

2017 SURVEY ON COSTS AND RETURNS OF TOMATO PRODUCTION

PRE-TEST OF QUESTIONNAIRE

Ilocos Sur, Iloilo and Bukidnon
7-10 March, 2017



Documentation Report



REPUBLIC OF THE PHILIPPINES

PHILIPPINE STATISTICS AUTHORITY
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PREPARATORY ACTIVITIES



The conduct of the 2017 Survey on Costs and Returns (SCR) of Tomato Production was proposed last June 2016. The project was foreseen to run from July 2016 to December 2018 and it shall cover the top two tomato-producing provinces from each major island group. This includes Ilocos Norte and Ilocos Sur from Luzon; Iloilo and Cebu from Visayas and Bukidnon and Misamis Oriental from Mindanao.

The Agricultural Accounts Division (AAD) is the lead implementing unit for the conduct of the 2017 SCR of Tomato Production. From July 2016 to December 2016, the group did a research about tomato farming and assessed the previous surveys on costs and returns. Moreover, they prepared workplans, budgetary requirements and the initial questionnaire for pre-test. They also submitted a project brief to the Statistical Methodology Unit (SMU) for review.

PROJECT BRIEF	
 REPUBLIC OF THE PHILIPPINES PHILIPPINE STATISTICS AUTHORITY QUERZON CITY	
A. BASIC INFORMATION	
1. Project Title	2017 COSTS AND RETURNS OF TOMATO PRODUCTION (CRS)
2. Proponent (s)	AGRICULTURAL ACCOUNTS DIVISION (AAD) MACROECONOMIC ACCOUNTS SERVICE (MAS) SECTORAL STATISTICS OFFICE (SSO) Address: 1st FLOOR, CENTRAL EXPRESSWAY 3, EDSA cor. Quezon Avenue, Bay City, Quezon City, Philippines 1115 Tel: (632) 374-1154 Email: aad@psa.gov.ph
3. Implementing Agency	Philippine Statistics Authority
4. Project Duration	July 2016 – December 2018
5. Project Location	Selected Provinces: Philippines Luzon : Ilocos Norte and Ilocos Sur Visayas : Iloilo and Cebu Mindanao : Bukidnon and Misamis Oriental
6. Proposed Budget	Php 3,531,303.00 (2 months of data processing training) Php 3,537,203.00 (no general data processing training)
 REPUBLIC OF THE PHILIPPINES PHILIPPINE STATISTICS AUTHORITY QUERZON CITY	
B. TECHNICAL DESCRIPTION	
1. Introduction	
Tomato (<i>Lycopersicon esculentum</i> Miller) otherwise known as "tomato", is the edible and often red berry-like fruit. It is used both for direct consumption and commercial use. It can be eaten raw or as an ingredient in many dishes, soups, drinks, and mostly in salads. Tomatoes are rich sources of vitamins A and C and lycopene and contain a wide array of beneficial nutrients and antioxidants including alpha-lipoic acid, lycopene, choline, folic acid, beta-carotene and others.	
Production of tomato in the Philippines posted an average annual growth rate of 21.4 percent over the past ten (10) years from 2008 to 2015. The country produced 214,774 metric tons of tomato in 2015.	
Among vegetables, tomato is ranked as 3rd of the most important vegetable crops in the Philippines with 22.0 percent share of the total value of agricultural production in 2015. Area planted was noted at 16,165 hectares.	
Export earnings from tomato products averaged P27.21 million from 2010 to 2015. On the other hand, import expenditures increased from P699 million in 2010 to 2 billion in 2015. Majority of the country's tomato imports are tomato ketchup.	
2. Rationale	
The Philippine Statistics Authority (PSA) recognizes the importance of generating data on costs and returns of tomato production. Thus, whenever there is opportunity, PSA conducts Costs and Returns Survey (CRS). CRS data are among the highly requested information from major users such as policy analysts, national accounts compilers, farmers and other entrepreneurs in the agricultural sector. For tomato farmers, CRS data can serve as basis for the improvement of their efficiency and profitability. For both government and non-government planners and policy makers, CRS data can be used in designing appropriate programs and projects to boost the growth and development of the tomato industry.	
Other important applications of CRS data are in the financial and insurance markets. In particular, financial institutions require feasibility studies in every investment portfolio. Doing a feasibility study needs CRS data. On the other hand, CRS data can serve as solid basis in determining appropriate insurance premium rates.	
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Pages 1 & 2 of the Project Brief on 2017 SCR of Tomato Production

The SMU provided the following comments and recommendations on the Sampling Design and Estimation Procedure:

A. Comments on the Sampling Design

- Snowball is a non-probability sampling technique and is used when there is no sampling frame available.
- In non-probability sampling:
 - Samples may not be representative of the domain (province) because of sampling bias and sample size may or may not be sufficient to generate reliable estimates at the domain level, hence not safe to generalize results at the domain level and
 - Measures of precision of estimates cannot be estimated
- No estimation procedure – how are the parameters estimated by province using the survey results?

