Emily Acker

Spring 2019 Investigating Unmet Need in Haiti

**Appendix contains the following documents:**

1. **Link to github for accessing codes:** [**https://github.com/emilyracker/unmet\_need.git**](https://github.com/emilyracker/unmet_need.git)
2. **Work flow**
3. **Data dictionary**
4. **Data organization**
5. **Data Management Plan (with instructions for accessing data)**
6. **DHS Definition Three of Unmet Need flowchart**

**2.Work Flow**

**A screenshot of a cell phone

Description automatically generated3.** **Data Dictionary**

|  |  |  |
| --- | --- | --- |
| **DHS Variable Name** | **My Variable Name** | **Variable Description** |
| caseid | caseid | case identification |
| v000 | dhs\_phase | country code and phase |
| v001 | cluster | cluster number |
| v002 | house\_num | household number |
| v005 | ind\_samplewt | women's individual sample weight (6 decimals) |
| v007 | yr\_int | year of interview |
| v010 | yr\_birth | respondent's year of birth |
| v012 | age | respondent's current age |
| v013 | age\_group | age in 5-year groups |
| v024 | region | region |
| v025 | ruralstr | type of place of residence |
| v106 | educ\_level | highest education level |
| v107 | educ\_year\_high | highest year of education |
| v130 | religion | religion |
| v133 | educ\_years | education in single years |
| v149 | educ\_attain | educational attainment |
| v155 | literacy | literacy |
| v157 | freq\_np | frequency of reading newspaper |
| v158 | freq\_radio | frequency of listening to radio |
| v159 | freq\_tv | frequency of watching television |
| v169a | own\_phone | owns a mobile phone |
| v169b | use\_phone | use a mobile phone for finances |
| v170 | own\_bankacct | has an account in a bank or other financial institution |
| v171a | use\_internet | use of internet |
| v171b | freq\_internet | frequency of using internet last month |
| v190 | wealth | wealth index combined |
| v191 | wealth\_score | wealth index factor score combined (5 decimals) |
| v190a | wealth\_ruralwt | wealth index for urban/rural |
| v191a | wealth\_score\_ruralwt | wealth index factor score for urban/rural (5 decimals) |
| v201 | children | total children ever born |
| v212 | age\_firstchild | age of respondent at first birth |
| v301 | method\_know | knowledge of any contraceptive method |
| v302a | method\_use | ever used anything or tried to delay or avoid getting pregnant |
| v312 | method\_current | current contraceptive method |
| v313 | method\_current\_type | current use by method type |
| v326 | last\_source | last source for current users |
| v362 | intent\_use | intention to use |
| v384a | heardfp\_radio | heard family planning on radio last few months |
| v384b | heardfp\_tv | heard family planning on tv last few months |
| v384c | heardfp\_np | heard family planning newspaper/magazine last few months |
| v384d | heardfp\_txt | heard family planning by text message on phone in last few months |
| v393 | visitfw | visited by field worker in last 12 months |
| v393a | heardfp\_fw | did fieldworker talk about family planning |
| v394 | visit\_healthfac | visited health facility last 12 months |
| v395 | heardfp\_healthfac | at helath facility told of family planning |
| v3a02 | heardse | told about side effects |
| v3a03 | heardse\_fw | told about side effects by health or family planning worker |
| v3a04 | heardse\_deal | told how to deal with side effects |
| v3a05 | heard\_otherfp | told about other family planning methods |
| v3a06 | heard\_otherfpfw | told about other family planning methods by health or family planning worker |
| v3a08a | reasona | reason not using: not married |
| v3a08b | reasonb | reason not using: not having sex |
| v3a08c | reasonc | reason not using: infrequent sex |
| v3a08d | reasond | reason not using: menopausal/hysterectomy |
| v3a08e | reasone | reason not using: subfecund/infecund |
| v3a08f | reasonf | reason not using: postpartum amenorrheic |
| v3a08g | reasong | reason not using: breastfeeding |
| v3a08h | reasonh | reason not using: fatalistic |
| v3a08i | reasoni | reason not using: respondent opposed |
| v3a08j | reasonj | reason not using: husband/partner opposed |
| v3a08k | reasonk | reason not using: others opposed |
| v3a08l | reasonl | reason not using: religious prohibition |
| v3a08m | reasonm | reason not using: knows no method |
| v3a08n | reasonn | reason not using: knows no source |
| v3a08o | reasono | reason not using: health concerns |
| v3a08p | reasonp | reason not using: fear of side effects/health concerns |
| v3a08q | reasonq | reason not using: lack of access/too far |
| v3a08r | reasonr | reason not using: costs too much |
| v3a08s | reasons | reason not using: inconvenient to use |
| v3a08t | reasont | reason not using: interferes with body’s processes |
| v3a08u | reasonu | reason not using: preferred method not available |
| v3a08v | reasonv | reason not using: no method available |
| v3a08w | reasonw | reason not using: cs |
| v3a08aa | reasonaa | reason not using: cs |
| v3a08ab | reasonab | reason not using: cs |
| v3a08ac | reasonac | reason not using: cs |
