2017 SURVEY on COSTS and RETURNS of TOMATO PRODUCTION

Training on Data Processing System, Data Review and Validation

Rationale, Objectives and Application Software

PHILIPPINE STATISTICS AUTHORITY
Solid • Responsive • World-class

Rationale

Data Processing System:

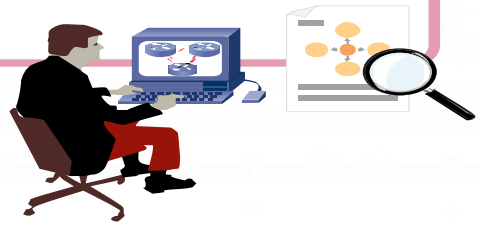
1

Encoding of Survey Returns

Data encoding/capture

2

Error Listing / Data Cleaning of Raw Data Files



Data review/cleaning of microdata (raw) files

3

Generation of Output Tables / Estimation

Data tables generation

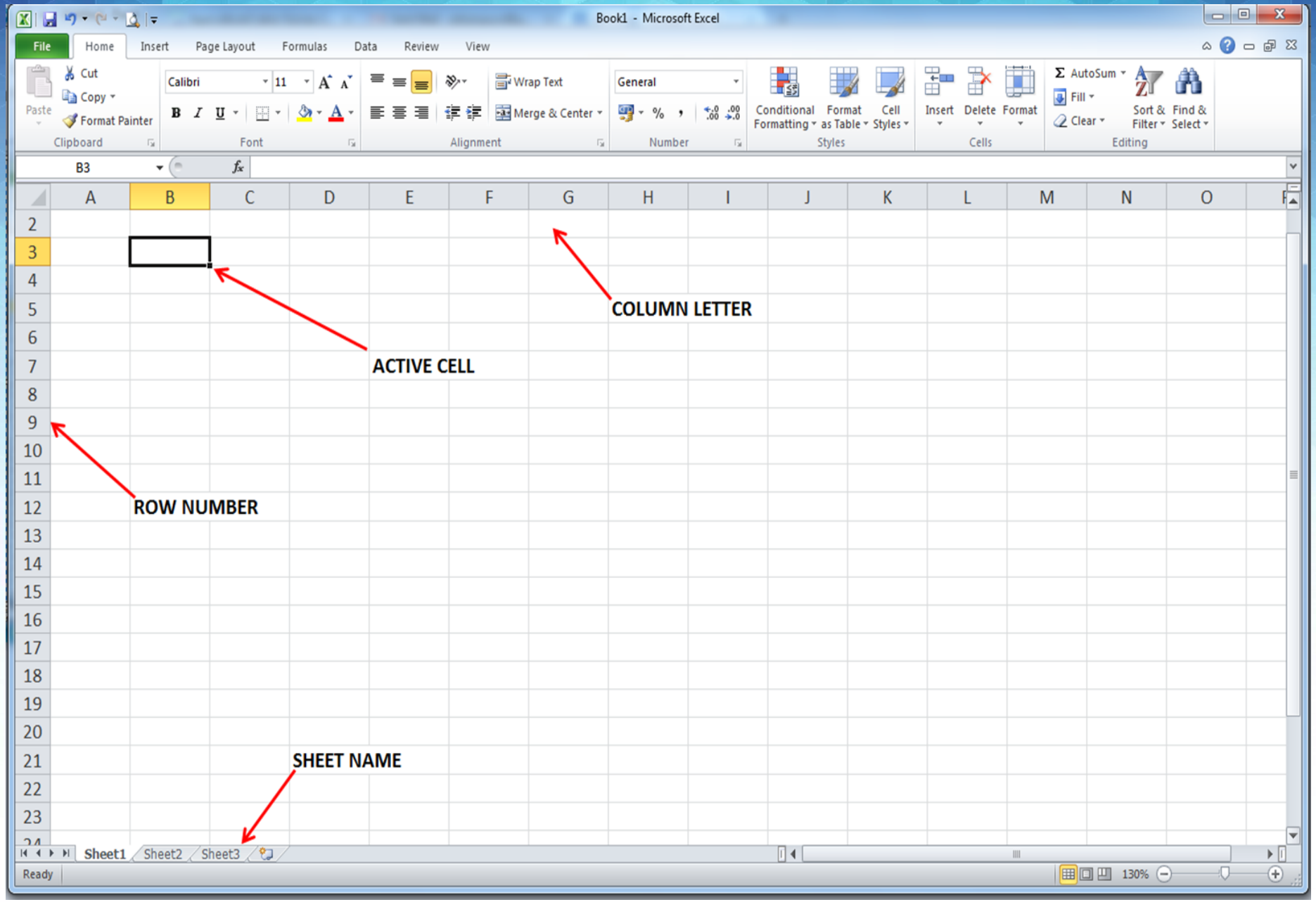
Objective

To train the participants on the use of customized data processing system for the 2017 Survey on Costs and Returns of Tomato Production.

The Application Software

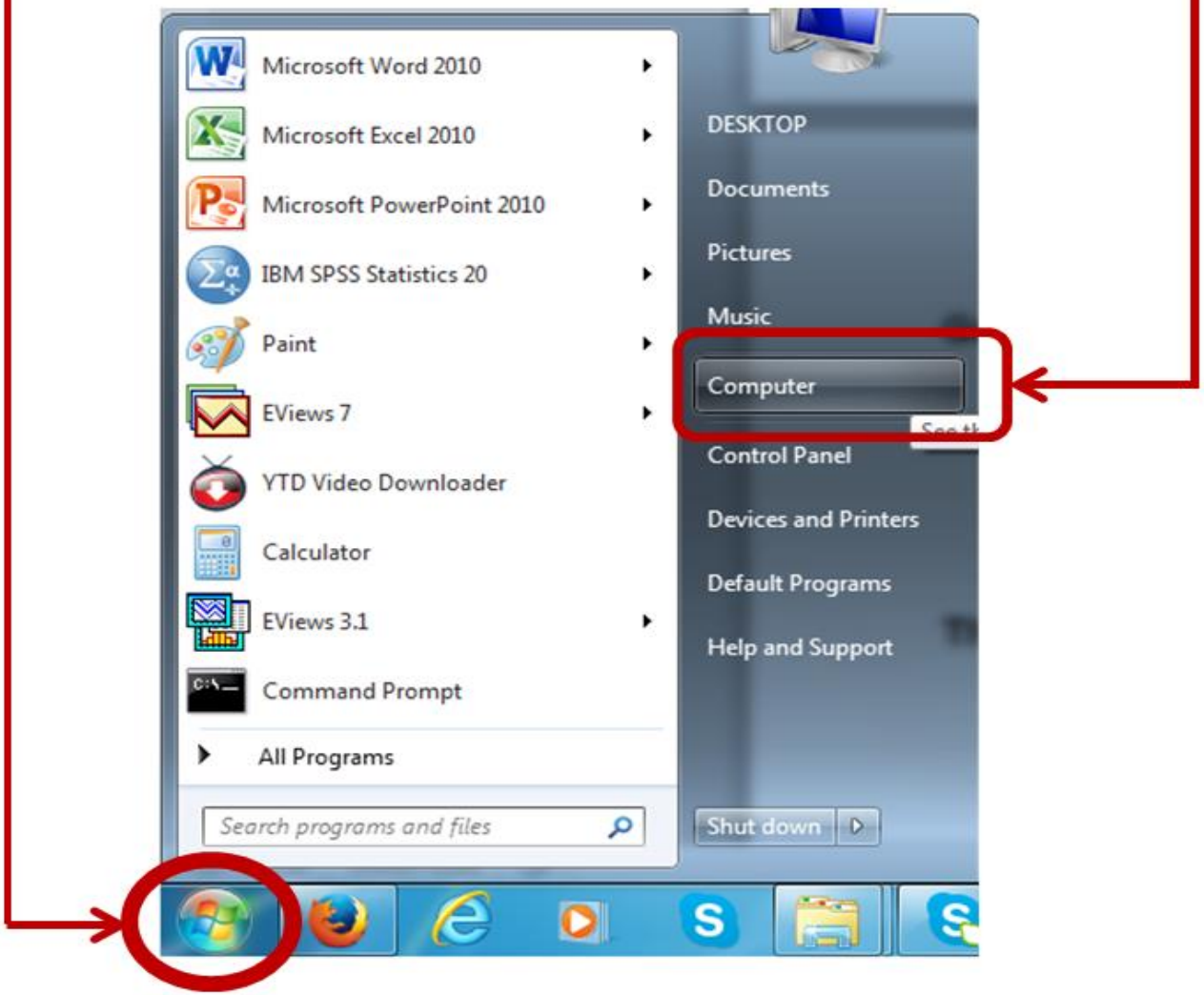
MS Excel - spreadsheets using a grid of *cells* arranged in numbered *rows* and letter-named *columns* to organize data manipulations like arithmetic operations.

The Application Software



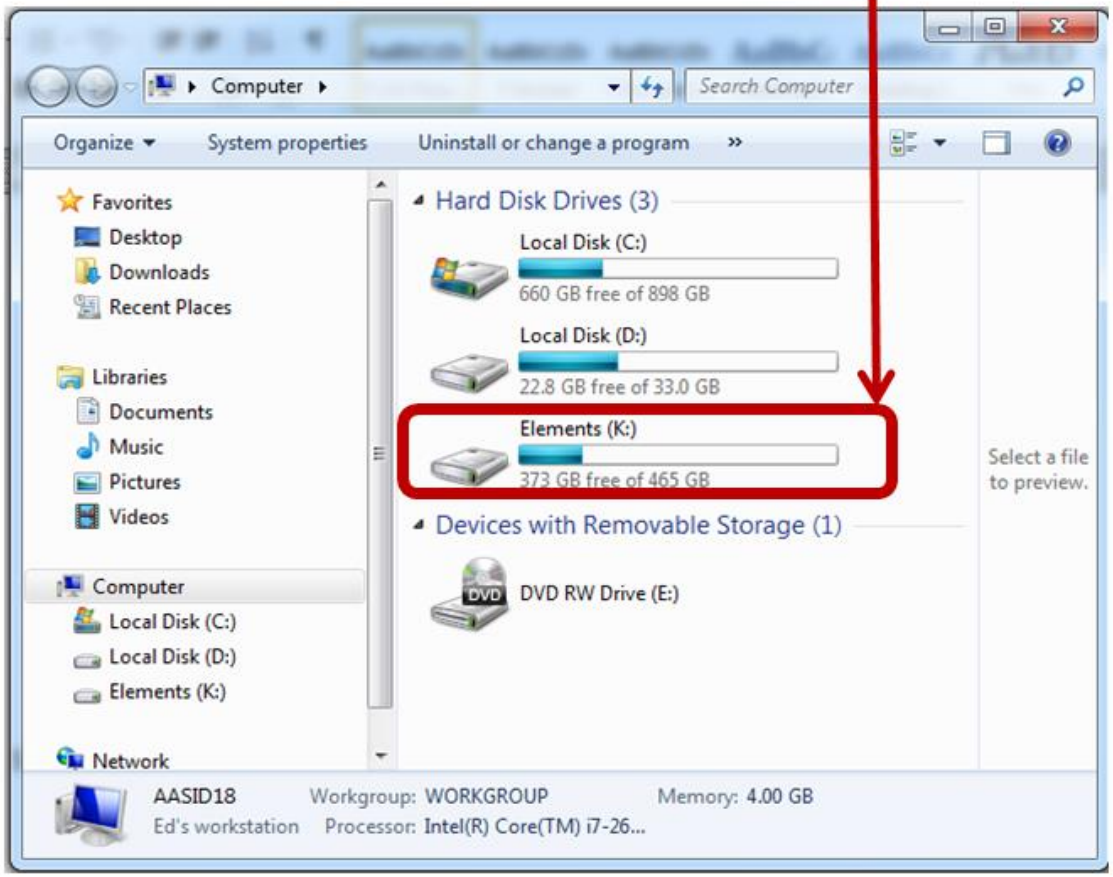
Getting Started

1. Copy the data processing system files
   - Click Start, Computer,



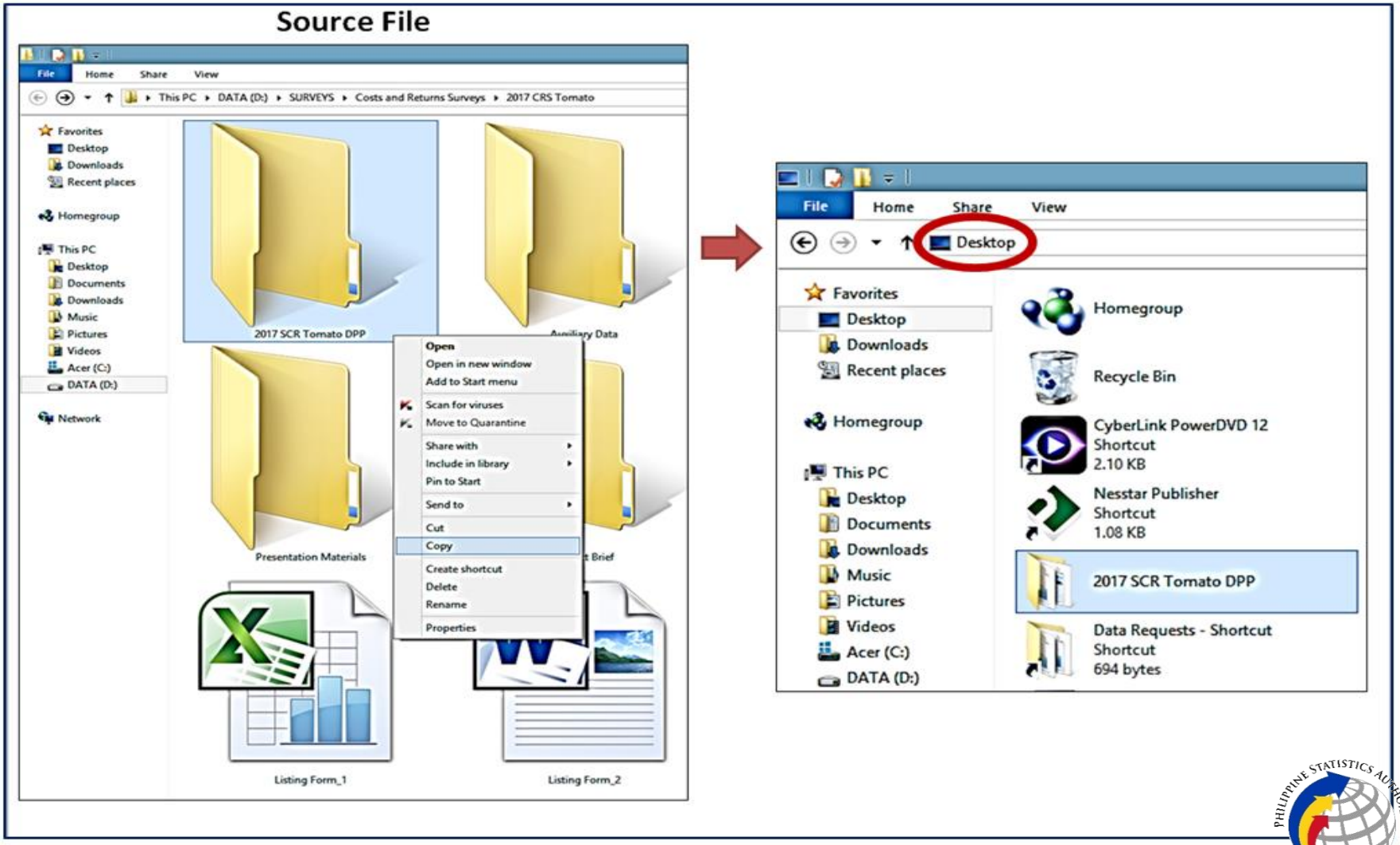
Getting Started

2. Select the drive where the files are located (Elements K:).



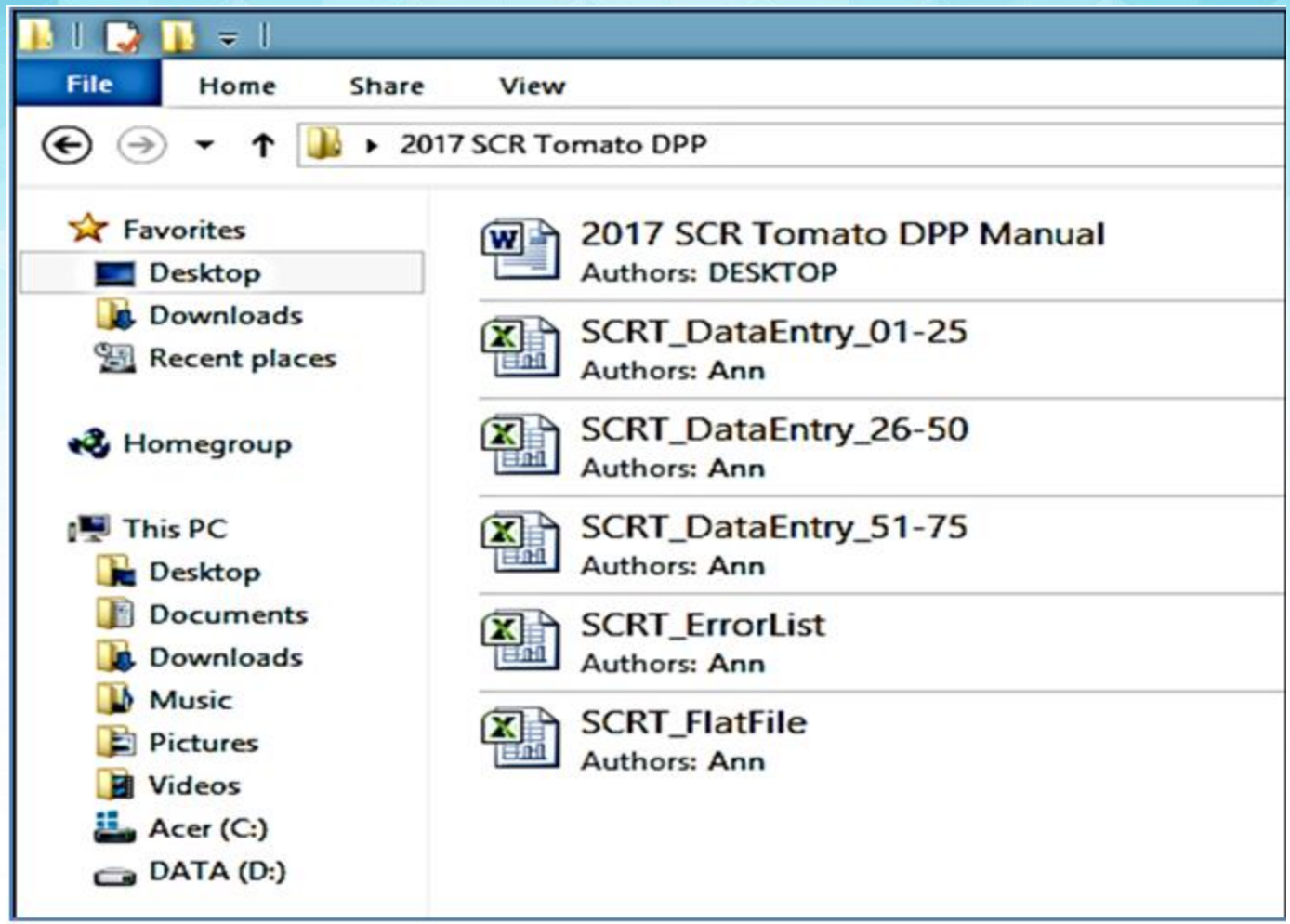
Getting Started

3. Copy the folder **2017 SCR Tomato DPP** from the source file to the desktop or a USB



Getting Started

The folder contains the following files:



Getting Started

File Name	Description
2017 SCR Tomato DPP Manual	This file contains the detailed instructions and procedures on how to use the data processing system. Refer to this manual from time to time.
SCRT_DataEntry_01-25	This file is the data entry template for samples 1 to 25. This is where all the data of QCN 01 to 25 should be encoded.
SCRT_DataEntry_26-50	This file is the data entry template for samples 26 to 50. This is where all the data of QCN 26 to 50 should be encoded.
SCRT_DataEntry_51-75	This file is the data entry template for samples 51 to 75. This is where all the data of QCN 51 to 75 should be encoded.
SCRT_FlatFile	This is the **Version 1** of the raw data file (unedited). No further processes shall be done in this file to preserve the original data.
SCRT_ErrorList	This is the **Version 2** of the raw data file from which data cleaning and validation shall be done. It also contains preliminary data tables that will be subjected to provincial and regional data reviews.

Instructions on Data Encoding

Open the following files:

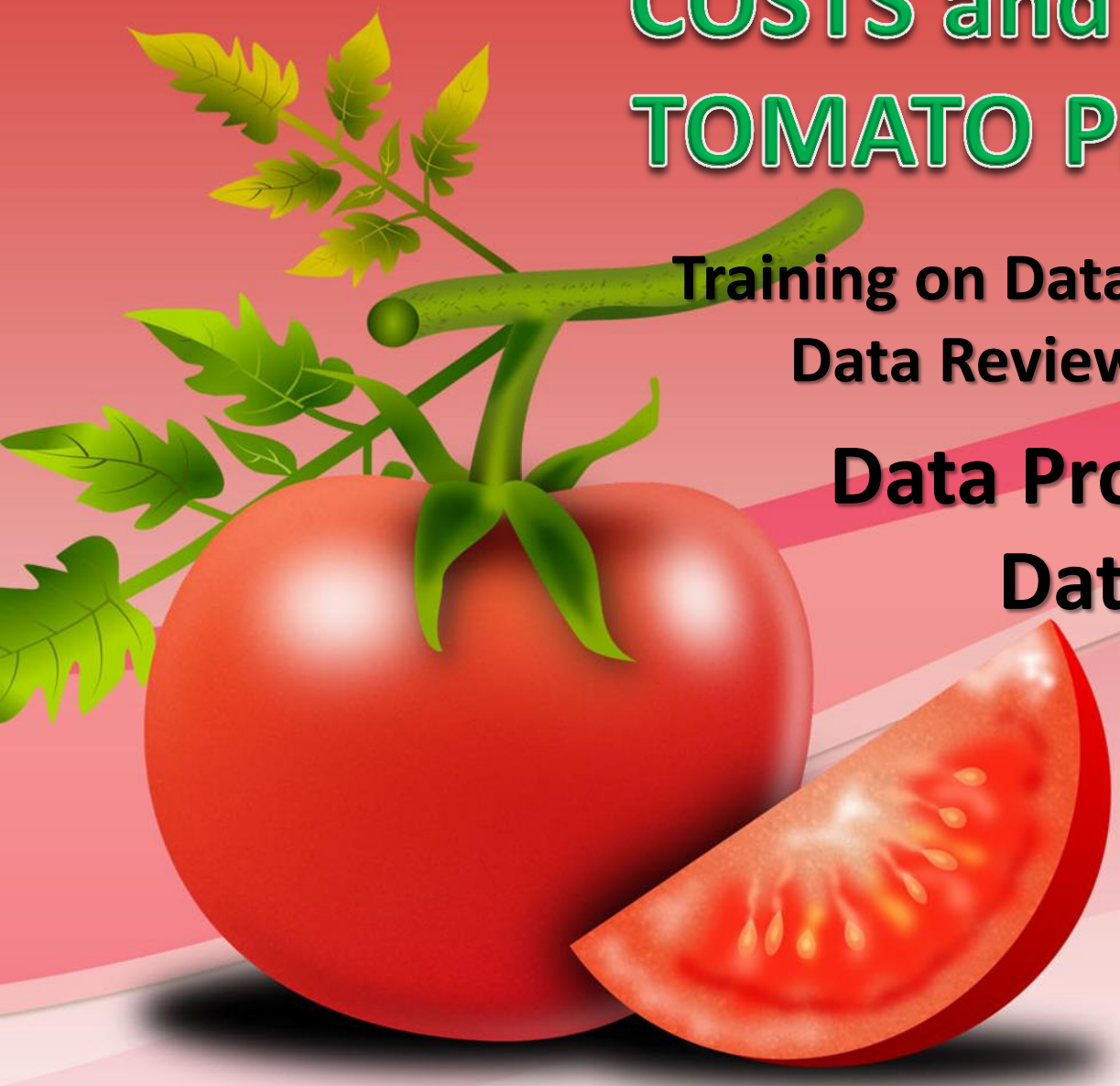
SCRT_DataEntry_01-25	This is the data entry template for samples 1 to 25.
SCRT_DataEntry_26-50	This is the data entry template for samples 26 to 50.
SCRT_DataEntry_51-75	This is the data entry template for samples 51 to 75.

Each worksheet contains the data entry for Block A to Block N which is identical to the pages of questionnaire. The data entry template is designed as the mirror image of the questionnaire to facilitate data encoding.

2017 SURVEY on COSTS and RETURNS of TOMATO PRODUCTION

Training on Data Processing System, Data Review and Validation

Data Processing System: Data Entry Program



The Data Entry Template

SCREENING QUESTIONS

1. Are you engaged in tomato farming?

YES (continue next question) **NO** *(end the interview)* ☐

2. Is the tomato farm group-operated?

YES *(end the interview)* **NO** (continue next question) ☐

3. Did you plant and harvest tomato at any time within

SEPTEMBER 2016 to MAY 2017?

YES (continue next question) **NO** *(end the interview)* ☐

4. Was your harvest / produce intended for sale?

YES (continue next question) **NO** *(end the interview)* ☐

5. Was your harvest intercropped with other temporary crops?

YES *(end the interview)* **NO** *(continue next question)* ☐

6. Was 20% or more of your harvest damaged by flood, drought, pests and diseases, etc.?

YES *(end the interview)* **NO** *(continue next question)* ☐

7. Are you a contract grower?

YES *(continue next question)* **NO** *(proceed to the next page)* ☐

YES, but with Self-Financed Tomato Farm *(proceed to the next page)* ☐

7.1 What was the mode of financing? *(check box and proceed to the next page)*

☐ - in cash

☐ - in kind

☐ - both in cash and in kind

- **Encode 1 for Yes or 2 for No in the corresponding box of screening question.**

- **For the mode of financing, use code 1 in the box that corresponds to the answer in the questionnaire.**

The Data Entry Template

Illustration 1

BV21

DO NOT COPY PASTE / CUT AND PASTE

QC. No.: 01

A. FARM LOCATION

1. Region: CENTRAL VISAYAS 07 | 2. Province: CEBU 22 | 3. City/Municipality: CEBU CITY 17 | 4. Barangay: TAPTAP 082

B. SAMPLE IDENTIFICATION

1. Name of sample farmer/operator :
CABUENAS, JUNRY R.
(LAST NAME) , (FIRST NAME) , (M.I.)

2. Residential address of the sample farmer/operator :
SITIO PROPER, TAPTAP, CEBU CITY
(STREET NO./PUROK/SITIO) (BARANGAY) (MUNICIPALITY)

3. Age (as of last birthday) : 36 years old

4. Sex (encircle code) : 1 - Male 2 - Female 1

5. Level of education completed :
GRADE 4 1

6. Main occupation : TOMATO FARMER 600
(gainful work or activity that provides the major source of income)

7. Number of years engaged in Tomato farming (as operator)
18 YEARS

8. Name of respondent :
CABUENAS, JUNRY R. / CABUENAS JERALYN

9. Respondent's relationship to the sample farmer/operator :
SELF (FARM OPERATOR) / WIFE

10. Respondent's contact number/s :
09474972940

C. BASIC CHARACTERISTICS OF THE FARM

1. Using the matrix below, define the characteristics of each farm parcel operated during the reference period.

1.1 Parcel	1.2 Total Physical Area of the Parcel *(indicate the physical area in hectare)*	1.3 Area Planted to Tomato *(indicate the physical area in hectare)*	1.4 Area Planted to Other Crops *(if any, indicate the physical area in hectare)*	1.5 Area of Other Structure *(if any, indicate the physical area in hectare)*
1	0.1000	0.0864	0.0136	
2				
3				
4				
5				
6				
7				
8				
9				
10				
Total Area	0.1000	0.0864	0.0136	0.0000

2. Among the areas planted to tomato, what is the focus parcel?
(indicate the parcel number) 1
(focus parcel is the farm parcel where the last harvest is completed within reference period)

For focus parcel only:

3. What is the tenurial status? (specify code) 3
if code 8, specify the tenurial status :

For focus parcel only:

4. How many times did you plant tomato in a year? 4

5. What is the usual cropping pattern?
TOMATO - STRINGBEANS 2

6. What was the area planted? 0.0864

7. What was the area harvested? 0.0864

8. What month and year was it last planted? DECEMBER 2016

9. What month and year was it last harvested APRIL 2017

10. How many times did you harvest in the focus parcel? 16

11. What was the type of tomato planted? (encircle code/s)
1 - Bush | 1 2 - Vine

12. What was the variety of seeds planted? (encircle code/s)
1 - Diamante | 6 - Apollo
1 2 - Diamante Max | 7 - Semenes
3 - Harabas | 8 - Rose Pink
4 - Ilocos Red | 9 - Native (kimmarabasa)
5 - Maharlika | 10 - Others (specify):

13. Who/What was/were the source/s of planting materials?
(encircle code/s)
1 1 - Agri Supply Store | 4 - Co-Farmer
2 - DA/LGU | 5 - Own produced
3 - Cooperative | 6 - Others *(specify)*:

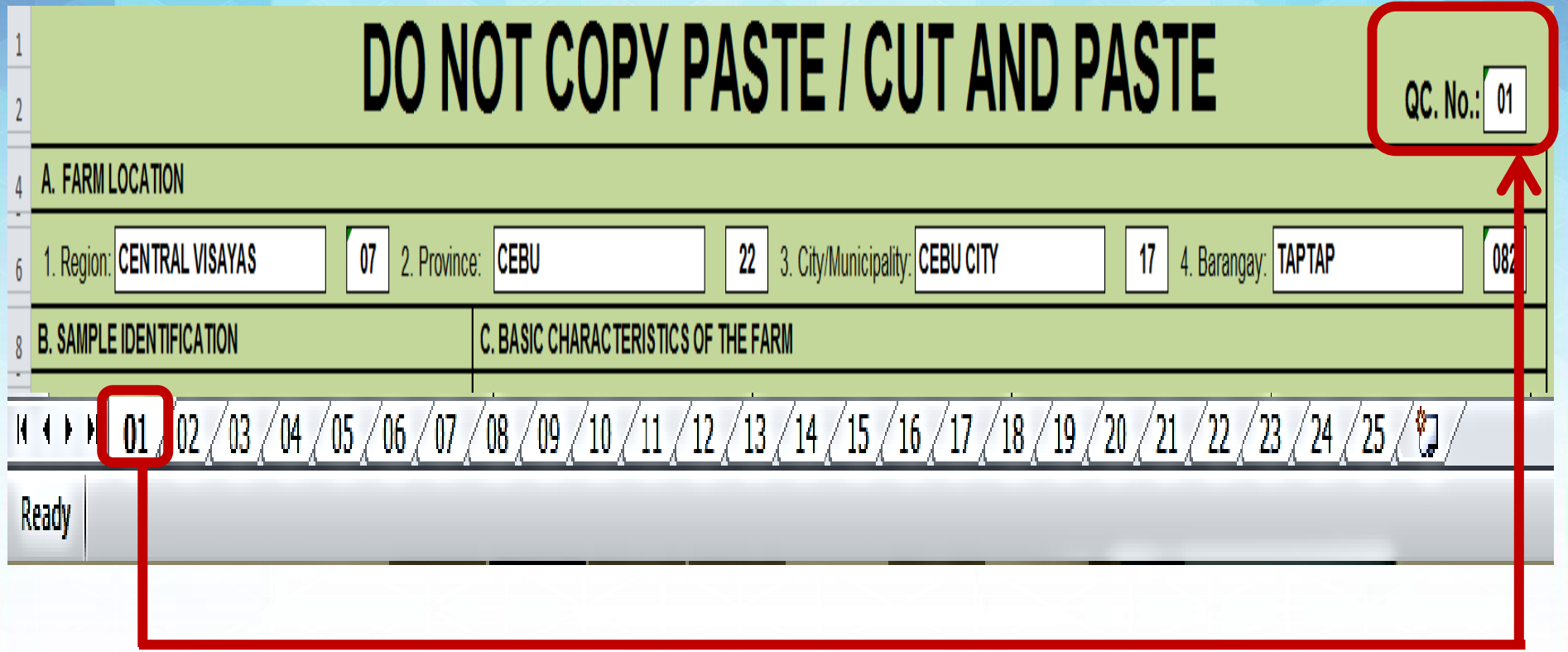
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Ready

Questionnaire Control No. (QC. No.)

Illustration 2

Consistency of QC No. and Worksheet No.



Block A – Farm Location

Illustration 3

Sample of data entry for Block A

Block B – Sample Identification

Illustration 4

Sample of data entry for Block B

B. SAMPLE IDENTIFICATION

1. Name of sample farmer/operator :

CABUENAS, JUNRY R.

(LAST NAME) , (FIRST NAME) , (M.I.)

2. Residential address of the sample farmer/operator :

SITIO PROPER, TAPTAP, CEBU CITY

(STREET NO./PUROK/SITIO) (BARANGAY) (MUNICIPALITY)

3. Age (as of last birthday) : 36 years old

4. Sex (encircle code) : 1 - Male 2 - Female — 1

5. Level of education completed :

GRADE 4 — 1

6. Main occupation : TOMATO FARMER — 600

(gainful work or activity that provides the major source of income)

7. Number of years engaged in Tomato farming (as operator)

18 YEARS

8. Name of respondent :

CABUENAS, JUNRY R. / CABUENAS JERALYN

9. Respondent's relationship to the sample farmer/operator :

SELF (FARM OPERATOR) / WIFE

10. Respondent's contact number/s :

09474972940

Block C – Basic Characteristics of the Farm

Illustration 5

Sample of data entry for Block C

C. BASIC CHARACTERISTICS OF THE FARM

1. Using the matrix below, define the characteristics of each farm parcel operated during the reference period.

1.1 Parcel	1.2 Total Physical Area of the Parcel *(indicate the physical area in hectare)*	1.3 Area Planted to Tomato *(indicate the physical area in hectare)*	1.4 Area Planted to Other Crops (if any, *indicate the physical area in hectare)*	1.5 Area of Other Structure (if any, *indicate the physical area in hectare)*
1	**0.1000**	**0.0864**	**0.0136**	
2				
3				
4				
5				
6				
7				
8				
9				
10				
Total Area	0.1000	0.0864	0.0136	0.0000

2. Among the areas planted to tomato, what is the focus parcel?

(indicate the parcel number) **1**

(focus parcel is the farm parcel where the last harvest is completed within reference period)

For focus parcel only:

3. What is the tenurial status? (specify code) **3**

if code 8, specify the tenurial status :

For focus parcel only:

4. How many times did you plant tomato in a year? **4**

5. What is the usual cropping pattern?

TOMATO - STRINGBEANS **2**

6. What was the area planted? **0.0864**

7. What was the area harvested? **0.0864**

8. What month and year was it last planted? **DECEMBER 2016**

9. What month and year was it last harvested **APRIL 2017**

10. How many times did you harvest in the focus parcel? **16**

11. What was the type of tomato planted? (encircle code/s)

( ) **1** - Bush (**1**) **2** - Vine

12. What was the variety of seeds planted? (encircle code/s)

( )	**1** - Diamante	( )	**6** - Apollo
(**1**)	**2** - Diamante Max	( )	**7** - Semenes
( )	**3** - Harabas	( )	**8** - Rose Pink
( )	**4** - Ilocos Red	( )	**9** - Native (kimmarabasa)
( )	**5** - Maharlika	( )	**10** - Others (specify):

13. Who/What was/were the source/s of planting materials?

(encircle code/s)

(**1**)	**1** - Agri Supply Store	( )	**4** - Co-Farmer
( )	**2** - DA/LGU	( )	**5** - Own produced
( )	**3** - Cooperative	( )	**6** - Others *(specify)*:

Block D – Farm Investment

Illustration 6.1

Sample of data entry for Block D

D. FARM INVESTMENTS (owned and used in the focus parcel during SEPTEMBER 2016 to MAY 2017)									
Item	How many units were used? (Area / Number)	What year was it acquired / constructed?	How much was the cost of acquisition / construction? (Pesos)	How much was spent for minor repair / maintenance/ improvement? (Pesos)	How many years will it be useful / serviceable? (from the date of interview)	Was the item used in another parcel? (indicate code) 1 - YES 2 - NO	Was the item used for other crops or activities in the focus parcel? (indicate code) 1 - YES 2 - NO	Was the item rented or lent to other farmers? (indicate code) 1 - YES 2 - NO	What was its percentage of use in the focus parcel?
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
1. Farm land owned (hectare)	0.5000	2000	350,000.00						
2. Work animals									
2.01 Carabao	1	2010	20,000.00	5,000.00		2	2	2	100.00
2.02 Cattle									
2.03 Horse									
3. Farm buildings and other structures									
3.01 Farm house									
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
3.02 Warehouse / Storage									
3.03 Others (specify) :									
4. Farm machinery and transport facilities									
4.01 Two-wheel tractor (Hand Tractor)									
4.02 Four-wheel tractor									
4.03 Water pump	1	2010	10,000.00		10	2	1	2	75.00
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
4.04 Farm vehicles									
4.05 Trailer									
4.06 Others (specify) :									
5. Farm tools and implements									
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
5.01 Plow (araro)									
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
5.26 Others (specify) :									
5.26 PICK	1	2012	200.00	50.00	20	2	1	2	75.00

- Encoding shall be done in horizontal manner (one data item at a time). The data entry template is guided by the column numbers similar to the questionnaire.

Block D – Farm Investment

Illustration 6.2

Sample of data entry for investment items separated by slash (/) in the questionnaire

D. FARM INVESTMENTS (owned and used in the focus parcel during SEPTEMBER 2016 to MAY 2017)									
Item	How many units were used? (Area / Number)	What year was it acquired / constructed?	How much was the cost of acquisition / construction? (Pesos)	How much was spent for minor repair / maintenance/ improvement? (Pesos)	How many years will it be useful / serviceable? (from the date of interview)	Was the item used in another parcel? (indicate code) 1 - YES 2 - NO	Was the item used for other crops or activities in the focus parcel? (indicate code) 1 - YES 2 - NO	Was the item rented or lent to other farmers? (indicate code) 1 - YES 2 - NO	What was its percentage of use in the focus parcel?
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
1. Farm land owned (hectare)	0.5000	2000	350,000.00						
2. Work animals									
2.01 Carabao	1	2010	20,000.00	5,000.00		2	2	2	100.00
2.01 Carabao	1	2012	50,000.00	3,000.00		2	1	2	75.00
2.01 Carabao									
2.01 Carabao									
2.01 Carabao									
2.02 Cattle									
2.02 Cattle									
2.02 Cattle									
2.02 Cattle									
2.02 Cattle									
2.03 Horse									
2.03 Horse									
2.03 Horse									
2.03 Horse									
2.03 Horse									

In this example, two records for carabao were encoded because these were acquired in different years and had different percent of use. In the questionnaire, these are separated by a slash but must be encoded in this manner.

Multiple rows are open for each investment items

Block D – Farm Investment

Illustration 6.3

Sample of data entry for Others (specify)

D. FARM INVESTMENTS (owned and used in the focus parcel during SEPTEMBER 2016 to MAY 2017)

Item		How many units were used? (Area / Number)	What year was it acquired / constructed?	How much was the cost of acquisition / construction? (Pesos)	How much was spent for minor repair / maintenance/ improvement? (Pesos)	How many years will it be useful / serviceable? (from the date of interview)	Was the item used in another parcel? (indicate code) 1 - YES 2 - NO	Was the item used for other crops or activities in the focus parcel? (indicate code) 1 - YES 2 - NO	Was the item rented or lent to other farmers? (indicate code) 1 - YES 2 - NO	What was its percentage of use in the focus parcel?
(1)		*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
3. Farm buildings and other structures										
3.03 Others (specify) :										
3.03	**FARM SHED**	**1**	**2015**	**5,000.00**		**5**	**2**	**2**	**2**	**100.00**
3.04	**GREEN HOUSE**	**2**	**2016**	**50000.00**		**10**	**2**	**2**	**2**	**100.00**
4. Farm machinery and transport facilities										
4.06 Others (specify) :										
4.06	**ENGINE**	**1**	**2012**	**25,000.00**	**1,500.00**	**10**	**1**	**1**	**2**	**35.00**
4.07	**MOTORBIKE**	**1**	**2007**	**75,000.00**		**5**	**2**	**2**	**2**	**100.00**
5. Farm tools and implements										
(1)		*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*
5.26 Others (specify) :										
5.26	**PICK**	**1**	**2012**	**200.00**	**50.00**	**20**	**2**	**1**	**2**	**75.00**
5.26	**PICK**	**1**	**2016**	**350.00**		**25**	**2**	**1**	**2**	**75.00**
5.27	**ENGINE BELT**	**1**	**2016**	**400.00**		**3**	**2**	**2**	**2**	**100.00**

For the same investment items acquired in different years and encoded in different rows, use the same item code (ex. Pick –coded as 5.26)

Code and Verbatim Answer.

Block E – Material Inputs

Illustration 7.1

Sample of data entry for Block E

E. MATERIAL INPUTS (used in focus parcel during SEPTEMBER 2016 to MAY 2017)								
Item	How many units were used / applied?	What was the name of local unit?	If solid input, what was the weight of one local unit in kilogram?	If liquid input, what was the volume of one local unit in liter?	What was the mode of acquisition? (enter code/s)	If purchased and discounted, what was the discount rate?	If purchased, what was the price of one local unit? (Pesos)	If not purchased, what was the prevailing price in the locality? (Pesos)
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*
1. Seeds / Planting Materials								
1.01 Seeds	**12.000**	**CAN**	**0.002**		**11**		**105.00**	
1.01 Seeds								
1.01 Seeds								
1.02 Seedlings		**PIECES**						
1.02 Seedlings		**PIECES**						
1.02 Seedlings		**PIECES**						
2. Fertilizers								
2.01 Urea (45-0-0)								
2.01 Urea (45-0-0)								
2.02 Urea (46-0-0)								
2.02 Urea (46-0-0)								
2.03 Ammonium Sulfate (21-0-0)								
2.03 Ammonium Sulfate (21-0-0)								
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*
2.04 Ammonium Phosphate (16-20-0)								
2.04 Ammonium Phosphate (16-20-0)								
2.05 Complete (12-12-12)								
2.05 Complete (12-12-12)								
2.06 Complete (14-14-14)	**60.000**	**KG**	**1.000**		**11**		**30.00**	
2.06 Complete (14-14-14)								
2.07 Complete (16-16-16)								
2.07 Complete (16-16-16)								
2.08 Zinc Sulfate (Zinc 21%)								
2.08 Zinc Sulfate (Zinc 21%)								
2.09 Muriate of Potash (0-0-60)								
2.09 Muriate of Potash (0-0-60)								
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*
2.10 Crop Giant								
2.10 Crop Giant								

- Encoding shall be done in horizontal manner (one data item at a time). The data entry template is guided by the column numbers similar to the questionnaire.

Block E – Material Inputs

Illustration 7.2

Sample of data entry for material inputs separated by (/) in the questionnaire

E. MATERIAL INPUTS (used in focus parcel during SEPTEMBER 2016 to MAY 2017)								
Item	How many units were used / applied?	What was the name of local unit?	If solid input, what was the weight of one local unit in kilogram?	If liquid input, what was the volume of one local unit in liter?	What was the mode of acquisition? (enter code/s)	If purchased and discounted, what was the discount rate?	If purchased, what was the price of one local unit? (Pesos)	If not purchased, what was the prevailing price in the locality? (Pesos)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Seeds / Planting Materials								
1.01 Seeds	12.000	CAN	0.002		11		105.00	
1.01 Seeds	3.000	CAN	0.002		32			105.00
1.01 Seeds								
1.01 Seeds								
1.01 Seeds								

The seeds were acquired in different manners: 1) Code 11 – self-financed paid in cash and 2) Code 32 – received from private individual…, thus encoding was done separately.

Block E – Material Inputs

Illustration 7.3

Sample of data entry for Others (specify)

E. MATERIAL INPUTS (used in focus parcel during SEPTEMBER 2016 to MAY 2017)

Item	How many units were used / applied?	What was the name of local unit?	If solid input, what was the weight of one local unit in kilogram?	If liquid input, what was the volume of one local unit in liter?	What was the mode of acquisition? (enter code/s)	If purchased and discounted, what was the discount rate?	If purchased, what was the price of one local unit? (Pesos)	If not purchased, what was the prevailing price in the locality? (Pesos)
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*
2. Fertilizers								
2.13 Others (specify):								
2.13 18-46-0 (DIAMMONIUM PHOSPHATE)	30.000	KG	1.000		11		35.00	
2.14 PLANT VITAMINS	30.000	KG	1.000		11		100.00	
3. Soil Ameliorants								
3.01 Lime (apog)								
3.02 Others (specify):								
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*
4. Mulching Materials								
4.01 Rice Hay (dayami)								
4.02 Others (specify):								

Code and Verbatim Answer.

Block E – Material Inputs

Illustration 7.4

Sample of data entry for Pesticides

E. MATERIAL INPUTS (used in focus parcel during SEPTEMBER 2016 to MAY 2017)

Item	How many units were used / applied?	What was the name of local unit?	If solid input, what was the weight of one local unit in kilogram?	If liquid input, what was the volume of one local unit in liter?	What was the mode of acquisition? (enter code/s)	If purchased and discounted, what was the discount rate?	If purchased, what was the price of one local unit? (Pesos)	If not purchased, what was the prevailing price in the locality? (Pesos)
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*
5. Pesticides *(specify product name):*								
5.01 Herbicides / Weedicides								
5.01 SLASH	1.000	LITER		1.000	11		395.00	
5.01 MAGNUM	2.000	BOTTLE		0.250	11		350.00	
5.01 ONECIDE	2.000	BOTTLE		0.250	11		350.00	
5.02 Insecticides								
5.02 PREVATHON	2.000	BOTTLE		0.250	11		900.00	
5.02 KARTAP	10.000	PACK	0.100		11		120.00	
5.02 SOLOMON	5.000	BOTTLE		0.100	11		280.00	
5.02 LANATE	250.000	GRAM	0.001		11		295.00	
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*
5.03 Fungicides								
5.03 MANAGER	1.000	KG	1.000		11		440.00	
5.03 ANTRACOL	2.000	PACK	1.000		11		600.00	
5.03 DITHANE	2.000	PACK	1.000		11		600.00	
5.04 Other Pesticides (specify product name):								

Code and Verbatim Answer.