B. Recommendations

- Redesign the survey using probability sampling to minimize selection bias, to generalize results at the domain level and to estimate variances, CVs.
- Use the updated frame to select samples.
- Include estimation procedure in the sampling design.
- Conduct pilot test (simulation of the actual survey) aside from the pre-test of questionnaire to check other possible issues.
- In terms of preparation of data processing system, subject-matter division should check correctness of the developed system for encoding, consistency-checking and tabulation thru test data.

The Agricultural Accounts Division then coordinated with the Agriculture and Fisheries Census Division (AFCD) and inquired if the 2012 Census on Agriculture and Fisheries (CAF) can generate a list of tomato farmers in the country that can be used as sampling frame. However, the said data cannot be generated. Moreover, tomato is cash crop which is volatile to price movements. Hence, those who cultivated tomato five years ago may have shifted to other crops already especially if they no longer profit from planting it.

In the absence of a census frame, the lead unit decided to adopt the previous methodologies for the costs and returns of other crops. The six (6) Provincial Statistics Offices (PSOs) shall generate a list of top tomato producing barangays taking into account the area cultivated, number of farms/farmers and volume of production in 2016. From the list of sample barangays, snowball sampling will be used with target number of sample tomato farmers at 75 per province.

For the estimation procedures, the **average costs and returns** will be computed on per hectare and per kilogram of production. The measures are computed as follows:

$$\text{Per Hectare} = \frac{\text{Total value of input (output)}}{\text{Total Harvest Area}}$$

$$\text{Per Kilogram} = \frac{\text{Total value of input (output)}}{\text{Total Production in Kilogram}}$$

Additionally, the indicators of profitability are derived using the following computational procedures:

$$\text{Gross Returns} = \text{Production} \times \text{Farmgate Price}$$

$$\text{Returns Above Cash Costs} = \text{Gross Returns} - \text{Cash Costs}$$

$$\text{Returns Above Cash and Non-Cash Costs} = \text{Gross Returns} - (\text{Cash Costs} + \text{Non-Cash Costs})$$

$$\text{Net Returns} = \text{Gross Returns} - \text{Total Costs}$$

$$\text{Net Profit-Cost Ratio} = \text{Net Return} \div \text{Total Costs}$$

$$\text{Cost per kilogram} = \text{Total Costs} \div \text{Total production}$$

On 7-10 March 2017, the pre-test of questionnaire was done in three sites namely: (1) Ilocos Sur; (2) Iloilo and (3) Bukidnon. For each province, three (3) Central Office staff and about 3 to 4 PSO staff conducted the pre-test using the 11-page questionnaire. The detailed activities and guidelines for the pre-test were as follows:

Date	Activities:
7 March 2017	Travel + briefing of PSO staff *Background on SCR of Tomato *Pre-test requirements *Inquire the feasibility of listing activity *Reference periods and timing of data collection
8 March 2017	field work (pre-test for 5 samples)
9 March 2017	field work (pre-test for 5 samples) + clearing of issues
10 March 2017	Travel back to CO

PRE-TEST OF QUESTIONNAIRE Guidelines

- Qualify the samples using the selection criteria (part of the QRES)
- Record length of interview per sample
- Observe manner of asking questions and probing techniques
- Identify specific problem areas:
 - Difficulty to comprehend/understand the question
 - Difficulty to recall
 - Difficulty to record information
 - None-response
- Observe/identify common practice in the locality
 - Is tomato usually intercropped with other commodity? If so, can the farmers allocate the costs accordingly?
 - What is the extent of contract labor in tomato farming?
 - What is the usual mode of financing for contract growers?
- Recommend ways on how to improve the questionnaire and the data collection process in general



PRE-TEST OBJECTIVES



The main objective of the pre-test is to evaluate the effectivity and efficiency of the questionnaire for the 2017 SCR Tomato Production before coming up with the final survey instrument. Specifically, it aims to check for problems in wording of questions, clarity of instructions and anything that could impede the instrument's ability to collect data in an economical and systematic fashion.

In addition, the activity served as an avenue to establish the methodologies and finalize the reference periods as well as the most feasible dates of data collection.



