README - Feed the Future ZOI Survey CSPro Tablet Data Entry Program

*If you encounter any bugs or errors while using the core version of this program, please email Kiersten Johnson (kiejohnson@usaid.gov) with details of the problem.*

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**November 12, 2018**

*ListElig.app, Interviewer.apc, CheckID.apc*

* Added rep\_header.txt to LOOKUP folder (header for HTML reports)
* Improved coding for HTML viewing of reports on Android tablets
* Added indicators to all text appearing {ENG+}...{+ENG} to simplify process of translation of data collection programs into any other language
* Added TEMP folder

*PEEL.apc, PEEL.dcf*

* Education level/grade in roster updated per change in QRE
* Added indicators to all text appearing {ENG+}...{+ENG} to simplify process of translation of data collection programs into any other language
* Corrected logic in V7433M, V7100(D/E), V7200(D/E), …, V7700(D/E)

*Supervisor.apc*

* Added indicators to all text appearing {ENG+}...{+ENG} to simplify process of translation of data collection programs into any other language

**November 21, 2018**

*PEEL.apc, PEEL.dcf*

* Correct logic in V365M, V7101 (adding errmsg), M6404
* Corrected value set in M6400C

**December 2, 2018**

*PEEL.apc, PEEL.dcf*

* Added V105A to household roster
* Adjusted language on V101

**January 3, 2019**

*Interviewer.apc*

* Update data transfer to cspro 7.1 - all programs can be run in CSPro 7.1 - and other various fixes to data transfer/concatenating data from second interviewers into household data file
* Allowed for combination of Ag data into household (separate from Interviewer B)

*Supervisor*.*apc*

* Update data transfer to cspro 7.1 - all programs can be run in CSPro 7.1 - and other various fixes to data transfer/concatenating data from second interviewers into household data file
* Several updates to closing clusters program (CheckID)

*CTRL\_HH.dcf*

* Interviewer assignments in CTRL\_HH dict changed to zero-filled

*Secondassign*.apc

* Added a bit of code around writecase if m = 1

*SecondModule.apc*

* Set default interviewer for Ag module to 000 (unassigned), requiring assignment of Ag interviewer only

*PEEL.apc, PEEL.dcf*

* Corrected V111A QSF
* Added V7134 = 1; V7135 = xintnum; to postproc of V7133M
* Preproc of AHINTNUM1
* Removed prefilling of consent in Ag modules (in case a household wants to refuse halfway through or wants to refuse a specific module)
* Updated getgps() function
* Removed set attributes statements (not needed and will not be supported in future CSPro versions)
* “Flow control” button became “exit interview”
* Addition of VFARMER to identify each HH member as a farmer or not
* Vast improvements to indexing of farmers/plots/VCCs - mainly in Modules 7.90, 7.91, 7.92 and the plots farmed variables in 7.1-7.7 (V7100E, V7200E, …)
* Updates to list of possible farmers to choose from - V235(A-D), V237(A-D), V239(A-D)
* Change to skip in postproc of AN405

**June 14, 2019**

*SAMPSEL.dcf*

* Dropped XSTRUCT from sampsel.dcf (structure number not needed for programming) and list of selected households from sampsel.dcf (not needed or used)

*CFTF.apc, CFTF.dcf, CFTF.qsf, CFTF.fmf (previously PEEL)*

* Data entry program moved from “Peel” folder to the “Entry” folder
* At request of USAID-BFS, all references to “Peel” (contract for developing programs) removed and replaced with “CFTF” (representing ‘Core Feed the Future’)
* Updated data collection programs to CSPro 7.2 (very minor differences from CSPro 7.1)
* Added onfocus statement to V103 to declare name of the male primary decisionmaker (female is no male) to be used to reference for relationship of each member to that person in the QSF
* Added warnings on percentage of plot that is each VCC in 7.9108A-C (if VCC wasn’t farmers, percentage should be 0 and vice versa)
* V563 - change v500f to v500d
* Outcomes of modules - code added to set in the module ending time (minutes) and based on consent variables (that include other result options), coded this way for CAPI flow of interview
* Added check on V104 for PDMs - must be 18 years of age
* AHRESULT was being set to 1 in all cases except when consent not given (in AHCONSENT), code adjusted
* Added restriction that if 7.90 is refused, 7.91, 7.92 should also be refused (farmer’s plots must be mapped in order to be measured/yield ascertained)
* Code cleaned up in V79109
* V79103 - adjusted value set, specifically there were two code I's
* Dropped YSELHH from clusters.dcf - not needed for data collection programs and was difficult to set up in clusters.dat
* Changed sampsel.dcf to relative position (as opposed to fixed position)
* Locked (protected) variables that are filters - noinput option in preproc was allowing interviewers to make changes
* Improved age check on WEAI section - specifically lbd when year of birth unknown
* WEIA men's age check had a woman's variable
* Corrected use of dcheck() function
* Corrected skip on V8114
* Added in all the xfrom = 2 and xfrom <> 2 code that allows secondary editing and central office access to questionnaire data
* Dropped the following code that *may* have been cause of occasional deletion of data (to be tested further), but wasn’t adding anything:

preproc

if endinginterview then

if visualvalue($(curocc())) = notappl then

endsect;

endif;

endif;

* Corrected use of message 0154
* Put labels/letters into DEC\_MOD in dictionary for use in central office secondary editing
* Dropped AHGPS from CFTF.dcf because GPS data must be stored in separate data file
* French translations of error messages within logic included - english is surrounded by {ENG+} … {+ENG}. French is surrounded by {FR+} … {+FR}. One or the other should be commented out depending on main language of survey.
* Corrected coding of V510 in case that month of DOB = month of DOI
* Increased number of decimals of women’s weights - should be 2 decimals to match scales
* Moved AN517 error message to AN518
* Include writing in the names for anthro section to aid in secondary editing (easy test of whether columns were switched)
* Because a farmer level result code was needed for weighting, all outcomes and interviewer numbers for Ag modules have been moved from MOD\_7\_INF to their respective modules
* Anthropometry (women and children) time stamps - added codes 94,95,96 to allow for women/children who are not present, refused or other so that average time for anthro modules isn’t biased
* Added transition text (ex. “Next I will be asking you…”) variables where they appear in questionnaire, with a response option of “Continue” so that when entering translations, transition text is not lost in the first question of each module
* Aligned error message numbers with modules (Module 1 error messages are 101,102,103... , Module 2 error messages are 201,201,203…)
* Removed secondary activities from Module 6.6A (women and men) to align with QRE
* Changed labels in Consumption Module to be 8.1,8.2,8.3… (were previously 7.1,7.2…)
* Added error messages for revisits per module - if a respondent is marked as “not available” to answer a specific module, an error message will alert the interviewer upon exiting the questionnaire
* Added preproc check from QRE into V8106
* V8704 - added text that response is in years to QSF
* Module 8.1 - items from 8167 forward were asking about own production and gifts, skip added in to skip after purchases
* V6202 - removed requirement that “self” be selected
* V6201 - added skips for those items that are grayed out in QRE
* For repeating sections of the QRE (women/children nutrition/anthro, farmers/crop modules), headers added to all questions in QSF where it’s useful to be reminded which woman/child/farmer/crop is being referenced
* V7129 - value set fixed to match QRE
* V79202N, V79204N - added 0 to value sets

**June 26, 2019**

*General*

* Cleaned up variable labels in several dictionaries, changed default version of CSPro to 7.2 (NOTE: if using another version of CSPro, all files can be opened in a text editor, and the version at top simply changed. Other modifications to logic etc may need to be modified, but files will open in proper version of CSPro)

*CFTF.apc, CFTF.dcf, CFTF.qsf, CFTF.fmf*

* Day, month, year added for all time stamps to improve accurate reporting of interview duration
* Modified names of time stamp variables in the WEAI (male and female) and Ag modules to improve uniformity
* V8112 - corrected skip to time stamp
* Module 8 - removed submodule respondents as only one respondent is required for consumption module
* V430, V560 updated collection of “other” answers
* V6601, M6601 - changed “other” to code X (from code W)
* V8603 - corrected error message number
* Deleted PeelFunctions.app from LOOKUP folder and moved necessary functions to data collection programs (CFTF.ent)
* Added coding for VANIMAL, which marks whether each member of the household was responsible for raising any LVCC animal.
* Cleaned up coding around VFARMER, which marks whether each member of the household was responsible for raising any VCC.