Block F – Labor Inputs

Illustration 8.1

Sample of data entry for Block F: Seedling Preparation to Replanting

F. LABOR INPUTS (In focus parcel during SEPTEMBER 2016 to MAY 2017)

Farm Activity	Operator Labor		Family Labor			Exchange Labor			How much was the prevailing wage rate per day in the locality? (Pesos)	Hired Labor				
	On the average...		How many persons worked in the farm?	On the average...		How many persons worked in the farm?	On the average...			How many persons worked in the farm?	On the average...		Total payment	
	how many days did they work	how many hours per day were spent?		how many days did they work	how many hours per day were spent?		how many days did they work	how many hours per day were spent?			how many days did they work	how many hours per day were spent?	How much was paid in Cash? (Pesos)	How much was paid in Kind? (Pesos)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1. Seedling preparation														
1.01 Plowing of seedbed (man-animal)														
1.02 Plowing of seedbed (man-machine, 2-wheel)														
1.03 Seedbed preparation	1	8.0							300.00					
1.04 Sowing of seeds	1	8.0							300.00					
1.05 Fertilizer application (basal)	1	8.0							300.00					
1.06 Chemical application	1	8.0							300.00					
1.07 Mulching														
2. Land preparation														
2.01 Plowing (man-animal)														
2.02 Plowing (man-machine, 2-wheel)	3	8.0							300.00					
2.03 Plowing (man-machine, 4-wheel)														
2.04 Rotavating (man-machine, 2-wheel)														
2.05 Rotavating (man-machine, 4-wheel)														
2.06 Harrowing (man-animal)														
2.07 Harrowing (man-machine, 2-wheel)	1	8.0							300.00					
2.08 Harrowing (man-machine, 4-wheel)														
2.09 Furrowing (man-animal)														
2.10 Furrowing (man-machine, 2-wheel)														
2.11 Furrowing (man-machine, 4-wheel)														
2.12 Liming / Application of soil ameliorants														
2.13 Fertilizer Application (basal)	2	8.0							300.00					
3. Hauling of planting materials														
4. Planting / Transplanting										7	4	8.0	5600.00	
5. Replanting														

List of farm activities

Encode number of days and hours for OPERATOR LABOR

Encode number of days and hours for FAMILY LABOR

Encode number of days and hours for EXCHANGE LABOR

Encode pre-vailing wage per day

Encode number of days and hours for HIRED LABOR

Encode Total Payment for HIRED LABOR either in cash and/or in kind

- Encoding shall be done in horizontal manner (one data item at a time). The data entry template is guided by the column numbers similar to the questionnaire.

Block F – Labor Inputs

Illustration 8.2

Sample of data entry for Block F: Care of Crops to Others (specify)

Encode number of days and hours for OPERATOR LABOR

Encode number of days and hours for FAMILY LABOR

Encode number of days and hours for EXCHANGE LABOR

Encode pre-vailing wage per day

Encode number of days and hours for HIRED LABOR

Encode Total Payment for HIRED LABOR either in cash and/or in kind

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
6. Care of crops														
6.01 Trellising / Staking / Tying														
6.02 Fertilizer application (side dressing)	2	8.0							300.00					
6.03 Fertilizer application (top dressing)	8	8.0							300.00					
6.04 Weeding (man)	8	2.0							300.00	3	2	8.0	1800.00	
6.05 Chemical application/Spraying	8	2.0							300.00					
6.06 Off-barring	7	8.0							300.00					
6.07 Hilling-up														
6.08 Watering														
6.09 Mulching														
6.10 Pruning/Thinning														
6.11 Farm monitoring														
7. Others (specify):														

Verbatim answer for other activity.

Code for other activity. Start with code 7.01 and so on.

Block F – Labor Inputs

Illustration 8.3

Sample of data entry for Block F: Harvesting to Sorting

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
8. Harvesting														
8.01 1st Harvest														
8.02 2nd Harvest														
8.03 3rd Harvest														
8.04 4th Harvest														
8.05 5th Harvest														
8.06 6th Harvest														
8.07 7th Harvest														
8.08 8th Harvest														
8.09 9th Harvest														
8.10 10th Harvest														
8.11 11th Harvest														
8.12 12th Harvest														
9. Hauling of produce (man)														
9.01 1st Hauling of produce														
9.02 2nd Hauling of produce														
9.03 3rd Hauling of produce														
9.04 4th Hauling of produce														
9.05 5th Hauling of produce														
9.06 6th Hauling of produce														
9.07 7th Hauling of produce														
9.08 8th Hauling of produce														
9.09 9th Hauling of produce														
9.10 10th Hauling of produce														
9.11 11th Hauling of produce														
9.12 12th Hauling of produce														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
10. Sorting														
10.01 1st Sorting														
10.02 2nd Sorting														
10.03 3rd Sorting														
10.04 4th Sorting														
10.05 5th Sorting														
10.06 6th Sorting														
10.07 7th Sorting														
10.08 8th Sorting														
10.09 9th Sorting														
10.10 10th Sorting														
10.11 11th Sorting														
10.12 12th Sorting														

Encode number of days and hours for OPERATOR LABOR

Encode number of days and hours for FAMILY LABOR

Encode number of days and hours for EXCHANGE LABOR

Encode pre-vailing wage per day

Encode number of days and hours for HIRED LABOR

Encode Total Payment for HIRED LABOR either in cash and/or in kind

Block F – Labor Inputs

Illustration 8.4

Sample of data entry for Block F: Hired labor by Contract

Farm Activity		Hired Labor by Contract				
		How many persons worked in the farm?	On the average…		Total payment	
			how many days did they work	how many hours per day were spent?	How much was **paid in Cash**? (Pesos)	How much was **paid in Kind**? (Pesos)
(1)		*(16)*	*(17)*	*(18)*	*(19)*	*(20)*
11. Contract Labor (specify the farm activities included per contract):						
11	**Seedling Prep: Seedbed preparation**	**2**	**1**	**8.0**	**19200.00**	
11	**Seedling Prep: Sowing of seeds**	**2**	**1**	**8.0**		
11	**Seedling Prep: Fertilizer application (basal)**	**2**	**1**	**8.0**		
11	**Seedling Prep: Chemical application**	**2**	**1**	**8.0**		
11	**Land Prep: Fertilizer application (basal)**	**2**	**3**	**8.0**		
11	**Care of Crops: Fertilizer application (side dressing)**	**2**	**2**	**8.0**		
11	**Care of Crops: Fertilizer application (top dressing)**	**2**	**8**	**8.0**		
11	**Care of Crops: Chemical application/spraying**	**2**	**8**	**8.0**		
11	**Care of Crops: Off-barring**	**2**	**7**	**8.0**		
12	**Harvesting, Hauling and Sorting**	**6**	**10**	**8.0**	**18000.00**	

Contract 1

Contract 2

Use different codes for different contracts

Total payment for Contract labor should be recorded once.

Block F – Labor Inputs

Illustration 8.5

Sample of data entry for Block F: Hired labor by Contract

	Farm Activity	Hired Labor by Contract				
		How many persons worked in the farm?	On the average...		Total payment	
			how many days did they work	how many hours per day were spent?	How much was **paid in Cash**? (Pesos)	How much was **paid in Kind**? (Pesos)
	(1)	(16)	(17)	(18)	(19)	(20)
	11. Contract Labor (specify the farm activities included per contract):					
Contract 1	11 Seedling Prep: Seedbed preparation	2	1	8.0	19200.00	
	11 Seedling Prep: Sowing of seeds	2	1	8.0		
	11 Seedling Prep: Fertilizer application (basal)	2	1	8.0		
	11 Seedling Prep: Chemical application	2	1	8.0		
	11 Land Prep: Fertilizer application (basal)	2	3	8.0		
	11 Care of Crops: Fertilizer application (side dressing)	2	2	8.0		
	11 Care of Crops: Fertilizer application (top dressing)	2	8	8.0		
	11 Care of Crops: Chemical application/spraying	2	8	8.0		
	11 Care of Crops: Off-barring	2	7	8.0		
Contract 2	12 1st Harvest, 1st Hauling, 1st Sorting	2	1	8.0	600.00	
Contract 3	13 2nd Harvest, 2nd Hauling, 2nd Sorting	5	1	8.0	1500.00	
Contract 4	14 3rd Harvest, 3rd Hauling, 3rd Sorting	8	1	8.0	2400.00	
Contract 5	15 4th Harvest, 4th Hauling, 4th Sorting	8	1	8.0	2400.00	
Contract 6	16 5th Harvest, 5th Hauling, 5th Sorting	8	1	8.0	2400.00	
Contract 7	17 6th Harvest, 6th Hauling, 6th Sorting	8	1	8.0	2400.00	
Contract 8	18 7th Harvest, 7th Hauling, 7th Sorting	5	1	8.0	1500.00	
Contract 9	19 8th Harvest, 8th Hauling, 8th Sorting	5	1	8.0	1500.00	
Contract 10	20 9th Harvest, 9th Hauling, 9th Sorting	3	1	8.0	900.00	
Contract 11	21 10th Harvest, 10th Hauling, 10th Sorting	2	1	8.0	600.00	

Use Different codes for different contracts

Separate records for every time of harvest, hauling and sorting since the number of persons varies.

Block G – Other Production Costs

Illustration 9

Sample of data entry for Block G

Encode in the box the number of years leased

G. OTHER PRODUCTION COSTS (in focus parcel during SEPTEMBER 2016 to MAY 2017)

Item	Cash (Pesos)	Imputed (Pesos)	Non-Cash: What was the crop / commodity paid?	How many local units?	What was the name of local unit?	What was the weight of one local unit in kilogram?	What was the total quantity in kilogram?	How much was the total value? (Pesos)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Land Tax - owned farm (annual)		10,000.00						
2. Caretaker/overseer's share/wages (per cropping)								
3. Other permanent employee's salary (monthly)								
4. Lease / Rentals of:								
4.01 Land (annual) if lease agreement, indicate number of years leased [ ]								
4.02 Machine (per cropping)		2,000.00						
4.03 Animals (per cropping)								
4.04 Tools and equipment (per cropping)								
5. Rental value of owned land (annual)								
6. Rental value of owned animal/s (per cropping)								
7. Fuel (quantity: 117.00 liter/s, per cropping)	4,000.00							
8. Oil (quantity: 100.00 liter/s, per cropping)	1,200.00							
9. Transport cost of inputs (per cropping)	500.00							
10. Transport cost of produce from farm to first point of sale (per cropping)	3,000.00							
11. Interest payment on crop loan (per cropping)								
12. Storage fee (per cropping)								
13. Water expense (monthly)		2,000.00						
14. Electricity cost (monthly)								
15. Food expense for hired and exchange labor (per cropping)	15,000.00							
16. Landowner's share (per cropping)								
17. Financier's share (per cropping)								
18. Sack / Crate / Box / Kaing	11,800.00							
19. Seedling bag								
20. Wood stakes								
21. Straw twine								
22. Others (specify):								
22 FLAT YARN	550.00							
23 TARPAULINE (TRAPAL)	590.00							

Encode in the box the quantity of fuel and/or oil

Encode the verbatim answer and code for other production cost items in this column

Encode cash costs in this column

Encode imputed costs in this column

Encode Non-cash costs in these columns

Block H – Production and Disposition

Illustration 10.1

Sample of data entry for Block H: Quantity of Production and Disposition was given per time of harvest

Encode quantity of production, disposition and price per local unit here.

Validation for Total Production in Kg and Weighted Price per Kg.

H. PRODUCTION AND DISPOSITION (in focus parcel during SEPTEMBER 2016 to MAY 2017)

Item	1st Harvest	2nd Harvest	3rd Harvest	4th Harvest	5th Harvest	6th Harvest	7th Harvest	8th Harvest	9th Harvest	10th Harvest	11th Harvest	12th Harvest	Weighted Total Production in Kilogram
	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1. Production													
1.01 Quantity in local unit	4.00	3.00	3.00	5.00									1275.00
1.02 Name of local unit (LU)	BAKAT	BAKAT	BAKAT	BAKAT									kilogram
1.03 Weight of one LU in kilogram	85.00	85.00	85.00	85.00									1275.00
2. Disposition (quantity in local unit)													
2.01 Sold / To be sold to:													
2.01.1 Trader	4.00	3.00	3.00	5.00	?								#VALUE!
2.01.2 Processor													0.00
2.01.3 Direct Consumer													0.00
Price per local unit *(required whether the produce was sold or not sold)*	3400.00	2975.00	2125.00	1700.00									29.33
2.02 Harvesters' share													0.00
2.03 Other laborers' share													0.00
2.04 Landowner's share													0.00
2.05 Financier's share													0.00
2.06 Land lease / Rental													0.00
2.07 For home consumption													0.00
2.08 For home - based processing													0.00
2.09 Given away													0.00
2.10 Paid to creditor													0.00
2.11 Used / To be used for planting materials													0.00
2.12 Wastage													0.00
2.13 Others (specify) :													
													0.00
													0.00
													0.00
													0.00
													0.00
Total Disposition	4.00	3.00	3.00	5.00									#VALUE!

A special character or space will result to error in the validation for the total production in Kg and weighted price per Kg.

Encode verbatim answer and code for other disposition items.

Total Disposition is automatically computed.

Block H – Production and Disposition

Illustration 10.2

Sample of data entry for Block H: Quantity of Production and Disposition was lumped in the 1st Harvest

H. PRODUCTION AND DISPOSITION (in focus parcel during SEPTEMBER 2016 to MAY 2017)													
Item	1st Harvest	2nd Harvest	3rd Harvest	4th Harvest	5th Harvest	6th Harvest	7th Harvest	8th Harvest	9th Harvest	10th Harvest	11th Harvest	12th Harvest	Weighted Total Production in Kilogram
	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	Units	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1. Production													
1.01 Quantity in local unit	**118.00**												**8850.00**
1.02 Name of local unit (LU)	**KAING**												kilogram
1.03 Weight of one LU in kilogram	**75.00**												**8850.00**
2. Disposition (quantity in local unit)													
2.01 Sold / To be sold to:													
2.01.1 Trader	**74.00**												5550.00
2.01.2 Processor													0.00
2.01.3 Direct Consumer	**30.00**												2250.00
Price per local unit *(required whether the produce was sold or not sold)*	**600.00**												**8.00**
2.02 Harvesters' share													0.00
2.03 Other laborers' share													0.00
2.04 Landowner's share													0.00
2.05 Financier's share													0.00
2.06 Land lease / Rental	**1.00**												75.00
2.07 For home consumption													0.00
2.08 For home - based processing													0.00
2.09 Given away	**10.00**												750.00
2.10 Paid to creditor													0.00
2.11 Used / To be used for planting materials													0.00
2.12 Wastage	**3.00**												225.00
2.13 Others (specify) :													
													0.00
													0.00
													0.00
													0.00
													0.00
													0.00
													0.00
													0.00
													0.00
Total Disposition	**118.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**8850.00**

This is the total for 10 harvests as recalled by the sample farmer/operator.

Block I – Production Related Information

Illustration 11

Sample of data entry for Block I

For the encircled code in the questionnaire, encode 1 in the corresponding cell/box

For the encircled code/s in the questionnaire, encode 1 in the corresponding cells/boxes. Additionally, for Others (specify) encode the corresponding verbatim answers in the cells/boxes below 6 or 7

For the encircled code/s in the questionnaire, encode 1 in the corresponding cells/boxes. Additionally, for Others (specify) encode the corresponding verbatim answers in the cells/boxes below 8

I. PRODUCTION RELATED INFORMATION (in focus parcel)

1. How would you compare your production **in the focus parcel** during the reference period with the previous cropping? *(encircle code)*

	1 - Higher
1	2 - Lower
	3 - About the same **(go to Item 3)**
	4 - No point of comparison **(go to Item 3)**

2. What was/were the reason/s for the change in production? *(encircle code/s and specify verbatim answer)*

Higher Production		**Lower Production**	
	1 - Increase in area		1 - Decrease in area
	2 - Good weather	1	2 - Bad weather
	3 - Good quality of seeds		3 - Low quality of seeds
	4 - Use of fertilizers		4 - Poor quality of produce
	5 - Adequate water supply		5 - Inadequate water supply
	6 - Others (specify) :		6 - Pests and Diseases
			7 - Others (specify) :

3. What were the tomato production related problems you have encountered during the reference period? (encircle code/s or specify if necessary)

	1 - Pests and diseases
1	2 - High cost of inputs
1	3 - Bad weather / calamities
	4 - Lack of capital
	5 - Rough or poor road / inadequate transport facilities
	6 - Inadequate supply of water
	7 - Poor soil condition
	8 - Others (specify) :

Block J – Marketing Related Information

Illustration 12

Sample of data entry for Block J

J. MARKETING RELATED INFORMATION (in focus parcel)

1. Who was / were the buyer/s of produce during the reference period? (encircle code/s)

Indicate the percent of production sold to the encircled buyer/s.

	Type of Buyer	% Sold
	1 - Agent	
1	2 - Wholesaler	70.00
	3 - Wholesaler-retailer	
	4 - Assembler	
	5 - Processor	
	6 - Cooperative	
1	7 - Consumer	30.00
	8 - Others (specify) :	

2. What were the marketing related problems you have encountered during the reference period? (encircle code/s or specify if necessary)

- 1 - Unstable prices
- 2 - Rough roads / High transport cost
- 3 - Low price of produce
- 4 - No buyer / market outlet
- 5 - Lack of marketing information
- 6 - Others (specify) :

For the encircled code/s in the questionnaire, encode 1 in the corresponding cells/boxes. Additionally, for Others (specify) encode the corresponding verbatim answers in the cells/boxes below 8

Encode the corresponding percent of production sold to the buyer marked with code 1 on the left side.

If there are no answers indicated in the questionnaire, do not encode anything in the white cells/boxes.

Block K – Access to Credit

Illustration 13.1

Sample of data entry for Block K: Those who availed of loan

For those who availed of loan, enter code 1 in the box.

K. ACCESS TO CREDIT (in focus parcel)

1. Have you availed of loan for tomato production during the reference period? *(encircle code)* **1**

1 - Yes

2 - No, **go to Block L**

2. How much loan did you avail of?

₱ **20,000.00**

Encode the loan amount in the box.

3. How much was the interest rate? (check box and indicate percent rate)

	per annum	%
	per month	%
1	per cropping	**5.00** %
	no interest	

Encode 1 inside the white cell/box which corresponds to the checked box in the questionnaire.

Encode the corresponding interest rate in the box .

4. Who / What was your major source of loan?

(encircle code or specify if necessary)

1 1 - Cooperative

2 - Bank

3 - Microfinance / Credit Associations

4 - Trader

5 - Private individual

(e.g. family, friends, relatives, store/shop owners)

6 - Informal lenders *(e.g. "5-6")*

7 - Others (specify) :

Encode 1 inside the white cell/box which corresponds to the encircled source of loan in the questionnaire. For Others (specify), encode the verbatim answers in the white cells/boxes below 7.

Block K – Access to Credit

Illustration 13.2

Sample of data entry for Block K: Those who did not avail of loan

For those who did not avail of loan, enter code 2 in the box.

K. ACCESS TO CREDIT (in focus parcel)

1. Have you availed of loan for tomato production during the reference period? *(encircle code)* **2**

   1 - Yes

   2 - No, **go to Block L**

2. How much loan did you avail of?

   ₱ ____

3. How much was the interest rate? (check box and indicate percent rate)

   ☐ per annum ____ %

   ☐ per month ____ %

   ☐ per cropping ____ %

   ☐ no interest

4. Who / What was your major source of loan?

   (encircle code or specify if necessary)

   ☐ 1 - Cooperative

   ☐ 2 - Bank

   ☐ 3 - Microfinance / Credit Associations

   ☐ 4 - Trader

   ☐ 5 - Private individual

   (e.g. family, friends, relatives, store/shop owners)

   ☐ 6 - Informal lenders *(e.g. "5-6")*

   ☐ 7 - Others (specify) :

If Item 1 is already coded as 2, no other entries shall be made in the succeeding items in this block.

Block L – Farmer's Participation in Tomato Programs/Projects

Illustration 14

Sample of data entry for Block L

L. FARMER'S PARTICIPATION IN TOMATO PROGRAMS / PROJECTS

1. Are you aware of any government program / intervention on tomato production? *(encircle code)*

   1 - Yes **2** - No

2. Have you availed of any benefit from government program / intervention? *(encircle code)*

   1 - Yes **2** - No, **go to Block M**

1
2

Encode either 1 or 2 in these cells/boxes.

3. What benefits have you availed of? *(encircle code/s)*

	1 - Planting materials
	2 - Fertilizer and other inputs
	3 - Training on farming technology
	4 - Post harvest facilities
	5 - Marketing support
	6 - Farm to market roads
	7 - Irrigation Facilities
	8 - Others (specify):

Encode 1 inside the white cell/box which corresponds to the encircled item/s in the questionnaire. For Others (specify), encode the verbatim answers.

4. Did you use the benefit/s in your production during the last completed cropping? *(encircle code)*

   1 - Yes **2** - No, **go to Block M**

5. Did the benefit/s receive helped increase your income from tomato farming? *(encircle code)*

   1 - Yes **2** - No

Encode either 1 or 2 in these cells/boxes.

Block M – Other Information

Illustration 15

Sample of data entry for Block M

M. OTHER INFORMATION

1. Has *Climate Change* affected your farming practices? *(encircle code)*

1 - Yes **2** - No, **go to Item 2** → **1**

1.01 What was/were the effect/s? *(encircle code/s or specify if necessary)*

	1 - Change in cropping pattern
1	2 - Increase in input usage
1	3 - Decrease in yield
	4 - Decrease in frequency of plowing
	5 - Others (specify):

2. Are you a member of farmers' organization? *(encircle code)* → **2**

1 - Yes **2** - No, **go to Block N**

2.01 What is the name of the organization?

2.02 What was/were the benefit/s received from the organization related to tomato production?

(encircle code/s or specify if necessary)

	1 - Training / Seminars
	2 - Financial / Credit support
	3 - Inputs support
	4 - Markerting support
	5 - None
	6 - Others (specify):

Encode 1 inside the white cell/box which corresponds to the encircled item/s in the questionnaire. For Others (specify), encode the verbatim answers below 5.

Encode 1 inside the white cell/box which corresponds to the encircled item/s in the questionnaire. For Others (specify), encode the verbatim answers below 6.

Enter code 1 or 2 in the box.

Enter code 1 or 2 in the box.

Encode the name of farmers' organization in the box.

Block N – Plans and Recommendations

Illustration 16

Sample of data entry for Block N

N. PLANS AND RECOMMENDATIONS

1. What is your plan regarding tomato farm operation?

(encircle code or specify if necessary)

	1 - Maintain current operation
1	2 - Expansion of area
	3 - Reduction of area
	4 - Shift to other crops
	5 - Others (specify):

2. What are your recommendations in order to improve your tomato production?

PROVIDE CROP LOANS WITH LOWER INTEREST RATE TO INCREASE CAPITAL
PROVIDE FARM EQUIPMENT

Encode 1 inside the white cell/box which corresponds to the encircled item in the questionnaire. For Others (specify), encode the verbatim answers below 5.

Encode the recommendations of the farmers in these boxes.

2017 SURVEY on COSTS and RETURNS of TOMATO PRODUCTION

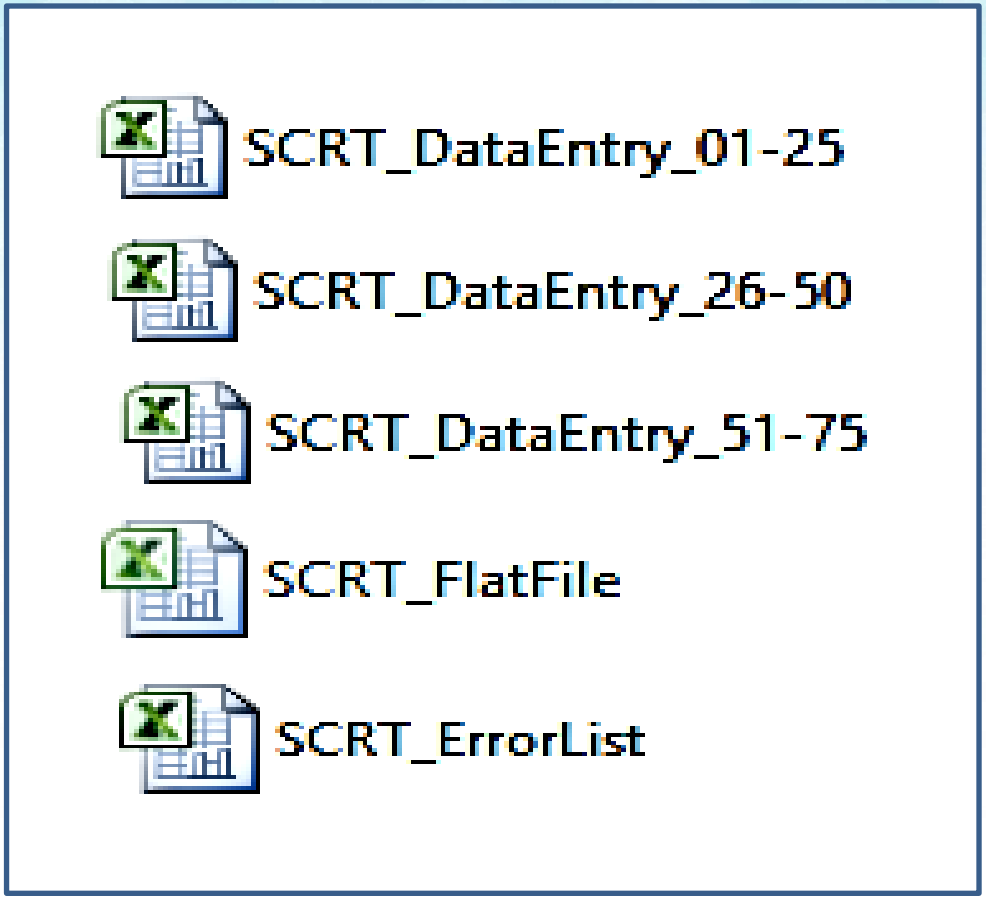
Training on Data Processing System, Data Review and Validation

Procedures on Data Review, Cleaning and Updating of Flat File

Instruction on Data Review and Data Cleaning

A. Accessing the flat file and error list (household level data):

1. Open the following MS Excel Files:



Instruction on Data Review and Data Cleaning

2. **Copy the data from SCRT_FlatFile (by block: AB to N) and paste in the SCRT_ErrorList. This should be done per Block/Worksheet.**

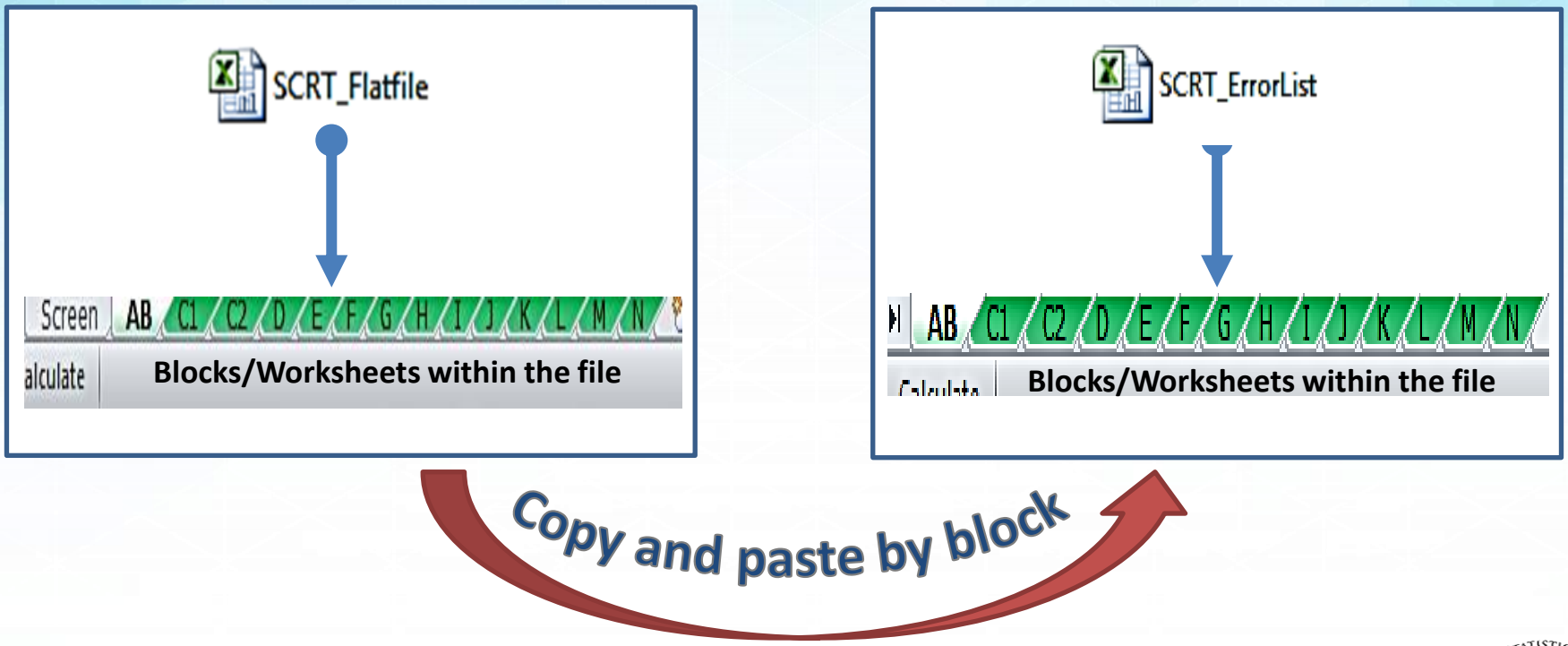


Illustration 17

Sample of Copying and Pasting the data from *SCRT_FlatFile* to SCRT_Errorlist

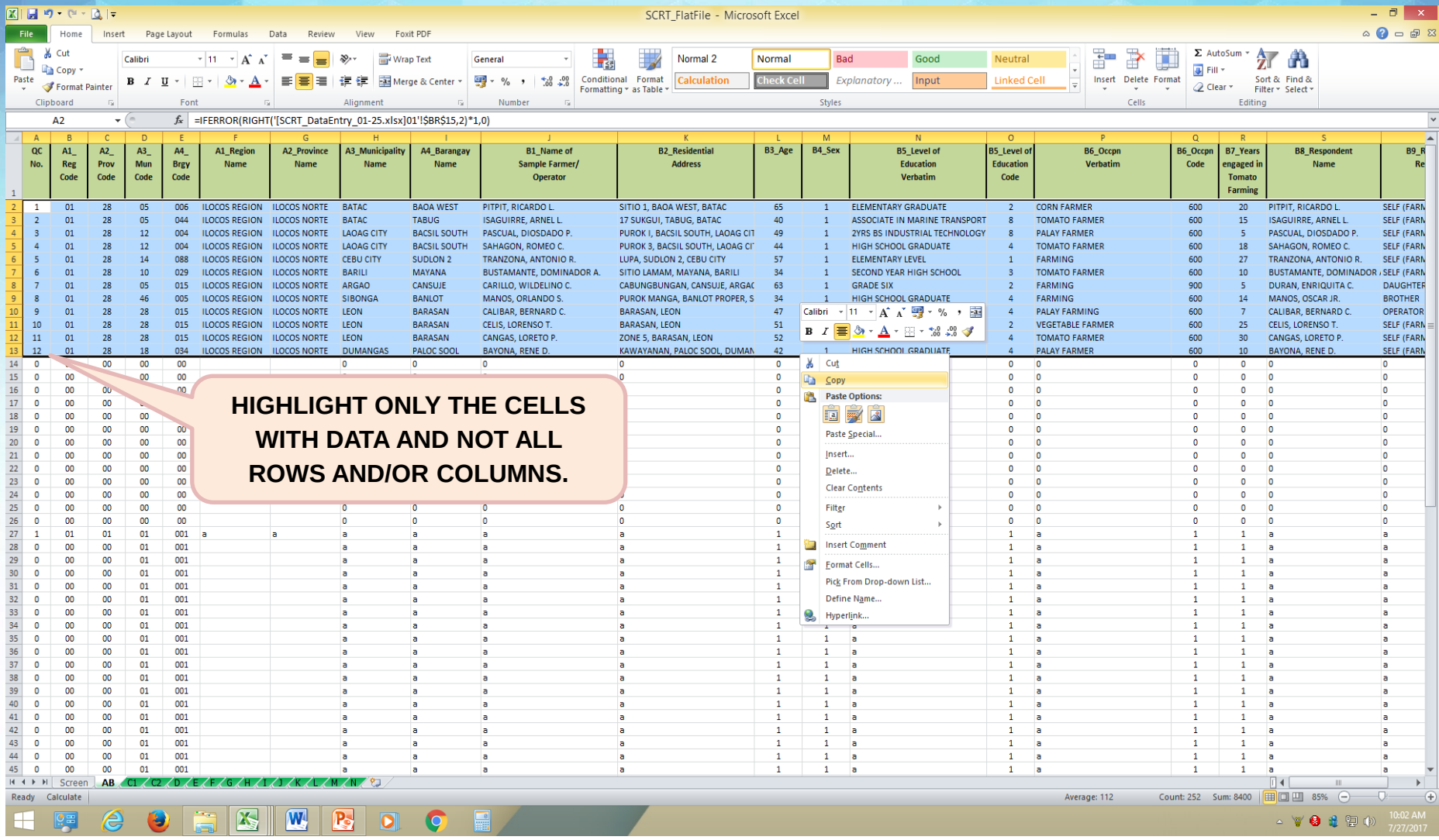
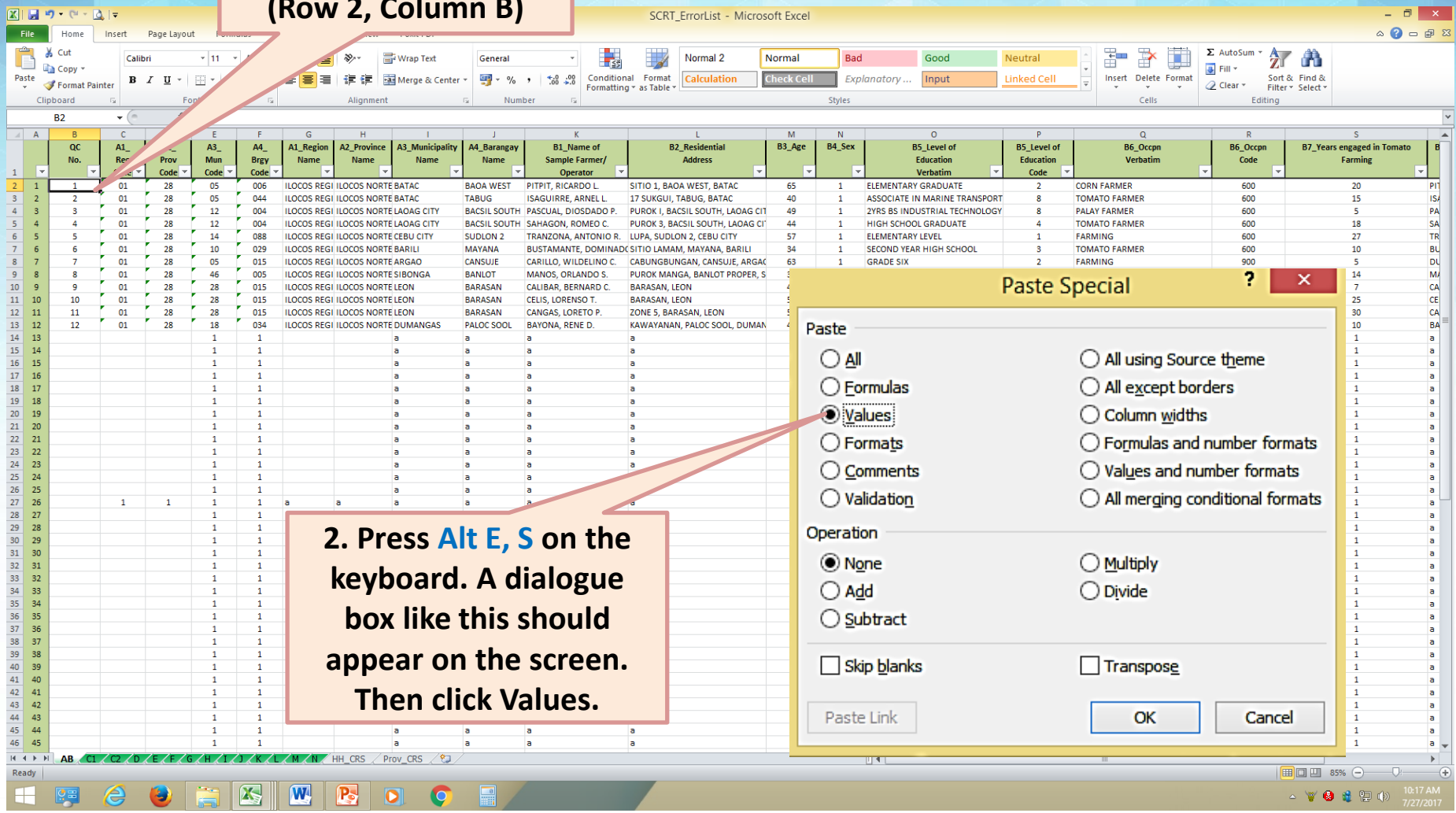


Illustration 17

Sample of Copying and Pasting the data from SCRT_FlatFile to *SCRT_Errorlist*

1. Cursor Here: (Row 2, Column B)



2. Press Alt E, S on the keyboard. A dialogue box like this should appear on the screen. Then click Values.

Instruction on Data Review and Data Cleaning

B. Components of the Data Review Process

1. **Completeness Check** – this activity ensures that all accomplished questionnaires have been encoded. The number of records in the data files should match the number of edited questionnaires. If not, check the encoded **QC No.** to determine the missing questionnaire or the questionnaire that was not encoded. Meanwhile, missing entries can easily be detected as the cell automatically turns red.

Instruction on Data Review and Data Cleaning

B. Components of the Data Review Process

2. **Consistency Check** – this activity ensures that the encoded data items are correct based on other data items. Furthermore, it means that one data item is supported or consistent with other data items (Example of an inconsistent data: age of the farmer is 25 years ols while the years of experience in tomato farming as operator is 15 which implies that the farmer started operating the farm at the age of 10.)

Instruction on Data Review and Data Cleaning

B. Components of the Data Review Process

3. **Accuracy Check** – this activity ensures that the encoded data are logical and within the range or acceptable values.

   a. **Accuracy** – measures the closeness of the estimates to the actual (true) value.

Accuracy

Instruction on Data Review and Data Cleaning

B. Components of the Data Review Process

b. **Validation** – examines the validity of the data if it is consistent with existing data series and if it hangs together with other auxiliary information. For instance, production costs and input usage generated from the survey results are compared with existing data checks (e.g. result of the previous SCR Tomato, production data, results of the Agricultural Labor Survey for the labor costs, prices of fertilizers and pesticides, etc.).

Instruction on Data Review and Data Cleaning

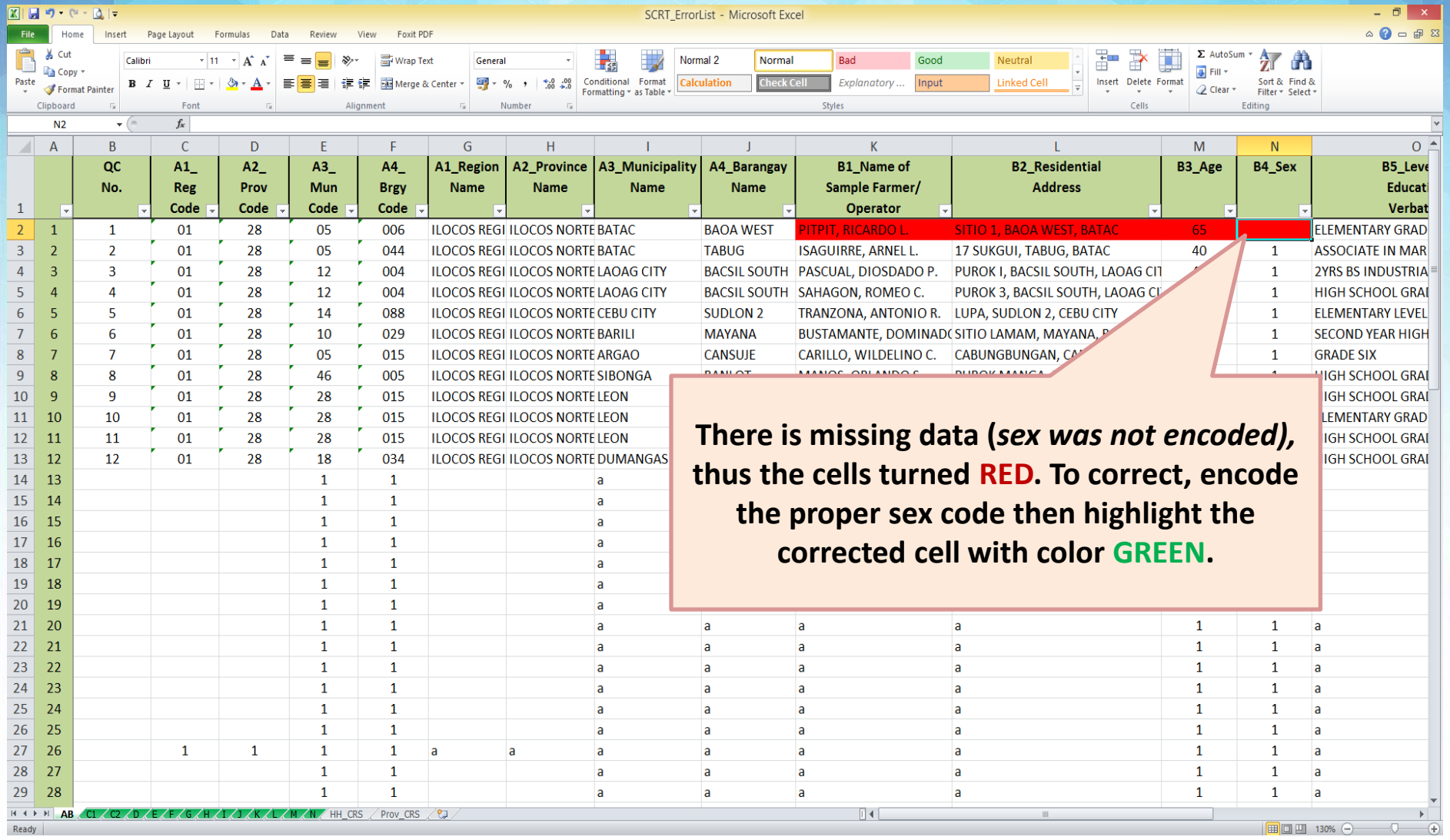
NOTE:

- If the cell turned **RED**, this means that there was an **ERROR** (**missing or inconsistent data**). Verify and correct the data.

- When the error has been verified and corrected, fill the cell with color **GREEN** to indicate that the data has been changed.