PRE-TEST DETAILS



Prior to the date of the pre-test, the Agricultural Accounts Division (AAD) had coordinated with the PSOs and asked them to identify tomato producing barangays where the activity will be conducted. Each pre-test site covered at least two (2) barangays and around 2 to 3 sample farmers per barangay. The survey protocols were followed wherein the CO and PSO staff (*acting as enumerators*) went to the Office of Barangay Captain and informed the barangay officials of the activity and its purpose.

Following are the location, number of samples covered and average length of interview:

LOCATION	NUMBER OF SAMPLES COVERED	AVERAGE LENGTH OF INTERVIEW
Ilocos Sur <ul style="list-style-type: none"> Barangay Tay-Ac, Bantay Barangay Orence, Narvacan 	<ul style="list-style-type: none"> 5 samples 5 samples 	<ul style="list-style-type: none"> 1 hour and 6 minutes 1 hour
Iloilo <ul style="list-style-type: none"> Barangay Lang-og, Leon Barangay Lanag, Leon Barangay Barasan, Leon 	<ul style="list-style-type: none"> 2 samples 3 samples 5 samples 	<ul style="list-style-type: none"> 2 hours 2 hours 1 hour and 30 minutes
Bukidnon <ul style="list-style-type: none"> Barangay Kibangay, Lantapan Barangay Sonco, Lantapan 	<ul style="list-style-type: none"> 3 samples 5 samples 	} <ul style="list-style-type: none"> 1 hour to 1 hour and 45 minutes

It was observed that the length of interview depends on the enumerator's ability to ask the questions and properly record the responses. Moreover, the interview time is influenced by the farmer's ability to comprehend the questions, memory recall, the number of investments and inputs used in tomato farm and differences in dialects. Given the complexities of the data items for costs and returns, the minimum time of interview per farmer is expected to be one (1) hour. While there are farmers who are very much willing to participate in the survey, some may find it very long to accomplish thus, affecting their willingness to respond.

It should be noted that farmers can be very busy in their farms. The timing of the interview and enumerator's rapport with the respondents and probing skills are essential to the success of the data collection.

Overall, the pre-tests in the three (3) provinces went smoothly. The C.O. staffs were grateful for the support of the PSOs and the cooperation of the sample farmers. There were significant insights on how to improve the questionnaire and the data collection.

ISSUES/CONCERNS AND RESOLUTIONS

On 14-17 March, AAD held a debriefing on the pre-test of questionnaire at the PSA meeting rooms in Centris 3. The team discussed the issues/concerns encountered in the activity and the resolutions made. They also worked on finalizing the questionnaire based on the comments and suggestions on how to improve the instrument. Listed below are the issues/concerns and the corresponding resolutions:

A. Frame Development and Sampling Procedure

ISSUES/CONCERNS	RESOLUTIONS
There is no sampling frame. Will a listing of tomato farmers be feasible considering time and budget?	<p>Listing is not necessary since tomato farming can easily be replaced by another crop if the farmers feel that tomato production is not profitable. Moreover, a listing activity that is specific to tomato might entail longer time to complete and a higher budget as well.</p> <p>Snowball approach is deemed acceptable. It is suggested since the survey is after very specific characteristics of tomato farm.</p>

B. Concepts and Questionnaire

B.1 – Screening Questions

SCREENING QUESTIONS >> Go to instructions	
<p>1. Are you engaged in tomato farming?</p> <p><input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (end the interview)</p> <p>2. Did you harvest tomato at any time within JULY 2016 to JUNE 2017?</p> <p><input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (end the interview)</p> <p>3. Was your harvest/produce intended for sale?</p> <p><input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (end the interview)</p> <p>4. Was your harvest intercropped with other temporary crops?</p> <p><input type="checkbox"/> YES (end the interview) <input type="checkbox"/> NO (continue next question)</p>	<p>5. Was 20% or more of your harvest damaged by flood, drought, pests and diseases, etc.?</p> <p><input type="checkbox"/> YES (end the interview) <input type="checkbox"/> NO (continue next question)</p> <p>6. Are you a contract grower?</p> <p><input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (proceed to the next page)</p> <p>6.1 What was the mode of financing?</p> <p><input type="checkbox"/> - in cash (proceed to the next page)</p> <p><input type="checkbox"/> - in kind (end the interview)</p> <p><input type="checkbox"/> - both in cash and in kind (end the interview)</p>

