80228360.80655300.73335042.7493 zambia religion 8 119830 0.8040123 149040 0.00201530.80199700.80602770.73335042.8752 zambia religion Hindu 930 0.2915361 3190 0.0157709.27576510.30730700.73335043.1200	zambia geolev1	894004	396490	0.7946965	498920	$0.001120 \\ 80.7935757 \\ 0.7958174 \\ 0.7333504 \\ 0.20979$
zambia geolev18940096085900.75762188032900.00093710.75668470.7585589.7333504.8700zambia geolev18940103400300.72645124680700.00127710.72517410.72772820.7333504.8083zambia religion 111311800.840251413462400.0006189.83963250.84087030.7333504.8483zambia religion 239657800.832751747622600.000033520.83241650.83308690.7333504.1540zambia religion 536600.820627844600.01125980.80936800.83188760.73335042.8290zambia religion 615800.854054118500.01608800.83796610.87014200.73335042.7880zambia religion 71066900.80441831326300.00213470.80228360.80655300.73335042.7493zambia religion 81198300.80401231490400.00201530.80199700.80602770.73335042.8752zambia religion Hindu9300.291536131900.01577090.27576510.30730700.73335043.1200	zambia geolev1	894005	102051	00.8051297	1267510	$0.000689 \\ 0.804440 \\ 20.805819 \\ 30.733350 \\ 42.78084$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	zambia geolev1	894008	268890	0.7468337	360040	$0.001420 \\ 30.745413 \\ 40.748254 \\ 40.733350 \\ 42.87769$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	zambia geolev1	894009	608590	0.7576218	803290	0.00093710.75668470.75855890.73335042.87009
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	zambia geolev1	894010	340030	0.7264512	468070	0.00127710.72517410.72772820.73335042.80831
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	zambia religion	1	113118	00.8402514	1346240	$0.000618 \\ 90.83963 \\ 250.840870 \\ 30.733350 \\ 42.84855$
zambia religion 6 1580 0.8540541 1850 0.016088@.83796610.870142@.7333504.7886 zambia religion 7 106690 0.8044183 132630 0.00213470.802283@.806553@.73335042.749 zambia religion 8 119830 0.8040123 149040 0.00201530.801997@.80602770.73335042.8752 zambia religion Hindu 930 0.2915361 3190 0.015770@.27576510.307307@.73335043.1206	zambia religion	2	3965780	00.8327517	4762260	0.00033520.83241650.83308690.73335048.15469
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	zambia religion	5	3660	0.8206278	4460	$0.011259 \\ 80.809368 \\ 00.831887 \\ 00.733350 \\ 20.82969$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		6	1580	0.8540541	1850	$0.016088 \\ 0.837966 \\ 10.870142 \\ 0.733350 \\ 2.78805$
zambia religion Hindu 930 0.2915361 3190 0.01577090.27576510.30730700.7333504 \pm 0.1200 0.01577090.27576510.30730700.7333504 \pm 0.01577090.27576510.30730700.73335040.120000000000000000000000000000000000	zambia religion	7	106690	0.8044183	132630	$0.0021347 0.802283 \\ 0.806553 \\ 0.733350 \\ 2.74913$
	zambia religion	8	119830	0.8040123	149040	$0.002015 \\ 30.801997 \\ 00.8060277 \\ 0.733350 \\ 42.87527$
	zambia religion	Hindu	930	0.2915361	3190	$0.015770 \\ 9.275765 \\ 10.307307 \\ 0.733350 \\ 48.12006$
Zambia rengion wushin 22450 0.0540425 52250 0.00502545.00501035.0550050.75555045.0050	zambia religion	Muslim	22430	0.6946423	32290	0.00502340.68961890.69966570.73335048.05837
zambia sex Female 27931900.78845103542630 $0.00042530.78802570.78887620.73335043.15586$	zambia sex	Female	279319	00.7884510	3542630	0.0004253 0.788025 7 0.788876 2 0.733350 4 8.15559
	zambia sex	Male	255889	00.7610806	3362180	$0.000455 \\ \mathfrak{D}.760624 \\ \mathfrak{D}.761536 \\ \mathfrak{D}.733350 \\ \mathfrak{D}.77371$