Illustration 18

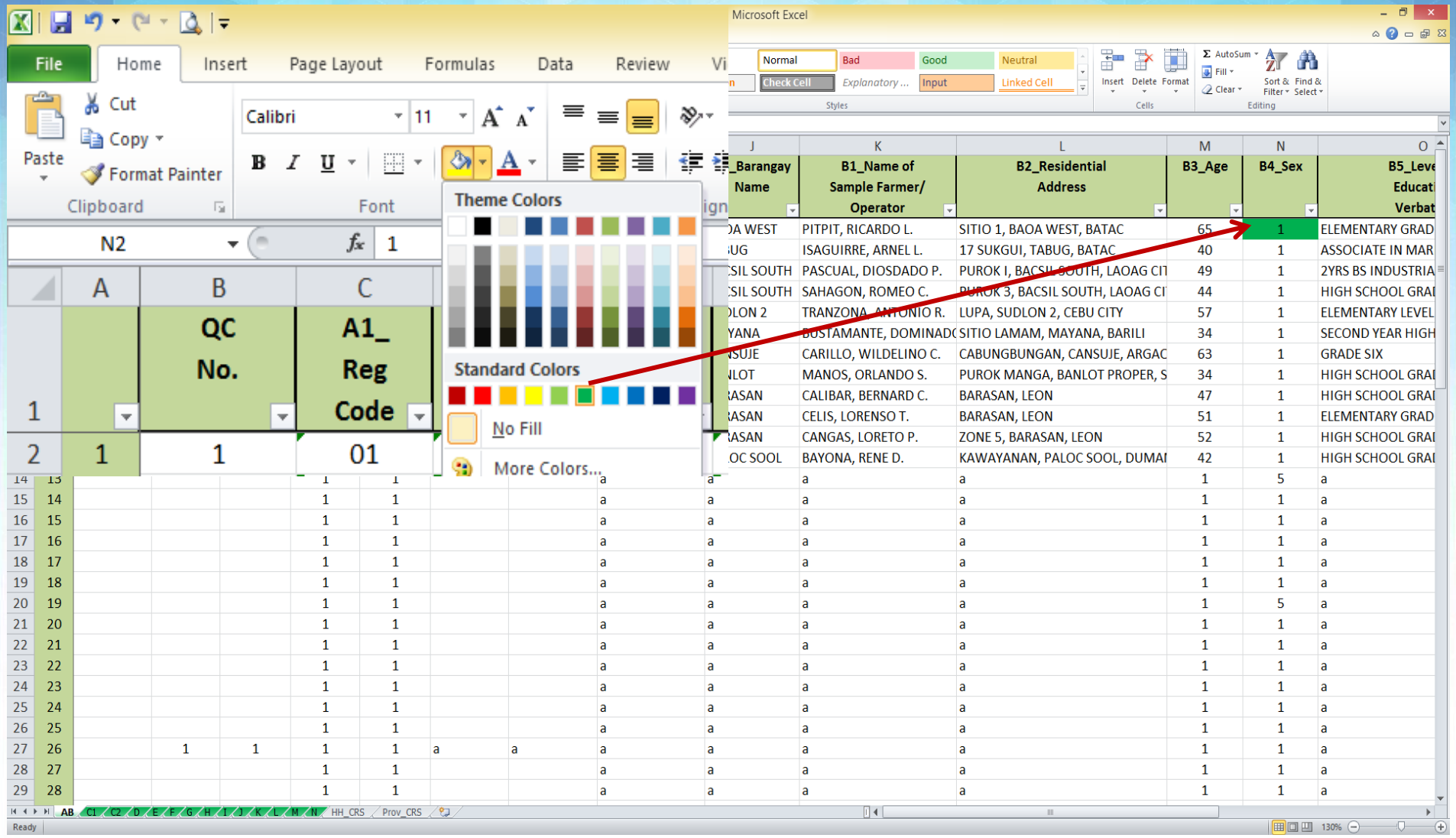
Sample of inconsistent data (with Red Cells) and How to correct the data



	QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	A1_Region Name	A2_Province Name	A3_Municipality Name	A4_Barangay Name	B1_Name of Sample Farmer/ Operator	B2_Residential Address	B3_Age	B4_Sex	B5_Leve Educat Verbat
2	1	01	28	05	006	ILOCOS REGI	ILOCOS NORTE	BATAC	BAOA WEST	PITPIT, RICARDO L.	SITIO 1, BAOA WEST, BATAC	65		ELEMENTARY GRAD
3	2	01	28	05	044	ILOCOS REGI	ILOCOS NORTE	BATAC	TABUG	ISAGUIRRE, ARNEL L.	17 SUKGUI, TABUG, BATAC	40	1	ASSOCIATE IN MAR
4	3	01	28	12	004	ILOCOS REGI	ILOCOS NORTE	LAOAG CITY	BACSIL SOUTH	PASCUAL, DIOSDADO P.	PUROK I, BACSIL SOUTH, LAOAG CIT		1	2YRS BS INDUSTRIA
5	4	01	28	12	004	ILOCOS REGI	ILOCOS NORTE	LAOAG CITY	BACSIL SOUTH	SAHAGON, ROMEO C.	PUROK 3, BACSIL SOUTH, LAOAG CI		1	HIGH SCHOOL GRAI
6	5	01	28	14	088	ILOCOS REGI	ILOCOS NORTE	CEBU CITY	SUDLON 2	TRANZONA, ANTONIO R.	LUPA, SUDLON 2, CEBU CITY		1	ELEMENTARY LEVEL
7	6	01	28	10	029	ILOCOS REGI	ILOCOS NORTE	BARILI	MAYANA	BUSTAMANTE, DOMINAD(	SITIO LAMAM, MAYANA,		1	SECOND YEAR HIGH
8	7	01	28	05	015	ILOCOS REGI	ILOCOS NORTE	ARGAO	CANSUJE	CARILLO, WILDELINO C.	CABUNGBUNGAN, CA		1	GRADE SIX
9	8	01	28	46	005	ILOCOS REGI	ILOCOS NORTE	SIBONGA						HIGH SCHOOL GRAI
10	9	01	28	28	015	ILOCOS REGI	ILOCOS NORTE	LEON						IGH SCHOOL GRAI
11	10	01	28	28	015	ILOCOS REGI	ILOCOS NORTE	LEON						LEMENTARY GRAD
12	11	01	28	28	015	ILOCOS REGI	ILOCOS NORTE	LEON						IGH SCHOOL GRAI
13	12	01	28	18	034	ILOCOS REGI	ILOCOS NORTE	DUMANGAS						IGH SCHOOL GRAI
14	13			1	1			a						
15	14			1	1			a						
16	15			1	1			a						
17	16			1	1			a						
18	17			1	1			a						
19	18			1	1			a						
20	19			1	1			a						
21	20			1	1			a	a	a	a	1	1	a
22	21			1	1			a	a	a	a	1	1	a
23	22			1	1			a	a	a	a	1	1	a
24	23			1	1			a	a	a	a	1	1	a
25	24			1	1			a	a	a	a	1	1	a
26	25			1	1			a	a	a	a	1	1	a
27	26	1	1	1	1	a	a	a	a	a	a	1	1	a
28	27			1	1			a	a	a	a	1	1	a
29	28			1	1			a	a	a	a	1	1	a

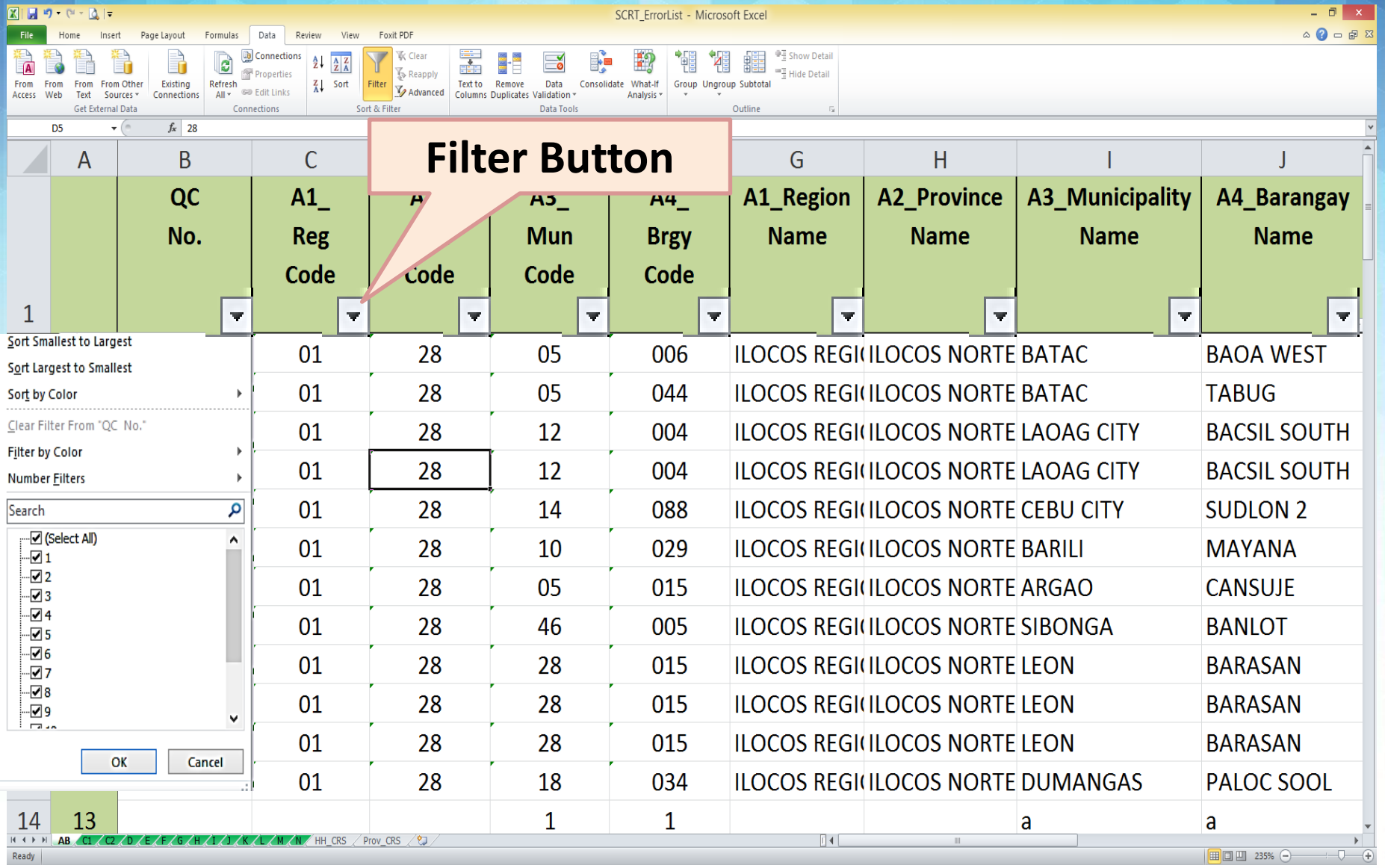
Illustration 18

Sample of inconsistent data (with Red Cells) and How to correct the data



Completeness Check

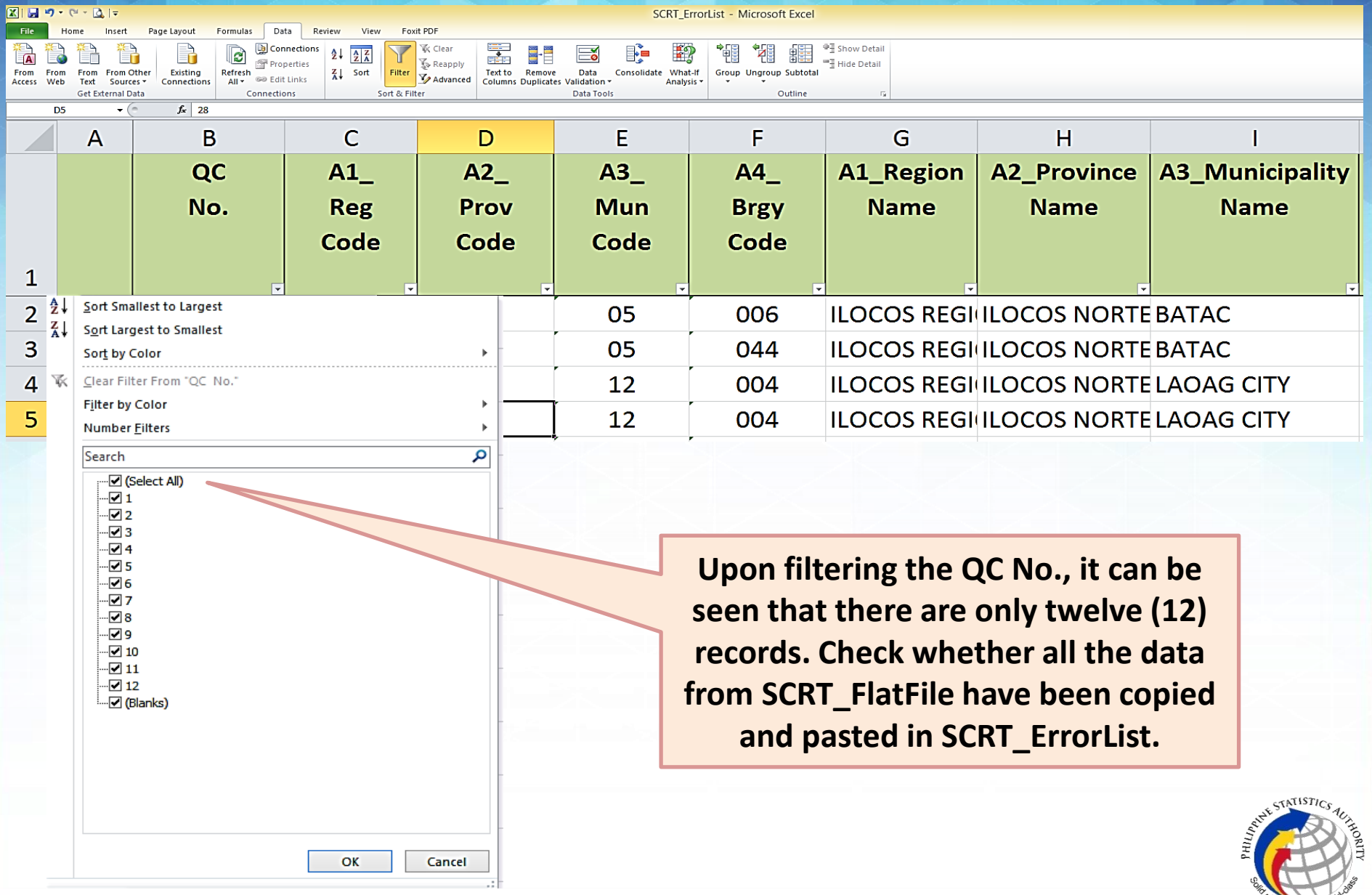
Illustration 19



	QC No.	A1_ Reg Code	A2_ Code	A3_ Mun Code	A4_ Brgy Code	A1_Region Name	A2_Province Name	A3_Municipality Name	A4_Barangay Name
1									
		01	28	05	006	ILOCOS REGI	ILOCOS NORTE	BATAC	BAOA WEST
		01	28	05	044	ILOCOS REGI	ILOCOS NORTE	BATAC	TABUG
		01	28	12	004	ILOCOS REGI	ILOCOS NORTE	LAOAG CITY	BACSIL SOUTH
		01	28	12	004	ILOCOS REGI	ILOCOS NORTE	LAOAG CITY	BACSIL SOUTH
		01	28	14	088	ILOCOS REGI	ILOCOS NORTE	CEBU CITY	SUDLON 2
		01	28	10	029	ILOCOS REGI	ILOCOS NORTE	BARILI	MAYANA
		01	28	05	015	ILOCOS REGI	ILOCOS NORTE	ARGAO	CANSUJE
		01	28	46	005	ILOCOS REGI	ILOCOS NORTE	SIBONGA	BANLOT
		01	28	28	015	ILOCOS REGI	ILOCOS NORTE	LEON	BARASAN
		01	28	28	015	ILOCOS REGI	ILOCOS NORTE	LEON	BARASAN
		01	28	28	015	ILOCOS REGI	ILOCOS NORTE	LEON	BARASAN
		01	28	18	034	ILOCOS REGI	ILOCOS NORTE	DUMANGAS	PALOC SOOL
14	13			1	1			a	a

Completeness Check

Illustration 19

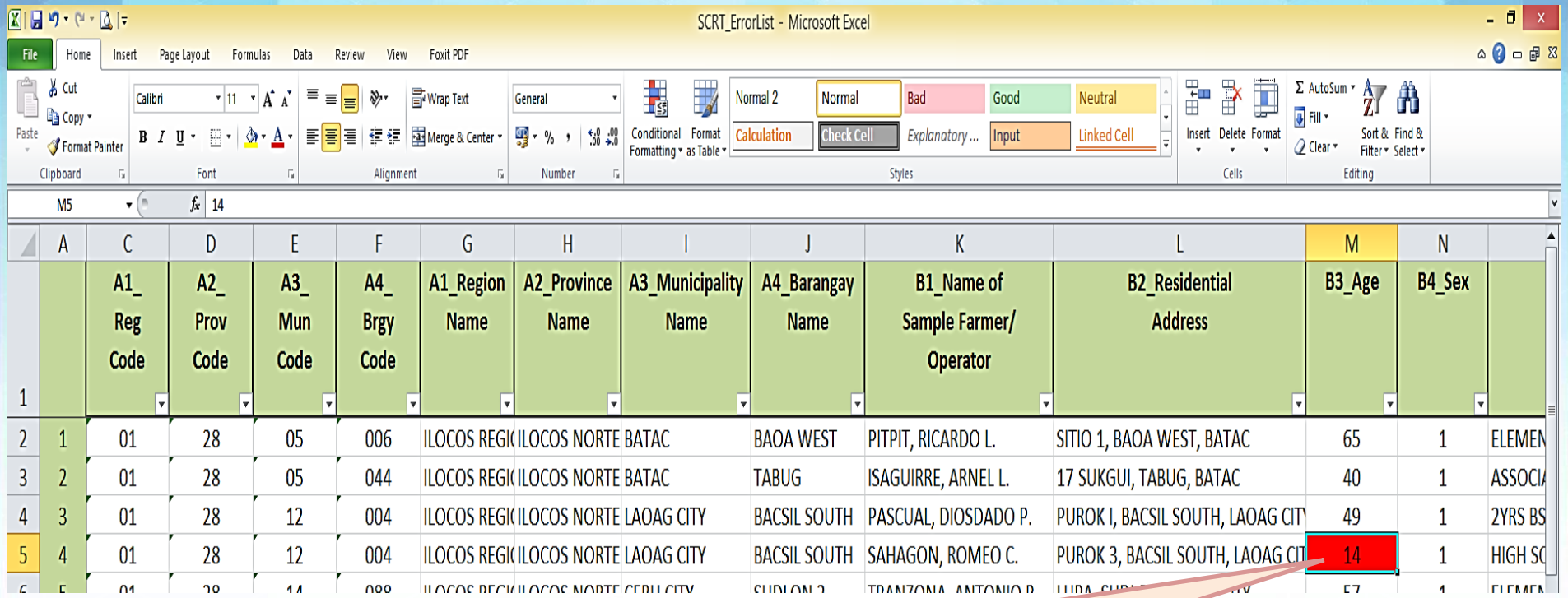


	A	B	C	D	E	F	G	H	I
1		QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	A1_Region Name	A2_Province Name	A3_Municipality Name
2					05	006	ILOCOS REGI	ILOCOS NORTE	BATAC
3					05	044	ILOCOS REGI	ILOCOS NORTE	BATAC
4					12	004	ILOCOS REGI	ILOCOS NORTE	LAOAG CITY
5					12	004	ILOCOS REGI	ILOCOS NORTE	LAOAG CITY

Upon filtering the QC No., it can be seen that there are only twelve (12) records. Check whether all the data from SCRT_FlatFile have been copied and pasted in SCRT_ErrorList.

Consistency and Accuracy Checks
Block B – Age

Illustration 20



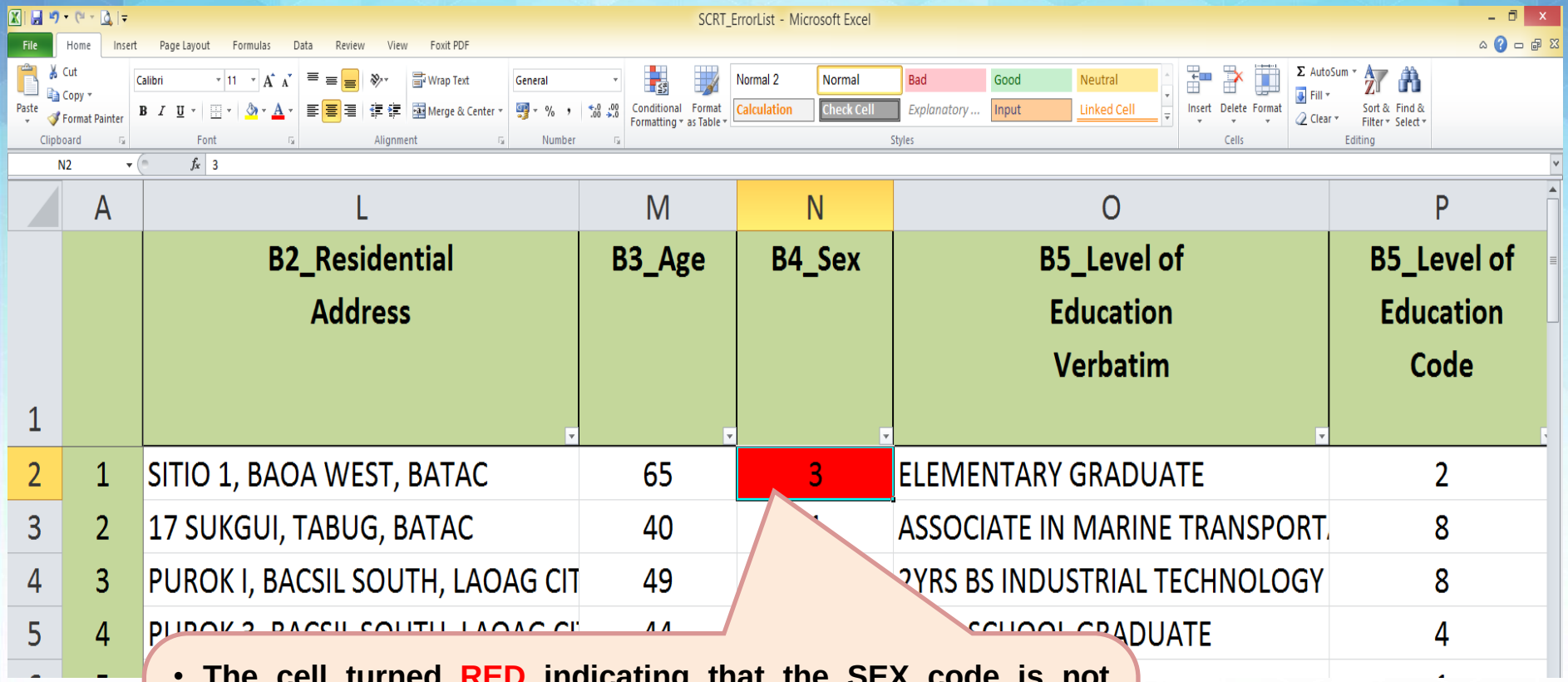
	A	C	D	E	F	G	H	I	J	K	L	M	N	
1		A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	A1_Region Name	A2_Province Name	A3_Municipality Name	A4_Barangay Name	B1_Name of Sample Farmer/ Operator	B2_Residential Address	B3_Age	B4_Sex	
2	1	01	28	05	006	ILOCOS REGI(	ILOCOS NORTE	BATAC	BAOA WEST	PITPIT, RICARDO L.	SITIO 1, BAOA WEST, BATAC	65	1	ELEMEN
3	2	01	28	05	044	ILOCOS REGI(	ILOCOS NORTE	BATAC	TABUG	ISAGUIRRE, ARNEL L.	17 SUKGUI, TABUG, BATAC	40	1	ASSOCI/
4	3	01	28	12	004	ILOCOS REGI(	ILOCOS NORTE	LAOAG CITY	BACSIL SOUTH	PASCUAL, DIOSDADO P.	PUROK I, BACSIL SOUTH, LAOAG CIT	49	1	2YRS BS
5	4	01	28	12	004	ILOCOS REGI(	ILOCOS NORTE	LAOAG CITY	BACSIL SOUTH	SAHAGON, ROMEO C.	PUROK 3, BACSIL SOUTH, LAOAG CI	14	1	HIGH SC

- **The cell turned RED indicating that the AGE is not 15 years old and above.**
- **Verify in the questionnaire and encode the correct data. Once corrected, fill the cell with color GREEN**

Consistency and Accuracy Checks

Block B – Sex

Illustration 21



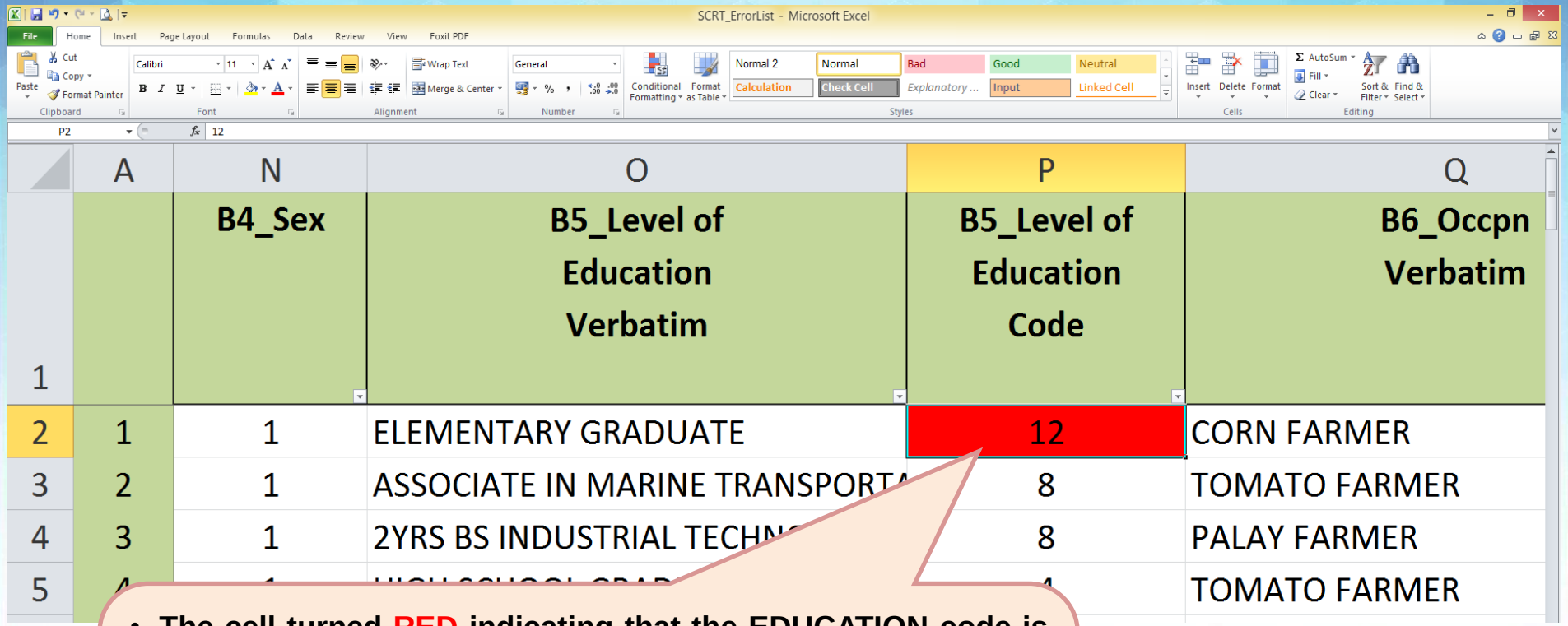
	A	L	M	N	O	P
1		B2_Residential Address	B3_Age	B4_Sex	B5_Level of Education Verbatim	B5_Level of Education Code
2	1	SITIO 1, BAOA WEST, BATAC	65	3	ELEMENTARY GRADUATE	2
3	2	17 SUKGUI, TABUG, BATAC	40		ASSOCIATE IN MARINE TRANSPORT	8
4	3	PUROK I, BACSIL SOUTH, LAOAG CIT	49		2YRS BS INDUSTRIAL TECHNOLOGY	8
5	4	PUROK 2, BACSIL SOUTH, LAOAG CI	44		SCHOOL GRADUATE	4

- **The cell turned RED indicating that the SEX code is not accepted.**
- **Check the name of the sample farmer and encode the correct data. Once corrected, fill the cell with color GREEN**

Consistency and Accuracy Checks

Block B – Level of Education

Illustration 22



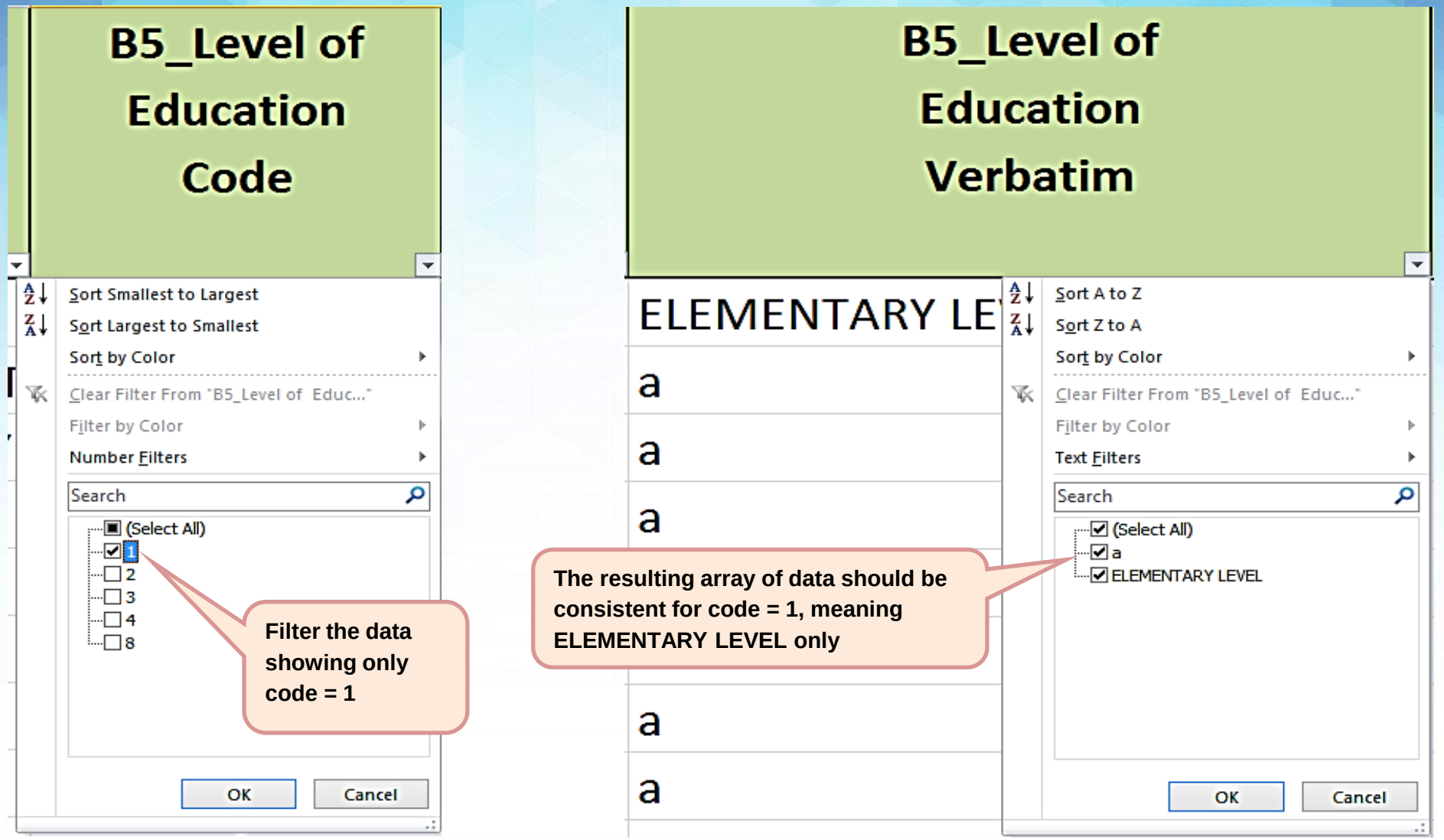
	A	N	O	P	Q
1		B4_Sex	B5_Level of Education Verbatim	B5_Level of Education Code	B6_Occpn Verbatim
2	1	1	ELEMENTARY GRADUATE	12	CORN FARMER
3	2	1	ASSOCIATE IN MARINE TRANSPORTA	8	TOMATO FARMER
4	3	1	2YRS BS INDUSTRIAL TECHN	8	PALAY FARMER
5					TOMATO FARMER

- **The cell turned RED indicating that the EDUCATION code is not accepted.**
- **The education code should be any number from 1 to 10 and should correspond with the verbatim answer for education. Once corrected, fill the cell with color GREEN**

Consistency and Accuracy Checks

Block B – Level of Education

Illustration 22

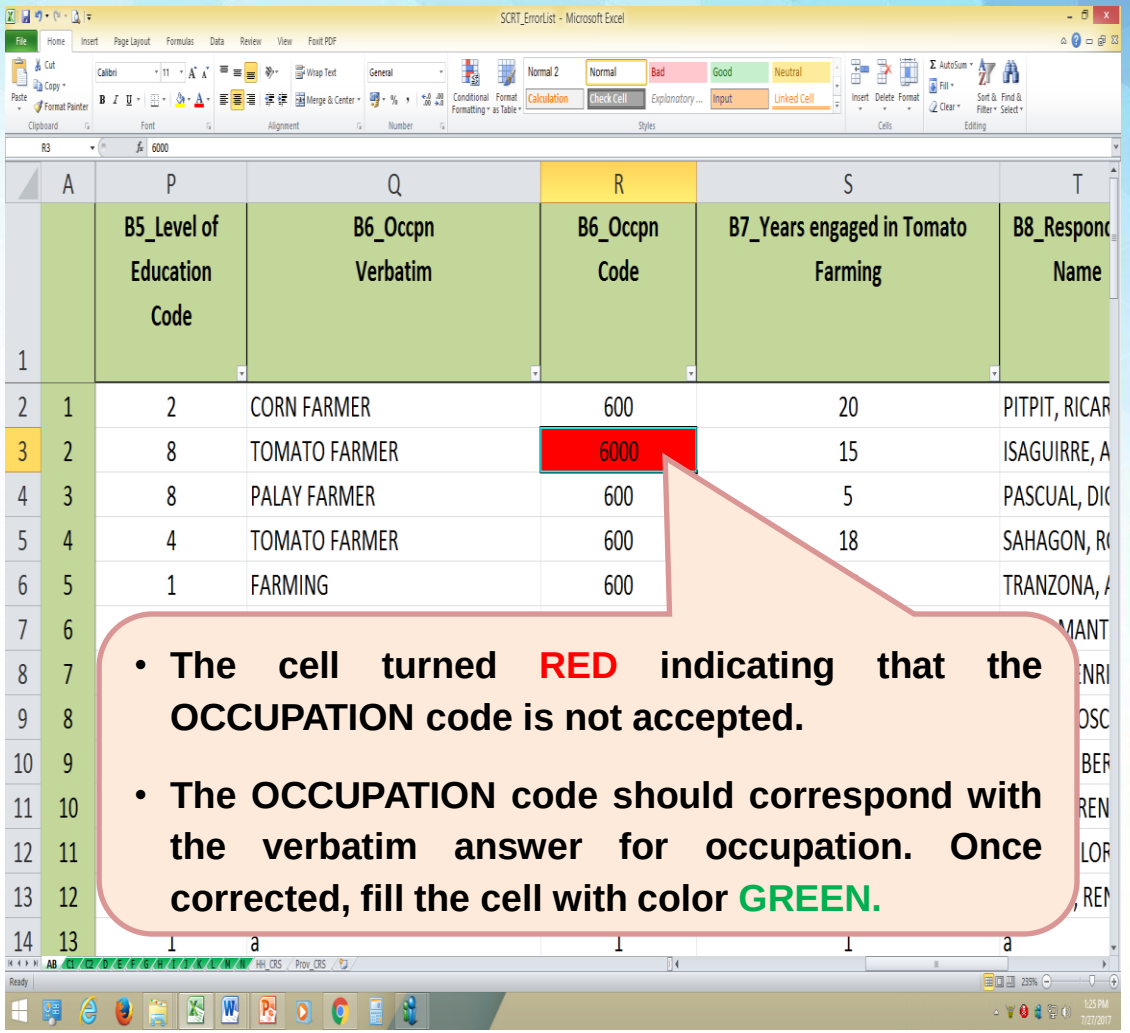


Consistency and Accuracy Checks

Block B – Main Occupation

Illustration 23

Main Occupation	
Code	**Item**
100	Managers
200	Professionals
300	Technicians and Associate Professionals
400	Clerical Support Workers
500	Service and Sales Workers
600	Skilled Agricultural, Forestry and Fishery Workers
700	Craft and Related Trades Workers
800	Plant and Machine Operators and Assemblers
900	Elementary Occupations: Unskilled Workers
010	Armed Forces Occupations



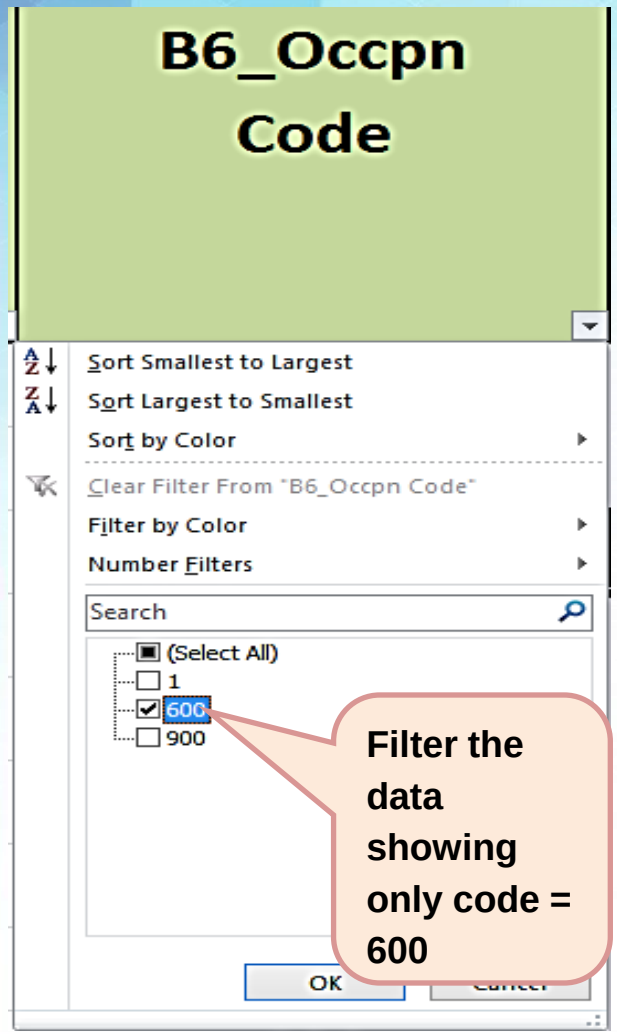
	A	P	Q	R	S	T
1		B5_Level of Education Code	B6_Occpn Verbatim	B6_Occpn Code	B7_Years engaged in Tomato Farming	B8_Respond Name
2	1	2	CORN FARMER	600	20	PITPIT, RICAR
3	2	8	TOMATO FARMER	6000	15	ISAGUIRRE, A
4	3	8	PALAY FARMER	600	5	PASCUAL, DIC
5	4	4	TOMATO FARMER	600	18	SAHAGON, R
6	5	1	FARMING	600		TRANZONA, A
7	6					MANT
8	7					NRI
9	8					OSC
10	9					BER
11	10					REN
12	11					LOR
13	12					REN
14	13	1	a	1	1	a

- The cell turned **RED** indicating that the OCCUPATION code is not accepted.
- The OCCUPATION code should correspond with the verbatim answer for occupation. Once corrected, fill the cell with color **GREEN.**

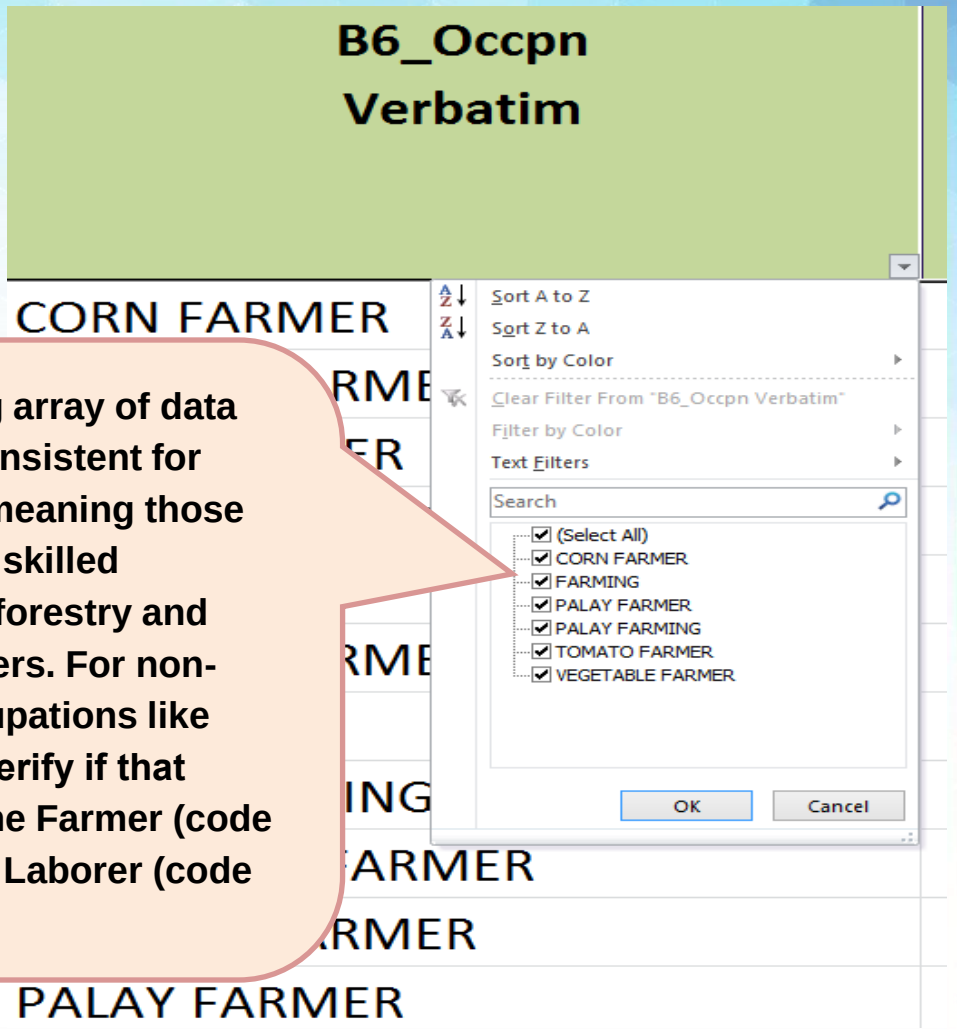
Consistency and Accuracy Checks

Block B – Main Occupation

Illustration 23



Filter the data showing only code = 600

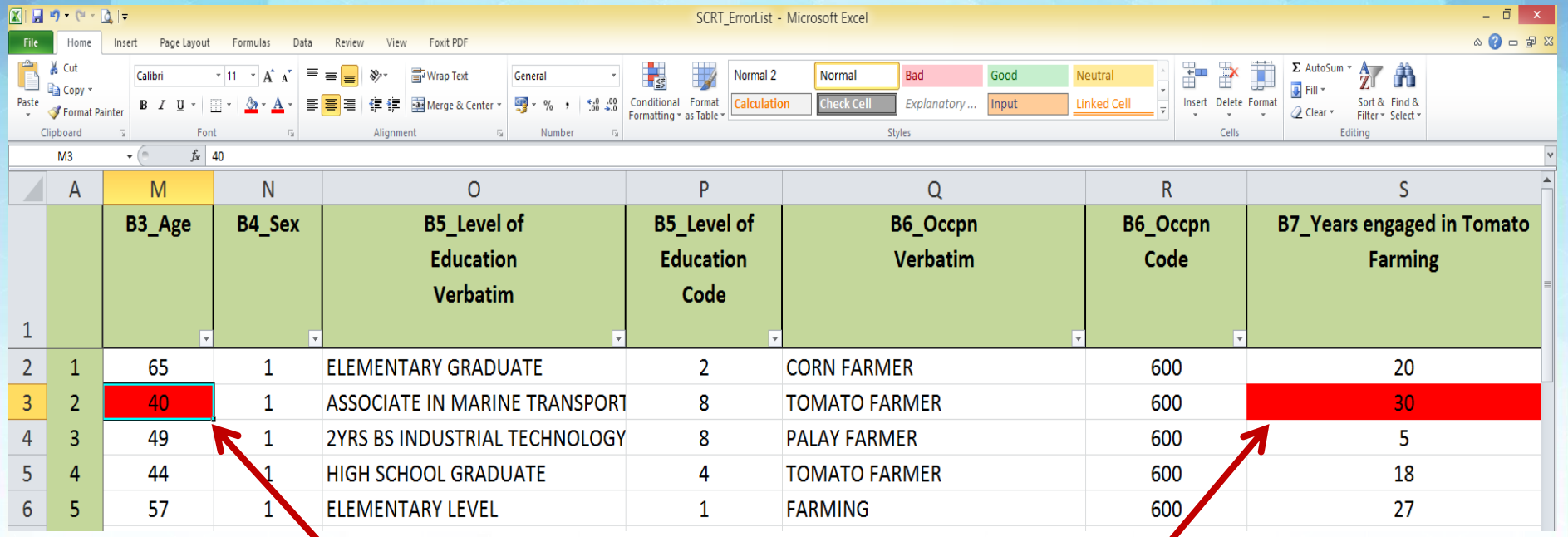


The resulting array of data should be consistent for code = 600, meaning those belonging to skilled agricultural, forestry and fishery workers. For non-specific occupations like "Farming", verify if that pertains to the Farmer (code 600) or Farm Laborer (code 900).