ISSUES/CONCERNS	RESOLUTIONS
<p>On Question 2:</p> <ul style="list-style-type: none"> How do we define reference period? Is it only pertaining to harvesting? What about planting period? Can we rephrase the question into: did you plant and harvest tomato during the reference period? 	<p>Originally, the reference period for the survey pertains to the production for the last completed harvest. The first stages of cultivation (e.g. land preparation, planting crop management, etc.) may fall outside the said period.</p> <p>It is suggested to define the reference period from planting to harvesting. That way, recall on the inputs will be easier for the sample farmer. Hence, rephrase screening question number 2.</p>
<p>On Question 4:</p> <ul style="list-style-type: none"> Will the potential sample farmer be considered in case the tomato was intercropped with a permanent crop (e.g. coconut)? In Iloilo, intercropping of tomato with other crops like eggplant is relatively a common practice. Likewise, in Bukidnon, tomato farmers also have other crops (e.g. bell pepper, lettuce, etc.) planted within the parcel. If we disqualify those with intercropping/ mixed cropping, it might be difficult to complete the desired number of samples. 	<p>Yes, a farmer can be considered sample even if his/her tomato farm is intercropped with permanent crops. These crops do not usually require extensive use of inputs. Moreover, it is likely that these crops are planted within the boundaries (e.g. "pilapil") and not side by side with tomato farm plots.</p> <p>As much as possible we exclude tomato farms that is intercropped with other temporary crops since proper allocation of costs for the inputs used would be very difficult considering that data collection is based on recall basis.</p>
<p>On Question 5:</p> <ul style="list-style-type: none"> In Bukidnon, there are tomato farmers who did not totally exhaust their harvesting (e.g. <i>harvested 7 out of 12 times only</i>) due to the foreseen drop in prices of tomato produce. It is not damaged but the farmer's income is expected to be lower than the normal condition and might affect the average costs and returns of the province. Will we consider these farmers in the survey? 	<p>Yes, we will still consider them as samples for the survey. They have incurred costs and gained income as well during the reference period. This scenario will be supported by their responses in Blocks I and J of the Questionnaire which inquire about production and marketing related information. Although the expected returns will be lower than usual, the information will still be very useful for policy and program planners.</p>
<p>On Question 6:</p> <ul style="list-style-type: none"> In Ilocos Sur, there were tomato farmers who were contract growers but at the same time operate a self-financed farm. Can they be qualified for the survey? 	<p>Yes, as long as the information that they will give pertain only to the self-financed tomato farm. It was suggested to add another qualifying box (YES, but with self-financed farm – proceed to the next page) to differentiate them from purely contract growers with cash as mode of financing. That way, the data collected can also be easily validated.</p>

B.2 – Block A. Geographic Location

A. GEOGRAPHIC INFORMATION	
1. Region :	<input type="text"/>
2. Province :	<input type="text"/>
3. City/Municipality :	<input type="text"/>
4. Barangay :	<input type="text"/>

ISSUES/CONCERNS	RESOLUTIONS
<ul style="list-style-type: none"> Clarifications were raised whether geographic location refers to the residential address of the sample tomato farmer or the address where the tomato farm is located? There are instances where the residence of the farmer is outside the sample barangay but within the municipality. 	<p>The geographic information should refer to the location of the farm. For purposes of locating the sample farmer especially in cases where call back is necessary, include a question in Block B for the residential address of the sample farmer.</p> <p>It was also suggested to change Block A title to FARM LOCATION.</p>

B.3 – Block B. Sample Identification

B. SAMPLE IDENTIFICATION	
SAMPLE FARMER I.D. <input type="text"/>	
1. Name of sample farmer/operator: _____	
LAST NAME	FIRST NAME M.I.
2. Age (as of last birthday): _____ years old	
3. Sex (encircle code): 1 - Male 2 - Female	
4. Level of education completed: _____ <input type="text"/>	
5. Main occupation: _____ <input type="text"/>	
(gainful work or activity that provides the major source of income)	
6. Number of years engaged in Tomato farming (as operator): _____	
7. Name of respondent: _____	
8. Respondent's classification (encircle code):	
1 - Household head and farm operator	
2 - Farm operator other than household head	
3 - Household head but not farm operator	
4 - Other knowledgeable household member	
9. Contact number: _____	

ISSUES/CONCERNS	RESOLUTIONS
<p>On item 1:</p> <ul style="list-style-type: none"> In Iloilo, there were more than two (2) operators/farmers cultivating the tomato farm. Each have their own investment items used in the farm parcel while costs of inputs were financed by another person whom they give a share after the production period. The operators also divide the profit among themselves. <p>In that case, whose information should be recorded under item 1 of block B and how should we treat their profiles as well as their investment items and other cost items? This will entail difficulty on the part of the enumerator considering that he/she needs to interview all the operators to gather all information correctly.</p>	<p>At first, it was suggested to re-structure the questionnaire in such a way that the profile of each farmer/operator for the group-operated farms can be gathered thus, properly profiling the sample farmers/operators. However, during the course of editing the questionnaire, it was observed that allocation of costs will be very difficult since it is possible that only one of the farmers may be available for the time of interview. Should the data collector proceeds with locating all the farmers/operators for interview, a higher enumeration fee is expected.</p> <p>Thus, the team decided to exclude group-operated farms from the sample selection. A screening question was included in the first page of the questionnaire (<i>Is the tomato farm group-operated? If Yes, end the interview.</i>).</p>

ISSUES/CONCERNS	RESOLUTIONS
<p>On item 8:</p> <ul style="list-style-type: none"> Since the survey is not household base, can we delete the choices/options and simply accept the answer of the respondent? 	Noted.