| v3a08ad | reasonad | v3a08ad |
| v3a08x | reasonx | reason not using: other |
| v3a08z | reasonz | reason not using: don't know |
| v404 | breastfeed | currently breastfeeding |
| v405 | ameno | currently amenorrheic |
| v406 | abstain | currently abstaining |
| v467b | med\_permiss | getting medical help for self: getting permission to go |
| v467c | med\_money | getting medical help for self: getting money needed for treatment |
| v467d | med\_distance | getting medical help for self: distance to health facility |
| v467f | med\_alone | getting medical help for self: not wanting to go alone |
| v602 | fert\_pref | fertility preference |
| v605 | more\_children | desire for more children |
| v621 | more\_children\_husb | husband's desire for children |
| v624 | unmet | unmet need |
| v626 | unmet2 | unmet need (definition 2) |
| v626a | unmet3 | unmet need for contraception (definition 3) |
| v632 | cont\_dec | decision maker for using contraception |
| v714 | work | respondent currently working |
| v850a | refuse | respondent can refuse sex |
| v850b | cond\_ask | respondent can ask partner to use a condom |
| d005 | dom\_violencewt | weight for domestic violence (6 decimals) |
| d101a | controla | husband/partner jealous if respondent talks with other men |
| d101b | controlb | husband/partner accuses respondent of unfaithfulness |
| d101c | controlc | husband/partner does not permit respondent to meet female friends |
| d101d | controld | husband/partner tries to limit respondent's contact with family |
| d101e | controle | husband/partner insists on knowing where respondent is |
| d101f | controlf | husband/partner doesn't trust respondent with money |
| d101g | congrolg | cs control issue |
| d101h | controlh | cs control issue |
| d101i | controli | cs control issue |
| d101j | controlj | cs control issue |
| d102 | control\_total | number of control issues answered 'yes' (d101x = 1) |
| d103a | emotionala | ever been humiliated by husband/partner |
| d103b | emotionalb | ever been threatened with harm by husband/partner |
| d103c | emotionalc | ever been insulted or made to feel bad by husband/partner |
| d103c | emotionalc | ever cs emotional abuse by husband/partner |
| d103e | emotionale | ever cs emotional abuse by husband/partner |
| d103f | emotionalf | ever cs emotional abuse by husband/partner |
| d104 | emotional\_sum | experienced any emotional violence (d103x series) |
| d105a | physicala | ever been pushed, shook or had something thrown by husband/partner |
| d105b | physicalb | ever been slapped by husband/partner |
| d105c | physicalc | ever been punched with fist or hit by something harmful by husband/partner |
| d105d | physicald | ever been kicked or dragged by husband/partner |
| d105e | physicale | ever been strangled or burnt by husband/partner |
| d105f | physicalf | ever been threatened with knife/gun or other weapon by husband/partner |
| d105g | physicalg | ever cs physical violence by husband/partner |
| d105h | physicalh | ever been physically forced into unwanted sex by husband/partner |
| d105i | physicali | ever been forced into other unwanted sexual acts by husband/partner |
| d105j | physicalj | ever had arm twisted or hair pulled by husband/partner |
| d105k | physicalk | ever been physically forced to perform sexual acts respondent didn't want to |
| d105l | physicall | ever cs physical violence by husband/partner |
| d105m | physicalm | ever cs physical violence by husband/partner |
| d105n | physicaln | ever cs physical violence by husband/partner |
| d106 | less\_violence | experienced any less severe violence (d105a-c,j) by husband/partner |
| d107 | severe\_violence | experienced any severe violence (d105d-f) by husband/partner |
| d108 | sexual\_violence | experienced any sexual violence (d105h-i,k) by husband/partner |
| d109 | timing\_violence | timing of first event (from d105 series) in years after marriage |
| d110a | vio\_effectsa | ever had bruises because of husband/partner's actions |
| d110b | vio\_effectsb | ever had eye injuries, sprains, dislocations or burns because of husband/partner |
| d110c | vio\_effectsc | ever went to health facility because of husband/partner's actions |
| d110d | vio\_effectsd | ever had wounds, broken bones, broken teeth or other serious injury because of h |
| d110e | vio\_effectse | cs because of husband/partner's actions |
| d110f | vio\_effectsf | cs because of husband/partner's actions |
| d110g | vio\_effectsg | cs because of husband/partner's actions |
| d110h | vio\_effectsh | cs because of husband/partner's actions |
| d111 | vio\_effects\_sum | experienced any of listed husband/partner's actions (d110x series)\*\*\* |
|  | age2 | age^2 |
|  | urban | 0=rural, 1=urban |
|  | unmet4 | 1 = unmet need for limiting OR unmet need for spacing; 2 = using for spacing OR using for limiting OR no unmet need; 3 = never had sex OR unmarried and no sex in last 30 days; 4 = infecund, menopausal |
|  | unmet5 | 0= using for spacing OR using for limiting ; 1= unmet need for limiting OR unmet need for spacing |