Consistency and Accuracy Checks

Block B – Years Experience

Illustration 24



	A	M	N	O	P	Q	R	S
1		B3_Age	B4_Sex	B5_Level of Education Verbatim	B5_Level of Education Code	B6_Occpn Verbatim	B6_Occpn Code	B7_Years engaged in Tomato Farming
2	1	65	1	ELEMENTARY GRADUATE	2	CORN FARMER	600	20
3	2	40	1	ASSOCIATE IN MARINE TRANSPORT	8	TOMATO FARMER	600	30
4	3	49	1	2YRS BS INDUSTRIAL TECHNOLOGY	8	PALAY FARMER	600	5
5	4	44	1	HIGH SCHOOL GRADUATE	4	TOMATO FARMER	600	18
6	5	57	1	ELEMENTARY LEVEL	1	FARMING	600	27

- **The cell turned RED indicating that the difference between Age and farming experience is less than 15.**
- **Verify in the questionnaire the correct age and/or years engaged in tomato farming. Once the correct data was encoded, fill the cell with color GREEN.**

PHILIPPINE STATISTICS AUTHORITY
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Consistency and Accuracy Checks

Block C – Total Physical Area

Illustration 25

	A	B	C	D	E	F	G	H	I	J	K
1		QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	C1.1_Parcel ID	C1.2_Total Physical Area of the Parcel	C1.3_Area Planted to Tomato	C1.4_Area Planted to Other Crops	C1.5_Area of Other Structure
24	3	3	01	28	12	004	1	0.3500	0.1750	0.1750	
25	3	3	01	28	12	004	2	0.4200	0.2000	0.2200	
26	3	3	01	28	12	004	3	0.0150	0.0500	0.1000	
27	3	3	01	28	12	004	4	0.1200		0.1200	
28	3	3	01	28	12	004	5	0.0750		0.0750	
29	3	3	01	28	12	004					
30	3	3	01	28	12	004					
31	3	3	01	28	12	00					
32	3	3	01	28	12		9				
33	3	3	01	28	12		10				
34							Total	1.1150	0.4250	0.6900	

- **The cells turned RED indicating that the encoded Total Physical Area of the parcel is not equal to sum of area planted to tomato and the area planted to other crops (*horizontal summation*). Likewise, the TOTAL physical area of all parcels operated (parcels 1 to 5) by the farmer is not equal to the sum of all the individual parcels (*vertical summation*).**
- **Verify in the questionnaire and check the sum. Encode the correct data and fill the corrected cell with color GREEN.**

H	I	J	K
C1.2_Total Physical Area of the Parcel	C1.3_Area Planted to Tomato	C1.4_Area Planted to Other Crops	C1.5_Area of Other Structure
0.3500	0.1750	0.1750	
0.4200	0.2000	0.2200	
0.1500	0.0500	0.1000	
0.1200		0.1200	
0.0750		0.0750	
1.1150	0.4250	0.6900	

Consistency and Accuracy Checks

Block C – Physical Area

Illustration 26

	A	B	C	D	E	F	G	H	I	J	K
1		QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	C1.1_Parcel ID	C1.2_Total Physical Area of the Parcel	C1.3_Area Planted to Tomato	C1.4_Area Planted to Other Crops	C1.5_Area of Other Structure
35	4	4	01	28	12	004	1	1.0000	1.0000		
36	4	4	01	28	12	004	2	0.5000	0.5000	0.1000	
37	4	4	01	28	12	004	3	0.5000	0.5000		
38	4	4	01	28	12	004	4				
39	4	4	01	28	12	004	5				
40	4	4	01	28	12	004	6				
41	4	4	01	28	12	004	7				
42	4	4	01	28	12	004	8				
43	4	4	01	28	12	004	9				
44	4	4	01	28	12	004	10				
45	4	4	01	28	12	004	Total	2.0000	1.9000	0.1000	

G	H	I	J	K
C1.1_Parcel ID	C1.2_Total Physical Area of the Parcel	C1.3_Area Planted to Tomato	C1.4_Area Planted to Other Crops	C1.5_Area of Other Structure
1	1.0000	1.0000		
2	0.5000	0.4000	0.1000	
3	0.5000	0.5000		
4				
5				
6				
7				
8				
9				
10				
Total	2.0000	1.9000	0.1000	

- The cells turned RED since horizontal summation (C1.2) for Parcel 2 is incorrect. Likewise, the vertical summation for Area Planted to Tomato (C1.3) is incorrect.
- Verify in the questionnaire, encode the correct data and fill the corrected cell with color GREEN.

Consistency and Accuracy Checks

Block C – Focus Parcel

Illustration 27

	A	B	C	D	E	F	G	H
1		QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	C2_Focus Parcel	C3_Tenure Code
2	1	1	01	28	05	006	1	
3	2	2	01	28	05	044	2	3

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready

- The cell turned **RED** since the encoded focus parcel number (1) has no corresponding area planted to tomato in block/worksheet C1.
- To correct, encode the proper focus parcel number (*in this example, input 2*) and fill the corrected cell with color **GREEN.**

	A	B	C	D	E	F	G	H		
1		QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	C1.1_Parcel ID	C1.2_Total Physical Area of the Parcel	C1.3_Area Plar to Tomato	
2	1	1	01	28	05	006	1	0.1000		0.1000
3	1	1	01	28	05	006	2	0.2000	0.2000	
4	1	1	01	28	05	006	3	0.0500		0.0500
5	1	1	01	28	05	006	4	0.1000		0.1000
6	1	1	01	28	05	006	5	0.0500		0.0500
7	1	1	01	28	05	006	6			
8	1	1	01	28	05	006	7			
9	1	1	01	28	05	006	8			
10	1	1	01	28	05	006	9			
11	1	1	01	28	05	006	10			
12	1	1	01	28	05	006	Total	0.5000	0.2000	0.3000

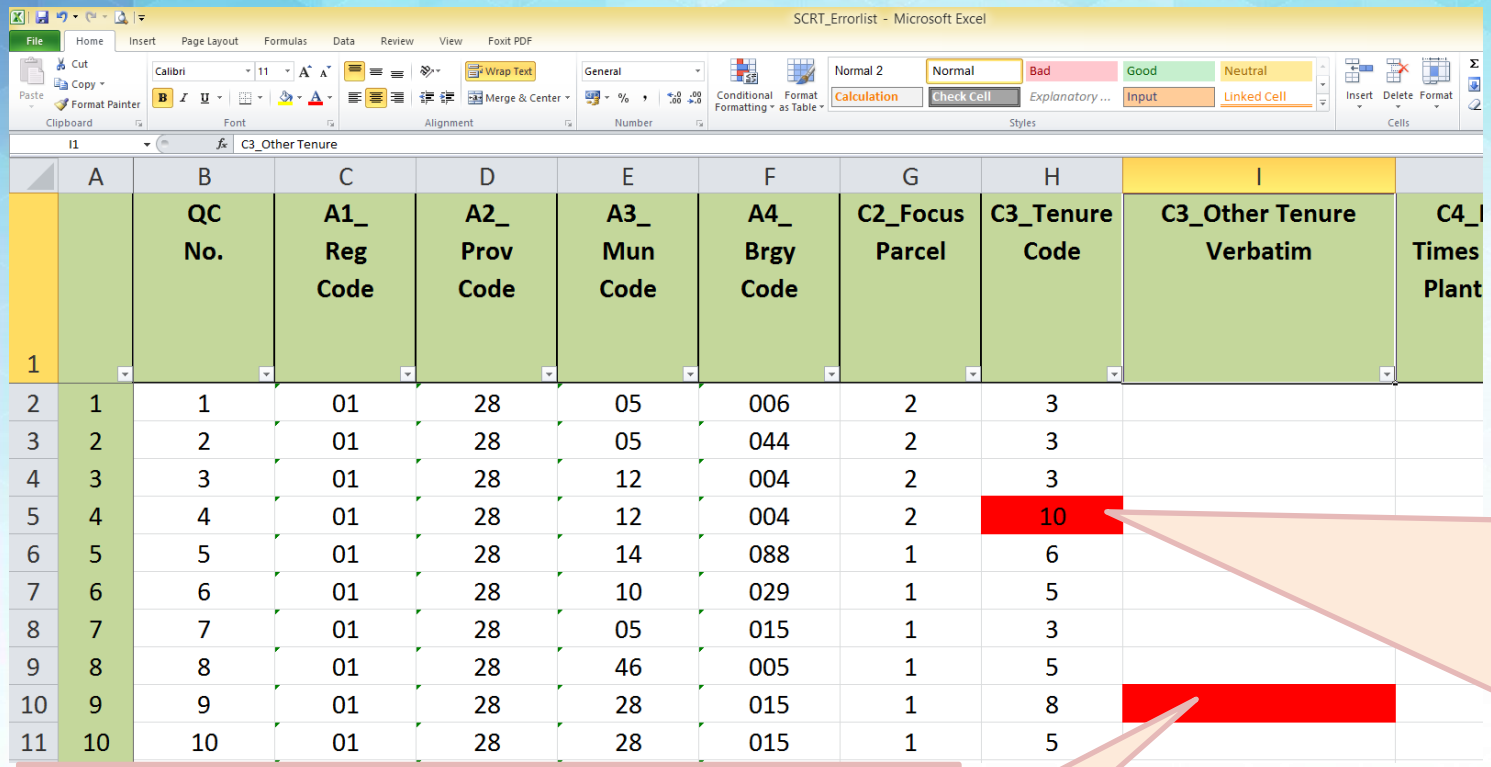
AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready

Consistency and Accuracy Checks

Block C – Tenurial Status

Illustration 28



	A	B	C	D	E	F	G	H	I	
1		QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	C2_Focus Parcel	C3_Tenure Code	C3_Other Tenure Verbatim	C4_ Times Plant
2	1	1	01	28	05	006	2	3		
3	2	2	01	28	05	044	2	3		
4	3	3	01	28	12	004	2	3		
5	4	4	01	28	12	004	2	10		
6	5	5	01	28	14	088	1	6		
7	6	6	01	28	10	029	1	5		
8	7	7	01	28	05	015	1	3		
9	8	8	01	28	46	005	1	5		
10	9	9	01	28	28	015	1	8		
11	10	10	01	28	28	015	1	5		

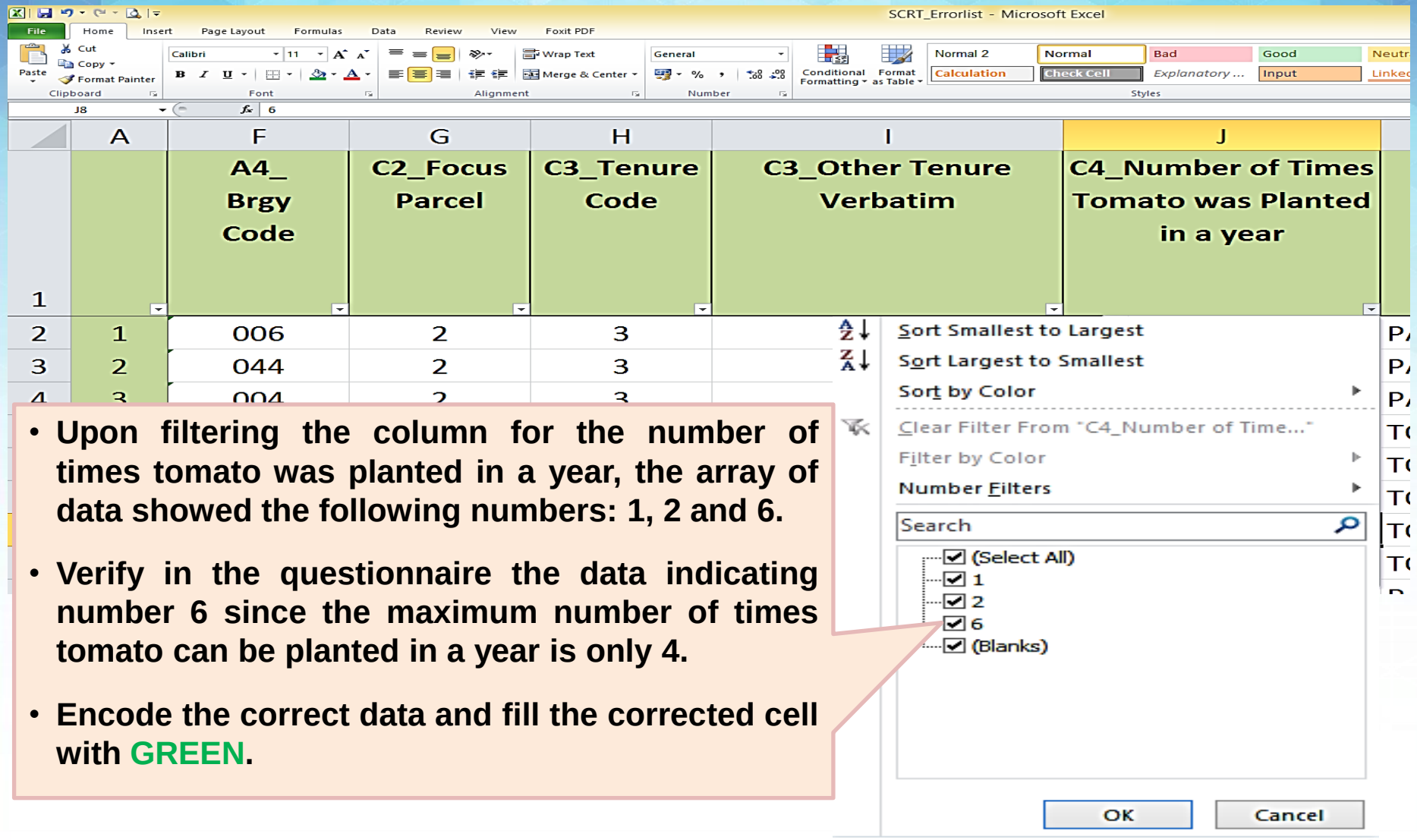
- The cell turned **RED** since the encoded tenure code is 8 (Others – specify). However, verbatim answer is missing.
- Verify in the questionnaire, encode the correct code/enter the corresponding verbatim answer and fill the corrected cell with color **GREEN.**

- The cell turned **RED** since the encoded tenure code is incorrect.
- Verify in the questionnaire, encode the correct code and fill the corrected cell with color **GREEN.**

Consistency and Accuracy Checks

Block C – Number of Times Planted

Illustration 29

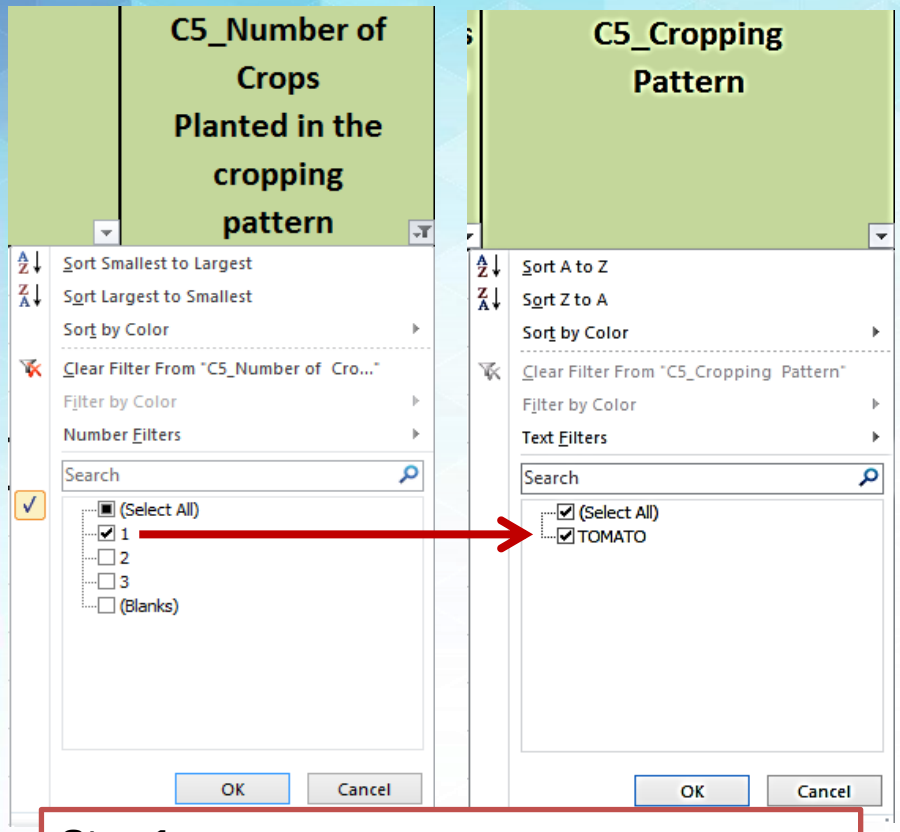


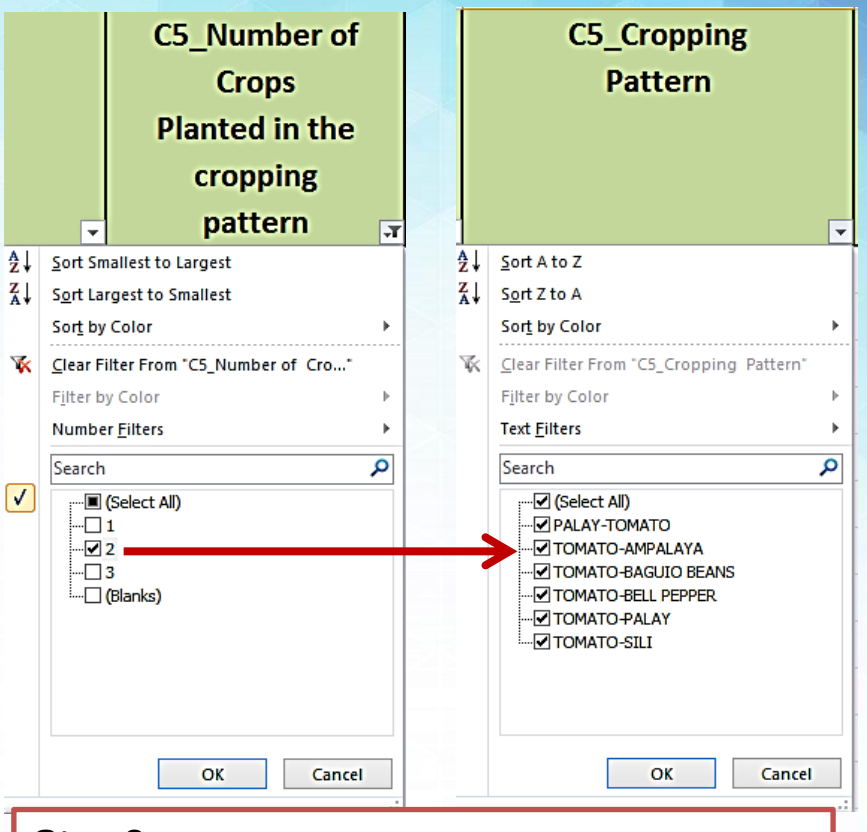
- **Upon filtering the column for the number of times tomato was planted in a year, the array of data showed the following numbers: 1, 2 and 6.**
- **Verify in the questionnaire the data indicating number 6 since the maximum number of times tomato can be planted in a year is only 4.**
- **Encode the correct data and fill the corrected cell with GREEN.**

Consistency and Accuracy Checks

Block C – Cropping Pattern

Illustration 30.1





Step 1

- Filter 1 in the number of crops planted.
- Check the resulting array of data in cropping pattern.
- In this example, notice that the filtered data are consistent.

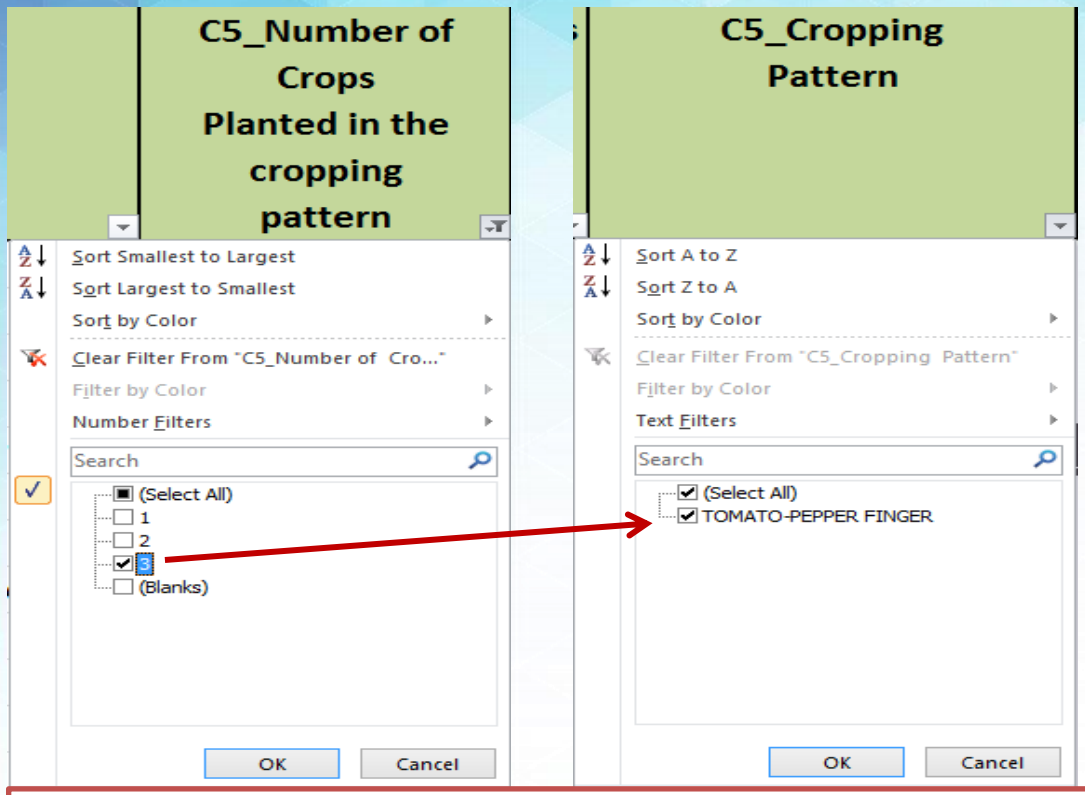
Step 2

- Filter 2 in the number of crops planted.
- Check the resulting array of data in cropping pattern.
- In this example, notice that the filtered data are consistent.

Consistency and Accuracy Checks

Block C – Cropping Pattern

Illustration 30.2



C5_Cropping Pattern	C5_Number of Crops Planted in the cropping pattern
PALAY-TOMATO	2
PALAY-TOMATO	2
PALAY-TOMATO	2
TOMATO-PALAY	2
TOMATO-BELL PEPPER	2
TOMATO-SILI	2
TOMATO-BAGUIO BEANS	2
TOMATO-AMPALAYA	2
PALAY-TOMATO	2
TOMATO	1
TOMATO-PEPPER FINGER	2
TOMATO-PALAY	2

Step 3

- Filter 3 in the number of crops planted.
- Check the resulting array of data in cropping pattern.
- In this example, notice that the filtered data are inconsistent. There are only two commodities indicated in the cropping pattern (tomato & pepper finger).

Step 4

- Verify in the questionnaire and encode the correct data. Afterwards, fill the corrected cell with GREEN.

Consistency and Accuracy Checks

Block C – Area Planted

Illustration 31

	A	B	M
1		QC No.	C6_Area planted to tomato focus parcel
2	1	1	0.1000
3	2	2	0.5000
4	3	3	0.2000
5	4	4	0.4000
6	5	5	0.2500

AB C1 C2 D E F G H I J K L M N HH

Ready

	A	B	G	H	I	J	K
1		QC No.	C1.1_Parcel ID	C1.2_Total Physical Area of the Parcel	C1.3_Area Planted to Tomato	C1.4_Area Planted to Other Crops	C1.5_Area of Ot Structure
2	1	1	1	0.1000		0.1000	
3	1	1	2	0.2000	0.2000		
4	1	1	3	0.0500		0.0500	
5	1	1	4	0.1000		0.1000	
6	1	1	5	0.0500		0.0500	
7	1	1	6				
8	1	1	7				
9	1	1	8				
10	1	1	9				
11	1	1	10				
12	1	1	Total	0.5000	0.2000	0.3000	

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready

- Cell color turned **RED** indicating that the area planted to tomato of the focus parcel (0.1000) is not equal to the area planted to tomato indicated in column C1.3 in block/worksheet C1 (that is 0.2000).
- Encode the correct data and fill the cell with color **GREEN**.

Consistency and Accuracy Checks

Block C – Area Harvested

Illustration 32

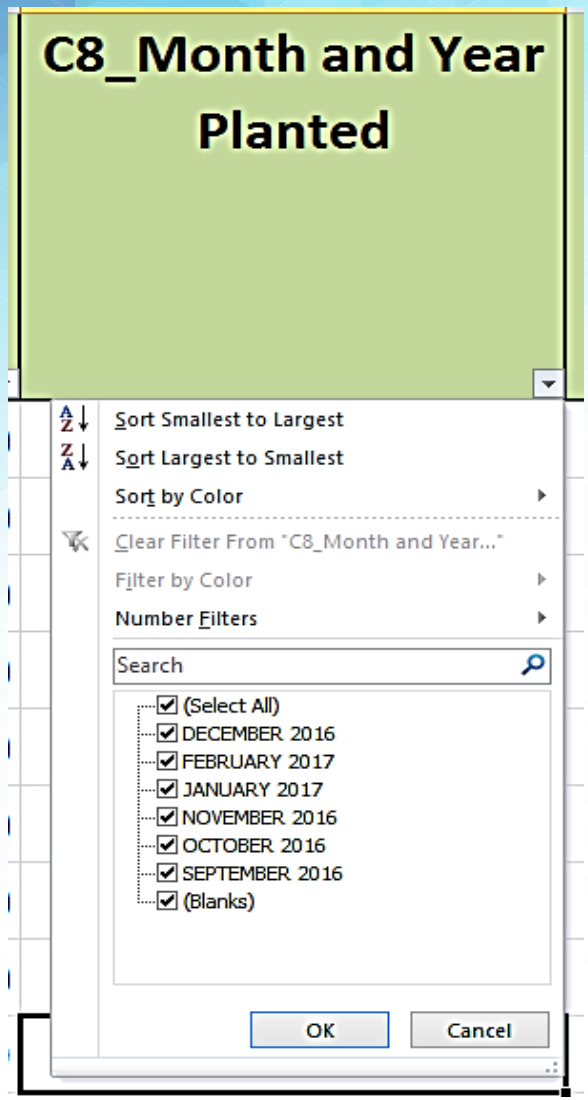
C6_Area planted to tomato focus parcel	C7_Area harvested to tomato focus parcel
0.2000	0.2000
0.5000	0.5000
0.2000	0.2000
0.4000	0.5000
0.2500	0.2500
0.2500	0.2500
0.2000	0.2000
0.1000	0.1000
0.2500	0.1589
0.2500	0.2500
0.5000	0.5000
0.5000	0.5000

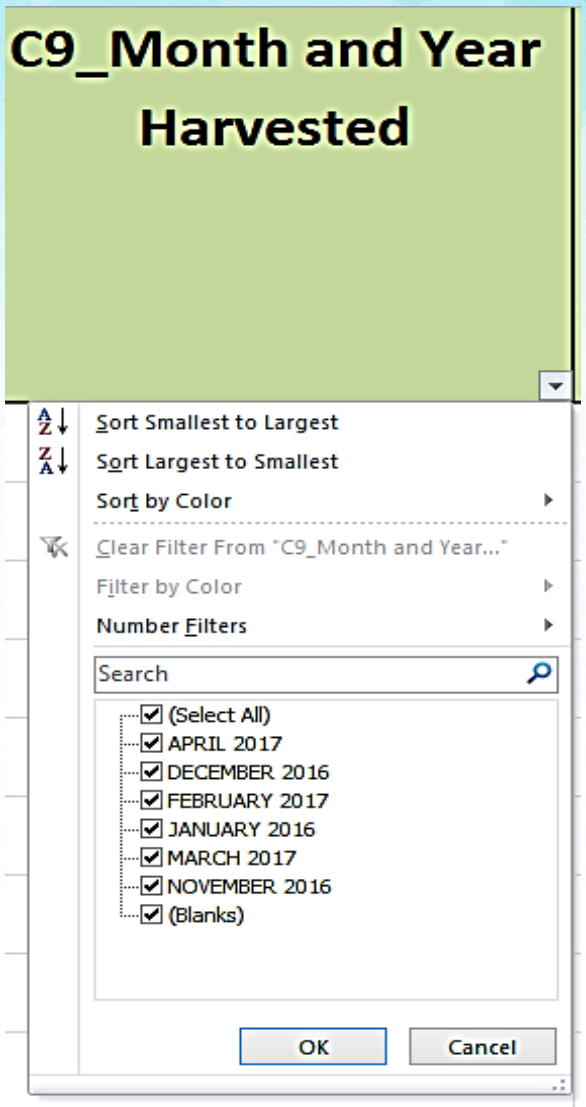
- **Cell color turned RED indicating that the area harvested of the focus parcel (0.5000) is greater than the area planted of focus parcel (0.4000).**
- **Encode the correct data and fill the cell with color GREEN.**

Consistency and Accuracy Checks

Block C – Month and Year Planted/Harvested

Illustration 33

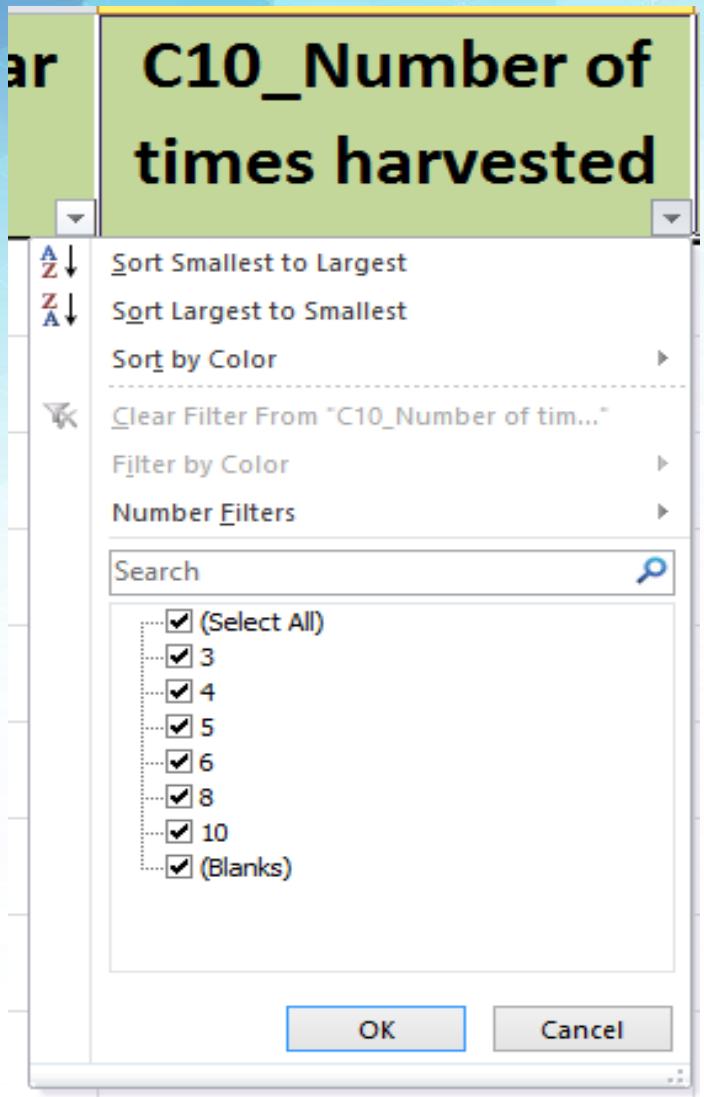




- **Using the data for Luzon and Visayas provinces, notice in this illustration that the array of data in the filtered columns are within the reference period.**
- **In case there is an incorrect data, verify in the questionnaire and encode the correct data followed by filling of the corrected cell with color GREEN.**

Block C – Number of times harvested

Illustration 34

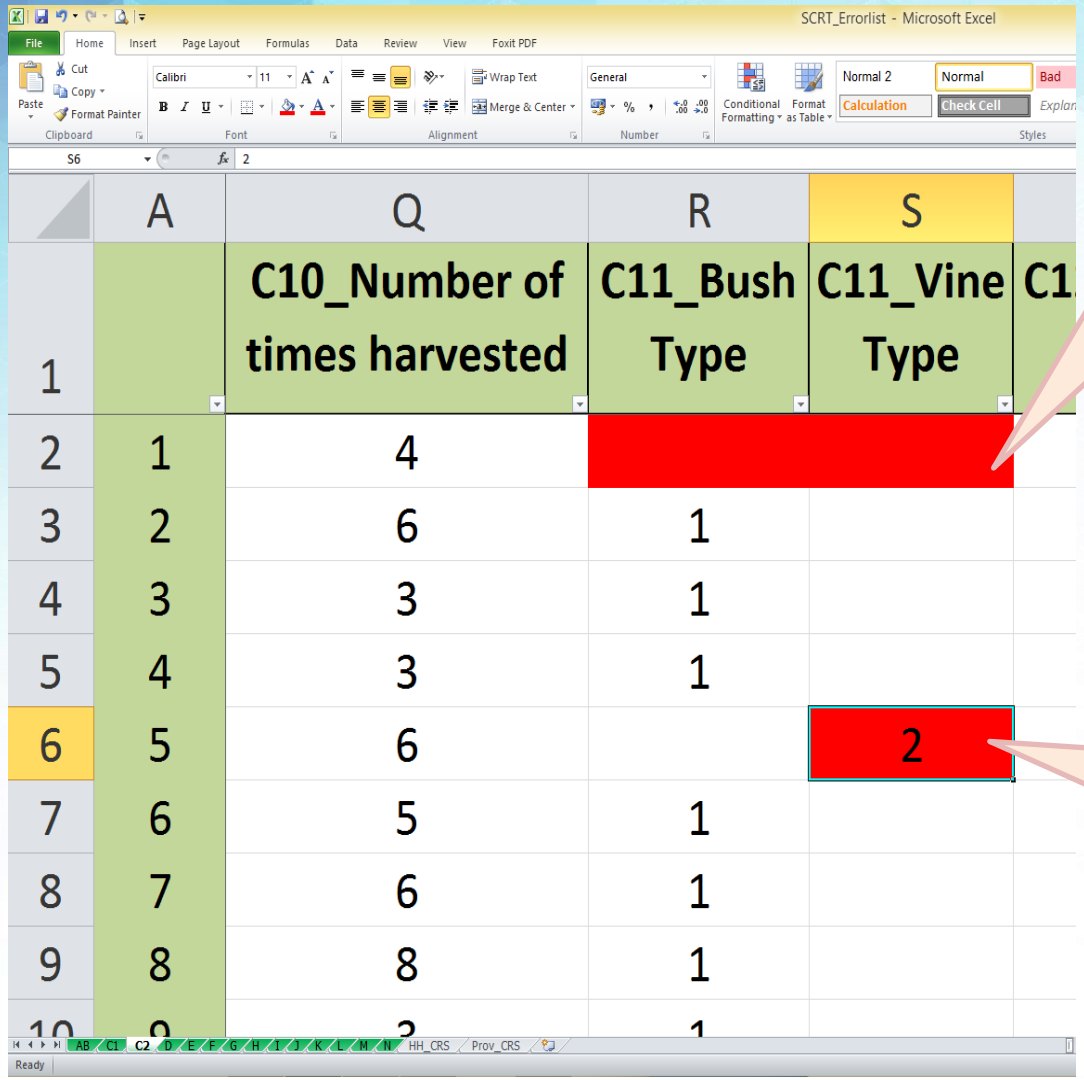


- **Filter and check the array of data.**
- **In this illustration, the highest number of times tomato was harvested by the farmer/operator is ten (10). This is still within the acceptable range of the frequency of harvesting tomato.**

Consistency and Accuracy Checks

Block C – Type of Tomato Planted

Illustration 35



	A	Q	R	S
1		C10_Number of times harvested	C11_Bush Type	C11_Vine Type
2	1	4		
3	2	6	1	
4	3	3	1	
5	4	3	1	
6	5	6		2
7	6	5	1	
8	7	6	1	
9	8	8	1	

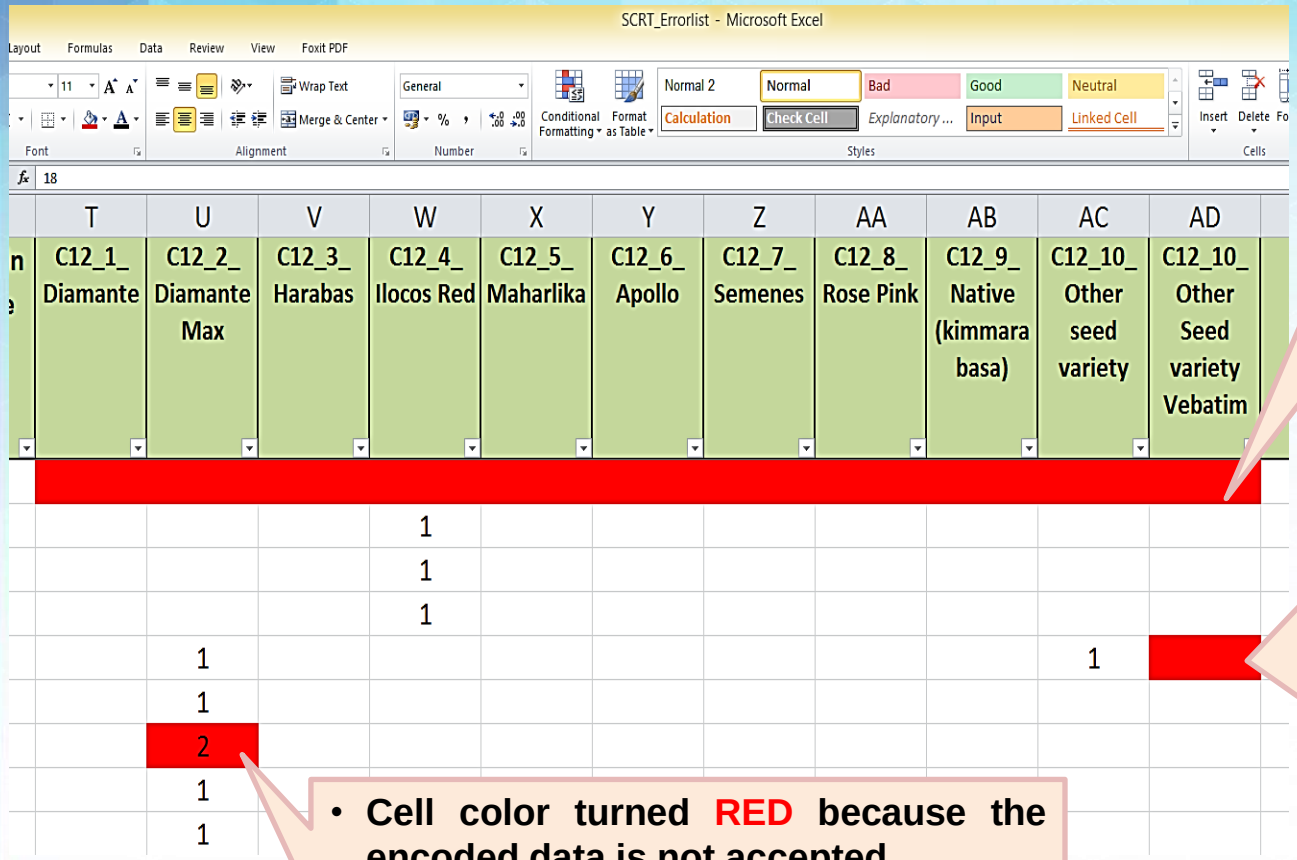
- Cell color turned **RED** because of missing data for type of tomato planted.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

- Cell color turned **RED** because the encoded data is not accepted.
- Encode number one (1) and fill the corrected cell with color **GREEN**.

Consistency and Accuracy Checks

Block C – Variety of Seeds Planted

Illustration 36



T	U	V	W	X	Y	Z	AA	AB	AC	AD
n	C12_1_ Diamante	C12_2_ Diamante Max	C12_3_ Harabas	C12_4_ Ilocos Red	C12_5_ Maharlika	C12_6_ Apollo	C12_7_ Semenes	C12_8_ Rose Pink	C12_9_ Native (kimmara basa)	C12_10_ Other seed variety	C12_10_ Other Seed variety Vebatim
				1							
				1							
				1							
	1								1		
	1										
	2										
	1										
	1										

- Cell color turned **RED** because the encoded data is not accepted.
- Encode number one (1) and fill the corrected cell with color **GREEN**.

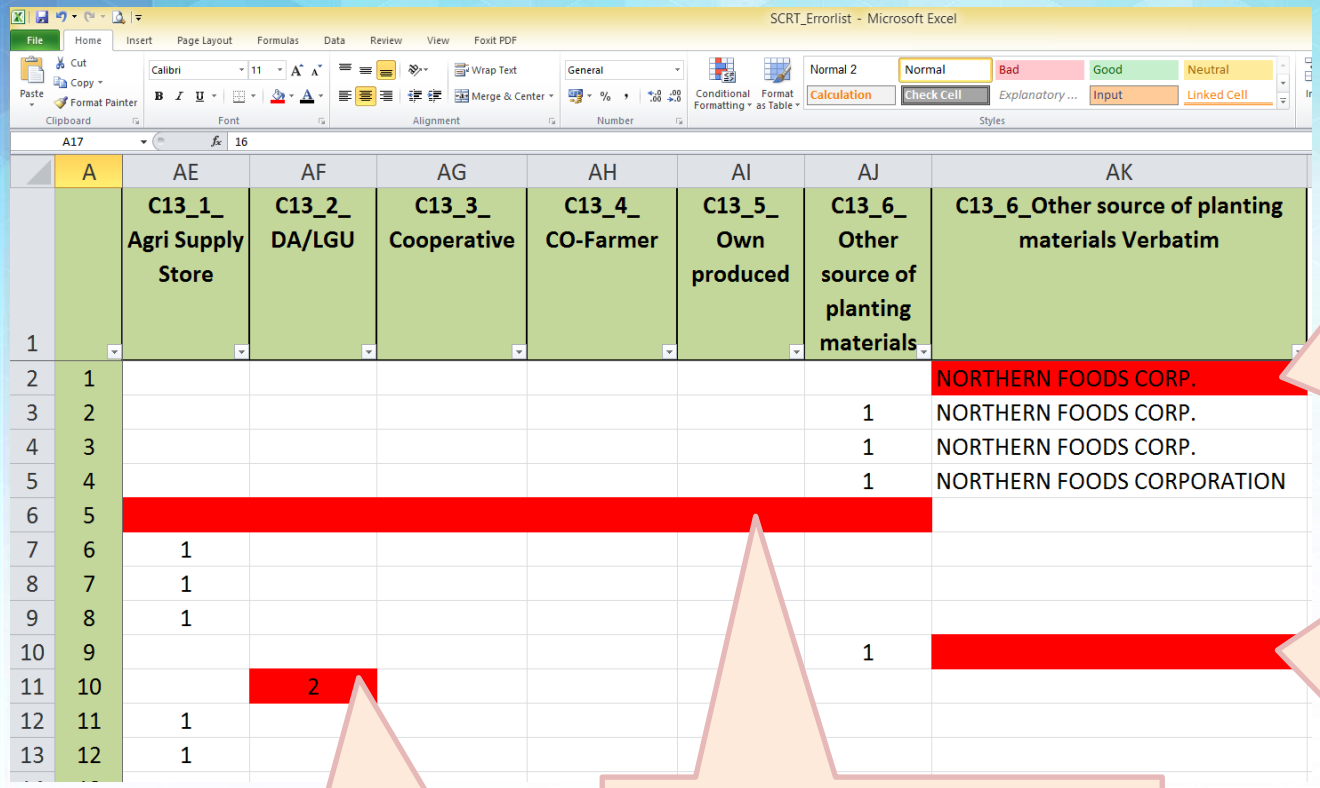
- Cell color turned **RED** because of missing data for variety of seeds planted.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

- Cell color turned **RED** because of missing data for other seed variety. There should be a corresponding verbatim answer if Other seed variety is coded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

Consistency and Accuracy Checks

Block C – Source of Planting Materials

Illustration 37



	A	AE	AF	AG	AH	AI	AJ	AK
1		C13_1_ Agri Supply Store	C13_2_ DA/LGU	C13_3_ Cooperative	C13_4_ CO-Farmer	C13_5_ Own produced	C13_6_ Other source of planting materials	C13_6_Other source of planting materials Verbatim
2	1							NORTHERN FOODS CORP.
3	2						1	NORTHERN FOODS CORP.
4	3						1	NORTHERN FOODS CORP.
5	4						1	NORTHERN FOODS CORPORATION
6	5							
7	6	1						
8	7	1						
9	8	1						
10	9						1	
11	10		2					
12	11	1						
13	12	1						

- Cell color turned **RED** because there is verbatim answer for other source while code 1 is not encoded under C13_6 Other source of planting materials.
- To make it consistent, encode 1 under C13_6 and then fill the corrected cell with color **GREEN**.

- Cell color turned **RED** because there is Code 1 under C13_6 Other source of planting materials while there is no corresponding verbatim answer encoded.
- To make it consistent, verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

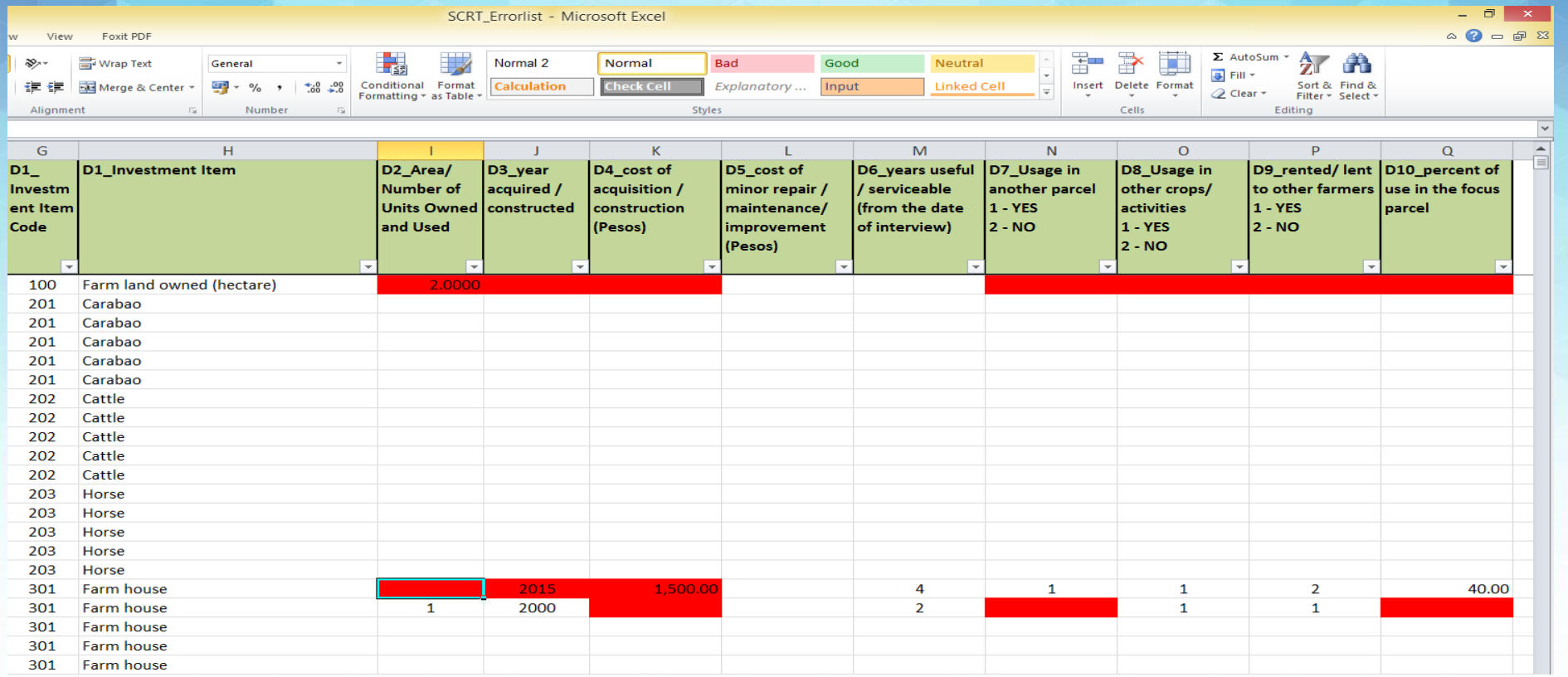
- Cell color turned **RED** because the encoded data is not accepted.
- Encode number one (1) and fill the corrected cell with color **GREEN**.