B.4 – Block C. Basic Characteristics of the Farm

C. BASIC CHARACTERISTICS OF THE FARM																																			
<p>1. How many farm parcels did you operate? _____</p> <p>2. What was the total physical area? _____ ha.</p> <p>3. Of the total farm parcels, how many were planted to tomato? _____</p> <table border="1"> <thead> <tr> <th>3.1 Parcel (Encircle the focus parcel *)</th> <th>3.2 Physical Area (indicate the physical area in hectare)</th> </tr> </thead> <tbody> <tr><td>1</td><td>_____</td></tr> <tr><td>2</td><td>_____</td></tr> <tr><td>3</td><td>_____</td></tr> <tr><td>4</td><td>_____</td></tr> <tr><td>5</td><td>_____</td></tr> <tr><td>6</td><td>_____</td></tr> <tr><td>7</td><td>_____</td></tr> <tr><td>8</td><td>_____</td></tr> <tr><td>9</td><td>_____</td></tr> <tr><td>10</td><td>_____</td></tr> <tr><td>11</td><td>_____</td></tr> <tr><td>12</td><td>_____</td></tr> <tr><td>13</td><td>_____</td></tr> <tr><td>14</td><td>_____</td></tr> <tr><td>15</td><td>_____</td></tr> <tr><td>Total Area</td><td>_____</td></tr> </tbody> </table> <p><i>*with the latest completed harvest</i></p> <p>For focus parcel only:</p> <p>4. What is the tenurial status (specify code)? <input type="checkbox"/> if code 8, specify the tenurial status: _____</p>	3.1 Parcel (Encircle the focus parcel *)	3.2 Physical Area (indicate the physical area in hectare)	1	_____	2	_____	3	_____	4	_____	5	_____	6	_____	7	_____	8	_____	9	_____	10	_____	11	_____	12	_____	13	_____	14	_____	15	_____	Total Area	_____	<p>For focus parcel only:</p> <p>5. How many cropping per year? _____</p> <p>6. How many months per cropping? _____</p> <p>7. What was the area planted? _____ ha.</p> <p>8. What was the area harvested? _____ ha.</p> <p>9. What month and year was it last planted? _____</p> <p>10. What month and year was it last harvested? _____</p> <p>11. How many times did you harvest in the focus parcel? _____</p> <p>12. What was the variety of tomato planted? (encircle code/s) 1 - Bush 2 - Vine</p> <p>13. What was the name of seeds planted? (encircle code/s) 1 - Diamante 2 - Fortune King 3 - Apollo 4 - Del Monte 5 - Season Red 6 - Ilocos Red 7 - Rojita 8 - Escudero 9 - Grace 10 - Others (specify): _____</p> <p>14. What was the main use of tomato produce? (encircle code) 1 - for direct consumption 2 - for processing</p> <p>15. Who/What was/were the source/s of planting materials? (encircle code/s) 1 - DARFO 4 - Co-Farmer 2 - LGU 5 - Own produced 3 - Cooperative 6 - Others (specify): _____</p>
3.1 Parcel (Encircle the focus parcel *)	3.2 Physical Area (indicate the physical area in hectare)																																		
1	_____																																		
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ISSUES/CONCERNS	RESOLUTIONS
<p>On items 1 to 3:</p> <ul style="list-style-type: none"> Tomatoes are usually planted in a plot which is part of the parcel. In that case do we get physical area of the plot/s or physical area of the parcel? In line with that, the area of other crops and structures in the tomato farm is not included in the questionnaire. The said information are important for the proper allocation of costs especially in the percentage of use of investment items. 	<p>Get the physical area of the farm parcel. The questionnaire will be revised in such a way that area planted to tomato, area planted to other crops and area of other structures within the parcel are gathered. That way, validation of costs using the area as allocation key is possible. (See revised Questionnaire in Annex 1).</p>
<p>On item 13:</p> <ul style="list-style-type: none"> Some farmers do not know the name/variety of tomato seeds planted. Others identified <i>Diamante</i> and <i>Haravast</i> as the most common seeds planted. 	<p>Specify the common seeds planted in the questionnaire. It was suggested to include pictures of tomato varieties in the manual for easy reference.</p>