#2. Prepare (India) Data

Set Up

```
library(dplyr)
library(ggplot2)
library(here)
```

here() starts at /Users/sjmardevi/Documents/R Projects Here

```
library(magrittr)
##
```

```
##
## Attaching package: 'magrittr'
## The following object is masked from 'package:purrr':
##
## set_names
```

```
## The following object is masked from 'package:tidyr':
##
##
       extract
pulse_mem <- read.csv("./dataverse_files/Inputs/Datasets/20191127_State of Aadhaar_Pulse survey_mem.csv
Country Level ID Ownership Averages
pulse_mem <-
  pulse mem %>%
  mutate(education = recode(education, "1st Std. Pass" = "At least some primary",
                            "1st Std. Pass" = "At least some primary",
                            "2nd Std. Pass" = "At least some primary",
                            "3rd Std. Pass" = "At least some primary",
                            "4th Std. Pass" = "At least some primary",
                            "5th Std. Pass" = "At least some primary",
                            "6th Std. Pass" = "At least some primary",
                            "7th Std. Pass" = "At least some primary",
                            "8th Std. Pass" = "At least some primary",
                            "9th Std. Pass" = "At least some secondary",
                            "11th Std. Pass" = "At least some secondary",
                            "12th Std. Pass" = "At least some secondary",
                            "10th Std. Pass" = "At least some secondary",
                            "Graduate" = "Post-secondary",
                            "Ph.D / M.Phil" = "Post-secondary",
                                     "Post Graduate" = "Post-secondary"))
tab_overall <-
pulse mem %>%
  group_by(has_aadhaar) %>%
  summarise(weighted n =
  sum(mem_weight_extn_all_hr_regtype_strata_within_state_sample_wave)) %>%
  mutate(population = sum(weighted_n),
         weighted_proportion = weighted_n / population)
## `summarise()` ungrouping output (override with `.groups` argument)
aadhaar_enrollment_overall <- tab_overall %>% filter(has_aadhaar == "Yes") %>%
                select(weighted proportion) %>%
                pull()
tab_gender <-
pulse_mem %>%
  group_by(gender, has_aadhaar) %>%
  summarise(weighted n =
  sum(mem_weight_extn_all_hr_regtype_strata_within_state_sample_wave)) %>%
  mutate(population = sum(weighted_n),
         weighted_proportion = weighted_n / population) %>%
  as.data.frame()
```

`summarise()` regrouping output by 'gender' (override with `.groups` argument)