*Interviewer.apc*

* Removed the following code from file merging functions:
* if i = 0 then rec\_1 = "99999945";endif;
* Correction to merging code for module 7: ct\_record[32:3] became ct\_record[13:3]
* Added functionality to automatically backup household interview data if the size of the file decreased from previous backup (prevents loss of data in the case of accidental overwrites by interviewers, or accidental change of outcome for a module) - data can be restored by CSPro programmer or a trained ICDM
* Cleaned up commenting
* Replaced “PEEL” with “CFTF”
* Removed server downloads of PeelFunctions.app, set location of data entry program on server to ENTRY folder (instead of PEEL folder, which has been removed)
* Added French translations of messages that appear to interviewer and of the menus themselves - to use, change {ENG+} … {+ENG} to {{ENG+} … {+ENG}} AND {FR+} … {+FR} to {{FR+} … {+FR}}, which can be done in a mass find/replace
* Simplified code at beginning of en\_genpff() function

Updated to CSPro 7.2 throughout logic

*Supervisor.apc*

* Dropped file “syncfile” because it isn’t needed in new versions of CSPro and is a reserved name in CSPro
* op\_serial() had two selcase statements (removed one)
* Removed YSELHH from logic for hidden households (no need to include list of households in sampsel.dcf, so was removed from there as well)
* Dropped references to “PEEL” in Supervisor menu application
* Added code for CSWeb as data transfer method
* Removed extraneous commented out code

*CentralOffice.apc*

* Updated to CSPro 7.2 and compiled, main changes are to update download of data from server to syntax for 7.2.

*Clusters.dcf*

* Dropped household selection variables (YHHSEL, YTOTEASTR, YTOTEAHH, YSELINT) - they aren’t used or needed when selection isn’t done by CSPro programmer

*AddHidden.ent*

* Removed logic for YSELHH, not needed

*LOOKUP folder*

* added country neutral examples of small clusters for training (5 households only)

**July 1, 2019**

*CentralMenu.apc*

* Changed references of “peel” to “CFTF”

*CFTF.dcf*

* Added name of respondent to women’s nutrition module
* Adjusted value sets on start/end times in anthropometry module for women and children, allowing for codes for not present, refused, other
* Aligned numbering of end times in women’s anthro with questionnaire

*ENTRY folder*

* Changed names of .apc, .mgf, .qsf to be only name of application and file extension (i.e. dropped extra “.ent” from file names)

*CFTF.apc*

* V300D - dropped incorrect coding with “other” response option (not needed)
* V400E, V500F - corrected skip to go to V431H/ V564H (end time of module) before going to next woman/child
* V424 logic was missing

*ListElig.apc*

* Dropped references to “PEEL”
* Updated to CSPro 7.2

*CheckID.app*

* Updated to CSPro 7.2
* Added checking on barcodes for plots (ensure that the supervisor transmittal sheet matches the interviewers data)
* Added French translations
* Added logic to accommodate for partial result codes (AHRESULT = 11)
* Dropped references to “PEEL”
* Corrections to checks on module completion and to allow for refusals to modules

**July 22, 2019**

*CFTF.dcf*

* Moved module 1 time stamps to Module 1 record in dictionary
* Added weight variables for all required weights (added several per request of BFS)
* Added headings for category of roof/floor/walls into dictionary to help differentiate
* Added variables to hold anthropometry Z-scores (removed extra anthro variables)

*CFTF.apc*

* Changed logic to reserve first and second lines in household roster for the male and female primary decisionmakers (respectively)
* Added working variable (roster) to hold total number of rows in household roster - required because the variable AHMEMBER (total number of members in household) was being used to search the roster throughout the data collection programs, but in cases where a PDM is missing, the total number of rows in the roster is not always equal to the number of household members
* Added logic throughout to accommodate reserved lines for PDMs, including but not limited to ensuring no blank lines appear as possible respondents and ensuring entire roster is searched for eligible persons
* Added reenter on V103 in case where too many parent relationship codes are selected
* Simplified calculation of total number of eligible kids and women
* Moved setting out outcomes for nutrition modules (they were getting set before all kids/women had been visited)
* Adjusted code so that all occurrences in consumption module are filled (regardless of the first answer to the other groups being no)

**August 27, 2019**

*CFTF.dcf, CFTF.fmf*

* Added “other” language to QRE languages (cover page of QRE) - logic added as well
* Added day/month/year to time stamps to module 1
* V7123, V7224, V7423, V7523, V7524, V7623, V7727 - updated response categories (additional response added so logic updated as well)
* Added V75049A, V75049B
* Consumption modules - increased maximum in number variables to max for number of digits
* Added record MOD\_END - required for combining Interviewer A, B, Ag data