- Cell color turned **RED** because of missing data for source of seeds planted.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

Consistency and Accuracy Checks

Block D – Investment Items Owned and Used in Focus Parcel

Illustration 38



G	H	I	J	K	L	M	N	O	P	Q
D1_ Investment Item Code	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_years useful / serviceable (from the date of interview)	D7_Usage in another parcel 1 - YES 2 - NO	D8_Usage in other crops/ activities 1 - YES 2 - NO	D9_rented/ lent to other farmers 1 - YES 2 - NO	D10_percent of use in the focus parcel
100	Farm land owned (hectare)	2.0000								
201	Carabao									
201	Carabao									
201	Carabao									
201	Carabao									
201	Carabao									
202	Cattle									
202	Cattle									
202	Cattle									
202	Cattle									
202	Cattle									
203	Horse									
203	Horse									
203	Horse									
203	Horse									
203	Horse									
301	Farm house		2015	1,500.00		4	1	1	2	40.00
301	Farm house	1	2000			2		1	1	
301	Farm house									
301	Farm house									
301	Farm house									

- Cells turned **RED** because of missing data.
- Verify in the questionnaire and encode the missing data. Then, fill the corrected cell/s with color **GREEN**.

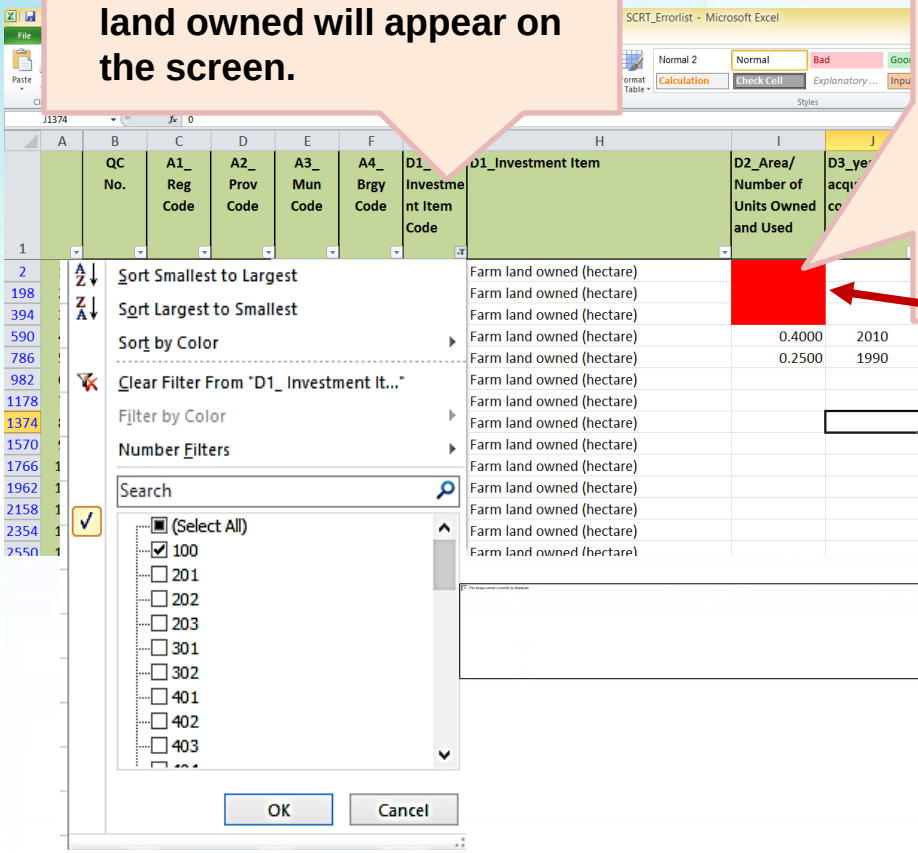
Consistency and Accuracy Checks

Block D – Farm Land Owned

Illustration 39

Step 1

- To check the consistency of data on farm land owned, filter column D1 and select code 100. This way, the array of data on Farmed land owned will appear on the screen.



Step 2

- Check for RED-colored cells. If there are RED-colored cells, go back to Block/worksheet C2, Column C2_Tenure Code and check the tenure code that was encoded.
- Verify data in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

QC No.	C3_Tenure Code
1	1
2	6
3	7

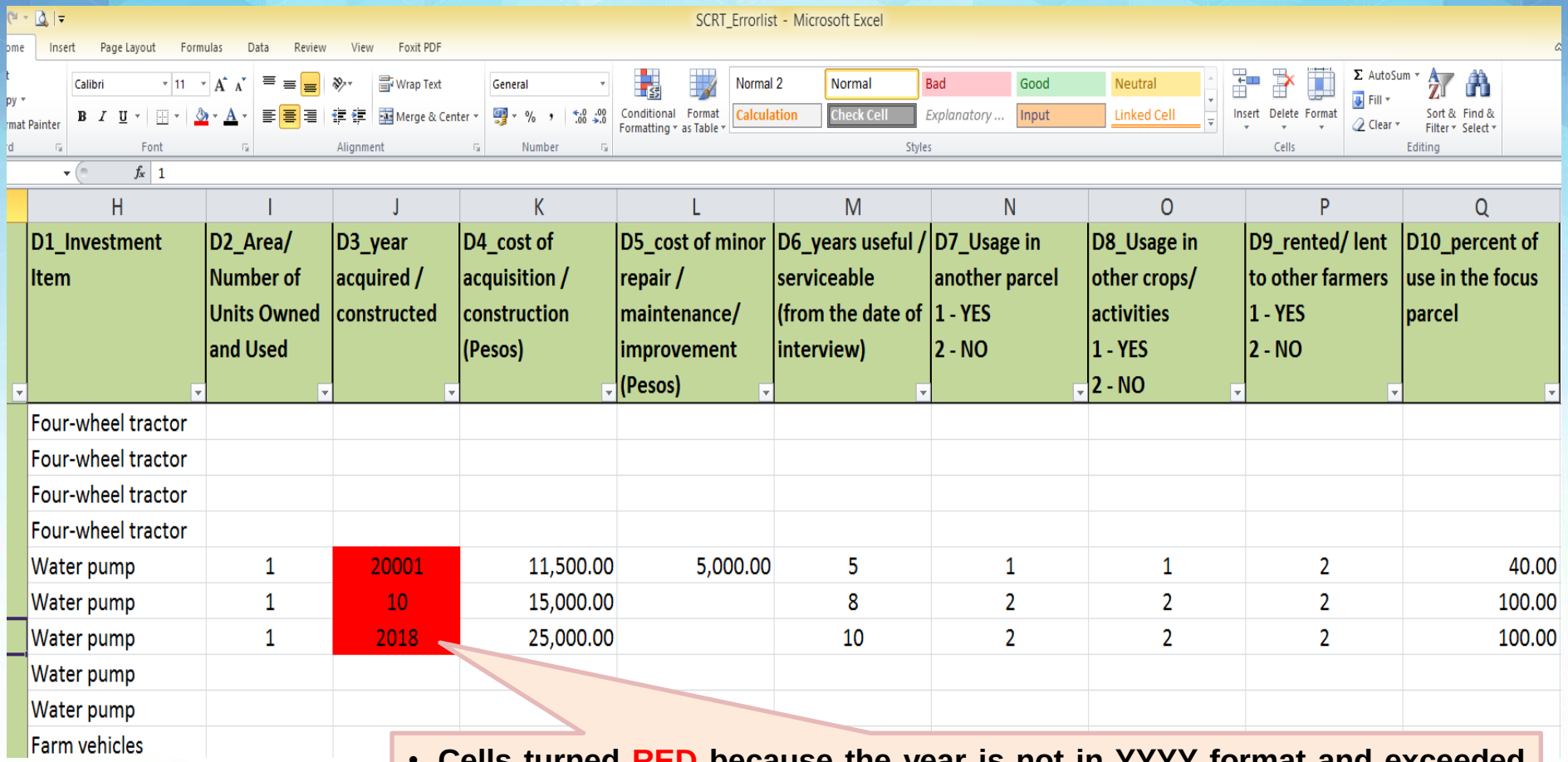
AB C1 C2 D E F G H

In here, the tenurial status codes of the land for QC Nos. 1, 2 & 3 are 1-fully owned; 6-owner-like & 7-held under CLT/CLOA. Thus, it will require data in Block/ Worksheet D.

Consistency and Accuracy Checks

Block D – Year of Acquisition

Illustration 40



	H	I	J	K	L	M	N	O	P	Q
	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_years useful / serviceable (from the date of interview)	D7_Usage in another parcel 1 - YES 2 - NO	D8_Usage in other crops/ activities 1 - YES 2 - NO	D9_rented/ lent to other farmers 1 - YES 2 - NO	D10_percent of use in the focus parcel
	Four-wheel tractor									
	Four-wheel tractor									
	Four-wheel tractor									
	Four-wheel tractor									
	Water pump	1	20001	11,500.00	5,000.00	5	1	1	2	40.00
	Water pump	1	10	15,000.00		8	2	2	2	100.00
	Water pump	1	2018	25,000.00		10	2	2	2	100.00
	Water pump									
	Water pump									
	Farm vehicles									

- **Cells turned RED because the year is not in YYYY format and exceeded "2017".**
- **Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.**

Consistency and Accuracy Checks

Block D – Cost of Acquisition/Construction

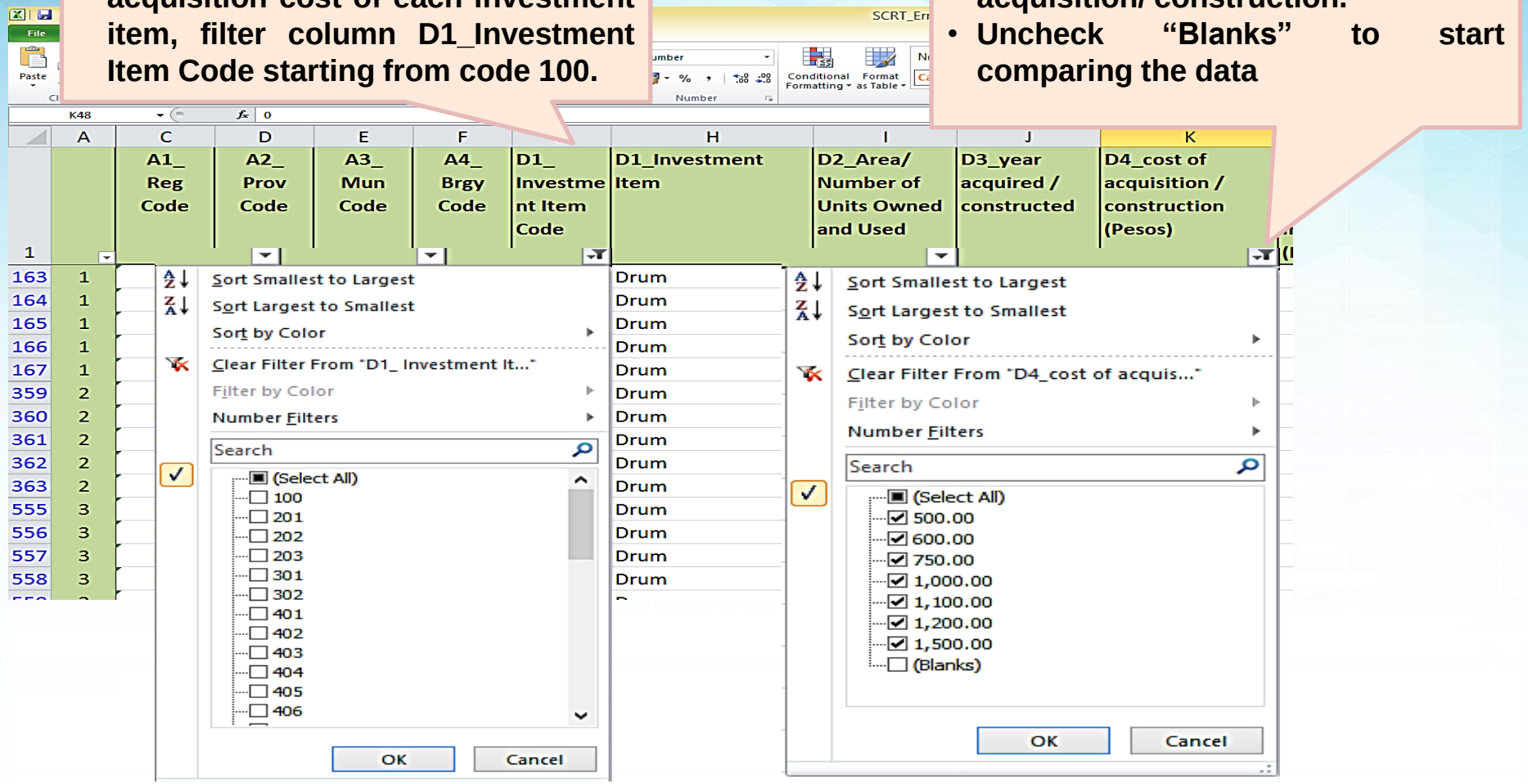
Illustration 41

Step 1

- To check the accuracy of acquisition cost of each investment item, filter column D1_Investment Item Code starting from code 100.

Step 2

- Filter column D4_cost of acquisition/ construction.
- Uncheck "Blanks" to start comparing the data



Consistency and Accuracy Checks

Block D – Cost of Acquisition/Construction

Illustration 41

D1_ Investment Item Code	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_years useful / serviceable (from the date of interview)
521	Drum	1	2010	1,500.00		5
521	Drum	1	2010	1,000.00		5
521	Drum	1	1998	1,000.00		20
521	Drum	1	2016	1,100.00		10
521	Drum	1	2013	500.00		2
521	Drum	2	2016	1,200.00		5
521	Drum	1	2014	600.00		7
521	Drum	4	2016	750.00		15

Step 3

- **Once the said columns (D1 and D4) were filtered, start with the review of the acceptability/accuracy of the cost of acquisition/construction of each investment item.**
- **Verify the values from the questionnaire or the SR if necessary.**
- **For any changes/updates made in the values, do not forget to fill the corrected/updated cell with color GREEN.**

Consistency and Accuracy Checks

Block D – Cost of Repairs/Maintenance/Improvement

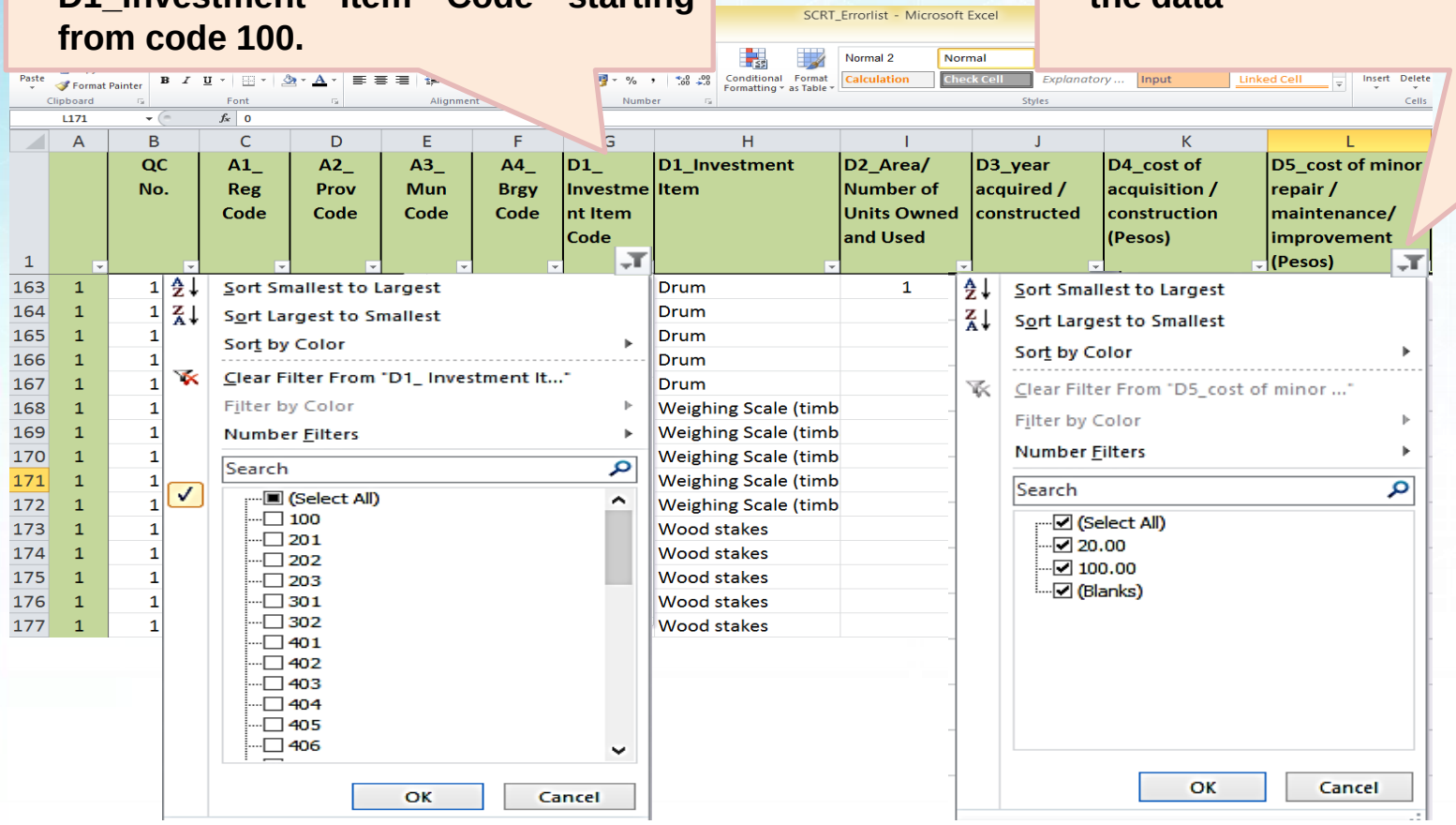
Illustration 42

Step 1

- To check the accuracy of repairs, maintenance and improvement cost of each investment item, filter column D1_Investment Item Code starting from code 100.

Step 2

- Filter column D5_cost of minor repair/ maintenance/improvement.
- Uncheck "Blanks" to start comparing the data



Consistency and Accuracy Checks

Block D – Cost of Repairs/Maintenance/Improvement

Illustration 42

D1_ Investment Item Code	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_years useful / serviceable (from the date of interview)
503	Shovel / Spade (pala	1	2010	340.00	20.00	2
503	Shovel / Spade (pala	1	2012	600.00	100.00	2
503	Shovel / Spade (pala	1	2015	600.00	100.00	2

Step 3

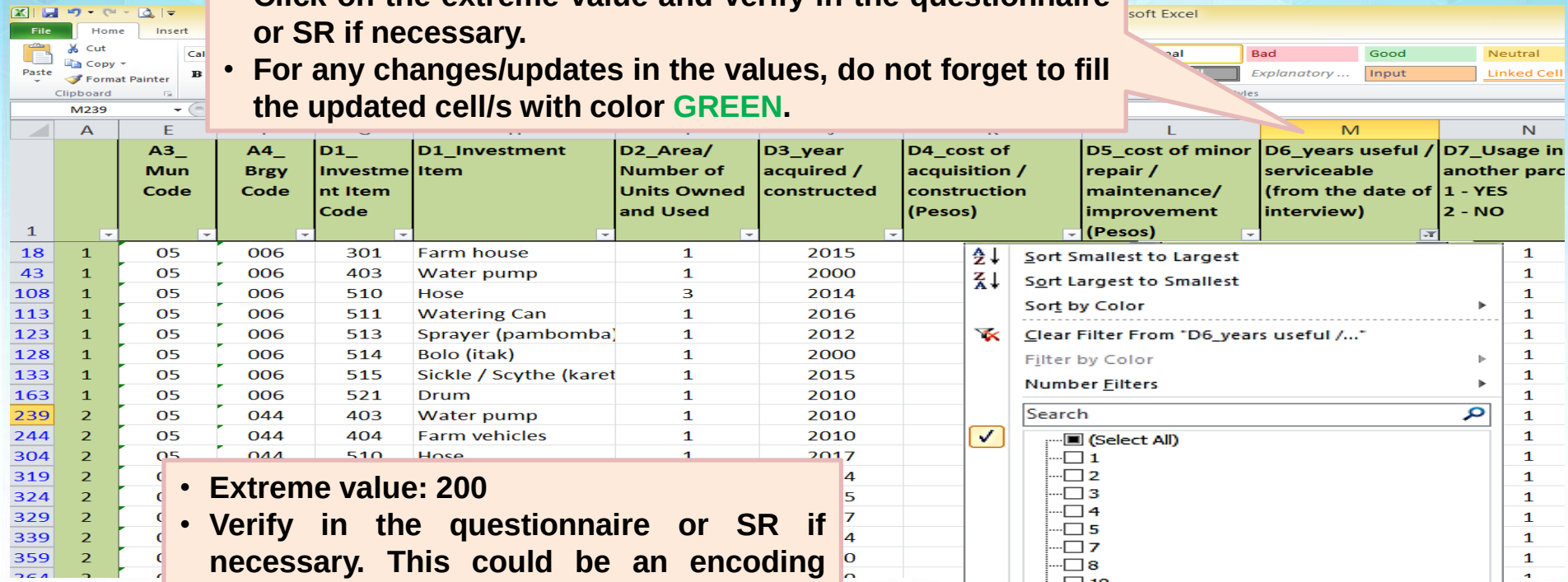
- **Once the said columns (D1 and D5) were filtered, start with the review of the acceptability/accuracy of the cost of minor repair/maintenance/improvement of each investment item.**
- **Verify the values from the questionnaire or the SR if necessary.**
- **For any changes/updates made in the values, do not forget to fill the corrected/updated cell with color GREEN.**

Consistency and Accuracy Checks

Block D – Useful / Serviceable Years

Illustration 43.1

- To check the accuracy of useful/ serviceable years, filter column D6.
- Click on the extreme value and verify in the questionnaire or SR if necessary.
- For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.



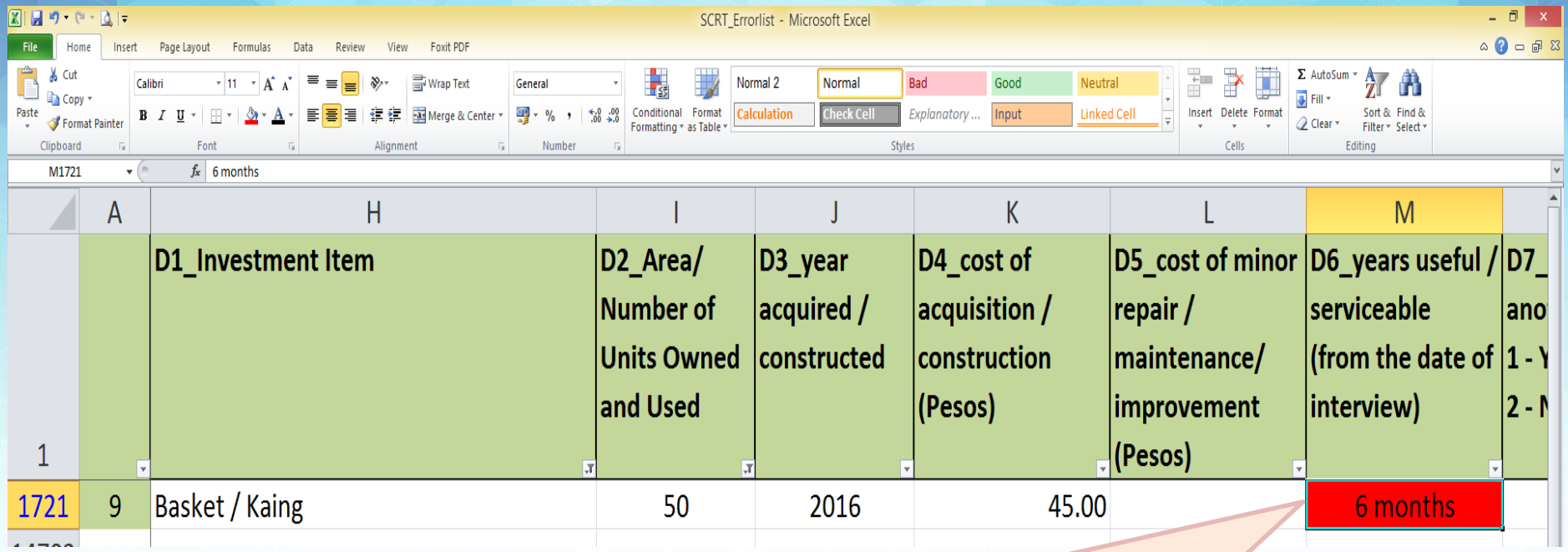
	A	E								L	M	N
1		A3_ Mun Code	A4_ Brgy Code	D1_ Investment Item Code	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_years useful / serviceable (from the date of interview)	D7_Usage in another parc 1 - YES 2 - NO	
18	1	05	006	301	Farm house	1	2015				1	
43	1	05	006	403	Water pump	1	2000				1	
108	1	05	006	510	Hose	3	2014				1	
113	1	05	006	511	Watering Can	1	2016				1	
123	1	05	006	513	Sprayer (pambomba)	1	2012				1	
128	1	05	006	514	Bolo (itak)	1	2000				1	
133	1	05	006	515	Sickle / Scythe (karet	1	2015				1	
163	1	05	006	521	Drum	1	2010				1	
239	2	05	044	403	Water pump	1	2010				1	
244	2	05	044	404	Farm vehicles	1	2010				1	
304	2	05	044	510	Hose	1	2017				1	
319	2						4				1	
324	2						5				1	
329	2						7				1	
339	2						4				1	
359	2						0				1	

- Extreme value: 200
- Verify in the questionnaire or SR if necessary. This could be an encoding error.
- For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block D – Useful / Serviceable Years

Illustration 43.2



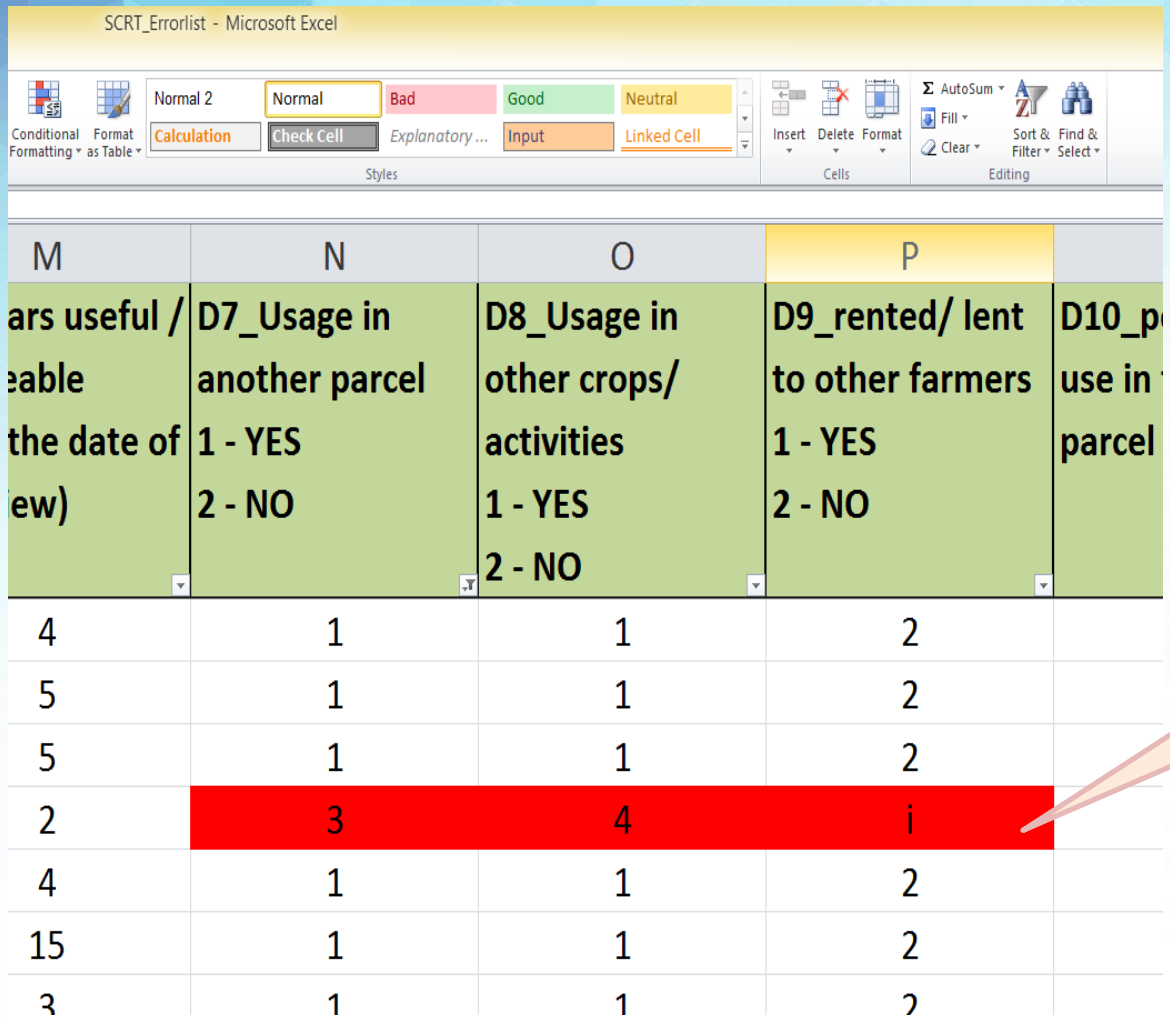
	A	H	I	J	K	L	M
1		D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_years useful / serviceable (from the date of interview)
1721	9	Basket / Kaing	50	2016	45.00		6 months

- **Cell turned RED because the encoded data is not acceptable (text format / not whole number).**
- **Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color GREEN.**
- **In this illustration, the number of units and cost of acquisition should be transferred to Block/Worksheet G – Other production costs.**

Consistency and Accuracy Checks

Block D – Support Info for Percent of Use

Illustration 44



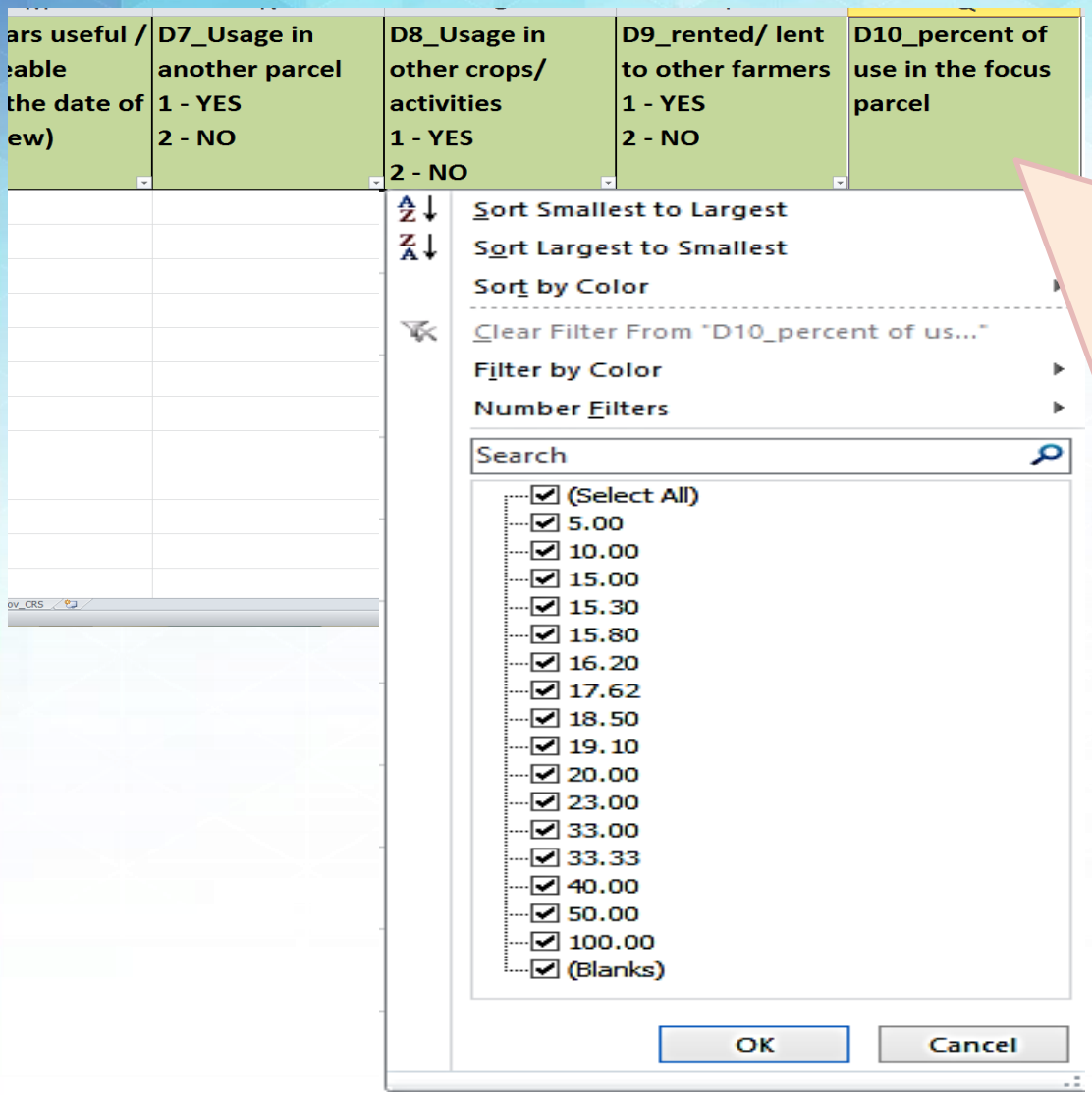
M	N	O	P	
ars useful / eable the date of iew)	D7_Usage in another parcel 1 - YES 2 - NO	D8_Usage in other crops/ activities 1 - YES 2 - NO	D9_rented/ lent to other farmers 1 - YES 2 - NO	D10_p use in parcel
4	1	1	2	
5	1	1	2	
5	1	1	2	
2	3	4	i	
4	1	1	2	
15	1	1	2	
3	1	1	2	

- The color of the cells turned **RED** because the encoded data are not acceptable.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

Consistency and Accuracy Checks

Block D – Percent of Use

Illustration 45

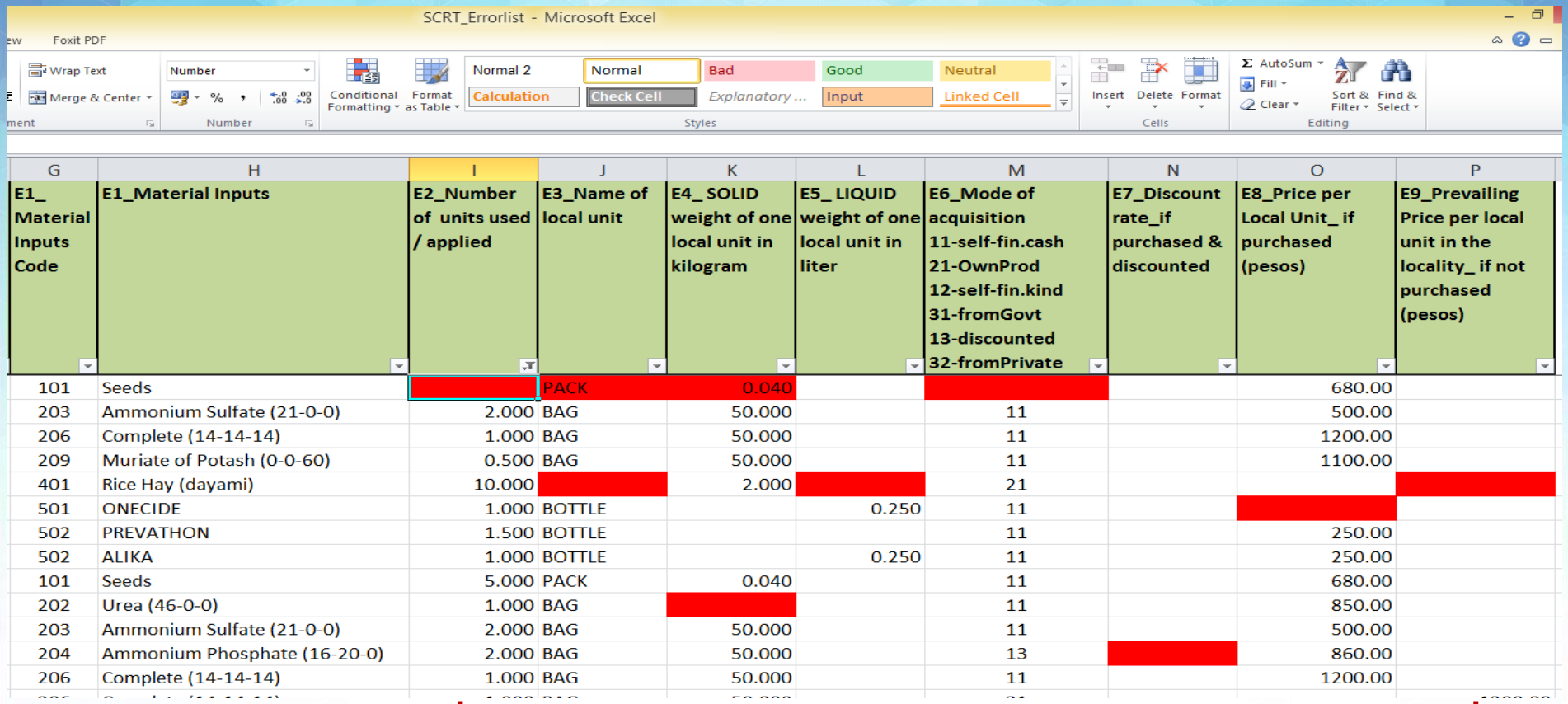


- To check the accuracy of percent of use, filter column D10.
- Click on the extreme value/s. Verify using the data on columns D7 to D9 and Block/Worksheet C1 (physical areas of the farm parcels operated by the farmer/operator). Additionally, verify in the questionnaire or SR if necessary.
- For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block E – Material Inputs Usage

Illustration 46



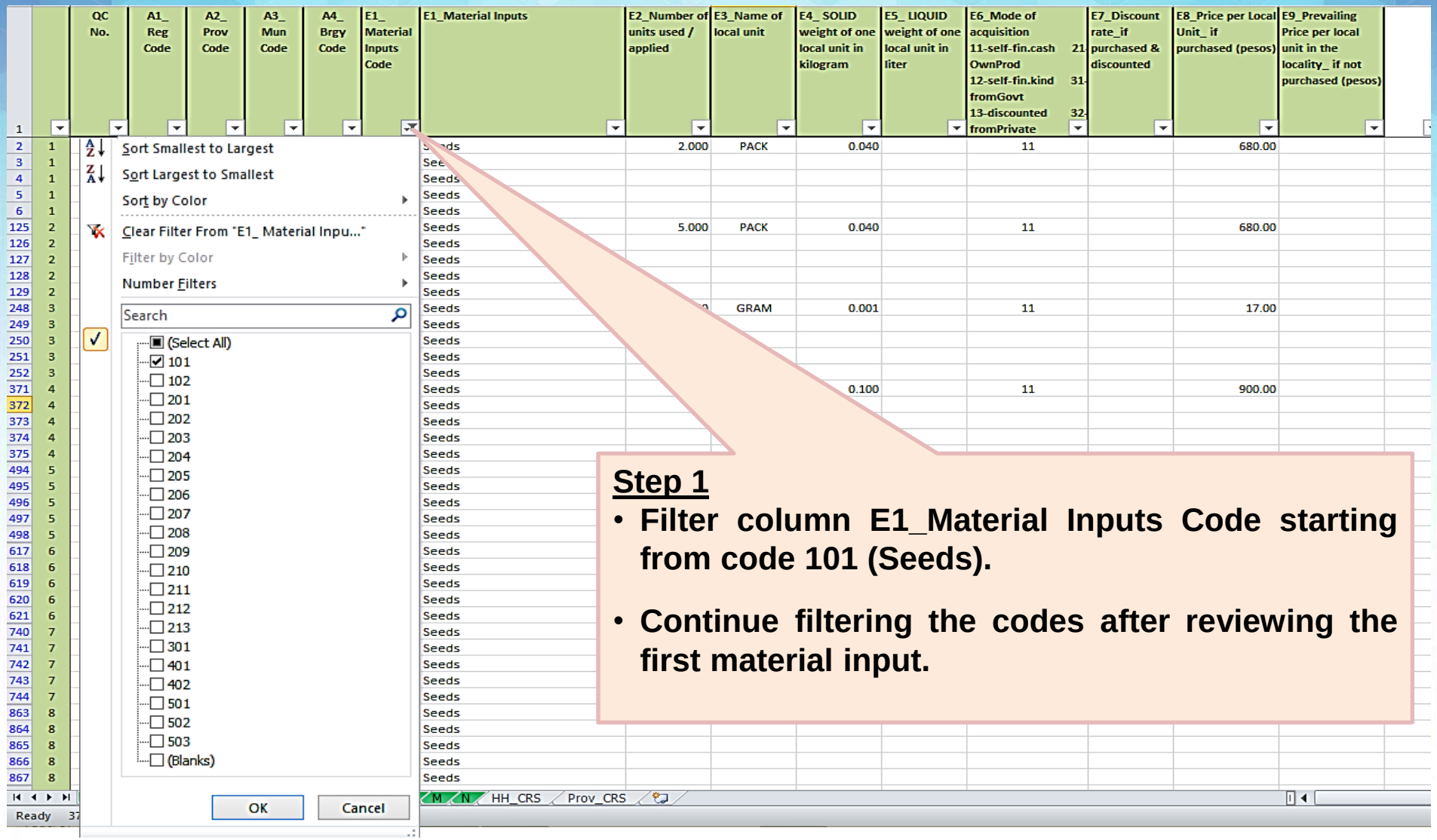
G	H	I	J	K	L	M	N	O	P
E1_ Material Inputs Code	E1_Material Inputs	E2_Number of units used / applied	E3_Name of local unit	E4_ SOLID weight of one local unit in kilogram	E5_ LIQUID weight of one local unit in liter	E6_Mode of acquisition 11-self-fin.cash 21-OwnProd 12-self-fin.kind 31-fromGovt 13-discounted 32-fromPrivate	E7_Discount rate_if purchased & discounted	E8_Price per Local Unit_ if purchased (pesos)	E9_Prevailing Price per local unit in the locality_ if not purchased (pesos)
101	Seeds		PACK	0.040				680.00	
203	Ammonium Sulfate (21-0-0)	2.000	BAG	50.000		11		500.00	
206	Complete (14-14-14)	1.000	BAG	50.000		11		1200.00	
209	Muriate of Potash (0-0-60)	0.500	BAG	50.000		11		1100.00	
401	Rice Hay (dayami)	10.000		2.000		21			
501	ONECIDE	1.000	BOTTLE		0.250	11			
502	PREVATHON	1.500	BOTTLE			11		250.00	
502	ALIKA	1.000	BOTTLE		0.250	11		250.00	
101	Seeds	5.000	PACK	0.040		11		680.00	
202	Urea (46-0-0)	1.000	BAG			11		850.00	
203	Ammonium Sulfate (21-0-0)	2.000	BAG	50.000		11		500.00	
204	Ammonium Phosphate (16-20-0)	2.000	BAG	50.000		13		860.00	
206	Complete (14-14-14)	1.000	BAG	50.000		11		1200.00	

- Cells turned **RED** because of missing data.
- Verify in the questionnaire and encode the missing data. Then, fill the corrected cell/s with color **GREEN**.