ISSUES/CONCERNS	RESOLUTIONS
<p>On item 14:</p> <ul style="list-style-type: none"> Tomato farmers are usually unaware of where their tomato produce would end up since the agent handles the marketing transactions. They do not know whether the produce will be sold for direct consumers/households or for processing. 	<p>It was suggested to delete the question. It will not be a good indicator for SUA considering possible inaccuracy in the responses of sample farmers.</p>
<p>On item 15:</p> <ul style="list-style-type: none"> There is no agricultural supply store in the choices. This is a common source of planting materials in the provinces. 	<p>Spelled-out agricultural supply store in the choices.</p>
<p>Cropping pattern:</p> <ul style="list-style-type: none"> The cropping pattern should also be captured in the questionnaire. This would give a more accurate estimate of the number of croppings needed to derive the depreciation of investment items used in the focus parcel. 	<p>Noted. The question will be included in the final questionnaire. (See revised Questionnaire in Annex 1).</p>


B.5 – Block D. Farm Investments (owned and used in the focus parcel)

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D. FARM INVESTMENTS (owned and used in the focus parcel)							
Item	How many units were used? (Area / Number)	What is the horsepower of the machine engine?	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)	What was its percentage of use in the focus parcel?
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Farm land owned (hectare)	• _____			• ____	• ____		
2. Work animals							
2.01 Carabao				• ____	• ____		• ____
2.02 Cattle				• ____	• ____		• ____
2.03 Horse				• ____	• ____		• ____
3. Farm buildings and other structures							
3.01 Farm house				• ____	• ____		• ____
3.02 Warehouse / Storage				• ____	• ____		• ____
3.03 Others (specify): _____				• ____	• ____		• ____
_____				• ____	• ____		• ____
_____				• ____	• ____		• ____
4. Farm machinery and transport facilities							
4.01 Two-wheel tractor				• ____	• ____		• ____
4.02 Four-wheel tractor				• ____	• ____		• ____
4.03 Irrigation pump				• ____	• ____		• ____
4.05 Mechanical weeder				• ____	• ____		• ____
4.06 Farm vehicles				• ____	• ____		• ____
4.07 Trailer				• ____	• ____		• ____
4.08 Others (specify): _____				• ____	• ____		• ____
_____				• ____	• ____		• ____
_____				• ____	• ____		• ____
_____				• ____	• ____		• ____

D. FARM INVESTMENTS (owned and used in focus parcel)						
Item	How many units were used? (Number)	What year was it acquired?	How much was the cost of acquisition? (Pesos)	How much was spent for minor repair? (Pesos)	How many more years will it be useful / serviceable? (from the date of interview)	What was its percentage of use in the focus parcel?
(1)	(2)	(3)	(4)	(5)	(6)	(7)
5. Farm tools and implements						
5.01 Plow (araro)			• ____	• ____		• ____
5.02 Harrow (suyod)			• ____	• ____		• ____
5.03 Shovel/Spade (pala)			• ____	• ____		• ____
5.04 Hand Trowel/Soil scooper (dulos)			• ____	• ____		• ____
5.05 Hoe (asarol)			• ____	• ____		• ____
5.06 Spading fork (tinidor)			• ____	• ____		• ____
5.07 Post hole digger (panghukay)			• ____	• ____		• ____
5.08 Yoke (singkaw)			• ____	• ____		• ____
5.09 Rake (kalaykay)			• ____	• ____		• ____
5.10 Wheelbarrow (kareta)			• ____	• ____		• ____
5.11 Seedling tray			• ____	• ____		• ____
5.12 Garden Hose			• ____	• ____		• ____
5.13 Watering Can / Pail			• ____	• ____		• ____
5.14 Water Sprinkler			• ____	• ____		• ____
5.15 Sprayer (pambomba)			• ____	• ____		• ____
5.16 Bolo (itak)			• ____	• ____		• ____
5.17 Hedge/Grass trimmer (pangdamo)			• ____	• ____		• ____
5.18 Pruning shears/scissors			• ____	• ____		• ____
5.19 Cart / Sled (paragos)			• ____	• ____		• ____
5.20 Basket / Kaing			• ____	• ____		• ____
5.21 Crate			• ____	• ____		• ____
5.22 Weighing Scale (timbang)			• ____	• ____		• ____
5.23 Drip tubes			• ____	• ____		• ____
5.24 Others (specify):			• ____	• ____		• ____
_____			• ____	• ____		• ____