**4. Data Organization**

Organization:

* Folders organized by data type (i.e. pdfs in theory, data in raw\_data and other folders)
* Using .do files to record code
* Using file version aspect of Google Drive to update files

Naming protocol:

* Use  \_underscores\_ to denote spaces
* Pdfs follow “lastname\_year of publication\_titleinastring”
  + “bongaarts\_2006\_thecauasesofstallingfertilitytransitions.pdf”
* Include version#\_country\_year\_thing
  + “4.1\_haiti\_2016\_process”

**5. Data Management Plan**

### **Data Collection**

**What data will you collect or create?**

I will use data from Demographic and Health Surveys about Haiti. The DHS periodically conducts very detailed household-level surveys. I will use the Stata-compatible version of this data in order to efficiently manage the thousands of variables and observations in each round of surveys. I will use “Individual Recode” (female household member) data from 2012-2013 and 2016.

**How will the data be collected or created?**

This data must be downloaded directly from the DHS website after registering and creating a project. Data must be requested for each project.

### **Documentation and Metadata**

**What documentation and metadata will accompany the data?**

I will rename this data to facilitate analysis. See the corresponding data\_dictionary to see how variables were renamed. In my documentation, I have also included a flow chart and list of steps that can be followed do reproduce my findings.

I have also made my .do files available so that my process can be validated by others.

### **Ethics and Legal Compliance**

I will comply with the following DHS terms of use:

* Agree to use the requested data only for the registered research or study.
* gree to submit a new research project request if I want to use the data for another purpose (using the “Create a New Project” link in my DHS user account).
* Agree that the datasets will not be shared with other researchers without the written consent of The DHS Program.
* Agree to keep the data files in a secure location where they cannot be accessed by unauthorized users.
* Agree to treat all data as confidential, and to make no effort to identify any individual, household, or enumeration area in the survey.
* Agree that no results will be published in which communities or individuals can be identified.
* Agree that the data will not be used for any marketing or commercial venture.
* Agree to submit a copy of any reports/publications resulting from using the data files to: references@dhsprogram.com.

### **Storage and Backup**

**How will the data be stored and backed up during the research?**

I will store my data on my personal laptop and back up my files biweekly. I will also store my project in a private Google Drive folder. I will publish my code on Github for future reuse.

### **Selection and Preservation**

**Which data are of long-term value and should be retained, shared, and/or preserved?**

All of this data is of long-term value and should be maintained by DHS for future use.

I will also maintain this data for my own future projects.

I will make my code open-source and published on github as: <https://github.com/emilyracker/unmet_need.git>

### **Responsibilities and Resources**

**Who will be responsible for data management?**

DHS is responsible for maintaining and managing their data. I will only be responsible for maintaining the data I have downloaded for my personal use for this project.

### **Data Retrieval**

1. Register to use DHS data sets at <https://dhsprogram.com/data/new-user-registration.cfm>
2. Request data for Haiti
   1. This request is usually processed in 1-3 business days
3. Download 2016-2017 Standard DHS data, Individual Recode ( [HTIR70DT.ZIP](https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=HTBR70DT.ZIP&Tp=1&Ctry_Code=HT&surv_id=503&dmode=normal))
4. Download 2012 Standard DHS data, Individual Recode ([HTIR61DT.ZIP](https://dhsprogram.com/customcf/legacy/data/download_dataset.cfm?Filename=HTBR61DT.ZIP&Tp=1&Ctry_Code=HT&surv_id=368&dmode=normal))
5. Rename raw data folders as haiti\_2016 and haiti\_2012, respectively
6. In haiti\_2016, HTIR61FL.DTA >rename> 1.0\_haiti\_2016.DTA
7. In haiti\_2012, HTIR70FL.DTA >rename> 1.0\_haiti\_2012.DTA

**6. DHS Definition Three of Unmet Need flowchart**