Consistency and Accuracy Checks

Block E – Quantity of Inputs Used

Illustration 47



Step 1

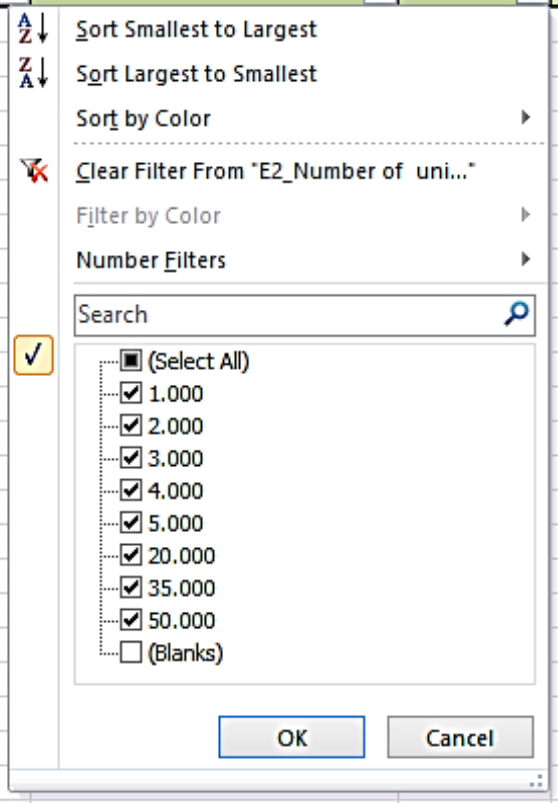
- **Filter column E1_Material Inputs Code starting from code 101 (Seeds).**
- **Continue filtering the codes after reviewing the first material input.**

Consistency and Accuracy Checks

Block E – Quantity of Inputs Used

Illustration 47

E1_ Material Inputs Code	E1_Material Inputs	E2_Number of units used / applied	E3_Name of local unit	E4_ SOLID weight of one local unit in kilogram	E5_ LIQUID weight of one local unit in liter	E6_Mode of acquisition 11-self-fin.cash 21-OwnProd 12-self-fin.kind 31-fromGovt 13-discounted 32-fromPrivate	E7_Discount rate_if purchased & discounted	E8_Price per Local Unit_ if purchased (pesos)	E9_Prevailing Price per local unit in the locality_ if not purchased (pesos)
101			PACK	0.040		11		680.00	
101			PA	0.040		11		680.00	
101			GRAM	0.001		11		17.00	
101			PACK	0.100		11		900.00	
101			CAN	.002		11		105.00	
101			CANS						
101			CANS						
101			CANS	0.0					
101			CAN	0.025					
101			CAN	0.025					
101			CAN	0.002					
101			CAN	0.025					



Step 2

- **Filter column E2_Numer of units used/applied.**
- **Unclick (Blanks) so that only those with encoded data shall appear on the screen and it will be easier to facilitate the review and validation.**

Consistency and Accuracy Checks

Block E – Quantity of Inputs Used

Illustration 47

		E1_Material Inputs	E2_Number of units used / applied	E3_Name of local unit	E4_ SOLID weight of one local unit in kilogram	E5_ LIQUID weight of one local unit in liter	E6_Mode of acquisition 11-self-fin.cash 21-OwnProd 12-self-fin.kind 31-fromGovt 13-discounted 32-fromPrivate	E7_Discount rate_if purchased & discounted	E8_Price per Local Unit_ if purchased (pesos)	E9_Prevailing Price per local unit in the locality_ if not purchased (pesos)	VALIDATION 1_TotalQty_KG	VALIDATION 2_TotalQty_KG_ PER_HECTARE	VALIDATION 3_TotalValue_KG	VALIDATION 4_TotalValue_KG_ PER_HECTARE	VALIDATION 5_ TotalVol_Liter	VALIDATION 6_TotalVol_Lter_ PER_HECTARE	VALIDATION 7 TotalValue_Liter	VALIDATION 8 TotalValue_Liter_ PER_HECTARE
2	1	Seeds	2.000	PACK	0.040		11		680.0		0.080	0.4	1,360.00	6800				
125	2	Seeds	5.000	PACK	0.040		11				0.200	0.4	3,400.00	6800				
248	3	Seeds	50.000	GRAM	0.001		11		.00		0.050	0.25	850.00	4250				
371	4	Seeds	1.000	PACK	0.100		11		900.00		0.100	0.25	900.00	2250				
494	5	Seeds	1.000	CAN	0.002				105.00		0.002	0.008	105.00	420				
617	6	Seeds	3.000	CANS	0.002				115.00		0.006	0.024	345.00	1380				
74									115.00		0.008	0.04	460.00	2300				
86									108.00		0.040	0.4	2,160.00	21600				
98									200.00		0.025	0.1	2,200.00	8800				
110									200.00		0.025	0.1	2,200.00	8800				
123									130.00		0.070	0.14	4,550.00	9100				
135									300.00		0.025	0.05	2,300.00	4600				

Step 3

- **Filter each column for validation simultaneously and review the acceptability of the data.**
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN. Updating should be applied in Columns E2_ to E9_.**

Note: The columns for validation are built-in computations of the total quantity in Kg, total value in Kg, Total Value in Kg per Hectare, Total Volume in Liter, Total Value in Liter and Total Value in Liter per Hectare. This will facilitate the review and validation of the data on input usage using standardized values.

These columns are locked and cannot be changed during the review and validation of data.

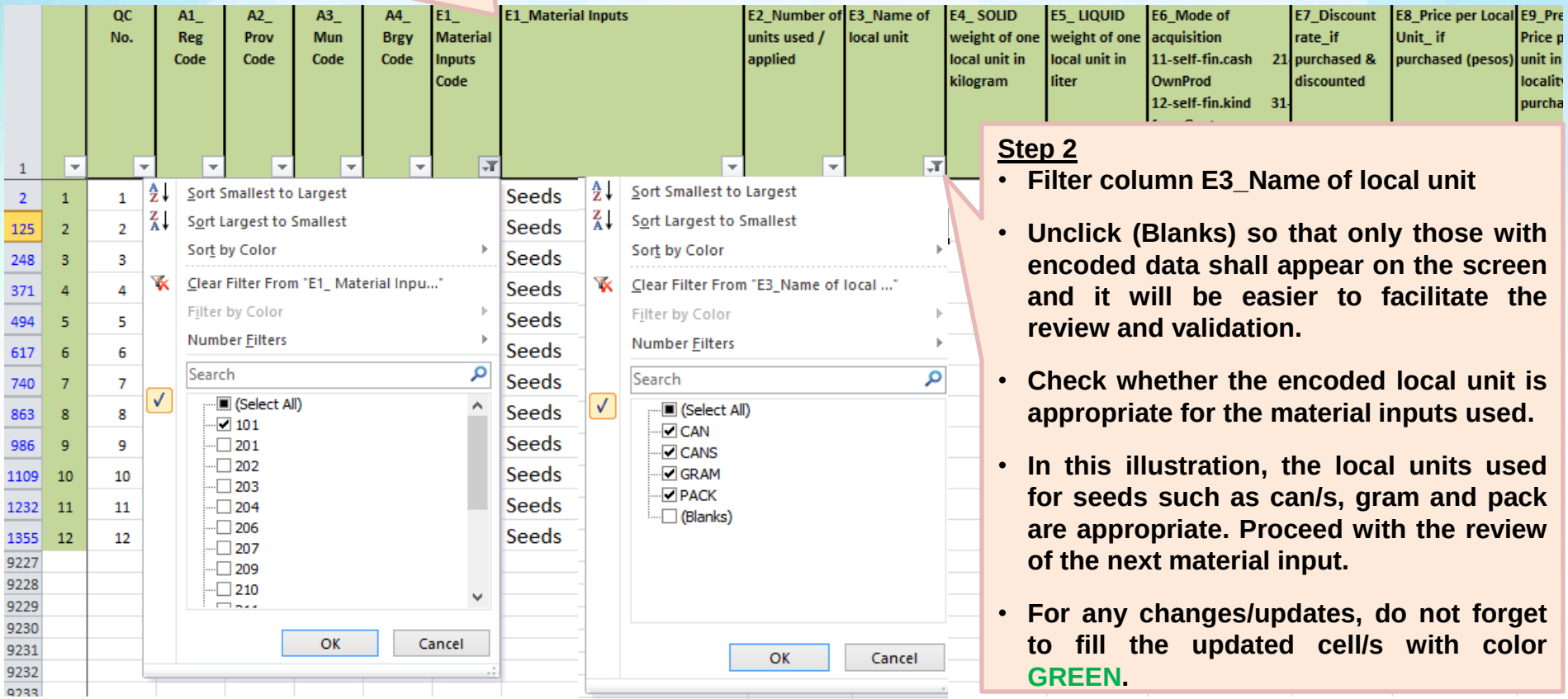
Consistency and Accuracy Checks

Block E – Form of LU vs. Name of LU

Illustration 48

Step 1

- **Filter column E1_Material Inputs Code starting from code 101 (Seeds).**
- **Continue filtering the codes after reviewing the first material input.**



Step 2

- **Filter column E3_Name of local unit**
- **Unclick (Blanks) so that only those with encoded data shall appear on the screen and it will be easier to facilitate the review and validation.**
- **Check whether the encoded local unit is appropriate for the material inputs used.**
- **In this illustration, the local units used for seeds such as can/s, gram and pack are appropriate. Proceed with the review of the next material input.**
- **For any changes/updates, do not forget to fill the updated cell/s with color GREEN.**

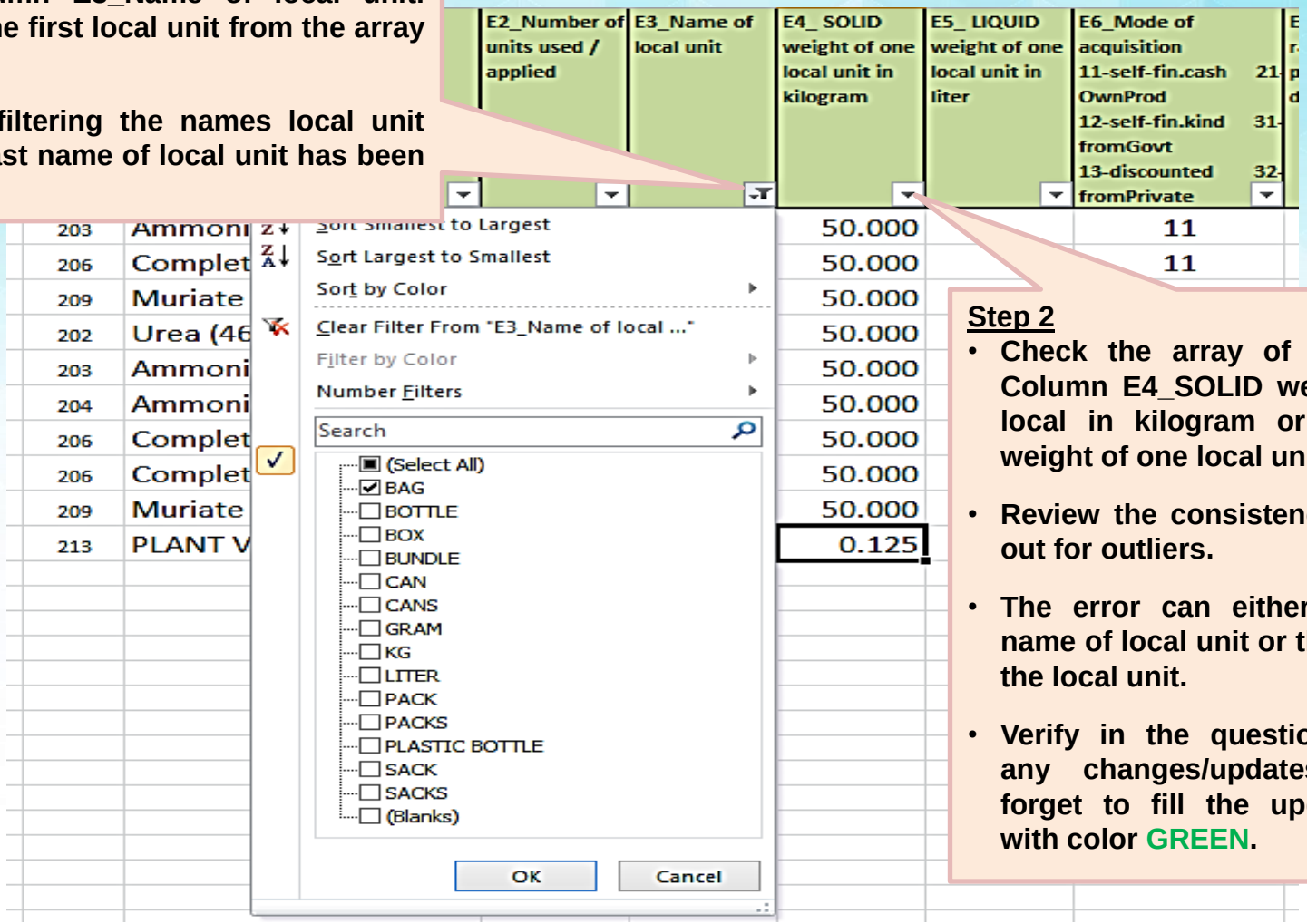
Consistency and Accuracy Checks

Block E – Name of LU and Weight of LU

Illustration 49

Step 1

- **Filter column E3_Name of local unit. Click on the first local unit from the array of data.**
- **Continue filtering the names local unit until the last name of local unit has been reviewed.**



Step 2

- **Check the array of data within Column E4_SOLID weight of one local in kilogram or E5_LIQUID weight of one local unit in Liter.**
- **Review the consistency and look out for outliers.**
- **The error can either be in the name of local unit or the weight of the local unit.**
- **Verify in the questionnaire. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.**

Consistency and Accuracy Checks

Block E – Mode of Acquisition

Illustration 50

E1_Material Inputs	E2_Number of units used / applied	E3_Name of local unit	E4_SOLID weight of one local unit in kilogram	E5_LIQUID weight of one local unit in liter	E6_Mode of acquisition 11-self-fin.cash 12-self-fin.kind 13-discounted 21-OwnProd 31-fromGovt 32-fromPrivate	E7_Discount rate_if purchased & discounted	E8_Price per Local Unit_if purchased (pesos)	E9_Prevailing Price per local unit in the locality_if not purchased (pesos)
Seeds	2.000	PACK	0.040		10		680.00	
Ammonium Sulfate (21-0	2.000	BAG	50.000		11		500.00	
Complete (14-14-14)	1.000	BAG	50.000		11		1200.00	
Muriate of Potash (0-0-6(	0.500	BAG	50.000		11		1100.00	
Rice Hay (dayami)	10.000	BUNDLE	2.000		21			7.00
ONECIDE	1.000	BOTTLE		0.250	11		250.00	

- **Cell color turned RED because the encoded data is not acceptable.**
- **Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color GREEN.**

Consistency and Accuracy Checks

Block E – Discount Rate

Illustration 51

E1_Material Inputs	E2_Number of units used / applied	E3_Name of local unit	E4_SOLID weight of one local unit in kilogram	E5_LIQUID weight of one local unit in liter	E6_Mode of acquisition 11-self-fin.cash 12-self-fin.kind 13-discounted 21-OwnProd 31-fromGovt 32-fromPrivate	E7_Discount rate_if purchased & discounted	E8_Price per Local Unit_if purchased (pesos)	E9_Prevailing Price per local unit in the locality_if not purchased (pesos)
Seeds	5.000	PACK	0.040		11		680.00	
Urea (46-0-0)	1.000	BAG	50.000		11		850.00	
Ammonium Sulfate (21-(	2.000	BAG	50.000		11		500.00	
Ammonium Phosphate (	2.000	BAG	50.000		11		860.00	
Complete (14-14-14)	1.000	BAG	50.000		13	0.5	1200.00	
Complete (14-14-14)	1.000	BAG	50.000		31			1200.00
Muriate of Potash (0-0-6	1.000	BAG	50.000		11		1800.00	
Rice Hay (dayami)	20.000	BUNDLE	2.000		21			7.00

- **Cell color turned RED because discount rate is not in whole number.**
- **Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color GREEN.**

Consistency and Accuracy Checks

Block E – Price per LU

7. Check the acceptability of the data on prices of inputs used in the focus parcel. To validate the data, use the Columns for validation of the total value in Kilogram per Hectare (Validation 3 & 4) and total value in Liter per Hectare (Validation 7 & 8) located after Column *E9_Prevailing Price per local unit in the locality_if not purchased*. Look out for extreme values.

Check the value of material input per unit – it is the total value of material input divide by total quantity. A good example is the price per unit of seeds or seedlings. A hybrid seed costs higher than that of traditional one.

Note: To review the data on prices of inputs, follow the same steps as in Illustration 46, pages 56 to 57 of this manual.

E9_Prevailing Price per local unit in the locality_if not purchased (pesos)		VALIDATION 1_TotalQty_KG	VALIDATION 2_TotalQty_KG_ PER_HECTARE	VALIDATION 3_TotalValue_KG	VALIDATION 4_TotalValue_KG_ PER_HECTARE	VALIDATION 5_TotalVol_Liter	VALIDATION 6_TotalVol_Liter_ PER_HECTARE	VALIDATION 7 TotalValue_Liter	VALIDATION 8 TotalValue_Liter_ PER_HECTARE
				1360.00	6800.00				
		100.000	500.00	1000.00	5000.00				
		50.000	250.00	1200.00	6000.00				
		25.000	125.00	550.00	2750.00				
7.00		20.000	100.00	70.00	350.00				
		0.200	0.40	3400.00	6800.00				
		50.000	100.00	850.00	1700.00				
		100.000	200.00	1000.00	2000.00				
		100.000	200.00	1720.00	3440.00				
		50.000	100.00	1200.00	2400.00				
1200.00		50.000	100.00	1200.00	2400.00				
		50.000	100.00	1800.00	3600.00				

Consistency and Accuracy Checks

Block F – Labor Inputs

Illustration 52

F1_Farm Activity	F2_Optr_ Days	F3_Optr_ Hours	F4_Fam_ Persons	F5_Fam_ Days	F6_Fam_ Hours	F7_Exc_ Persons	F8_Exc_ Days	F9_Exc_ Hours	F10_Prevailing Wage Rate per day	F11_F16_Hired_ Persons	F12_F17_Hired_ Days	F13_F18_Hired_ Hours	F14_F19_ Payment in Cash	F15_F20_ Payment in Kind
Plowing of seedbed (man-animal)														
Plowing of seedbed (man-machine, 2-wheel)														
Seedbed preparation		1.0							200.00					
Sowing of seeds	1	1.0							200.00					
Fertilizer application (basal)										3				
Chemical application														
Mulching	1								200.00					
Plowing (man-animal)														
Plowing (man-machine, 2-wheel)														
Plowing (man-machine, 4-wheel)			2											
Rotavating (man-machine, 2-wheel)														
Rotavating (man-machine, 4-wheel)										1	1	1.0		
Harrowing (man-animal)						5								
Harrowing (man-machine, 2-wheel)														
Harrowing (man-machine, 4-wheel)														
Furrowing (man-animal)										1	1	4.0	200.00	
Furrowing (man-machine, 2-wheel)														
Furrowing (man-machine, 4-wheel)														
Liming / Application of soil ameliorants														
Fertilizer Application (basal)														
Hauling of planting materials														
Planting / Transplanting														
Replanting	1	1.0												
Trellising / Staking / Tying														

- Cells turned **RED** because of missing data.
- Verify in the questionnaire and encode the missing data. Then, fill the corrected cell/s with color **GREEN**.

Block F consistency with other Blocks

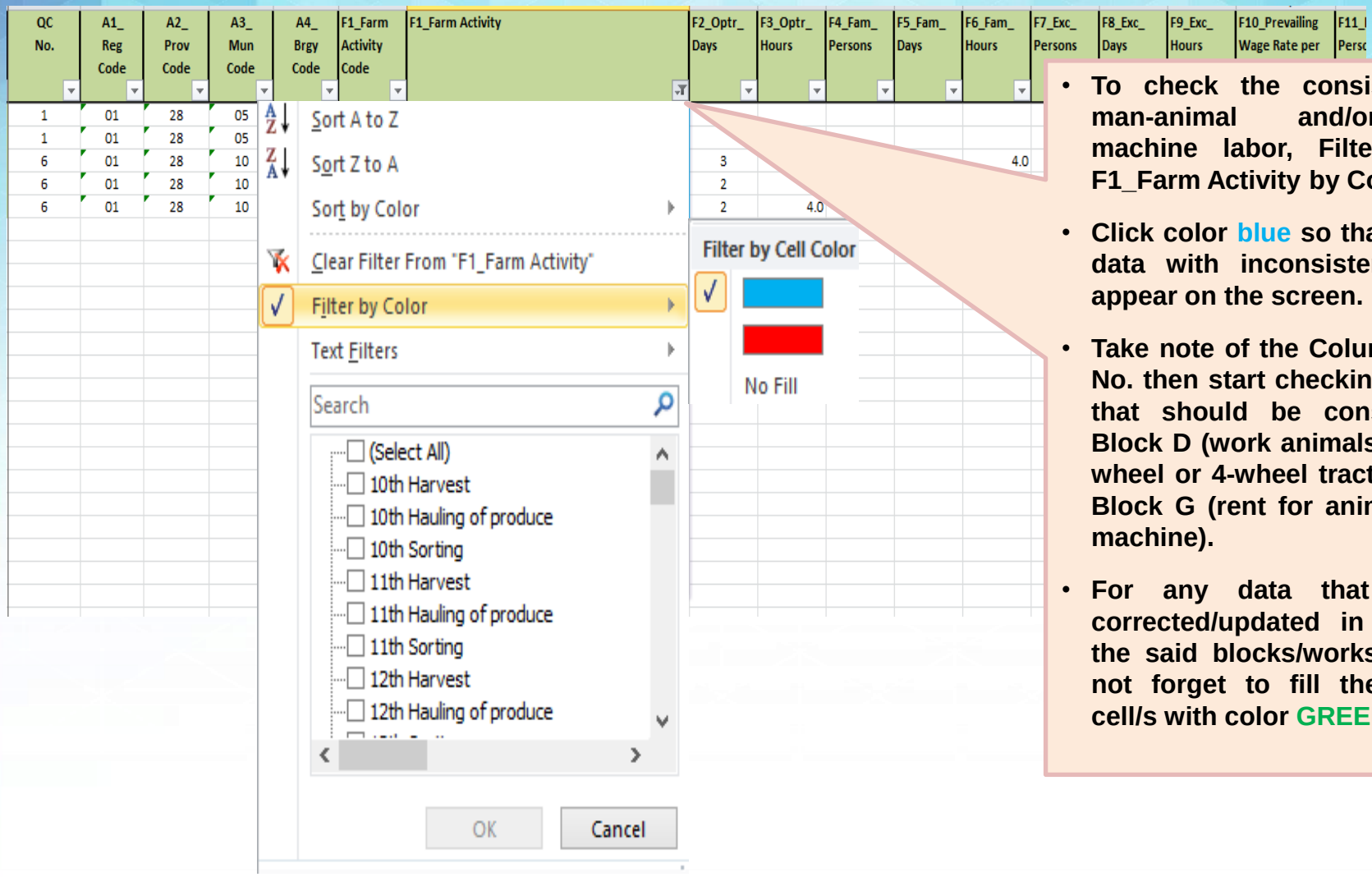
1. **Plowing (man-animal) - If this item has entry in Block F, then either the farm operator has work animal in *Block D (owned and used work animals)* or the farm operator has *rent (cash/imputed/non-cash) for work animal in Block G* or the operator hired man and animal to do the task. The same will be applied to other activities done using man-animal labor for consistency check.**

2. **Plowing (man-machine) - If this item has entry in Block F, then either the farm operator has two-wheel or four-wheel tractor in *Block D (owned and used two-wheel tractor or four-wheel tractor)* or the farm operator has *rent (cash/imputed/non-cash) for the machine in Block G* or the operator hired man and machine to do the task. The same will be applied to other activities done using man-machine labor for consistency check.**

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 53.1

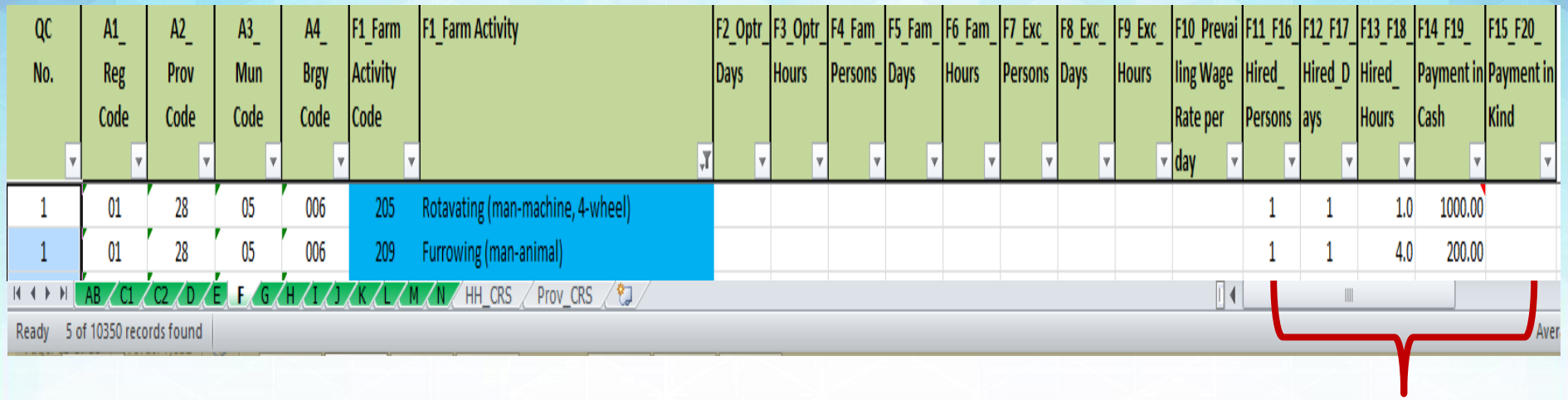


- To check the consistency of man-animal and/or man-machine labor, Filter column F1_Farm Activity by Color.
- Click color blue so that only the data with inconsistencies will appear on the screen.
- Take note of the Column for QC No. then start checking the data that should be consistent in Block D (work animals and/or 2-wheel or 4-wheel tractor) and in Block G (rent for animal and/or machine).
- For any data that will be corrected/updated in either of the said blocks/worksheets, do not forget to fill the updated cell/s with color GREEN.

Block F consistency with other Blocks

Illustration 53.2

Sample inconsistencies in the data of Block F (farm activities), Block D (owned and used farm animals and tractors) and Block G (rent for animal/machine)



QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	F2_Optr_ Days	F3_Optr_ Hours	F4_Fam_ Persons	F5_Fam_ Days	F6_Fam_ Hours	F7_Exc_ Persons	F8_Exc_ Days	F9_Exc_ Hours	F10_Prevailing Wage Rate per day	F11_F16_ Hired_ Persons	F12_F17_ Hired_Days	F13_F18_ Hired_ Hours	F14_F19_ Payment in Cash	F15_F20_ Payment in Kind
1	01	28	05	006	205	Rotavating (man-machine, 4-wheel)										1	1	1.0	1000.00	
1	01	28	05	006	209	Furrowing (man-animal)										1	1	4.0	200.00	

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready 5 of 10350 records found

- **In this illustration, farm activities for QC No. 1 turned BLUE, since there are data under Hired Labor but likely no corresponding data in either Block D or Block G.**
- **If there are no corresponding data in Block D and Block G, validate whether the total payment in cash or in kind for these activities already include the payment for the animal and/or machine.**
- **Verify also in the questionnaire, encode the correct data across blocks to make it consistent. Do not forget to fill the updated/corrected cell with color GREEN.**

Block F consistency with other Blocks

Illustration 53.2

Sample inconsistencies in the data of Block F (farm activities), Block D (owned and used farm animals and tractors) and Block G (rent for animal/machine)

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	D1_ Investment Item Code	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_years useful / serviceable (from the date of interview)	D7_Usage in another parcel 1 - YES 2 - NO	D8_Usage in other crops/ activities 1 - YES 2 - NO	D9_rented/ lent to other farmers 1 - YES 2 - NO	D10_percent of use in the focus parcel
1	01	28	05	006	201	Carabao									
1	01	28	05	006	201	Carabao									
1	01	28	05	006	201	Carabao									
1	01	28	05	006	201	Carabao									
1	01	28	05	006	201	Carabao									
1	01	28	05	006	202	Cattle									
1	01	28	05	006	202	Cattle									
1	01	28	05	006	202	Cattle									
1	01	28	05	006	202	Cattle									
1	01	28	05	006	202	Cattle									
1	01	28	05	006	203	Horse									
1	01	28	05	006	203	Horse									
1	01	28	05	006	203	Horse									
1	01	28	05	006	203	Horse									
1	01	28	05	006	203	Horse									
1	01	28	05	006	401	Two-wheel tractor (Hand Tractor)									
1	01	28	05	006	401	Two-wheel tractor (Hand Tractor)									
1	01	28	05	006	401	Two-wheel tractor (Hand Tractor)									
1	01	28	05	006	401	Two-wheel tractor (Hand Tractor)									
1	01	28	05	006	401	Two-wheel tractor (Hand Tractor)									
1	01	28	05	006	402	Four-wheel tractor									
1	01	28	05	006	402	Four-wheel tractor									
1	01	28	05	006	402	Four-wheel tractor									
1	01	28	05	006	402	Four-wheel tractor									
1	01	28	05	006	402	Four-wheel tractor									

For QC No. 1, there is no data for work animal or two-wheel and four-wheel tractor in Block D. Thus, it is inconsistent with the farm activities in Block F.

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 53.2

Sample inconsistencies in the data of Block F (farm activities), Block D (owned and used farm animals and tractors) and Block G (rent for animal/machine)

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
1	01	28	05	006	1	Land Tax - owned farm (annual)									
1	01	28	05	006	2	Caretaker/overseer's share/wages (per									
1	01	28	05	006	3	Other permanent employee's salary (monthly)									
1	01	28	05	006	401	Land (annual) if lease agreement, indicate									
1	01	28	05	006	402	Machine (per cropping)									
1	01	28	05	006	403	Animals (per cropping)									
1	01	28	05	006	404	Tools and equipment (per cropping)									
1	01	28	05	006	5	Rental value of owned land (annual)									
1	01	28	05	006	6	Rental value of owned animal/s (per cropping)									
1	01	28	05	006	7	Fuel (quantity:liter/s, per cropping)	40	1600							
1	01	28	05	006	8	Oil (quantity:liter/s, per cropping)	1	160							
1	01	28	05	006	9	Transport cost of inputs (per cropping)									
1	01	28	05	006	10	Transport cost of produce from farm to first									
1	01	28	05	006	11	Interest payment on crop loan (per cropping)		160							
1	01	28	05	006	12	Storage fee (per cropping)									
1	01	28	05	006	13	Water expense (per cropping)									
1	01	28	05	006	14	Electricity cost (monthly)									
1	01	28	05	006	15	Food expense for hired and exchange labor		4000.00							
1	01	28	05	006	16	Landowner's share (per cropping)		2000.00							
1	01	28	05	006	17	Financier's share (per cropping)									
1	01	28	05	006	18	Sack / Crate / Box / Kaing		500.00							
1	01	28	05	006	19	Seedling bag									
1	01	28	05	006	20	Wood stakes									
1	01	28	05	006	21	Straw twine									

For QC No. 1, there is no Machine or Animal Rent in Block G. Thus, it is inconsistent with the farm activities in Block F.

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready 34 of 2550 records found

Block F consistency with other Blocks

3. Sowing of seeds - If this item has entry, then there should be acquisition of planting materials (seeds/seedlings) in Block E.

4. Fertilizer application (basal/side-dress/top-dress) - If this item has entry, then there should be acquisition of fertilizer in Block E.

5. Liming application - If this item has entry, then there should be acquisition of soil ameliorant in Block E.

6. Mulching - If this item has entry, then there should be acquisition of mulching materials in Block E.

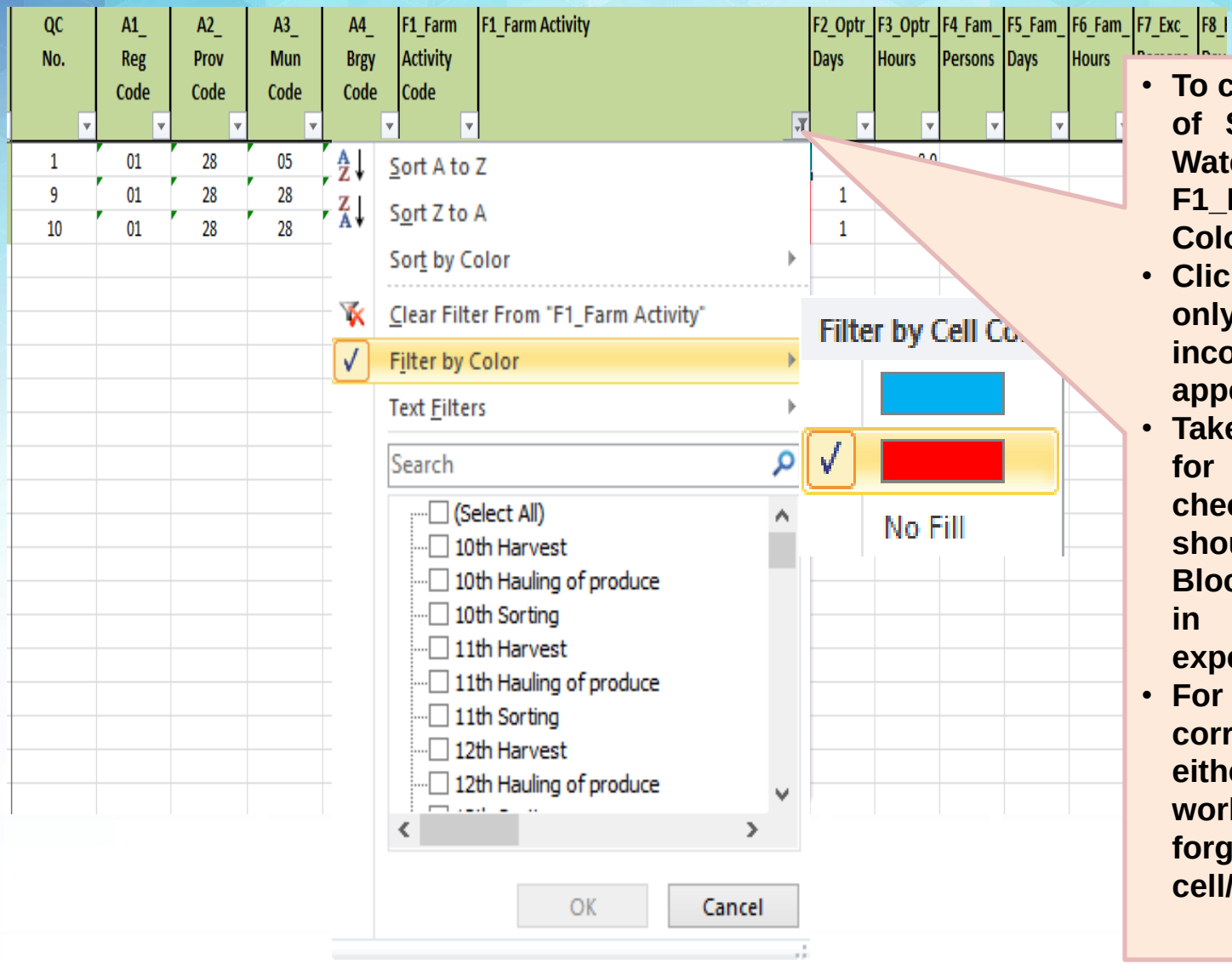
7. Chemical application/spraying - If this item has entry; there should be acquisition of any of the pesticides (herbicide/insecticide/fungicide/other pesticides) in Block E.

8. Watering – If this item has entry, there should be water expense (paid in cash or imputed) in Block G.

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 54.1



- To check the consistency of Sowing of seeds to Watering, Filter column F1_Farm Activity by Color.
- Click color **RED** so that only the data with inconsistencies will appear on the screen.
- Take note of the Column for QC No. then start checking the data that should be consistent in Block E (material inputs) in Block G (water expense).
- For any data that will be corrected/ updated in either of the said blocks/ worksheets, do not forget to fill the updated cell/s with color **GREEN**.

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 54.2

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	F2_Optr_ Days	F3_Optr_ Hours	F4_Fam_ Persons	F5_Fam_ Days	F6_Fam_ Hours	F7_Exc_ Persons	F8_Exc_ Days	F9_Exc_ Hours	F10_Prevailing Wage Rate per day	F11_F16_ Hired_ Persons	F12_F17_ Hired_Days	F13_F18_ Hired_ Hours	F14_F19_ Payment in Cash	F15_F20_ Payment in Kind
1	01	28	05	006	608	Watering	1	8.0							200.00	1	4	8.0	800.00	
9	01	28	28	015	107	Mulching	1	1.0							250.00					
10	01	28	28	015	107	Mulching	1	1.0							200.00					

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready 3 of 10350 records found

- **In this illustration, the farm activities turned RED for QC Nos. 1, 9 and 10.**
- **Check if there are no corresponding data in Block E (Mulching Material) and Block G (Water Expense).**
- **Verify in the questionnaire, encode the correct data across blocks to make it consistent. Do not forget to fill the updated/corrected cell with color GREEN.**

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 54.2

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Uni	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in K	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
1	01	28	05	006	13	Water expense (per									

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready 1 of 255 records found

- **In Block G, QC No. 1 has no data for water expense. Thus, it is inconsistent with the farm activity – Watering in Block F.**

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	E1_ Material Inputs Code	E1_Material Inputs	E2_Number of units used / applied	E3_Name of local unit	E4_SOLID weight of one local unit in kilogram	E5_LIQUID weight of one local unit in liter	E6_Mode of acquisition 11-self-fin.cash 12-self-fin.kind 13-discounted 21-OwnProd 31-fromGovt 32-fromPrivate	E7_Discount rate_if purchased & discounted	E8_Price per Local Unit_ if purchased (pesos)	E9_Prevailing Price per local unit in the locality_ if not purchased (pesos)
9	01	28	28	015	401	Rice Hay (dayami)								
10	01	28	28	015	401	Rice Hay (dayami)								

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready Filter Mode

- **In Block E, QC Nos. 9 and 10 have no data for Rice Hay (dayami) or any other material under code 401 (Mulching Materials). Thus, it is inconsistent with the farm activity – Mulching in Block F.**

Block F consistency with other Blocks

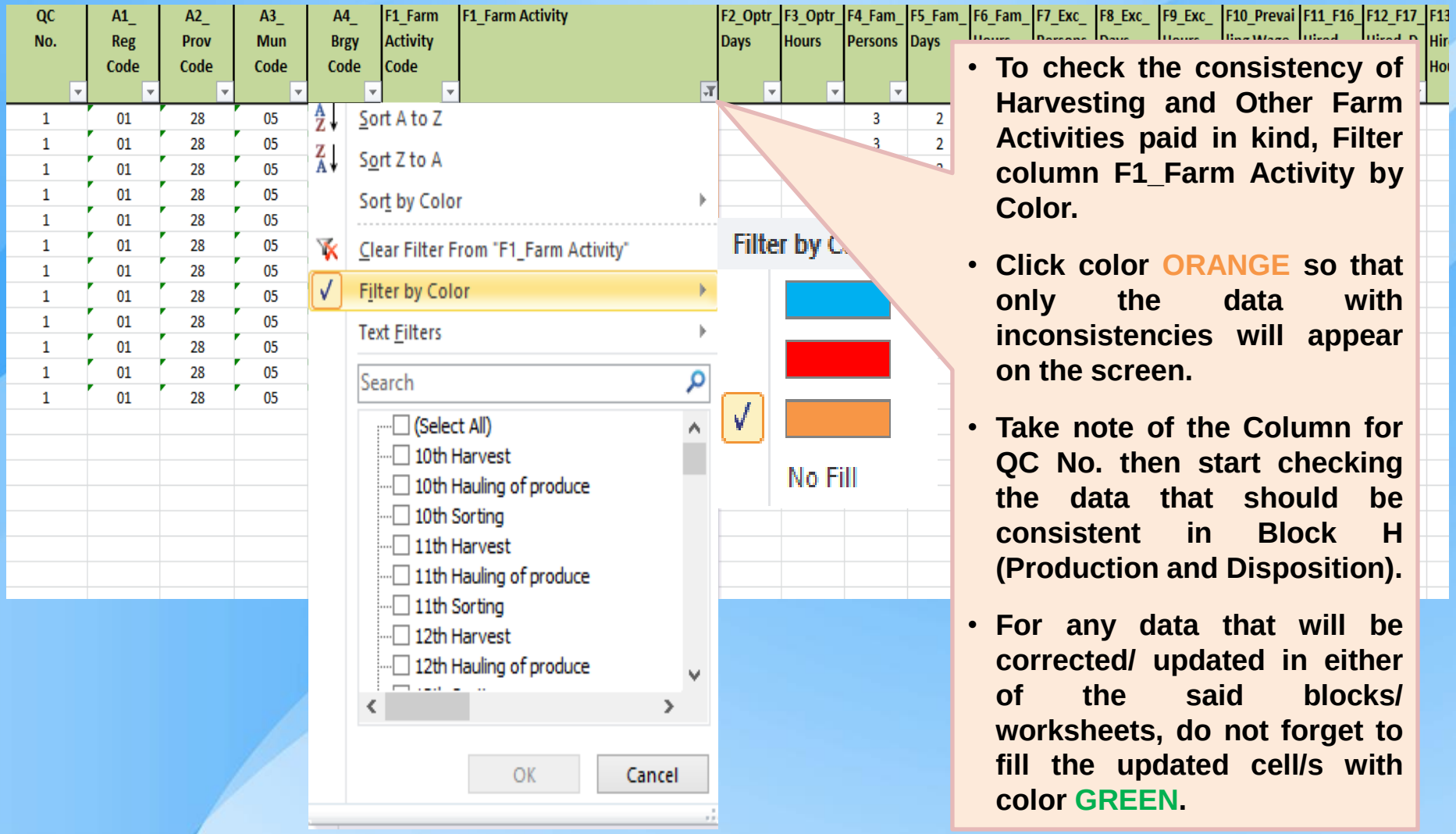
9. Harvesting paid in Kind - If the harvesters of tomato were paid in kind, then, the payment should be consistent in Block H, Code 202 (harvesters' share). The value of payment in kind should be equivalent to the *quantity paid to the harvesters x farm gate price*.

10. Other activities paid in Kind - If the hired tomato laborers in farm activities other than harvesting were paid in kind, then, the payment should be consistent in Block H, Code 203 (Other laborers' share). The value of payment in kind should be equivalent to the *quantity paid for other laborers x farm gate price*.

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 55.1



- To check the consistency of Harvesting and Other Farm Activities paid in kind, Filter column F1_Farm Activity by Color.
- Click color ORANGE so that only the data with inconsistencies will appear on the screen.
- Take note of the Column for QC No. then start checking the data that should be consistent in Block H (Production and Disposition).
- For any data that will be corrected/ updated in either of the said blocks/ worksheets, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 55.2

Sample inconsistencies in the data of Block F (farm activities) and Block H (production and disposition)

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	F2_Optr_ Days	F3_Optr_ Hours	F4_Fam_ Persons	F5_Fam_ Days	F6_Fam_ Hours	F7_Exc_ Persons	F8_Exc_ Days	F9_Exc_ Hours	F10_Prevailing Wage Rate per day	F11_F16_ Hired_ Persons	F12_F17_ Hired_Days	F13_F18_ Hired_ Hours	F14_F19_ Payment in Cash	F15_F20_ Payment in Kind
1	01	28	05	006	801	1st Harvest			3	2	6.0				200.00					
1	01	28	05	006	802	2nd Harvest			3	2	6.0				200.00					
1	01	28	05	006	803	3rd Harvest			3	2	6.0				200.00					
1	01	28	05	006	804	4th Harvest			3	2	6.0				200.00					
1	01	28	05	006	805	5th Harvest														
1	01	28	05	006	806	6th Harvest														
1	01	28	05	006	807	7th Harvest														
1	01	28	05	006	808	8th Harvest														
1	01	28	05	006	809	9th Harvest														
1	01	28	05	006	810	10th Harvest														
1	01	28	05	006	811	11th Harvest														
1	01	28	05	006	812	12th Harvest														

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready 3 of 1035 records found

- In this illustration, the farm activities (1st Harvest to 12th Harvest) turned ORANGE for QC No. 1.
- Check the corresponding data in Block H (Harvesters' Share).
- Verify in the questionnaire, encode the correct data across blocks to make it consistent. Do not forget to fill the updated/corrected cell with color GREEN.