Population Subgroup Level ID Ownership Tabulations

```
#By Religion
tab_religion <-
pulse_mem %>%
  group_by(religion, has_aadhaar) %>%
  summarise(weighted_n =
  sum(mem_weight_extn_all_hr_regtype_strata_within_state_sample_wave)) %>%
  mutate(population = sum(weighted_n),
         weighted_proportion = weighted_n / population) %>%
  filter(has aadhaar == "Yes") %>%
  rename("subpop" = "religion") %>%
  mutate("type" = "religion", "country" = "India") %>%
  as.data.frame()
## `summarise()` regrouping output by 'religion' (override with `.groups` argument)
#By State (ADM 1)
tab_state <-
pulse_mem %>%
  group_by(state, has_aadhaar) %>%
  summarise(weighted_n =
  sum(mem_weight_extn_all_hr_regtype_strata_within_state_sample_wave)) %>%
  mutate(population = sum(weighted_n),
         weighted_proportion = weighted_n / population) %>%
  filter(has_aadhaar == "Yes") %>%
  rename("subpop" = "state") %>%
  mutate("type" = "state", "country" = "India") %>%
 as.data.frame()
## `summarise()` regrouping output by 'state' (override with `.groups` argument)
#By Gender
tab_gender <-
pulse mem %>%
  group_by(gender, has_aadhaar) %>%
  summarise(weighted n =
  sum(mem_weight_extn_all_hr_regtype_strata_within_state_sample_wave)) %>%
```

```
mutate(population = sum(weighted_n),
         weighted_proportion = weighted_n / population) %>%
  filter(has_aadhaar == "Yes") %>%
  rename("subpop" = "gender") %>%
  mutate("type" = "gender", "country" = "India") %>%
  as.data.frame()
## `summarise()` regrouping output by 'gender' (override with `.groups` argument)
#By Education
tab_education <-
pulse_mem %>%
  group_by(education, has_aadhaar) %>%
  summarise(weighted_n =
  sum(mem_weight_extn_all_hr_regtype_strata_within_state_sample_wave)) %>%
  mutate(population = sum(weighted_n),
         weighted_proportion = weighted_n / population) %>%
  filter(has_aadhaar == "Yes") %>%
  rename("subpop" = "education") %>%
  mutate("type" = "edattain", "country" = "India") %>%
  as.data.frame()
## `summarise()` regrouping output by 'education' (override with `.groups` argument)
# Bind all tabs by row
india <- rbind(tab_state, tab_gender, tab_religion, tab_education)</pre>
# Clean data for Merging
india <-
  india %>%
 select(-has_aadhaar) %>%
 rename_at(vars(weighted_n, population, weighted_proportion), ~c("n_id", "total_subpop", "prop_id")) %
 mutate("Std_Err" = NA, "Lower_CI" = NA, "Upper_CI" = NA) %>%
  select(country, type, subpop, n_id, prop_id, total_subpop, everything())
range_india <-max(india$prop_id)-min(india$prop_id)</pre>
india <-
  india %>%
  cbind(., range_india) %>%
  rename("Range" = range_india) %>%
  cbind(., runif(44, 5.7, 6.3)) %>%
  rename(coord = "runif(44, 5.7, 6.3)")
```