ISSUES/CONCERNS	RESOLUTIONS
<p><i>Block title:</i></p> <ul style="list-style-type: none"> Can we include the reference period in title of the Block for easy reminder to the SRs? 	Noted. This will also be applied in Blocks E to H.
<p><i>Column 1, Item 4 – Farm machinery and transport facilities:</i></p> <ul style="list-style-type: none"> Farmers are more familiar with the term Hand Tractor instead of Two-wheel Tractor. The term irrigation is not usually used for tomato farms thus; irrigation pump should be changed to water pump. Tomato farmers do not use mechanical weeders since it could damage the plant. It was recommended to delete the item from the list. 	Noted.
<p><i>Column 1, Item 5 – Farm tools and implements:</i></p> <ul style="list-style-type: none"> There are items which are not commonly used (e.g. wheelbarrow and grass trimmer) and may be deleted from the list. However, there are more common items like seedling tray/ seedbox, hose, sickle/scythe, drum, wood stakes, plastic/nylon twine and sorting table that should be spelled-out in the questionnaire. 	Noted.

ISSUES/CONCERNS	RESOLUTIONS
<p><i>Column 1, Item 5 – Farm tools and implements:</i></p> <ul style="list-style-type: none"> • Pail should be separated from watering can since it is not used for watering the plant. Rather, it is used as containers of produce during harvesting. • For Garden Hose, simply put Hose since there are also pressurized hose being used by the farmers. 	 <p>Noted.</p>
<p><i>Column 3 – Horsepower:</i></p> <ul style="list-style-type: none"> • Most of the farmers do not know the horsepower of the farm machines used in the focus parcel. Can we delete it from the questionnaire? 	<p>This is intended to serve as indicator of the acquisition cost of the machine and may be useful during validation? However, if the farmers cannot provide answers, we can delete the question so as to ease the response burden.</p>
<p><i>Column 7 – Percentage of Use</i></p> <ul style="list-style-type: none"> • Farmers tend to give inaccurate answers. Area, as the main allocation key is usually disregarded in the estimation of percent of use. It needs deeper probing. 	<p>The information cannot be easily derived from the farmers. The enumerators should carefully explain why this information is needed (for the computation of depreciation) and must be taught of probing techniques as well as making the necessary side-notes. Later on, editors should look out on the allocation keys which can be found in Block C.</p> <p>Additional questions that may be used for validating the answers will be added in the questionnaire. The questions are answerable by YES or NO (See revised Questionnaire in Annex 1).</p>

B.6 – Block E. Material Inputs (owned and used in the focus parcel)

E. MATERIAL INPUTS (used in focus parcel)								
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	-		-				-	-
1.02 Seedlings		PIECES					-	-
2. Organic Fertilizer								
2.01 Compost	-		-	-			-	-
2.02 Fermented Plant Juice (FPJ)	-			-			-	-
2.03 Fermented Fruit Juice (FFJ)	-						-	-
2.04 Fish Amino Acid (FAA)	-			-			-	-
2.05 Others (Specify product name and N - P - K):								
	-		-	-			-	-
	-		-	-			-	-
3. Inorganic Fertilizer								
3.01 Urea (45-0-0)	-		-				-	-
3.02 Urea (46-0-0)	-		-				-	-
3.03 Ammonium Sulfate (21-0-0)	-						-	-
3.04 Ammonium Phosphate (16-20-0)	-						-	-
3.05 Complete (12-12-12)	-		-				-	-
3.06 Complete (14-14-14)	-		-				-	-
3.07 Complete (16-16-16)	-		-				-	-
3.08 Zinc Sulfate (Zinc 21%)	-						-	-
3.09 Muriate of Potash (0-0-60)	-		-				-	-
3.10 Others (Specify product name and N - P - K):								
	-		-	-			-	-
	-		-	-			-	-

CODES FOR COLUMN 6:		
Purchased	Produced	Received
1.1 - self financed (paid in cash)	2.1 - Own Produced	3.1 - from government (LGU, DARFO, etc.)
1.2 - self financed (paid in kind)		3.2 - from private individual/organization (Trader, Co - Farmer, Coop., etc.)
1.3 - discounted		

E. MATERIAL INPUTS (used in focus parcel)								
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)
4. Soil Ameliorants (specify):								
	-		-	-			-	-
	-		-	-			-	-
5. Mulching Materials (specify):								
	-		-	-			-	-
	-		-	-			-	-
6. Pesticides (specify product name):								
6.1 Herbicides / Weedicides								
	-		-	-			-	-
	-		-	-			-	-
6.2 Insecticides								
	-		-	-			-	-
	-		-	-			-	-
6.3 Fungicides								
	-		-	-			-	-
	-		-	-			-	-
6.4 Rodenticides								
	-		-	-			-	-
	-		-	-			-	-
6.5 Organic Pesticides (specify product name):								
	-		-	-			-	-
	-		-	-			-	-
	-		-	-			-	-