Consistency and Accuracy Checks

Block F consistency with other Blocks

Illustration 55.2

Sample inconsistencies in the data of Block F (farm activities) and Block H (production and disposition)

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest
1	01	28	05	006	101	Quantity in local unit	1000.00	1000.00	350.00	250.00
1	01	28	05	006	102	Name of local unit (LU)	KG	KG	BASKET	BASKET
1	01	28	05	006	103	Weight of one LU in kilogram	1.00	1.00	10.00	10.00
1	01	28	05	006	2011	Trader	990.00	990.00		
1	01	28	05	006	2012	Processor			349.00	250.00
1	01	28	05	006	2013	Direct Consumer				
1	01	28	05	006	300	Price per local unit	14.00	7.00	38.50	38.50
1	01	28	05	006	202	Harvesters' share		5.00		
1	01	28	05	006	203	Other laborers' share				
1	01	28	05	006	204	Landowner's share				
1	01	28	05	006	205	Financier's share				

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Ready 29 of 2175 records found

- **In Block H, QC 1 have data for Harvesters' share particularly for 2nd Harvest. However, there is no corresponding payment in kind in Block F. Thus, the two data items are inconsistent.**

Consistency and Accuracy Checks

Block F – Acceptability of Mandays and Wages by Source

Illustration 56 – OPERATOR LABOR

F1_Farm Activity Code	F1_Farm Activity	F15_F20_ Payment in Kind		V1_Mandays OPERATOR	V1_Mandays per Hectare OPERATOR	V1_Wage/Day OPERATOR	V1_Wage/Day per Hectare OPERATOR
101	Plowing of seedbed (man-animal)						
101	Plowing of seedbed (man-animal)						
101	Plowing of seedbed (man-animal)						
101	Plowing of seedbed (man-animal)						
101	Plowing of seedbed (man-animal)			11.25	45.00	2,250.00	9,000.00
101	Plowing of seedbed (man-animal)			1.50	6.00	600.00	2,400.00
101	Plowing of seedbed (man-animal)			2.00	10.00	800.00	4,000.00
101	Plowing of seedbed (man-animal)						
101	Plowing of seedbed (man-animal)			0.13	0.50	31.25	125.00
101	Plowing of seedbed (man-animal)			0.13	0.50	25.00	100.00
101	Plowing of seedbed (man-animal)			0.03	0.05	5.00	10.00
101	Plowing of seedbed (man-animal)						

- **These columns have built-in computations of the total operator labor mandays and wages. This will facilitate the review and validation of the data on labor inputs using standardized values (*per hectare*) for comparability.**
- **Filter each column simultaneously and review the acceptability of the data.**
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.**
- **These columns are locked and cannot be changed during the review and validation of data. Updating should be applied in Columns F2_ (days), F3_ (hours) and F10_ (prevailing wage).**

Consistency and Accuracy Checks

Block F – Acceptability of Mandays and Wages by Source

Illustration 57 – FAMILY LABOR

F1_Farm Activity Code	F1_Farm Activity	V2_Mandays FAMILY	V2_Mandays per Hectare FAMILY	V2_Wage/Day FAMILY	V2_Wage/Day per Hectare FAMILY
101	Plowing of seedbed (man-animal)				
101	Plowing of seedbed (man-animal)				
101	Plowing of seedbed (man-animal)				
101	Plowing of seedbed (man-animal)				
101	Plowing of seedbed (man-animal)	5.25	21.00	1,050.00	4,200.00
101	Plowing of seedbed (man-animal)	1.50	6.00	600.00	2,400.00
101	Plowing of seedbed (man-animal)				
101	Plowing of seedbed (man-animal)				

- **These columns have built-in computations of the total family labor mandays and wages. This will facilitate the review and validation of the data on labor inputs using standardized values (per hectare) for comparability.**
- **Filter each column simultaneously and review the acceptability of the data.**
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.**
- **These columns are locked and cannot be changed during the review and validation of data. Updating should be applied in Columns F4_ (persons), F5_ (days), F6_ (hours) and F10_ (prevailing wage).**

Consistency and Accuracy Checks

Block F – Acceptability of Mandays and Wages by Source

Illustration 58 – EXCHANGE LABOR

A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	V3_Mandays EXCHANGE	V3_Mandays per Hectare EXCHANGE	V3_Wage/Day EXCHANGE	V3_Wage/Day per Hectare EXCHANGE
006	101	Plowing of seedbed (man-animal)				
044	101	Plowing of seedbed (man-animal)				
004	101	Plowing of seedbed (man-animal)				
004	101	Plowing of seedbed (man-animal)				
088	101	Plowing of seedbed (man-animal)				
029	101	Plowing of seedbed (man-animal)				
015	101	Plowing of seedbed (man-animal)				

- **The columns have built-in computations of the total exchange labor mandays and wages. This will facilitate the review and validation of the data on labor inputs using standardized values (per hectare) for comparability.**
- **Filter each column simultaneously and review the acceptability of the data.**
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.**
- **These columns are locked and cannot be changed during the review and validation of data. Updating should be applied in Columns F7_ (persons), F8_ (days), F9_ (hours) and F10_ (prevailing wage).**

Consistency and Accuracy Checks

Block F – Acceptability of Mandays and Wages by Source

Illustration 59.1 – HIRED LABOR

F1_Farm Activity Code	F1_Farm Activity	V4_Mandays HIRED	V4_Mandays per Hectare HIRED	V4_Total Cash HIRED	V4_Total Cash per Hectare HIRED	V4_Total InKind HIRED	V4_Total InKind per Hectare HIRED
400	Planting / Transplanting						
400	Planting / Transplanting	4.00	8.00	2,000.00	4,000.00		
400	Planting / Transplanting						
400	Planting / Transplanting						
400	Planting / Transplanting						
400	Planting / Transplanting						
400	Planting / Transplanting						
400	Planting / Transplanting						
400	Planting / Transplanting	3.00	12.00	800.00	3,200.00		
400	Planting / Transplanting	3.00	12.00	750.00	3,000.00		
400	Planting / Transplanting	11.25	22.50	3,000.00	6,000.00		
400	Planting / Transplanting	25.00	50.00	6,250.00	12,500.00		
400	Planting / Transplanting						

- **The columns have built-in computations of the total <u>hired labor</u> mandays and wages. This will facilitate the review and validation of the data on labor inputs using standardized values (per hectare) for comparability.**
- **Filter each column simultaneously and review the acceptability of the data.**
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.**
- **These columns are locked and cannot be changed during the review and validation of data. Updating should be applied in Columns F11_F16_ (persons), F12_F17_ (days), F13_F18_ (hours), F14_F19_ (in cash) and F15_F20_ (in kind).**

Consistency and Accuracy Checks

Block F – Acceptability of Mandays and Wages by Source

Illustration 59.2 – HIRED LABOR

F1_Farm Activity Code	F1_Farm Activity	V5_Cash Per day HIRED	V5_Cash Per day per Hectare HIRED	V5_In Kind Per day HIRED	V5_In Kind Per day per Hectare HIRED
400	Planting / Transplanting				
400	Planting / Transplanting	500.00	1,000.00		
400	Planting / Transplanting				
400	Planting / Transplanting				
400	Planting / Transplanting				
400	Planting / Transplanting				
400	Planting / Transplanting				
400	Planting / Transplanting				
400	Planting / Transplanting	266.67	1,066.67		
400	Planting / Transplanting	250.00	1,000.00		
400	Planting / Transplanting	266.67	533.33		
400	Planting / Transplanting	250.00	500.00		

- **Additional validation columns for hired labor were created to further facilitate the review and validation of the data on labor inputs using standardized values (per day and per hectare).**
- **Filter each column simultaneously and review the acceptability of the data.**
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.**
- **These columns are locked and cannot be changed during the review and validation of data. Updating should be applied in Columns F11_F16_ (persons), F12_F17_ (days), F13_F18_ (hours), F14_F19_ (in cash) and F15_F20_ (in kind).**

Consistency and Accuracy Checks

Block F – Acceptability of Mandays and Wages by Source

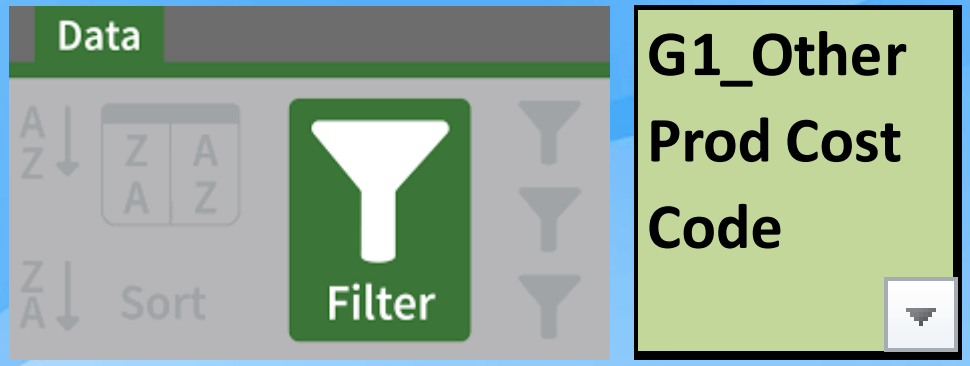
Illustration 60 – ALL SOURCES OF LABOR

F1_Farm Activity	V6_All Sources_ Mandays	V6_All Sources_ Mandays per Hectare	V6_All Sources_ Costs	V6_All Sources_ Costs per Hectare	V6_All Sources_ Costs per Manday	V6_All Sources_ Costs per Manday per Hectare
1st Harvest	4.50	22.50	900.00	4,500.00	200.00	1,000.00
1st Harvest	6.00	12.00	1,500.00	3,000.00	250.00	500.00
1st Harvest						
1st Harvest	1.00	2.50	200.00	500.00	200.00	500.00
1st Harvest	1.13	4.50	225.00	900.00	200.00	800.00
1st Harvest	1.00	4.00	200.00	800.00	200.00	800.00
1st Harvest	0.25	1.25	50.00	250.00	200.00	1,000.00
1st Harvest	2.00	20.00	300.00	3,000.00	150.00	1,500.00
1st Harvest						
1st Harvest	4.00	16.00	1,000.00	4,000.00	250.00	1,000.00
1st Harvest	3.00	6.00	800.00	1,600.00	266.67	533.33
1st Harvest	6.00	12.00	1,500.00	3,000.00	250.00	500.00

- **These columns for <u>all sources of labor</u> were created to have a big picture of the total labor costs using standardized values (per hectare and per manday).**
- **Filter each column simultaneously and review the acceptability of the data.**

Block G – Other Production Costs

Note: Before reviewing Columns G2 to G9, remember to filter Column G1_Other Prod Cost Code first according to the code of the production cost item being reviewed.



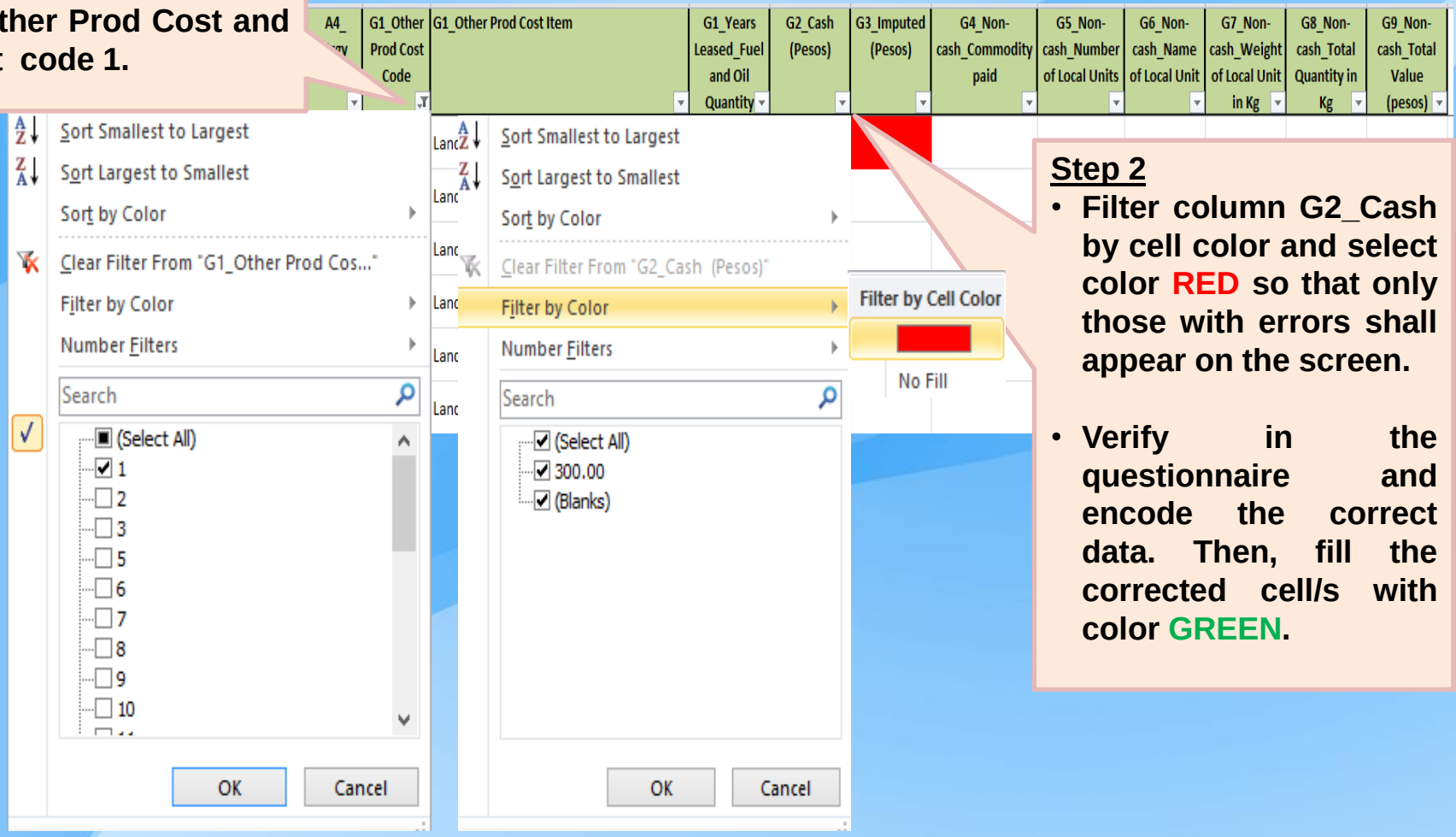
Consistency and Accuracy Checks

Block G – Land Tax

Illustration 61.1

Step 1

- To check, filter Column G1_Other Prod Cost and select code 1.



Step 2

- Filter column G2_Cash by cell color and select color RED so that only those with errors shall appear on the screen.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color GREEN.

Consistency and Accuracy Checks

Block G – Land Tax

Illustration 61.2

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non cash_Comm
1	01	28	05	006	1	Land Tax - owned farm (annual)		300.00		
2	01	28	05	044	1	Land Tax - owned farm (annual)				
3	01	28	12	004	1	Land Tax - owned farm (annual)				
4	01	28	12	004	1	Land Tax - owned farm (annual)				
5	01	28	14	088	1	Land Tax - owned farm (annual)			1,750.00	
6	01	28	10	029	1	Land Tax - owned farm (annual)				

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

- The cells turned **RED** because there is land tax but the tenure code in Block C2 is 3-Tenanted.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color **GREEN**.

- The cells turned **RED** because there is no land tax but the tenure code in Block C2 is 1-Fully Owned.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color **GREEN**.

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	C2_Focus Parcel	C3_Tenure Code	C3_Other Tenure Verbatim
1	01	28	05	006	2	3	
2	01	28	05	044	2	3	
3	01	28	12	004	2	3	
4	01	28	12	004	2	1	

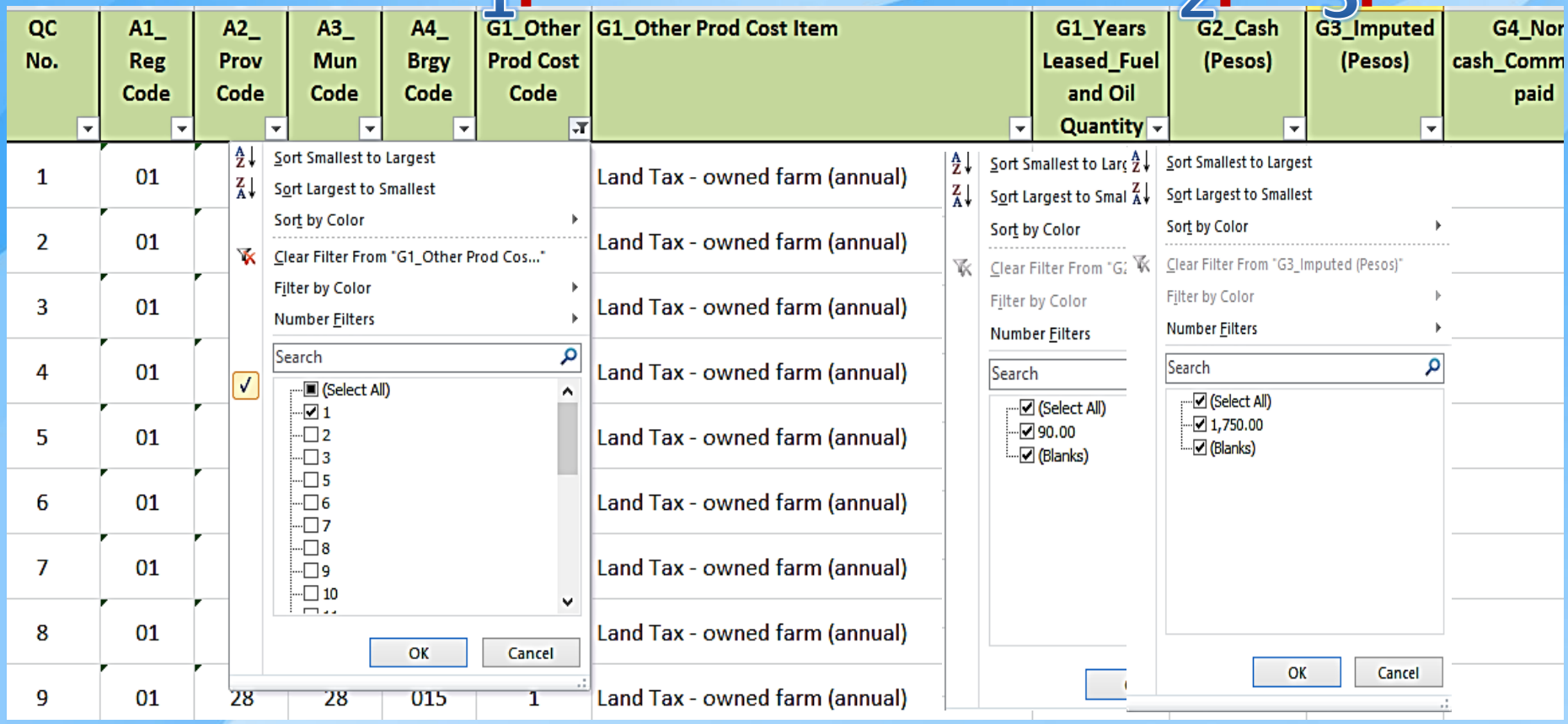
AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Consistency and Accuracy Checks

Block G – Land Tax

Illustration 62

Columns to be filtered in validating the data on land tax



Consistency and Accuracy Checks

Block G – In Kind Payments (Non-Cash Costs)

Illustration 63.1

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
1	01	28	05	006	2	Caretaker/overseer's share/wages (per cropping)				TOMATO	50.00	BASKET	10.000	500.000	1,925.00

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest
1	01	28	05	006	101	Quantity in local unit	1000.00	1000.00	350.00	250.00
1	01	28	05	006	102	Name of local unit (LU)	KG	KG	BASKET	BASKET
1	01	28	05	006	103	Weight of one LU in kilogram	1.00	1.00	10.00	10.00
1	01	28	05	006	2011	Trader	990.00	990.00		
1	01	28	05	006	2012	Processor			349.00	200.00
1	01	28	05	006	2013	Direct Consumer				
1	01	28	05	006	300	Price per local unit	14.00	7.00	38.50	38.50
1	01	28	05	006	202	Harvesters' share				
1	01	28	05	006	203	Other laborers' share				
1	01	28	05	006	204	Landowner's share				
1	01	28	05	006	205	Financier's share				
1	01	28	05	006	206	Land lease / Rental				
1	01	28	05	006	207	For home consumption	5.00	5.00		
1	01	28	05	006	208	For home - based processing				
1	01	28	05	006	209	Given away	5.00	5.00	1.00	
1	01	28	05	006	210	Paid to creditor				
1	01	28	05	006	211	Used / To be used for planting materials				
1	01	28	05	006	212	Wastage				
1	01	28	05	006	213	Payment to caretaker				50.00

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

50 (Quantity paid) x 38.50 (price per local unit) = 1,925.

Consistency and Accuracy Checks

Block G – In Kind Payments (Non-Cash Costs)

Illustration 63.2

G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
2	Caretaker/overseer's share/wages (per cropping)				TOMATO	50.00	BASKET	10.000	5,000.000	1,925.00

AB C1 C2 D E F G H I J K L M N HH CRS

- **The cell turned RED because it is not equal to the product of the number of units in Column G5 and weight of local unit in kilogram in Column G8.**
- **Encode the correct data. Then, fill the corrected cell/s with color GREEN.**

Consistency and Accuracy Checks

Block G – Lease/Rental of Land

Illustration 64

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
1	01	28	05	006	401	Land (annual) if lease agreement, indicate number of years leased									
2	01	28	05	044	401	Land (annual) if lease agreement, indicate number of years leased									
3	01	28	12	004	401	Land (annual) if lease agreement, indicate number of years leased		5,000.00							
4	01	28	12	004	401	Land (annual) if lease agreement, indicate number of years leased									
5	01	28	14	088	401	Land (annual) if lease agreement, indicate number of years leased									
6	01	28	10	029	401	Land (annual) if lease agreement, indicate number of years leased			3,750.00						
7	01	28	05	015	401	Land (annual) if lease agreement, indicate number of years leased									
8	01	28	46	005	401	Land (annual) if lease agreement, indicate number of years leased									

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

1
2
3
4

- **Error 1**: For QC No. 2, the following cells turned **RED** because it has no data while the corresponding tenure code in Block/Worksheet C2 is 2-RENTED.
- **Error 2**: For QC No. 3, the following cell turned **RED** because it has data while the corresponding tenure code in Block/Worksheet C2 is 3-TENANTED.
- **Error 3**: For QC No. 6, the following cells turned **RED** because it has data under Column G3_Imputed while the corresponding tenure code in Block/Worksheet C2 is 2-RENTED. The should be under Column G2_Cash and there should be corresponding number of years leased.
- **Error 4**: For QC No. 8, the following cell turned **RED** because it has no data while the corresponding tenure code in Block/Worksheet C2 is 5-RENT-FREE.
- Encode the correct data. Then, fill the corrected cell/s with color **GREEN**.

Block G – Lease/Rental of Machine/Animal

Illustration 65

Sample of consistent data for Rental of Animal (Block G) and Man-Animal Labor (Block F)

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
1	01	28	05	006	402	Machine (per cropping)									
1	01	28	05	006	403	Animals (per cropping)									
1	01	28	05	006	404	Tools and equipment (per cropping)									
2	01	28	05	044	402	Machine (per cropping)									
2	01	28	05	044	403	Animals (per cropping)			250.00						
2	01	28	05	044	404	Tools and equipment (per cropping)									

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	F2_Optr_ Days	F3_Optr_ Hours	F4_Fam_ Persons	F5_Fam_ Days	F6_Fam_ Hours	F7_Exc_ Persons	F8_Exc_ Days	F9_Exc_ Hours	F10_Prevailing Wage Rate per day	F11_F16_Hired_ Persons	F12_F17_Hired_ Days	F13_F18_Hired_ Hours	F14_F19_ Payment in Cash	F15_F20_ Payment in Kind
2	01	28	05	044	101	Plowing of seedbed (man-animal)														
2	01	28	05	044	102	Plowing of seedbed (man-machine, 2-wh														
2	01	28	05	044	103	Seedbed preparation														
2	01	28	05	044	104	Sowing of seeds	1	1.0							250.00					
2	01	28	05	044	105	Fertilizer application (basal)														
2	01	28	05	044	106	Chemical application														
2	01	28	05	044	107	Mulching	1	1.0							250.00					
2	01	28	05	044	201	Plowing (man-animal)										1	2	4.0	400.00	
2	01	28	05	044	202	Plowing (man-machine, 2-wheel)														
2	01	28	05	044	203	Plowing (man-machine, 4-wheel)														
2	01	28	05	044	204	Rotavating (man-machine, 2-wheel)														
2	01	28	05	044	205	Rotavating (man-machine, 4-wheel)														
2	01	28	05	044	206	Harrowing (man-animal)														
2	01	28	05	044	207	Harrowing (man-machine, 2-wheel)														
2	01	28	05	044	208	Harrowing (man-machine, 4-wheel)														
2	01	28	05	044	209	Furrowing (man-animal)										2	2	8.0	1000.00	
2	01	28	05	044	210	Furrowing (man-machine, 2-wheel)														
2	01	28	05	044	211	Furrowing (man-machine, 4-wheel)														

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

- **For QC No. 2, entry for animal rent in Block G is consistent with the entries in Block F considering that there is Plowing (man-animal) and Furrowing (man-animal).**
- **Validate the amount of rent in Block G vis-à-vis the payment in cash for the man-animal labor in Block F.**

Block G – Rental Value of Owned Land/Animal

Illustration 66

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)
2	01	28	05	044	5	Rental value of owned land (annual)			10,000.00
4	01	28	12	004	5	Rental value of owned land (annual)			
5	01	28	14	088	5	Rental value of owned land (annual)			50,000.00

AB C1 C2 D E F G H I J K L M N HH ... V_CRS

- The cells turned **RED** because of inconsistencies with the data in Block D where QC No. 2 has no farm land owned and QC No. 4 has farm land owned.

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	D1_ Investment Item Code	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)
2	01	28	05	044	100	Farm land owned (hectare)				
4	01	28	12	004	100	Farm land owned (hectare)	0.4000	2010	160,000.00	
5	01	28	14	088	100	Farm land owned (hectare)	0.2500	1990	35,000.00	

AB C1 C2 D E F G H I J K L M N HH_CRS Prov_CRS

Block G – Fuel and Oil

Illustration 67.1

Sample of consistent data for Fuel (Block G), Machineries (Block D) and Farm Activity requiring man-machine (Block F)

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G cash_(
1	01	28	05	006	7	Fuel (quantity:liter/s, per cropping)	40	1,600.00		
2	01	28	05	044	7	Fuel (quantity:liter/s, per cropping)	44	1,540.00		
3	01	28	12	004	7	Fuel (quantity:liter/s, per cropping)	30	900.00		
4	01	28	12	004	7	Fuel (quantity:liter/s, per cropping)	20	600.00		
5	01	28	14	088	7	Fuel (quantity:liter/s, per cropping)				
6	01	28	10	029	7	Fuel (quantity:liter/s, per cropping)	10	300.00		
7	01	28	05	015	7	Fuel (quantity:liter/s, per cropping)				

AB C1 C2 D E F G H I J K L M N HH_CF

For QC No. 6, there are entries for fuel.

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	D1_ Investment Item Code	D1_Investment Item	D2_Area/ Number of Units Owned and Used	D3_year acquired / constructed	D4_cost of acquisition / construction (Pesos)	D5_cost of minor repair / maintenance/ improvement (Pesos)	D6_yea / servic (from t intervi
6	01	28	10	029	402	Four-wheel tractor					
6	01	28	10	029	402	Four-wheel tractor					
6	01	28	10	029	403	Water pump	1	2016	9,000.00	300.00	
6	01	28	10	029	403	Water pump					
6	01	28	10	029	403	Water pump					
6	01	28	10	029	403	Water pump					
6	01	28	10	029	403	Water pump					

AB C1 C2 D E F G H I J K L M N HH_CRS

For QC No. 6, there are entries for Water pump.

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	F2_Optr _ Days	F3_Optr _ Hours	F4_Fam_ Persons	F5_Fam_ Days	F6_Fam_ Hours	F7_Exc_ Persons	F8_Exc_ Days	F9_Exc_ Hours	F10_Prevai ling Wage Rate per day	F1 _Hi Per
6	01	28	10	029	608	Watering	1	4.0	1	1	2.0				200.00	
6	01	28	10	029	609	Mulching										
6	01	28	10	029	610	Pruning/Thinning										
6	01	28	10	029	611	Farm monitoring	60	1.0	1	60	0.5				200.00	
6	01	28	10	029												
6	01	28	10	029												

AB C1 C2 D E F G H I J K L M N HH_C

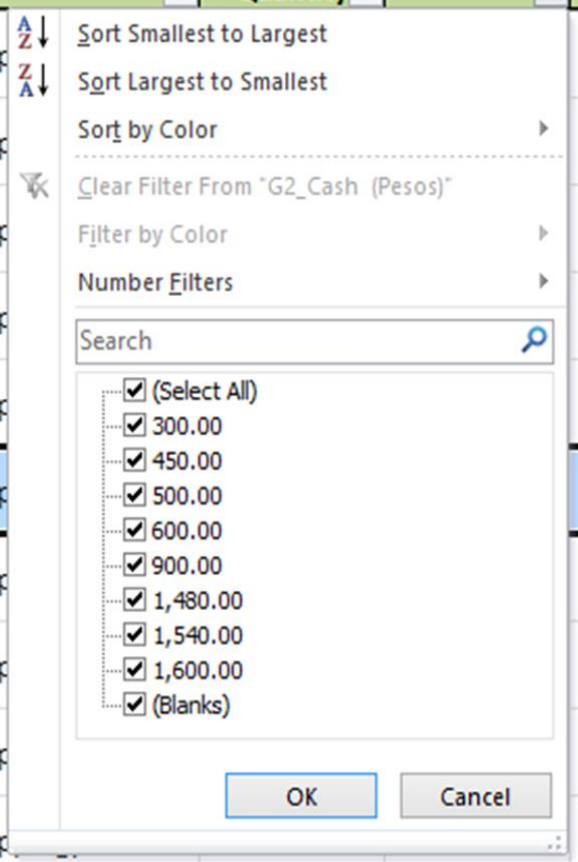
For QC No. 6, there is watering activity.

Block G – Fuel and Oil

Illustration 67.2

Validate the costs of fuel by filtering Column G2_Cash and reviewing the array of data.

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	Brgy Code	Prod Cost Code		G1_Years ... Fuel and Oil Quantity	G2_Cash (Pesos)	G3_In (Pe
1	01	28	05	006	7	Fuel (quantity:liter/s, per crop			
2	01	28	05	044	7	Fuel (quantity:liter/s, per crop			
3	01	28	12	004	7	Fuel (quantity:liter/s, per crop			
4	01	28	12	004	7	Fuel (quantity:liter/s, per crop			
5	01	28	14	088	7	Fuel (quantity:liter/s, per crop			
6	01	28	10	029	7	Fuel (quantity:liter/s, per crop			
7	01	28	05	015	7	Fuel (quantity:liter/s, per crop			
8	01	28	46	005	7	Fuel (quantity:liter/s, per crop			
9	01	28	28	015	7	Fuel (quantity:liter/s, per crop			
10	01	28	28	015	7	Fuel (quantity:liter/s, per crop			



Block G – Interest Payment on Crop Loan

Illustration 68

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Im (Pes
1	01	28	05	006	11	Interest payment on crop loan (per cropping)		160.00	
2	01	28	05	044	11	Interest payment on crop loan (per cropping)			
3	01	28	12	004	11	Interest payment on crop loan (per cropping)			
4	01	28	12	004	11	Interest payment on crop loan (per cropping)		1,400.00	

AB C1 C2 D E F G H I J K L M N HH_C

For QC No. 2, the cell turned RED because there is no interest payment in Column G2 while there is loan with interest of 2% per cropping in Block K.

For QC No. 4, the cell turned RED because there is interest payment in Column G2 while there is no loan in Block K.

QC No.	K1_Availed Loan 1-Yes 2-No (go to Block L)	K2_Loan Amount (pesos)	K3_Interest Per annum	K3_Interest Rate Per annum	K3_Interest Per month	K3_Interest Rate Per month	K3_Interest Per cropping	K3_Interest Rate Per cropping	K3_No interest
1	1	8000.00					1	2.00	
2	1	20000.00					1	2.00	
3	2								
4	1								
5	2								

AB C1 C2 D E F G H I J K L M N HH_CR

Block G – Water Expense

Illustration 69

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	cas
1	01	28	05	006	13	Water expense (per cropping)			175.00	
2	01	28	05	044	13	Water expense (per cropping)		437.50		
3	01	28	12	004	13	Water expense (per cropping)			175.00	
4	01	28	12	004	13	Water expense (per cropping)			875.00	

AB C1 C2 D E F **G** H I J K L M N HH_C

- For QC Nos. 1 to 4, data for water expense in Blocks G2 and G3 are consistent with the data in the Block F (farm activity – watering).

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	F2_Optr_ Days	F3_Optr_ Hours	F4_Fam_ Persons	F5_Fam_ Days	F6_Fam_ Hours	F7_Ex Perso
1	01	28	05	006	608	Watering	1	8.0				
2	01	28	05	044	608	Watering	7	8.0				
3	01	28	12	004	608	Watering						
4	01	28	12	004	608	Watering	8	6.0				

AB C1 C2 D E **F** G H I J K L M N HH_C

Block G – Food Expense

Illustration 70

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)
1	01	28	05	006	15	Food expense for hired and exchange labor		4,000.00

AB C1 C2 D E F G H I J K N HH_C

- The cell turned **RED** because there is food expense in Column G2 while there is no data under hired and exchange labor.

Block G – Landowner's/Financier's Share

Illustration 71.1

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
8	01	28	46	005	16	Landowner's share (per cropping)									
9	01	28	28	015	16	Landowner's share (per cropping)									
11	01	28	28	015	16	Landowner's share (per cropping)									
12	01	28	18	034	16	Landowner's share (per cropping)									

AB C1 C2 D E F G H I J K L M N HH_C

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	C2_Focus Parcel	C3_Tenure Code
8	01	28	46	005	1	5
9	01	28	28	015	1	3
10	01	28	28	015	1	5
11	01	28	28	015	1	5
12	01	28	18	034	1	5

AB C1 C2 D E F G H

- **For QC No. 9, the cells turned RED because there is no landowner's share in either Column G2 or Columns G4 to G9 but the tenure in Block C2, Column C3 is code 3 – TENANTED.**
- **Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color GREEN.**
- **In case the tenant farmer is not required by his landlord to give a share of his/her produce, change the tenure code to 5 – Rent-free in Block C2, Column C3 and impute land rent in item 401, Column G3.**

Block G – Landowner's/Financier's Share

Illustration 71.2

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
5	01	28	14	088	17	Financier's share (per cropping)									
6	01	28	10	029	17	Financier's share (per cropping)									
7	01	28	05	015	17	Financier's share (per cropping)									
8	01	28	46	005	17	Financier's share (per cropping)									

AB C1 C2 D E F G H I J K L M N HH_C

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest
5	01	28	14	088	204	Landowner's share				
5	01	28	14	088	205	Financier's share				30.00
5	01	28	14	088	206	Land lease / Rental				
5	01	28	14	088	207	For home consumption				

AB C1 C2 D E F G H I J K L M N HH_CRS

- For QC No. 5, the cells turned **RED** because there is no financier's share in Columns G4 to G9 but there is disposition for financier in Block H, Column H5_4th Harvest.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell/s with color **GREEN**.

Consistency and Accuracy Checks

Block H – Production and Disposition

Illustration 72

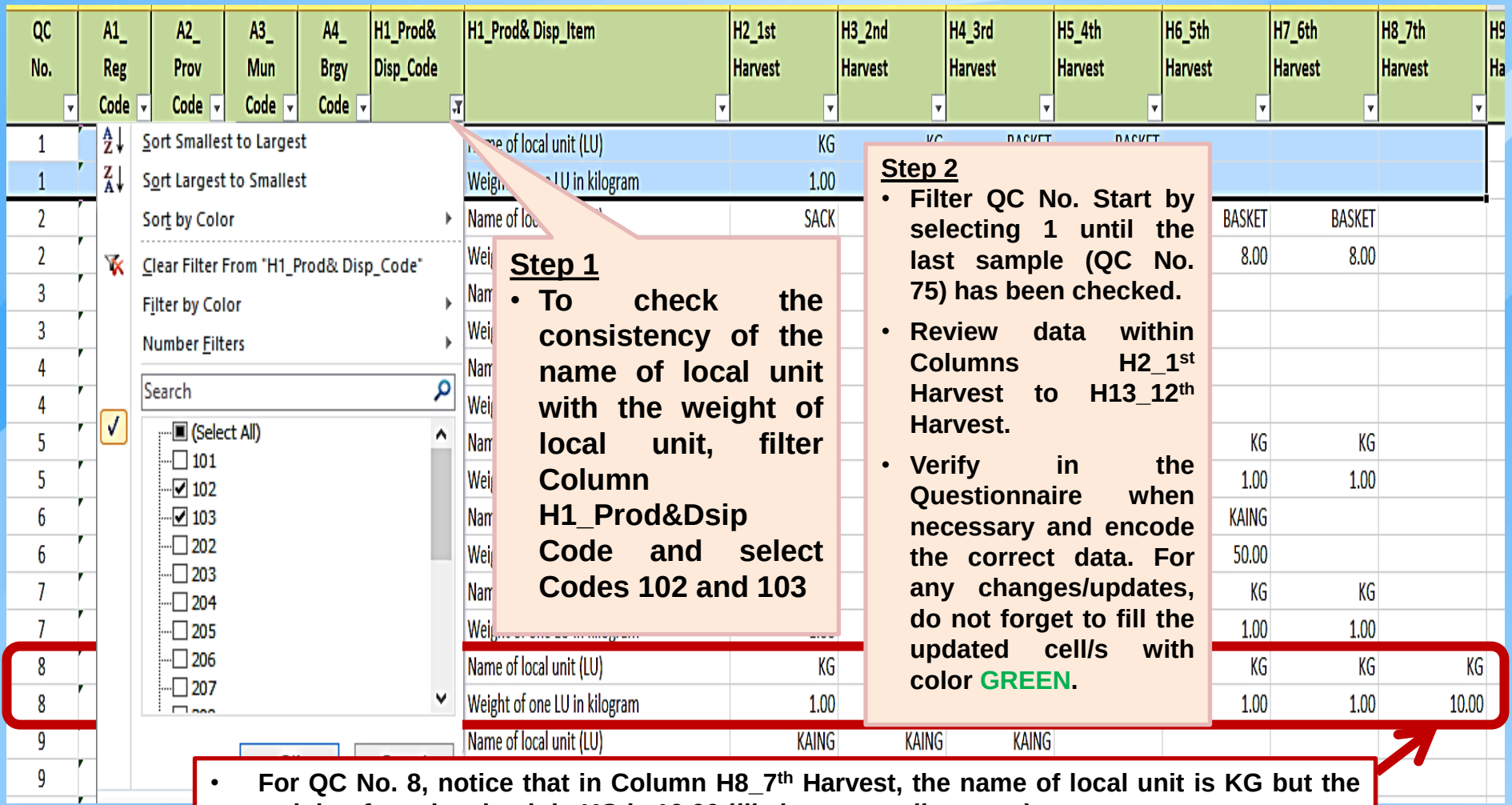
QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest
1	01	28	05	006	101	Quantity in local unit	1,000.00	1,000.00	350.00	250.00
1	01	28	05	006	102	Name of local unit (LU)	KG	KG	BASKET	BASKET
1	01	28	05	006	103	Weight of one LU in kilogram	1.00	1.00	10.00	10.00
1	01	28	05	006	2011	Trader	990.00	990.00		
1	01	28	05	006	2012	Processor			349.00	250.00
1	01	28	05	006	2013	Direct Consumer				
1	01	28	05	006	300	Price per local unit	14.00	7.00	38.50	38.50
1	01	28	05	006	202	Harvesters' share				
1	01	28	05	006	203	Other laborers' share				
1	01	28	05	006	204	Landowner's share				
1	01	28	05	006	205	Financier's share				
1	01	28	05	006	206	Land lease / Rental				
1	01	28	05	006	207	For home consumption	6.00	5.00		
1	01	28	05	006	208	For home - based processing				
1	01	28	05	006	209	Given away	5.00	5.00		
1	01	28	05	006	210	Paid to creditor				
1	01	28	05	006	211	Used / To be used for planting materials				
1	01	28	05	006	212	Wastage				
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006						
1	01	28	05	006	400	Total Disposition	1,000.00	1,000.00	350.00	250.00

- For the 1st Harvest and 3rd Harvest of QC No. 1, the cells turned RED because the quantity in local unit (code 101) is not equal to the total disposition (code 400) . Check the summation of all the disposition items for each harvest period.
- Verify in the questionnaire. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block H – Production and Disposition

Illustration 73



Step 1

- To check the consistency of the name of local unit with the weight of local unit, filter Column H1_Prod&Dsip Code and select Codes 102 and 103

Step 2

- Filter QC No. Start by selecting 1 until the last sample (QC No. 75) has been checked.
- Review data within Columns H2_1st Harvest to H13_12th Harvest.
- Verify in the Questionnaire when necessary and encode the correct data. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.

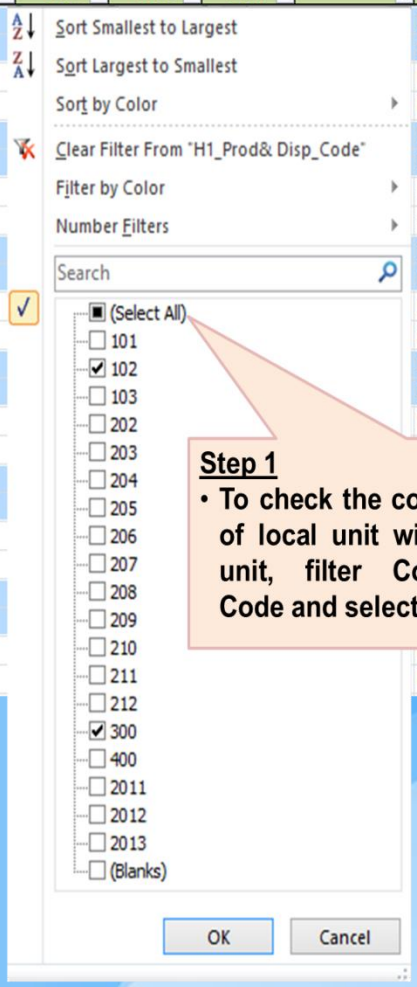
- For QC No. 8, notice that in Column H8_7th Harvest, the name of local unit is KG but the weight of one local unit in KG is 10.00 (*likely an encoding error*).
- To correct, encode 1 in the weight of one local unit and fill the cell with color GREEN.

Consistency and Accuracy Checks

Block H – Production and Disposition

Illustration 74

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest	H6_5th Harvest	H7_6th Harvest	H8_7th Harvest
1	01					Name of local unit (LU)	KG	KG	BASKET	BASKET			
1	01					Price per local unit	14.00	7.00	38.50	38.50			
2	01					Name of local unit (LU)	SACK	SACK	SACK	SACK	BASKET	BASKET	
2	01					Price per local unit	875.00	630.00	525.00	420.00	30.80	30.80	
3	01					Name of local unit (LU)	CRATE	CRATE	CRATE				
3	01					Price per local unit	75.00	75.00	75.00				
4	01					Name of local unit (LU)	CRATES	CRATES	CRATES				
4	01					Price per local unit	75.00	75.00	75.00				
5	01					Name of local unit (LU)	KG	KG	KG	KG	KG	KG	
5	01					Price per local unit	15.00	12.00	15.00	12.00	10.00	10.00	
6	01					Name of local unit (LU)	KAING	KAING	KAING	KAING	KAING		
6	01					Price per local unit	500.00	500.00	500.00	600.00	600.00		
7	01					Name of local unit (LU)	KG	KG	KG	KG	KG	KG	
7	01					Price per local unit	15.00	18.00	20.00	20.00	18.00	18.00	
8	01					Name of local unit (LU)	KG	KG	KG	KG	KG	KG	KG
8	01						20.00	20.00	20.00	20.00	20.00	20.00	20.00
9	01						KAING	KAING	KAING				
9	01						600.00	600.00	600.00				
10	01						KAING	KAING	KAING	KAING	KAING		
10	01						900.00	900.00	800.00	800.00	800.00		
11	01						KAING	KAING	KAING	KAING	KAING	KAING	KAING
11	01						2,200.00	1,800.00	1,500.00	1,500.00	1,500.00	1,500.00	1,200.00
12	01						KAING	KAING	KAING	KAING	KAING	KAING	
12	01					Price per local unit	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	750.00	



Step 1

- To check the consistency of the name of local unit with the price per local unit, filter Column H1_Prod&Dsip Code and select Codes 102 and 300

Step 2

- Filter the Column for QC No. Then, select 1 until the last sample (QC No. 75) has been checked.
- Review data within Columns H2_1st Harvest to H13_12th Harvest.
- Verify in the Questionnaire when necessary and encode the correct data. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block H – Consistency of Disposition vs. Other Blocks

Dispositions – check and review the consistency with other blocks/worksheets. If there are entries in any of these disposition items,

- Landowner's share
- Financier's share
- Lease / rental
- Other disposition items

} the volume and value of share should be reflected in **Block G (Columns G4 to G9)**

- Harvesters' share
- Other laborers' share

} the value of share should be reflected in **Block F (Column F15_F20_Payment in kind)**

Consistency and Accuracy Checks

Block H – Consistency of Disposition vs. Other Blocks

Illustration 75.1

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest
1	01	28	05	006	101	Quantity in local unit	1,000.00
1	01	28	05	006	102	Name of local unit (LU)	KG
1	01	28	05	006	103	Weight of one LU in kilogram	1.00
1	01	28	05	006	2011	Trader	840.00
1	01	28	05	006	2012	Processor	
1	01	28	05	006	2013	Direct Consumer	
1	01	28	05	006	300	Price per local unit	14.00
1	01	28	05	006	202	Harvesters' share	
1	01	28	05	006	203	Other laborers' share	
1	01	28	05	006	204	Landowner's share	150.00
1	01	28	05	006	205	Financier's share	
1	01	28	05	006	206	Land lease / Rental	
1	01	28	05	006	207	For home consumption	5.00
1	01	28	05	006	208	For home - based processing	
1	01	28	05	006	209	Given away	5.00
1	01	28	05	006	210	Paid to creditor	
1	01	28	05	006	211	Used / To be used for planting materials	
1	01	28	05	006	212	Wastage	
1	01	28	05	006			
1	01	28	05	006			
1	01	28	05	006	400	Total Disposition	1,000.00

AB C1 C2 D E F G H I J K L M N HH_CRS

QC No.	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
1	14	Electricity cost (monthly)									
1	15	Food expense for hired and exchange labor		4000.00							
1	16	Landowner's share (per cropping)		2000.00							
1	17	Financier's share (per cropping)									
1	18	Sack / Crate / Box / Kaing		500.00							

AB C1 C2 D E F G H I J K L M N HH_C

- For QC No. 1, the cells turned RED since data for landowner's share are inconsistent.
- Verify in the Questionnaire when necessary and encode the correct data. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block H – Consistency of Disposition vs. Other Blocks

Illustration 75.2

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest	H6_5th Harvest	H7_6th Harvest
5	01	28	14	088	101	Quantity in local unit	100.00	300.00	200.00	100.00	50.00	30.00
5	01	28	14	088	102	Name of local unit (LU)	KG	KG	KG	KG	KG	KG
5	01	28	14	088	103	Weight of one LU in kilogram	1.00	1.00	1.00	1.00	1.00	1.00
5	01	28	14	088	2011	Trader	100.00	300.00	200.00	100.00	20.00	30.00
5	01	28	14	088	2012	Processor						
5	01	28	14	088	2013	Direct Consumer						
5	01	28	14	088	300	Price per local unit	15.00	12.00	15.00	12.00	10.00	10.00
5	01	28	14	088	202	Harvesters' share						
5	01	28	14	088	203	Other laborers' share						
5	01	28	14	088	204	Landowner's share						
5	01	28	14	088	205	Financier's share					30.00	
5	01	28	14	088	206	Land lease / Rental						
5	01	28	14	088	207	For home consumption						
5	01	28	14	088	208	For home - based processing						
5	01	28	14	088	209	Given away						
5	01	28	14	088	210	Paid to creditor						
5	01	28	14	088	211	Used / To be used for planting materials						
5	01	28	14	088	212	Wastage						
5	01	28	14	088								
5	01	28	14	088								
5	01	28	14	088	400	Total Disposition	100.00	300.00	200.00	100.00	50.00	30.00

AB C1 C2 D E F G H I J K L M N HH_CRS

QC No.	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
5	16	Landowner's share (per cropping)									
5	17	Financier's share (per cropping)									
5	18	Sack / Crate / Box / Kaing		800.00							
5	19	Seedling bag									
5	20	Wood stakes		1000.00							
5	21	Straw twine		800.00							
5											

AB C1 C2 D E F G H I J K L M N HH_C

- For QC No. 5, the cells turned RED since data for financier's share are inconsistent.
- Verify in the Questionnaire when necessary and encode the correct data. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block H – Consistency of Disposition vs. Other Blocks

Illustration 75.3

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest	H6_5th Harvest
10	01	28	28	015	101	Quantity in local unit	30.00	30.00	38.00	28.00	17.00
10	01	28	28	015	102	Name of local unit (LU)	KAING	KAING	KAING	KAING	KAING
10	01	28	28	015	103	Weight of one LU in kilogram	60.00	60.00	60.00	60.00	60.00
10	01	28	28	015	2011	Trader	30.00	30.00	38.00	28.00	10.90
10	01	28	28	015	2012	Processor					
10	01	28	28	015	2013	Direct Consumer					
10	01	28	28	015	300	Price per local unit	900.00	900.00	800.00	800.00	800.00
10	01	28	28	015	202	Harvesters' share					
10	01	28	28	015	203	Other laborers' share					
10	01	28	28	015	204	Landowner's share					
10	01	28	28	015	205	Financier's share					
10	01	28	28	015	206	Land lease / Rental					3.00
10	01	28	28	015	207	For home consumption					0.10
10	01	28	28	015	208	For home - based processing					

AB C1 C2 D E F G H I J K L M N HH_CRS

QC No.	G1_Other Prod Cost Code	G1_Other Prod Cost Item	G1_Years Leased_Fuel and Oil Quantity	G2_Cash (Pesos)	G3_Imputed (Pesos)	G4_Non-cash_Commodity paid	G5_Non-cash_Number of Local Units	G6_Non-cash_Name of Local Unit	G7_Non-cash_Weight of Local Unit in Kg	G8_Non-cash_Total Quantity in Kg	G9_Non-cash_Total Value (pesos)
10	1	Land Tax - owned farm (annual)									
10	2	Caretaker/overseer's share/wages (per cropping)									
10	3	Other permanent employee's salary (monthly)									
10	401	Land (annual) If lease agreement, indicate number of years leased			2000.00						
10	402	Machine (per cropping)									
10	403	Animals (per cropping)									
10	404	Tools and equipment (per cropping)			270.00						

AB C1 C2 D E F G H I J K L M N HH_C

- For QC No. 10, the cells turned RED since data for Land Lease/Rentals (*these may be land, machine, animals or tools and equipment*) are inconsistent.
- Verify in the Questionnaire when necessary and encode the correct data. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.