3. Prepare Myanmar Data

```
G1_Myanmar <-
  read_excel(here::here("./Myanmar Project/G1_Myanmar.xlsx"))</pre>
```

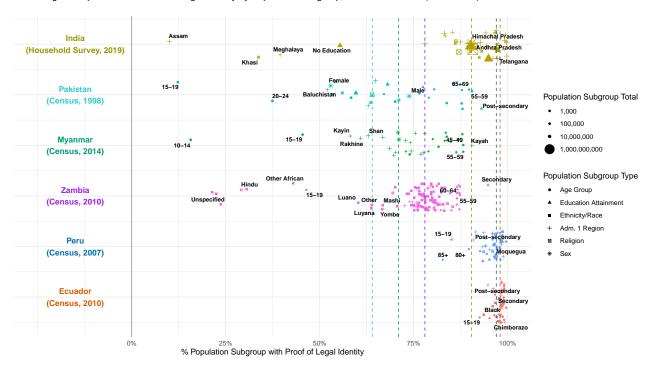
```
G2 Myanmar <-
  read_excel(here::here("./Myanmar Project/G2_Myanmar.xlsx"))
# For Sex Dis. Data
union <- read_excel("./Myanmar Project/union_myanmar_modif.xlsx")</pre>
union <-
 union %>%
 clean_names() %>%
 select(-age)
union <- aggregate(. ~sex, data=union, sum)
agg_G1 <-
 G1_Myanmar %>%
  select(-c(state_area_name)) %>%
 filter(age_group!="Total") %>%
 mutate(age_group = gsub(" ", "", age_group))
agg_G1 <- aggregate(. ~age_group, data = agg_G1, sum)</pre>
myanmar_age <-
  agg_G1 %>%
  select(c(age_group:citizenship_scrutiny_card, national_registration_card)) %>%
  mutate("n_id" = citizenship_scrutiny_card + national_registration_card,
         "prop_id" = n_id/total,
         "country" = "myanmar",
         "type" = "age2",
         "Std Err" = NA,
         "Lower CI" = NA,
         "Upper_CI" = NA) %>%
  rename_at(vars(age_group, total), ~c("subpop", "total_subpop")) %>%
  select(c(country, type, subpop, n_id, prop_id, total_subpop, Std_Err, Lower_CI, Upper_CI))
agg_state <-
 G2_Myanmar %>%
  select(2,7:17)
agg_state <- aggregate(. ~state_region_name+urban_rural, data=agg_state, sum)
myanmar_state <-</pre>
  agg_state %>%
  select(c(state_region_name:citizenship_scrutiny_card, national_registration_card)) %>%
  filter(urban_rural == "Total") %>%
  mutate("n_id" = citizenship_scrutiny_card + national_registration_card,
         "prop_id" = n_id/total,
         "country" = "myanmar",
         "type" = "geolev1",
         "Std_Err" = NA,
         "Lower CI" = NA,
         "Upper CI" = NA) %>%
  rename_at(vars(state_region_name, total), ~c("subpop", "total_subpop")) %>%
  select(c(country, type, subpop, n_id, prop_id, total_subpop, Std_Err, Lower_CI, Upper_CI))
```

```
myanmar sex <-
  union %>%
  clean_names() %>%
  select(c(sex, total:citizenship_scrutiny_card, national_registration_card)) %>%
  mutate("n_id" = citizenship_scrutiny_card + national_registration_card,
         "prop_id" = n_id/total,
         "country" = "myanmar",
         "type" = "sex",
         "Std Err" = NA,
         "Lower CI" = NA,
         "Upper_CI" = NA) %>%
  rename_at(vars(sex, total), ~c("subpop", "total_subpop")) %>%
  select(c(country, type, subpop, n_id, prop_id, total_subpop, Std_Err, Lower_CI, Upper_CI))
avg_myanmar <-
  agg_state %>%
  filter(urban_rural=="Total") %>%
  select(c(urban_rural, total, citizenship_scrutiny_card, national_registration_card)) %>%
  mutate(id = citizenship_scrutiny_card + national_registration_card)
avg_m <- sum(avg_myanmar$id)/sum(avg_myanmar$total)</pre>
myanmar<-bind_rows(myanmar_state, myanmar_sex, myanmar_age)</pre>
range_myanmar <-max(myanmar$prop_id)-min(myanmar$prop_id)</pre>
myanmar <-
  myanmar %>%
  cbind(., range_myanmar) %>%
  rename("Range" = range_myanmar) %>%
  cbind(., runif(34, 3.8, 4.3)) %>%
  rename(coord = "runif(34, 3.8, 4.3)")
```