*CFTF.apc*

* Updated movetoflow() function to allow navigation to menu after flow control
* Added OnStop() function to prevent “back arrow” on tablet from closing out questionnaires - stopcheck variable set throughout logic to accommodate being before/after flow control when trying to exit
* Added ENDQRE as place-holder in last record in dictionary so that data can be properly combined without infinite loops (note: data combines in Interviewer.apc)
* Added logic in PROC HHEA to go to module menu if revisiting the household
* Added collection of day/month/year time stamp for module 1
* Modified logic in DEC\_MOD so that male WEIA is not required in households where female WEIA is not being collected (i.e. no female PDM)
* DEC\_MOD - fix to selection of module 2 in flow control menu
* Added logic for getting translated activities/items into QSF (ex. Onfocus of V6200C)
* Corrected skip on M6204
* Dropped check for previous consent in consumption module since outcome of module is defined there
* Correction to onfocus for V8104B, V8106B, V8107B

*Interviewer.apc*

* Added logic to return to interviewer main menu after en\_first\_transmission()
* Send household control files to supervisor with other data in en\_transmission()
* Updated en\_join\_files() adding END\_MOD record to dictionary so that function always works
* Added error messages for if attempt to combine data doesn’t work because data from B/Ag wasn’t sent to A (*Interviewer.mgf*)
* Updated en\_getresult() function to not be hard-coded (dictionary/datafile read dynamically now)
* en\_verif\_mod1() function - !open(working\_file) became !fileexist(working\_file)

*ListElig.apc*

* Added deletion of previous report so report opens first time
* Display women/children based on HH age as eligible for nutrition/anthro since they must be interviewed (even if the result is they aren’t eligibile)

*ListElig.apc*

* Modified to only require male WEIA if female WEAI is also present

*CFTF.mgf*

* Modified 00130 and 00134

*Interviewer.ent*

* Added external dictionaries CFTF.dcf and CTRL\_HH.dcf

*SAMPSEL.DAT (/LOOKUP)*

* Updated to include total number of HHs in each cluster in record type 1

*Supervisor.apc*

* Added logic to return to interviewer main menu after en\_first\_transmission() and any other transmissions
* Added transmission of individual interviewer files as backup to server
* Update to control file if total number of households modified

*CheckID.apc, CheckID.mgf*

* Added deletion of previous report so report opens first time
* Modified checks so that male WEIA is not required in households where female WEIA is not being collected (i.e. no female PDM)
* Modified name of PDM to display based on whether male/female PDMs exist
* Added line in between households in display
* Print women/children for anthro/nutrition module only if record is filled (i.e. in data entry program, until HH is complete, all 15 records are created, but are blank)
* Added GPS message and message for if data was not sent properly

*CentralMenu.app*

* Updated file locations for downloads of data

*SecondaryEditing.app, StructureCheck.app*

* Updated for CSPro 7.2, PEEL >> CFTF

**June 2, 2020**

*CFTF.dcf, CFTF.fmf*

* Adjusted weight variables to include 6 decimal places (instead of implied)
* V208, code 23, corrected spelling of “latrine”
* Outcome variables - code 4 changed from postponed to “Respondent not at home” and made codes consistent among all outcome variables
* Moved outcome and interviewer variables for Module 4 and 5 onto the record (previously was in its own record) to align better with the addition of outcomes for each participant (and not just the whole module)

*CFTF.apc, CFTF.mgf*

* Changed outcome variable choices to “Respondent not at home” instead of “Postponed” and made outcome variables consistently coded across modules
* Updated AHMEMBER to account for potential blank lines
* Added check for member in household being either usual or a guest in V105B
* Corrected skip in V503
* Removed “| xfrom = 2” from preprocs of records to allow for secondary editing modifications

*CentralMenu.app*

* Added downloads of latest programs and control files from server
* Corrected collapse() function

*FieldCheck.app*

* Updated to accommodate blank lines in roster, and corrected column headers in some tables

*SecondaryEditing.app, SecondaryEditing.mgf*

* Corrected code for V103 for parent-in-laws
* Updated to accommodate blank lines in roster
* Added restriction for edit checks in Modules 4 and Module 6 (male and female) to be for only those who consented
* Added check to compare sex in Module 5 versus the household roster