Consistency and Accuracy Checks

Block H – Consistency of Disposition vs. Other Blocks

Illustration 75.4

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	H1_Prod& Disp_Code	H1_Prod& Disp_Item	H2_1st Harvest	H3_2nd Harvest	H4_3rd Harvest	H5_4th Harvest	H6_5th Harvest
12	01	28	18	034	101	Quantity in local unit	20.00	20.00	20.00	20.00	20.00
12	01	28	18	034	102	Name of local unit (LU)	KAING	KAING	KAING	KAING	KAING
12	01	28	18	034	103	Weight of one LU in kilogram	50.00	50.00	50.00	50.00	50.00
12	01	28	18	034	2011	Trader	20.00	20.00	19.97	18.00	14.00
12	01	28	18	034	2012	Processor					
12	01	28	18	034	2013	Direct Consumer					
12	01	28	18	034	300	Price per local unit	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
12	01	28	18	034	202	Harvesters' share					5.00
12	01	28	18	034	203	Other laborers' share					

AB C1 C2 D E F G H I J K L M N HH_CRS

QC No.	A1_ Reg Code	A2_ Prov Code	A3_ Mun Code	A4_ Brgy Code	F1_Farm Activity Code	F1_Farm Activity	F11_F16_Hired_ Persons	F12_F17_Hired_ Days	F13_F18_Hired_ Hours	F14_F19_ Payment in Cash	F15_F20_ Payment in Kind
12	01	28	18	034	802	2nd Harvest	5	1	8.0	1250.00	
12	01	28	18	034	803	3rd Harvest	5	1	8.0	1250.00	
12	01	28	18	034	804	4th Harvest	5	1	8.0	1250.00	
12	01	28	18	034	805	5th Harvest	5	1	8.0	1250.00	
12	01	28	18	034	806	6th Harvest	5	1	8.0	750.00	
12	01	28	18	034	807	7th Harvest					
12	01	28	18	034	808	8th Harvest					
12	01	28	18	034	809	9th Harvest					
12	01	28	18	034	810	10th Harvest					
12	01	28	18	034	811	11th Harvest					
12	01	28	18	034	812	12th Harvest					

AB C1 C2 D E F G H I J K L M N HH_C

- For QC No. 112, the cells turned RED (in Block H) and ORANGE (in Block F) since data for harvesters' share are inconsistent.
- Verify in the Questionnaire when necessary and encode the correct data. For any changes/updates, do not forget to fill the updated cell/s with color GREEN.

Block H – Validation on Quantity of Production

Check the acceptability of the data on production (quantity in local unit). To validate the data, use the Columns for validation of the weighted total quantity in Kilogram per Hectare (Validation1_Weighted Total Qty_Price in Kg and Validation2_Weighted Total Qty_Price in Kg PER HECTARE) located after Column H13_12th Harvest.

- **These validation columns have built-in computations of the weighted total quantity in kilogram and per hectare. This will facilitate the review and validation of the data on production quantity using standardized values (per kilogram and per hectare) for comparability.**

Consistency and Accuracy Checks

Block H – Validation on Quantity of Production

- **Filter column H1_Prod&Disp_Code and select code 101. Then filter Validation1 and/or Validation2 and review the array of data within. Take into consideration the seed variety, planting and harvesting months, input usage, etc. Look out for extreme values.**

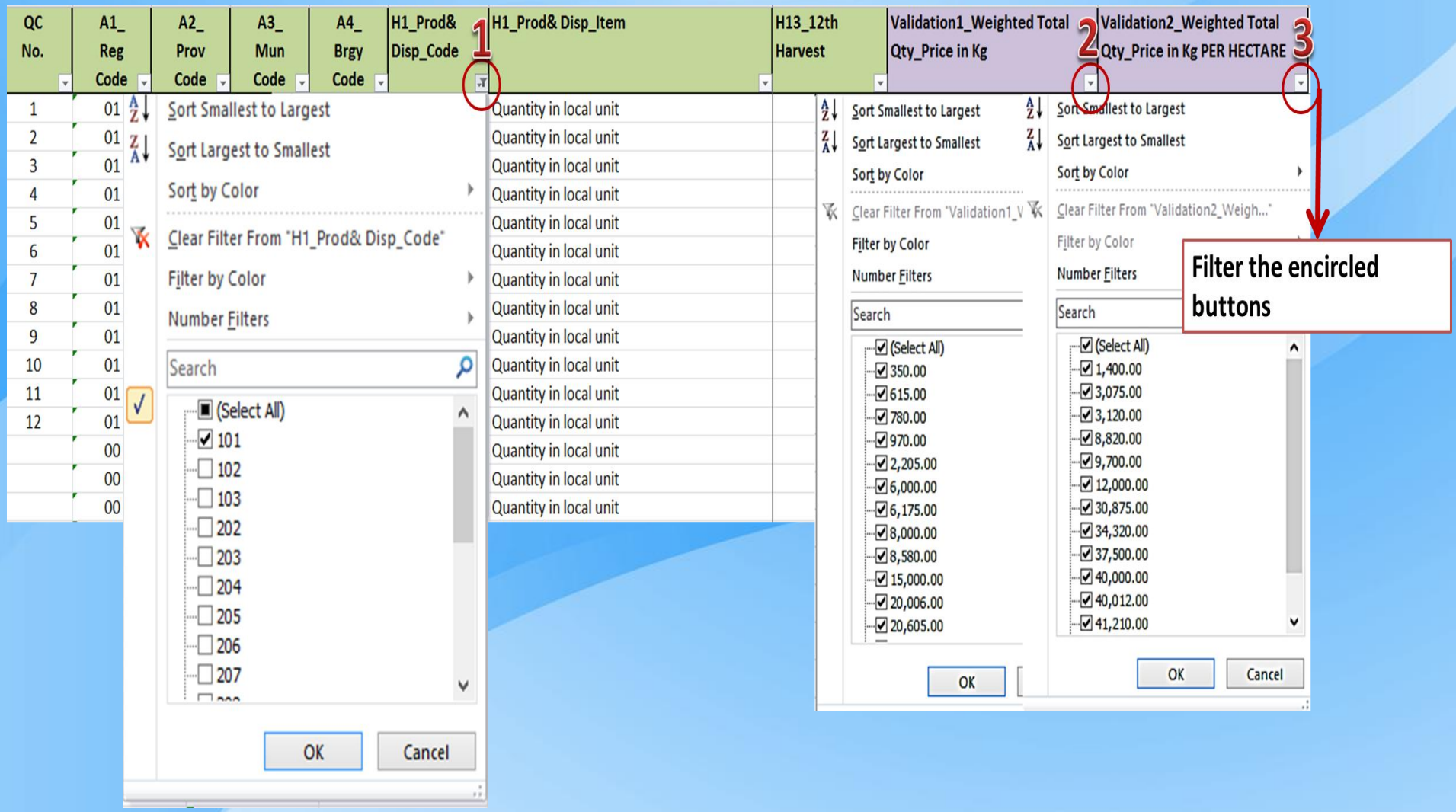
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.**

- **These columns are locked and cannot be changed during the review and validation of data. Updating should be applied in Columns H2_1st Harvest to H13_12th Harvest.**

Consistency and Accuracy Checks

Block H – Validation on Quantity of Production

Illustration 76



Block H – Validation on Price per Local Unit

Check the acceptability of the data on price per local unit. To validate the data, use the Columns for validation of the weighted price in Kilogram per Hectare (Validation1_Weighted Total Qty_Price in Kg and Validation2_Weighted Total Qty_Price in Kg PER HECTARE) located after Column H13_12th Harvest.

- **These validation columns have built-in computations of the weighted price in kilogram and per hectare. This will facilitate the review and validation of the data on price using standardized values (per kilogram and per hectare) for comparability.**

Consistency and Accuracy Checks

Block H – Validation on Price per Local Unit

- **Filter column H1_Prod&Disp_Code and select code 300. Then filter Validation1 and/or Validation2 and review the array of data within. Take into consideration the planting and harvesting months. Look out for extreme values.**

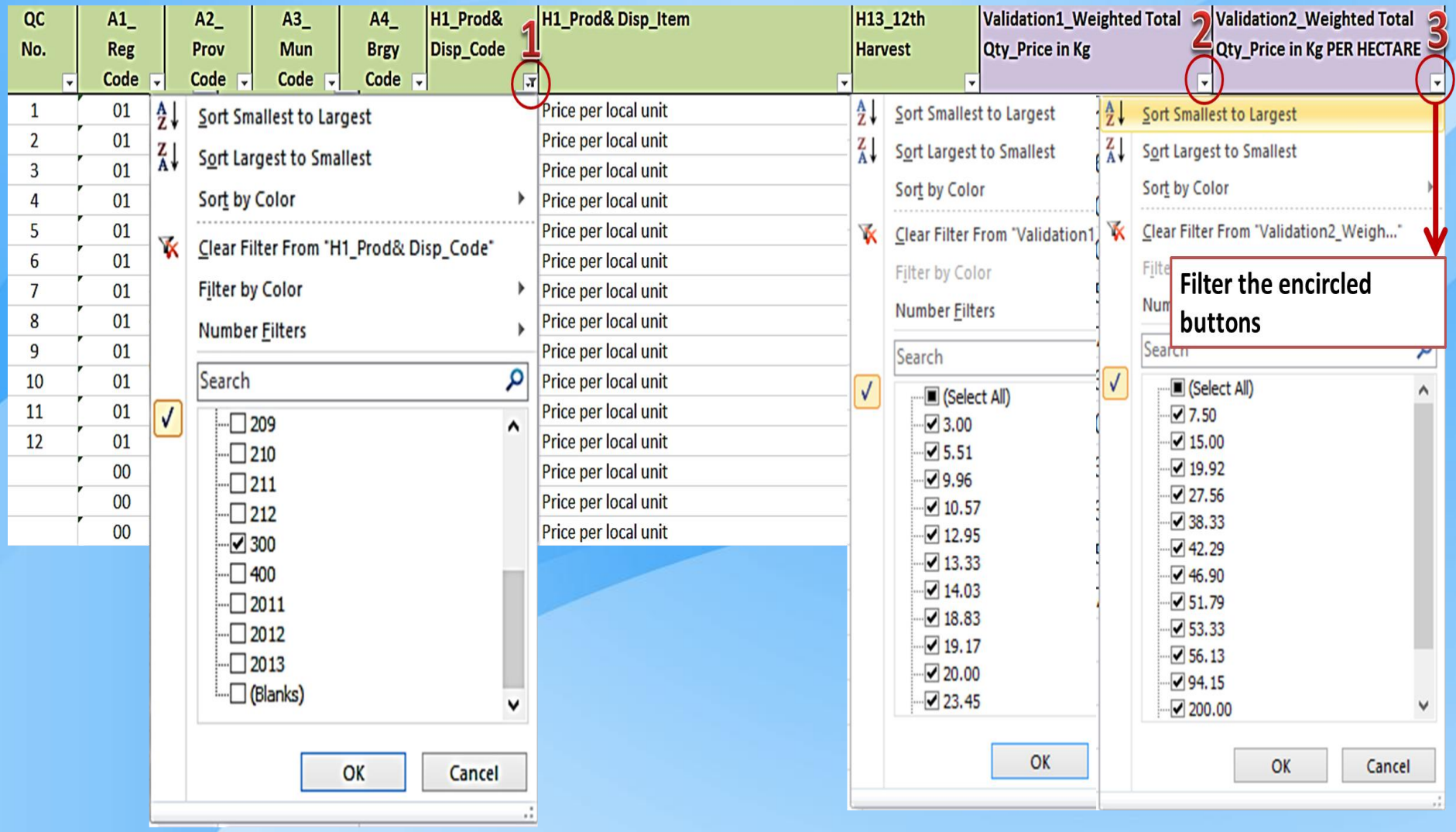
- **For any changes/updates in the values, do not forget to fill the updated cell/s with color GREEN.**

- **These columns are locked and cannot be changed during the review and validation of data. Updating should be applied in Columns H2_1st Harvest to H13_12th Harvest.**

Consistency and Accuracy Checks

Block H – Validation on Price per Local Unit

Illustration 77



Block I – Production Related Information

Illustration 78

I1_Compare_ 1-Higher	I1_Compare_ 2-Lower	I1_Compare_ 3-About the same (go to Item 3)	I1_Compare_ 4-No point of comparison (go to Item 3)
1			
1	1		
		2	
			1

- Cell color turned RED because there is missing data.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- Cell color turned RED because only one answer is accepted.
- Encode number one (1) and fill the corrected cell with color GREEN.

- Cell color turned RED because the encoded data is not accepted.
- Encode number one (1) and fill the corrected cell with color GREEN.

Consistency and Accuracy Checks

Block I – Production Related Information

Illustration 79

I1_Compare_ 1-Higher	I2_Higher Prod_ 1 - Increase in area	I2_Higher Prod_ 2 - Good Weather	I2_Higher Prod_ 3 - Good quality of seeds	I2_Higher Prod_ 4 - Use of fertilizers	I2_Higher Prod_ 5 - Adequate water supply	I2_Higher Prod_ 6 - Others (specify) :
1						
1		1		1	1	
1	2					
2					1	
1			1			

- Cell color turned RED because the encoded data is not accepted.
- Encode number one (1) and fill the corrected cell with color GREEN.

- Cell color turned RED because the encoded data is not accepted.
- Encode number one (1) and fill the corrected cell with color GREEN.

- Cell color turned RED because there is missing data.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

Block I – Production Related Information

Illustration 80

I1_Compare_ 2-Lower	I2_Lower Prod_ 1 - Decrease in area	I2_Lower Prod_ 2 - Bad weather	I2_Lower Prod_ 3 - Low quality of seeds	I2_Lower Prod_ 4 - Poor quality of produce	I2_Lower Prod_ 5 - Inadequate water supply	I2_Lower Prod_ 6 - Pests and Diseases	I2_Lower Prod_ 7 - Others (specify) :
1						2	
1							
1		1					
2		1		1			

- Cell color turned RED because there is wrong data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- Cell color turned RED because there is missing data.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- Cell color turned RED because the encoded data is not accepted.
- Encode number one (1) and fill the corrected cell with color GREEN.

Consistency and Accuracy Checks

Block I – Production Related Information

Illustration 81

I3_Prodn Prob_ 1- Pests and diseases	I3_Prodn Prob_ 2- High cost of inputs	I3_Prodn Prob_ 3- Bad weather / calamities	I3_Prodn Prob_ 4- Lack of capital	I3_Prodn Prob_ 5- Rough or poor road / inadequate transport facilities	I3_Prodn Prob_ 6- Inadequate supply of water	I3_Prodn Prob_ 7- Poor soil condition	I3_Prodn Prob_ 8- Others (specify) :	I3_Prodn Prob_ 8-Others_ Verbatim1	I3_Prodn Prob_ 8-Others_ Verbatim2
1	1	1			1				
1	1	1	1				Lack of Laborer to hire		
			1						
1							1		
1									
							1	NONE	
1									

- Cell color turned RED because there is verbatim answer for other production problem while code 1 is not encoded under I3_Prodn Prob_8 - Others.
- To make it consistent, encode 1 under I3_Prodn Prob_8 -Others and then fill the corrected cell with color GREEN.

- The verbatim answer "NONE" should not have been encoded.
- Delete the code and the word "NONE". To delete, filter all NONE verbatim answer in I3_Prodn Prob_8-Others_Verbatim then delete the verbatim answer also the code 1 in I3_prodn Prob_8 - Others and fill the corrected cell with color GREEN.

- Cell color turned RED because there is Code 1 under I3_Prodn Prob_8 - Others while there is no corresponding verbatim answer encoded.
- To make it consistent, verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

Consistency and Accuracy Checks

Block J – Marketing Related Information

Illustration 82

J1_Type of Buyer_ 1 - Agent	J1_Percent Sold to Agent	J1_Type of Buyer_ 2 - Wholesaler	J1_Percent Sold to Wholesaler	J1_Type of Buyer_ 3 - Wholesaler-retailer	J1_Percent Sold to Wholesaler-Retailer	J1_Type of Buyer_ 4 - Assembler	J1_Percent Sold to Assembler	J1_Type of Buyer_ 5 - Processor	J1_Percent Sold to Processor	J1_T Buy 6 - C
1	10.00	1	10.00	1	5.00			1	75.00	
1	20.00	1	20.00	1	10.00			1	50.00	
								1	100.00	
								1	100.00	
						1				
		1	100.00							
		1	100.00							
		1	98.98							
				1	100.00					
				1	100.00					
	100.00									
				1	100.00					

- Cell color turned RED because there is no type of buyer encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- Cell color turned RED because the data is less than 100 percent. The same thing happens if the encoded data is more than 100 percent.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- Cell color turned RED because there is no percent encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

Consistency and Accuracy Checks

Block J – Marketing Related Information

Illustration 83

J2_Mktg Prob_ 1 - Unstable prices	J2_Mktg Prob_ 2 - Rough roads / High transport cost	J2_Mktg Prob_ 3 - Low price of produce	J2_Mktg Prob_ 4 - No buyer / market outlet	J2_Mktg Prob_ 5 - Lack of marketing information	J2_Mktg Prob_ 6 - Other Mktg Prob (specify) :	J2_Mktg Prob_ 6 - Other Mktg Prob_Verbatim1	J2_Mktg Prob_ 6 - Other Mktg Prob_Verbatim2	J2_Mktg Prob_ 6 - Other Mktg Prob_Verbatim3	J2_Mktg Prob_ 6 - Other Mktg Prob_Verbatim4	J2_Mktg Prob_ 6 - Other Mktg Prob_Verbatim5
1										
					1	UNSTABLE PRICE				
	1									
1		1			1	Lack of capital				
	1									
					1	NONE				
1										

- Verbatim answer that is already specified in the choices should be deleted and put on the respective Marketing Problem then fill the corrected cell with color GREEN.

- Cell color turned RED because there is Code 1 under J2_Mktg Prob_6 – Other Mktg Prob (specify) while there is no corresponding verbatim answer encoded.
- To make it consistent, verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- The verbatim answer "NONE" should not have been encoded.
- Delete the code and the word "NONE". To delete, filter all NONE verbatim answer in J2_Mktg Prob_6- Other Mktg Prob_Verbatim then delete the verbatim answer also the code 1 in I3_prodn Prob_8 - Others and fill the corrected cell with color GREEN.

- Cell color turned RED because there is verbatim answer for other production problem while code 1 is not encoded under J2_Mktg Prob_6 – Other Mktg Prob (specify).
- To make it consistent, encode 1 under J2_Mktg Prob_6 – Other Mktg Prob (specify) and then fill the corrected cell with color GREEN.

Consistency and Accuracy Checks

Block K – Access to Credit

Illustration 84

K1_Availed Loan 1-Yes 2-No (go to Block L)	K2_Loan Amount (pesos)	K3_Interest Per annum	K3_Interest Rate Per annum	K3_Interest Per cropping	K3_Interest Rate Per cropping	K4_Srce of Loan_ 1 - Cooperative	K4_Srce of Loan_ 2 - Bank	K4_Srce of Loan_3 - Microfinance / Credit Associations
1	8000.00					1		
2					2			1
1	50000.00	1		1			1	
1				1	1 7.00			
2								
1	25000.00	1	12.00			1	1	3
1	10000.00				2.00	1		
2								

1

1 • Cell color turned RED because there is missing data.

2 • Cell color turned RED because there is wrong data encoded.

3 • Cell color turned RED because only one answer is accepted.

• Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

Block L – Farmer's Participation in Tomato Programs/Projects

Illustration 85

L1_Aware of Govt Program 1-Yes 2-No	L2_Availed Benefit from Govt 1-Yes 2-No (go to Block M)
1	1
1	
1	2
2	1
2	2

- Cell color turned RED because there is wrong data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- Cell color turned RED because there is missing data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

Consistency and Accuracy Checks

Block L – Farmer's Participation in Tomato Programs/Projects

Illustration 86

L2_Availed Benefit from Govt 1-Yes 2-No (go to Block M)	L3_Type of Benefits Availed_ 1- Planting materials	L3_Type of Benefits Availed_ 2 - Fertilizer and other inputs	L3_Type of Benefits Availed_ 3 - Training on farming technology	L3_Type of Benefits Availed_ 4 - Post harvest facilities
1	1	1		
2		1	1	
2				
1				
2				

- Cell color turned RED because there is wrong data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

- Cell color turned RED because there is missing data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

Block L – Farmer's Participation in Tomato Programs/Projects

Illustration 87

L2_Availed Benefit from Govt 1-Yes 2-No (go to Block M)	L4_Used the Benefit 1-Yes 2-No (go to Block M)
1	1
2	1
1	2
2	2
2	

- Cell color turned RED because there is wrong data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color GREEN.

Block L – Farmer's Participation in Tomato Programs/Projects

Illustration 88

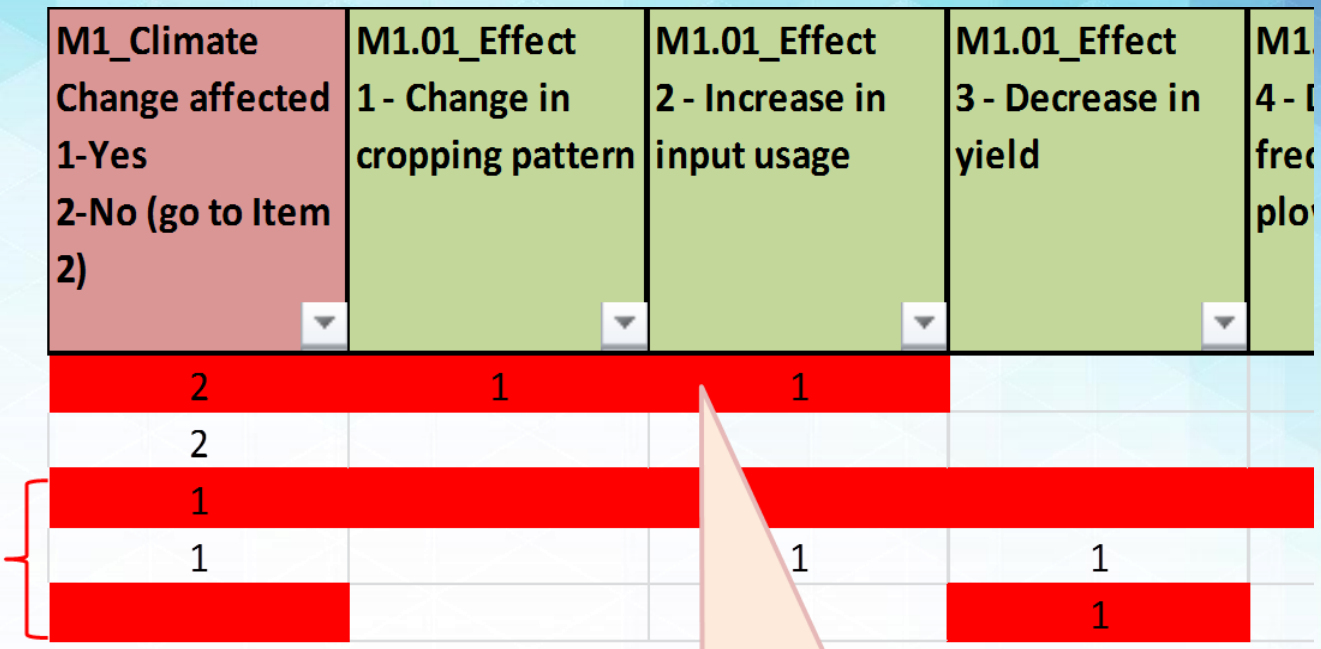
L4_Used the Benefit 1-Yes 2-No (go to Block M)	L5_Did the Benefit received Help Increase income 1-Yes 2-No
1	1
2	1
1	3
2	

- Cell color turned **RED** because there is wrong data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

Consistency and Accuracy Checks

Block M – Other Information

Illustration 89



M1_Climate Change affected 1-Yes 2-No (go to Item 2)	M1.01_Effect 1 - Change in cropping pattern	M1.01_Effect 2 - Increase in input usage	M1.01_Effect 3 - Decrease in yield	M1. 4 - D freq plo
2	1	1		
2				
1				
1		1	1	
			1	

- Cell color turned **RED** because there is missing data.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

- Cell color turned **RED** because there is wrong data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

Consistency and Accuracy Checks

Block M – Other Information

Illustration 90

M2_Member of Farmers' Organization 1-Yes 2-No (go to Block N)	M2.01_Name of the Organization	M2.02_Benefits from the Org 1 - Training / Seminars	M2.02_Benefits from the Org 2 - Financial / Credit support	M2.02_Benefits from the Org 3 - Inputs support	M2.02_Benefits from the Org 4 - Markerting support
1	MATOK SANJERA	1		1	
3					
1		1			
1	BARASAN IRRIGA	1	1	1	1
2			1		
2					

- Cell color turned **RED** because only code 1 and 2 are accepted.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

- Cell color turned **RED** because there is wrong data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

- Cell color turned **RED** because there is missing data encoded.
- Verify in the questionnaire and encode the correct data. Then, fill the corrected cell with color **GREEN**.

Consistency and Accuracy Checks

Block N – Plans and Recommendations

Illustration 91

N1_Plan_ 1 - Maintain current operation	N1_Plan_ 2 - Expansion of area	N1_Plan_ 3 - Reduction of area	N1_Plan_ 4 - Shift to other crops	N1_Plan_ 5 - Others (specify):	N1_Plan_ 5 - Others Verbatim1	N1_Plan_ 5 - Others Verbatim2
1	1					
			1			
		1				

- Cell color turned RED because only one answer is accepted.
- Encode number one (1) and fill the corrected cell with color GREEN.

- Cells color turned RED because of missing data.
- Verify in the questionnaire. Encode number one (1) for any of the plan and fill the corrected cell with color GREEN.

Review of Household Level Data on Costs and Returns

Illustration 92.1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1		Region	Province	ID	Area	Total_Prod_Qty (Kg)	Total_Prod_Qty (Kg per Hectare)	Total_Prod_Value (peso)	Total_Prod_Value Per Hectare (peso)	Total Costs (peso)	Total Costs (peso) Per Hectare	Total_ Cash Costs (peso)	Total_ Cash Costs Per Hectare (peso)	Total Non-Cash Costs (peso)	Total Non-Cash Costs Per Hectare (peso)	Total Imputed Costs (peso)	Total Imputed Costs Per Hectare (peso)	Gross Returns (peso)	Gross Returns Per Hectare (peso)	Returns above Cash Costs (peso)	Returns above Cash Costs Per Hectare (peso)
2	1	01	28	1	0.200	8,000.00	40,000.00	44,100.00	220,500.00	28,689.79	143,448.95	21,270.00	106,350.00	2,100.00	10,500.00	5,319.79	26,598.95	44,100.00	220,500.00	22,830.00	114,150.00
3	2	01	28	2	0.500	20,006.00	40,012.00	199,281.60	398,563.20	72,647.73	145,295.47	63,210.00	126,420.00			9,437.73	18,875.47	199,281.60	398,563.20	136,071.60	272,143.20
4	3	01	28	3	0.200	6,175.00	30,875.00	18,525.00	92,625.00	20,221.17	101,105.86	13,718.00	68,590.00	1,496.00	7,480.00	5,007.17	25,035.86	18,525.00	92,625.00	4,807.00	24,035.00
5	4	01	28	4	0.400	15,000.00	37,500.00	45,000.00	112,500.00	29,869.70	74,674.24	21,957.50	54,893.75			7,912.20	19,780.49	45,000.00	112,500.00	23,042.50	57,606.25
6	5	01	28	5	0.250	780.00	3,120.00	10,100.00	40,400.00	80,458.52	321,834.09	13,116.00	52,464.00			67,342.52	269,370.09	10,100.00	40,400.00	-3,016.00	-12,064.00
7	6	01	28	6	0.250	350.00	1,400.00	3,700.00	14,800.00	17,781.39	71,125.54	2,033.13	8,132.50			15,748.26	62,993.04	3,700.00	14,800.00	1,666.88	6,667.50
8	7	01	28	7	0.200	615.00	3,075.00	11,580.00	57,900.00	24,537.71	122,688.55	7,701.00	38,505.00			16,836.71	84,183.55	11,580.00	57,900.00	3,879.00	19,395.00
9	8	01	28	8	0.100	970.00	9,700.00	19,400.00	194,000.00	55,145.89	551,458.94	35,905.00	359,050.00			19,240.89	192,408.94	19,400.00	194,000.00	-16,505.00	-165,050.00
10	9	01	28	9	0.159	2,205.00	13,876.65	29,400.00	185,022.03	31,016.79	195,196.90	14,032.00	88,307.11	8,673.00	54,581.50	8,311.79	52,308.29	29,400.00	185,022.03	15,368.00	96,714.92
11	10	01	28	10	0.250	8,580.00	34,320.00	120,400.00	481,600.00	104,755.75	419,023.01	72,396.00	289,584.00			32,359.75	129,439.01	120,400.00	481,600.00	48,004.00	192,016.00
12	11	01	28	11	0.500	20,540.00	41,080.00	482,000.00	964,000.00	239,218.75	478,437.50	216,992.00	433,984.00			22,226.75	44,453.50	482,000.00	964,000.00	265,008.00	530,016.00
13	12	01	28	12	0.500	6,000.00	12,000.00	115,000.00	230,000.00	109,862.60	219,725.19	70,718.00	141,436.00			39,144.60	78,289.19	115,000.00	230,000.00	44,282.00	88,564.00

AB C1 C2 D E F G H I J K L M N **HH_SUMM** HH_CC HH_NCS HH_IC

- **After the review of household level data by block, start reviewing the household level costs and returns using the following worksheets:**
  - **HH_SUMM – consists of summary of production costs and returns by individual farmer/operator;**

Review of Household Level Data on Costs and Returns

Illustration 92.2

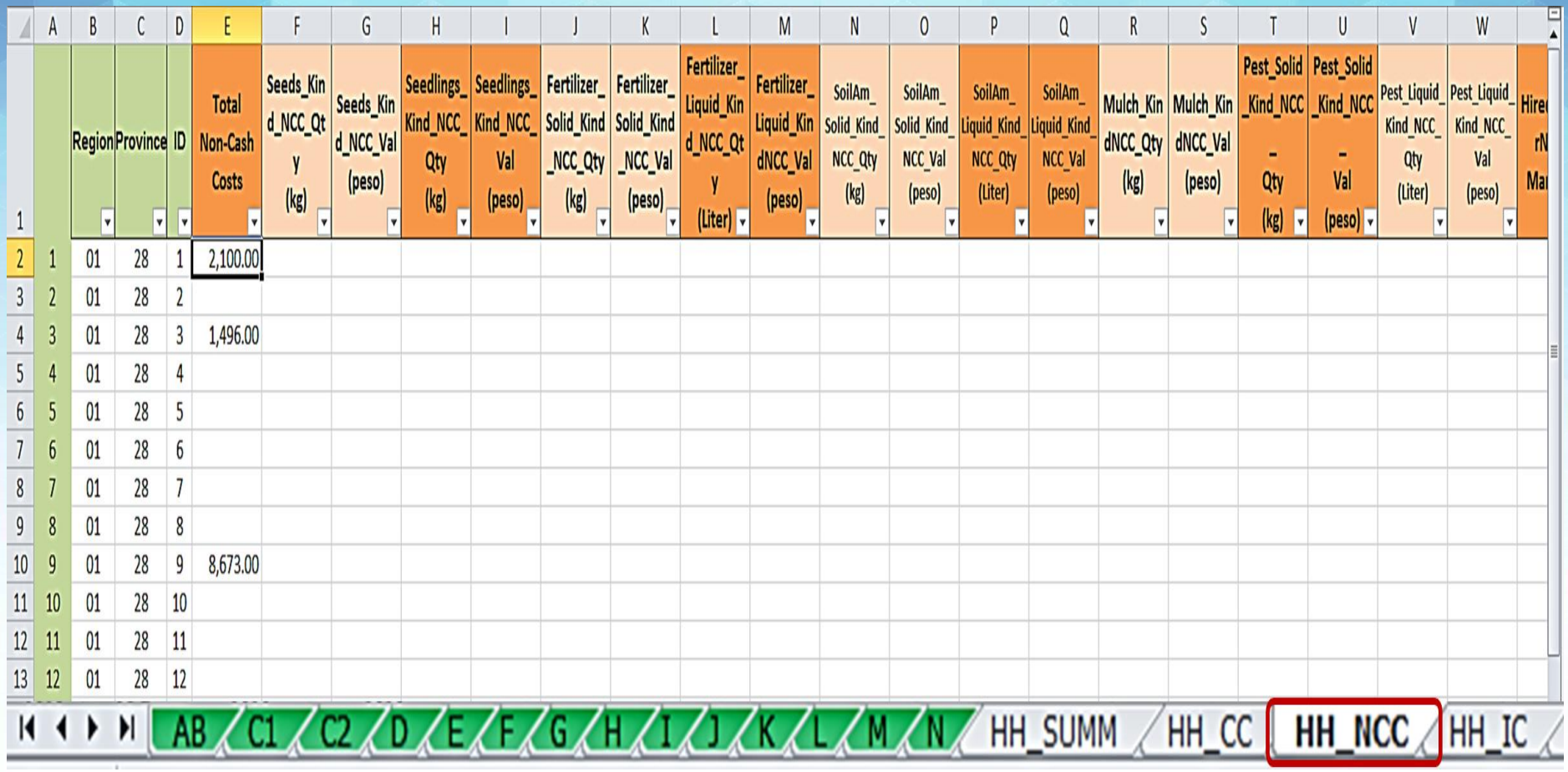
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1		Region	Province	ID	Total_Cash Costs (peso)	Seeds_CC_ Qty (kg)	Seeds_ CC_Val (peso)	Seeds_ CC_Disc_ Qty (kg)	Seeds_ CC_Disc_ Val (peso)	Seedlings_ CC_Qty (pcs)	Seedlings_ CC_Val (peso)	Seedlings_ CC_Disc_ Qty (pcs)	Seedlings_ CC_Disc_ Val (peso)	Fertilizer_ CC_Solid_ Qty (kg)	Fertilizer_ CC Solid_Val (peso)	Fertilizer_ CC_Solid_ Disc_Qty (kg)	Fertilizer_ CC_Solid_ Disc_Val (peso)	Fertilizer_ CC_Liquid_ Qty (Liter)	Fertilizer_ CC_Liquid_ Val (peso)	Fertilizer_ CC_Liquid_ Disc_Qty (Liter)	Fertilizer_ CC_Liquid_ Disc_Val (peso)	SoilAm_ CC_Solid_ Qty (kg)	SoilAm_ CC_Solid_ Val (peso)	SoilAm_ CC_Solid_ Disc_Qty (kg)	SoilAm_ CC_Solid_ Disc_Val (peso)	SoilAm_ CC_Liquid_ Qty (Liter)	SoilAm_ CC_Liqu Val (pesc
2	1	01	28	1	21,270.00	0.080	1,360.00							175.000	2,750.00												
3	2	01	28	2	63,210.00	0.200	3,400.00							350.000	6,570.00												
4	3	01	28	3	13,718.00	0.050	850.00							238.500	5,385.00												
5	4	01	28	4	21,957.50	0.100	900.00							187.500	4,412.50												
6	5	01	28	5	13,116.00	0.002	105.00							9.000	306.00												
7	6	01	28	6	2,033.13	0.006	345.00							12.516	271.88												
8	7	01	28	7	7,701.00									555.000	2,925.00												
9	8	01	28	8	35,905.00	0.040	2,160.00							190.000	1,305.00												
10	9	01	28	9	14,032.00	0.025	2,200.00							101.000	1,920.00												
11	10	01	28	10	72,396.00	0.025	2,200.00							225.000	3,825.00			1.000	1,050.00								
12	11	01	28	11	216,992.00	0.070	4,550.00							350.000	8,540.00			3.000	3,000.00								
13	12	01	28	12	70,718.00	0.025	2,300.00							100.000	2,400.00												

AB C1 C2 D E F G H I J K L M N HH_SUMM HH_CC HH_NCS HH_IC

- **HH_CC – consists of all cash costs by individual farmer/operator;**

Review of Household Level Data on Costs and Returns

Illustration 92.3



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1		Region	Province	ID	Total Non-Cash Costs	Seeds_Kind_NCC_Qty (kg)	Seeds_Kind_NCC_Val (peso)	Seedlings_Kind_NCC_Qty (kg)	Seedlings_Kind_NCC_Val (peso)	Fertilizer_Solid_Kind_NCC_Qty (kg)	Fertilizer_Solid_Kind_NCC_Val (peso)	Fertilizer_Liquid_Kind_NCC_Qty (Liter)	Fertilizer_Liquid_KindNCC_Val (peso)	SoilAm_Solid_Kind_NCC_Qty (kg)	SoilAm_Solid_Kind_NCC_Val (peso)	SoilAm_Liquid_Kind_NCC_Qty (Liter)	SoilAm_Liquid_Kind_NCC_Val (peso)	MulchKindNCC_Qty (kg)	MulchKindNCC_Val (peso)	Pest_Solid_Kind_NCC_Qty (kg)	Pest_Solid_Kind_NCC_Val (peso)	Pest_Liquid_Kind_NCC_Qty (Liter)	Pest_Liquid_Kind_NCC_Val (peso)	Hire rN Ma
2	1	01	28	1	2,100.00																		
3	2	01	28	2																			
4	3	01	28	3	1,496.00																		
5	4	01	28	4																			
6	5	01	28	5																			
7	6	01	28	6																			
8	7	01	28	7																			
9	8	01	28	8																			
10	9	01	28	9	8,673.00																		
11	10	01	28	10																			
12	11	01	28	11																			
13	12	01	28	12																			

AB C1 C2 D E F G H I J K L M N HH_SUMM HH_CC HH_NCC HH_IC

- **HH_NCC – consists of all non-cash costs by individual farmer/operator; and**

Review of Household Level Data on Costs and Returns

Illustration 92.4

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1		Region	Province	ID	Total Imputed Costs	Seeds_ Rcvd_ IC_Qty (kg)	Seeds_ Rcvd_ IC_Val (peso)	Seeds_Disc _IC_Qty (kg)	Seeds_Disc _IC_Val (peso)	Seeds_Ow n_Prod_ IC_Qty (kg)	Seeds_Ow n_Prod_ IC_Val (peso)	Seedlings_ Rcvd_ IC_Qty (kg)	Seedlings_ Rcvd_ IC_Val (peso)	Seedlings_ Disc_ IC_Qty (kg)	Seedlings_ Disc_IC_Va l (peso)	Seedlings_ Own_Prod _ IC_Qty (kg)	Seedlings_ Own_Prod _ IC_Val (peso)	Fertilizer_ Solid_Rcvd _ IC_Qty (kg)	Fertilizer_ Solid_Rcvd _ IC_Val (peso)	Fertilizer_ Solid_Disc_ IC_Qty (kg)	Fertilizer_ Solid_Disc_ IC_Val (peso)	Fertilizer_ Solid_Own_ Prod_ IC_Qty (kg)	Fertilizer_ Solid_Own_ Prod_ IC_Val (peso)	Fertilizer_ Liquid_Rcvd_ IC_Qty (Liter)	Fertilizer_ Liquid_Rcvd_ IC_Val (peso)	Fertilizer_ Liquid_Disc_ IC_Qty (Liter)	Fertilize Liquid_Di IC_Val (peso)
2	1	01	28	1	5,319.79																						
3	2	01	28	2	9,437.73													50.00	1,200.00								
4	3	01	28	3	5,007.17																						
5	4	01	28	4	7,912.20																						
6	5	01	28	5	67,342.52																						
7	6	01	28	6	15,748.26																						
8	7	01	28	7	16,836.71																						
9	8	01	28	8	19,240.89																						
10	9	01	28	9	8,311.79																						
11	10	01	28	10	32,359.75																						
12	11	01	28	11	22,226.75																	50.00	350.00				
13	12	01	28	12	39,144.60																	900.00	825.00				

AB | C1 | C2 | D | E | F | G | H | I | J | K | L | M | N | HH_SUMM | HH_CC | HH_NCS | HH_IC

- **HH_IC – consists of all imputed costs by individual farmer/operator.**

Review of Household Level Data on Costs and Returns

- To review the data, start with worksheet HH_SUMM. Filter each column and review the array (range) of data. Look for extreme values.

- Check the indicators of profitability (gross returns, returns above cash costs, etc.). Look for negative returns and check which specific cost item/s possibly contributed to the negative returns.

- Check the worksheets for HH_CC, HH_NCC and HH_IC. Look for extreme values on the individual columns of each worksheet.

Review of Household Level Data on Costs and Returns

- **It should be noted that not all negative returns are incorrect. Validate the negative results by checking other relevant data that may affect the cost of production (*ex. Material Input usage, labor efficiency, seed variety, prices, production related problems, etc.*).**

Note:

The cells of these four (4) worksheets are locked. Upon validation of the individual costs and returns, corrections or updating should be done in the concerned data items on each block (Blocks AB to N). Any corrections done in the said blocks will automatically update the values in HH_SUMM, HH_CC, HH_NCC and HH_IC.

Review of Provincial Costs and Returns Table

- **After the review and updating of household level data by block (*Blocks AB to N*) and the individual costs and returns (*HH_SUMM to HH_IC*), review the provincial costs and returns table (Prov_CRS).**

- **Compare the survey results on production per hectare with the data on yield released by the Crops Statistics Division (CSD); and**

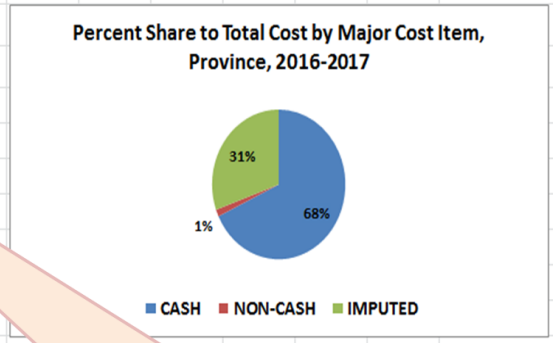
- **Compare the estimated gross returns per kilogram with the farm gate price released by the Price Statistics Division (PSD).**

Review of Provincial Costs and Returns Table

Illustration 93

Table . Average costs and returns of tomato production, Selected Provinces, 2016-2017

	Item	Per Hectare			Per Kilogram (pesos)	Checking1_Percent Share to Total Cost by Major Cost Item	Checking2_Percent Share of Specific Cost Item to Major Cost Item
		Quantity	Unit	Value			
5	Production	25,427.06	KG	313,057.25	12.31		
5	Area planted (hectare): 3.5089						
5	Number of farms : 12						
1	CASH			158,097.59	6.22	67.99	
1	Seeds Cash	0.18	KG	5,805.24	0.23		3.67
	Seeds Disccounted						
	Seedlings Cash						
	Seedlings Discounted						
1	Fertilizer Solid Cash			11,573.53	0.46		7.32
	Fertilizer Solid Discoun						
1	Fertilizer Liquid Cash			1,154.21	0.05		0.73
	Fertilizer Liquid Discou						
	Soil Solid Cash		KG				
	Soil Solid Discounted		KG				
	Soil Liquid Cash		Liter				
	Soil Liquid Discounted		Liter				
1	Mulching material Cash	0.14	KG	25.65	0.00		0.02
	Mulching material Discounted		KG				
1	Pesticides Solid Cash	11.04	KG	2,389.99	0.09		1.51
	Pesticides Solid Discounted		KG				
1	Pesticides Liquid Cash	7.27	Liter	7,310.27	0.29		4.62
	Pesticides Liquid Discounted		Liter				



Step 1

- Filter this column and unclick blanks so that only those cost items with corresponding data will appear on the screen.

Step 2

- Filter these columns to check the percent contribution to total cost of each major cost item as well as the contribution of specific cost item to either Total Cash, Total Non-Cash or Total Imputed Costs.
- Check on the pie chart to easily see the share of each type of cost.

"Alone we can do so little; together we can do so much."

Helen Keller