Bind all Countries

```
size = total_subpop)) +
geom_jitter() +
theme_minimal() +
scale_y_continuous(breaks = c(1, 2, 3, 4, 5, 6)) +
geom_vline(xintercept = 0, color = "#999999") +
#Overall country proportions of ID ownership
geom_vline(xintercept = 0.98, color = "#D55E00", linetype = "dashed") +
geom vline(xintercept = 0.97, color = "#0072B2", linetype = "dashed") +
geom_vline(xintercept = aadhaar_enrollment_overall, color = "#999900", linetype = "dashed") +
geom_vline(xintercept = 0.64, color = "#33CCCC", linetype = "dashed") +
geom_vline(xintercept = 0.78, color = "purple", linetype = "dashed")+
geom_vline(xintercept = avg_m, color = "#009E73", linetype = "dashed") +
geom_text_repel(data=subset(multi_emppzi, ((country == "ecuador" & prop_id<0.94)|</pre>
                              (country == "ecuador" & prop_id>0.992)|
                              (country == "peru" & prop_id<0.90)|</pre>
                              (country == "peru" & prop_id>0.987)|
                            (country == "zambia" & prop_id<0.68 & !(subpop %in% c("Asian", "American")</pre>
                            (country == "zambia" & prop_id>0.872)|
                            (country == "myanmar" & prop_id<0.64)|</pre>
                            (country == "myanmar" & prop_id>0.88)|
                            (country == "pakistan" & prop_id>0.89)|
                            (country == "pakistan" & prop_id<0.530)|</pre>
                            (country == "India" & prop_id<0.75)|</pre>
                            (country == "India" & prop_id>0.995)|
                              (country == "pakistan" & subpop == "Male"))),
                aes(prop id, coord, label=subpop),
                size = 2.75, vnudge = 1.5, hnudge = 0.275, color = "Black", fontface = "bold") +
scale_size_continuous(name = "Population Subgroup Total",
                      breaks = c(1000, 100000, 10000000, 1000000000),
                      labels = c("1,000", "100,000", "10,000,000",
                                 "1,000,000,000")) +
labs(title = "Percentage of Population with Proof of Legal Identity by Population Subgroup, Various C
     x = "% Population Subgroup with Proof of Legal Identity", y = element_blank()) +
scale_shape_discrete(name = "Population Subgroup Type",
                     labels = c("Age Group", "Education Attainment", "Ethnicity/Race",
                                 "Adm. 1 Region", "Religion", "Sex")) +
theme(axis.text.y = element_blank(),
      axis.title.v = element blank()) +
annotate("text", x = -0.15:0, y = 1, label = "Ecuador\n(Census, 2010)", fontface = "bold", color = "#
annotate("text", x = -0.15:0, y = 2, label = "Peru\n(Census, 2007)", fontface = "bold", color = "#007"
annotate("text", x = -0.15:0, y = 3, label = "Zambia\n(Census, 2010)", fontface = "bold", color = "pu
annotate("text", x = -0.15:0, y = 4, label = "Myanmar\n(Census, 2014)", fontface = "bold", color = "#
annotate("text", x = -0.15:0, y = 5, label = "Pakistan\n(Census, 1998)", fontface = "bold", color = "
annotate("text", x = -0.15:0, y = 6, label = "India\n(Household Survey, 2019)", fontface = "bold", co
scale_x_continuous(labels = function(prop_id) paste0(prop_id*100, "%"), limits = c(-0.25, 1), breaks
guides(color=FALSE)
```

- ## Warning: Ignoring unknown parameters: vnudge, hnudge
- ## Warning: Removed 1 rows containing missing values (geom_point).



Multi-methods/data sources Comparison Analysis

```
"Existing Estimate 1\n(National ID Entity & Voters' Registration Data)",

"Existing Estimate 2 (Opinion Poll)"),

values = c("#E69F00", "#D55E00", "#009E73", "#56B4E9")) +

annotate("text", x = 1, y = -0.05, label = "Zambia", fontface = "bold", size=5) +

annotate("text", x = 2, y = -0.05, label = "Myanmar", fontface = "bold", size=5) +

annotate("text", x = 3, y = -0.05, label = "Pakistan", fontface = "bold", size=5) +

annotate("text", x = 4, y = -0.05, label = "India", fontface = "bold", size=5) +

annotate("text", x = 5, y = -0.05, label = "Peru", fontface = "bold", size=5) +

annotate("text", x = 6, y = -0.05, label = "Ecuador", fontface = "bold", size=5) +

geom_hline(yintercept = 0, color = "#999999") +

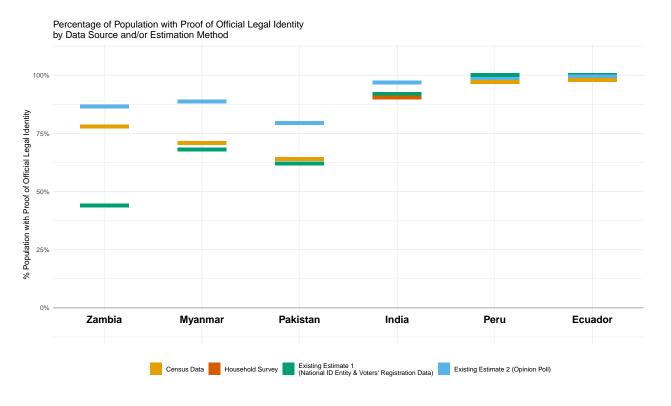
theme_minimal() +

guides(size=FALSE) +

theme(legend.position="bottom")+

theme(axis.text.x = element_blank())
```