*StructureCheck.app*

* Increased length of working variable yresult to be 13
* Increased length of AHRESULT to 2 in output

*Interviewer.apc*

* Changed location on server for receiving CT\*.dat files
* Adjustment for updated version of CSPro to allow for files from Interviewer A and B to combine, as well as ensure supervisor data transfers correctly (namely for “incomplete” households - refused, extended absence, etc)

*Export.apc*

* Updated to CSPro 7.2 and changed PEEL to CFTF
* Added relations for agriculture modules
* Added weight variables

**August 27, 2019**

*General*

* Upgrading programs to CSPro 7.6

*CFTF.dcf*

* Corrected typos in labels/response options
* Updated value sets for date variables to allow for years of data collection 2021 - 2026
* V111A - updated value set to align with core QRE
* V203 - updated response option 32
* V240B - updated code for don’t know (99.8)
* Consent obtained variables - added additional outcome options, including not available, too ill to respond, and other
* V401Y - updated value set to align with updated date for data collection
* V402 - expanded allowed ages since eligibility is checked in subsequent questions
* V505 - response option 3 updated (card not available)
* V554 - label updated
* V7105 - added missing response option D

*CTRL\_HH.dcf*

* Added crop names to variable labels

*CheckID.app*

* Updated display of result code if not complete (show 2-digits)
* Updated count of household members if either male/female PDM not rostered
* Updated listing of women in Module 4 and children in Module 5

*Interv.dat*

* Added missing sex variable to example file for team composition

*Sampsel.dat*

* Added missing total number of households variable from example file for households

*/Export folder*

* Removed old versions of export program

*SecondaryEditing.app, SecondaryEditing.mgf. SecondaryEditing.ord*

* Added check on the sex of child in Module 5 against household roster (needed in surveys where anthropometry is not collected)

*CFTF.app, CFTF.mgf*

* Updated input variable to BarCodeError( alpha(5) xbarcode ) function to accommodate new version of CSPro (“barcode” is now a reserved name)
* Created a new function, outcome( xvar, yvar), to set outcome variables for modules and replaced code in end time (minutes) variables to more efficiently set outcome variables
* Function ok2exit() - updated check on Module 4 for AHWOMEN = 0
* Added setting of SS\_750 variable (N/A or OPEN)
* Proc V111B - updated recode function for CSPro 7.6 and to align with core response options; added a reenter if error message triggers
* References to V107 and V108 - added NAtoZero function to ensure that they are not counted when set to notappl
* V228C, V228D, V230C, V230D, V232C, V232D - onfocus - set j = 1 (updated from j = 0)
* PROC FLOW\_CONTROL - onfocus - added removal of extra exit button
* PROC DEC\_MOD - added status of Ag modules to valueset
* Module 4 - added additional checking of consistency between age and date of birth in V402, V403, and V404
* V511 - preproc - added ! in front of checks on DOB/age to properly set variable (was backwards)
* V562 onfocus - updated input line number in setting “name”
* V563 - added missing “postproc” statement above error message check
* V6102 postproc - narrowed range of age check (+/- 3 years) and allowed for error message 602 to only display upon exiting
* V6103 - added additional age/DOB consistency checking
* V6204 postproc - added “next” to skip statement
* V7100, V7200, V7300, … (all intro variables for ag) preproc - moved endsect statement up to exit if not in the central office only
* V7211B - updated alphachk function for “YZ” tail
* V7709E postproc - updated “other” code to 6
* V7710 postproc - corrected skip
* V7727 postproc - updated error message number for code F
* Module 7.50 - updated code to specific variables from module 2 that define eligibility (removing generic code)
* Error message 506 - updated to yoghurt
* Error message 99995 - updated to shell/shuck/thresh

*SecondModule.apc*

* Added check that all modules have been assigned to Interviewer A, B, or Ag

*Interviewer.apc*

* Updated file locations to align with CSPro 7.6 - in most cases, file paths needed to be changed from “./” to “../”
* Improved serialization of tablet functions - added checkserial()
* en\_genpff() function - removed apptype 5
* Replaced hard coding in labels of menus with variables

*CFTF.qsf*

* Updated to CSPro 7.6 (formatting entirely different - produced automatically by CSPro when updating a program to 7.6)