Warning: Removed 6 rows containing missing values (geom_rect).

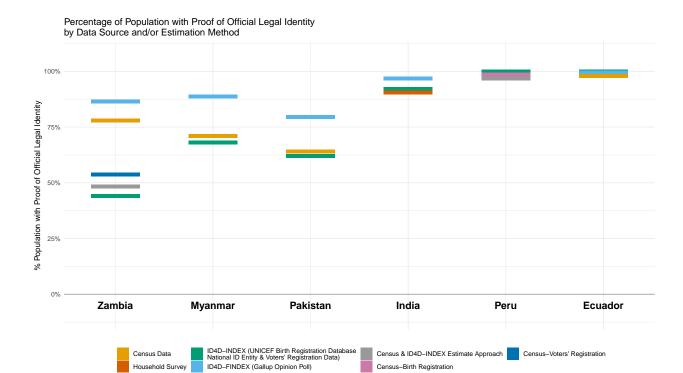


With additional estimates

```
x1 = x-0.25,
        x2 = x+0.25,
         prop1 = prop-0.008,
        prop2 = prop+0.008)
ggplot(comp_extra, aes(xmin = x1, xmax = x2, ymin = prop1, ymax = prop2, fill = data), color = "black",
  geom_rect() +
  scale_y_continuous(labels = function(prop) paste0(prop*100, "%"), limits = c(-0.1, 1.075), breaks = c
  labs(title = "Percentage of Population with Proof of Official Legal Identity\nby Data Source and/or
        x = element blank(),
       y = "% Population with Proof of Official Legal Identity") +
  scale_fill_manual(name = element_blank(),
                    breaks=c("Census", "Household Survey", "INDEX", "FINDEX", "INDEX_recalc", "birth_re
                    labels = c("Census Data", "Household Survey",
                               "ID4D-INDEX (UNICEF Birth Registration Database\nNational ID Entity & Vo
                               "ID4D-FINDEX (Gallup Opinion Poll)",
                               "Census & ID4D-INDEX Estimate Approach",
                               "Census-Birth Registration",
                               "Census-Voters' Registration"),
                   values = c("#E69F00", "#D55E00", "#009E73", "#56B4E9", "#999999", "#CC79A7", "#0072B
  annotate("text", x = 1, y = -0.05, label = "Zambia", fontface = "bold", size=5) +
  annotate("text", x = 2, y = -0.05, label = "Myanmar", fontface = "bold", size=5) +
  annotate("text", x = 3, y = -0.05, label = "Pakistan", fontface = "bold", size=5) +
  annotate("text", x = 4, y = -0.05, label = "India", fontface = "bold", size=5) +
  annotate("text", x = 5, y = -0.05, label = "Peru", fontface = "bold", size=5) +
  annotate("text", x = 6, y = -0.05, label = "Ecuador", fontface = "bold", size=5) +
  geom_hline(yintercept = 0, color = "#999999") +
  theme_minimal() +
  guides(size=FALSE) +
  theme(legend.position="bottom")+
  theme(axis.text.x = element_blank())
```

ifelse(Country == "Ecuador", 6, NA))))),

Warning: Removed 20 rows containing missing values (geom_rect).



Census-Birth Registration

Household Survey