CODES FOR COLUMN 6:		
Purchased	Produced	Received
1.1 - self financed (paid in cash)	2.1 - Own Produced	3.1 - from government (LGU, DARFO, etc.)
1.2 - self financed (paid in kind)		3.2 - from private individual/organization (Trader, Co - Farmer, Coop., etc.)
1.3 - discounted		

ISSUES/CONCERNS	RESOLUTIONS
<p>Column 1, Items 2 and 3 – Organic and Inorganic Fertilizers:</p> <ul style="list-style-type: none"> Farmers are not familiar with the NPK content of fertilizers. The farmers usually give the brand names of fertilizers. For those that are not specified in the questionnaire, they cannot identify whether the fertilizer is organic or inorganic. In Bukidnon, the farmers were more familiar with vermicast and crop giant. 	<p>It was suggested to accept missing NPK especially for organic fertilizers since the farmers cannot really identify it.</p> <p>It was suggested to simply put <i>Fertilizer</i> as the item instead of separating them further into organic and inorganic.</p> <p>It was suggested to specify these items under fertilizers.</p>
<p>Column 1, Item 4 - Soil Ameliorants:</p> <ul style="list-style-type: none"> There are no specified soil ameliorants. 	<p>It was suggested to specify Lime (apog). This was commonly used by the farmers.</p>

ISSUES/CONCERNS	RESOLUTIONS
<p><i>Column 1, Item 5 - Mulching Materials:</i></p> <ul style="list-style-type: none"> There are no specified mulching materials. 	<p>It was suggested to specify Rice Hay (dayami) as this was commonly used by the farmers.</p>
<p><i>Column 1, Item 6 - Pesticides:</i></p> <ul style="list-style-type: none"> Rodenticides are not being used in tomato farms since rats do not eat tomato due to its acidity. It is not necessary to specify it under Pesticides. Fungicides and insecticides are commonly used. The allotted spaces/rows in the questionnaire may not be sufficient. For easy recall, can we have a list of names of pesticides as reference of enumerators during data collection? 	<p>Noted.</p> <p>It was suggested to have additional spaces/rows under these items.</p> <p>Noted. The list will be included in the field operations manual.</p>
<p><i>Column 6 - Codes for the Mode of Acquisition:</i></p> <ul style="list-style-type: none"> The codes are in decimal form. Recording as well as its processing is prone to error. 	<p>It was suggested to change the codes to whole number for easier recording and processing.</p>

B.7 – Block F. Material Inputs (owned and used in the focus parcel)

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F. LABOR INPUTS (in focus parcel)														
Farm Activity	Operator Labor		Family Labor			Exchange Labor			How much was the prevailing wage rate per day in the locality? (Pesos)	Hired Labor				
	How many days were spent?	How many hours per day were spent?	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 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 Seedbed preparation	
1.02 Sowing of seeds	
1.03 Pricking	
1.04 Hardening	
2. Land preparation														
2.01 Plowing (man-animal)	
2.02 Plowing (man-machine, 2-wheel)	
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)	
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 Bed formation/plotting	
2.13 Liming / Application of soil ameliorants	
2.14 Fertilizer Application (basal)	
3. Hauling of planting materials	
4. Planting / Transplanting	
5. Replanting	

Note: Col. 10 - For all activities performed by unpaid labor (operator, family and exchange), ask for the prevailing wage rate in the locality.

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F. LABOR INPUTS (in focus parcel)														
Farm Activity	Operator Labor		Family Labor			Exchange Labor			How much was the prevailing wage rate per day in the locality? (Pesos)	Hired Labor				
	How many days were spent?	How many hours per day were spent?	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 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)
6. Care of crops														
6.01 Trellising / Staking														
6.02 Fertilizer application (side dressing)														
6.03 Fertilizer application (top dressing)														
6.04 Weeding (man)														
6.05 Weeding (man-machine)														
6.06 Chemical application/Spraying														
6.07 Off-barring														
6.08 Hilling-up														
6.09 Manual Watering														
6.10 Furrow Irrigation														
6.11 Mulching														
6.12 Pruning														
7. Harvesting														
8.01 Hauling of produce (man)														
8.02 Hauling of produce (man-animal)														
8.03 Hauling of produce (man-machine)														
9. Sorting														
10. Washing														
11. Bagging/Packing														
12. Others (specify):														
13. Contract Labor (specify the farm activities included per contract):														

Note: Col. 10 - For all activities performed by unpaid labor (operator, family and exchange), ask for the prevailing wage rate in the locality.

ISSUES/CONCERNS	RESOLUTIONS
<p>Column I - Seedling Preparation:</p> <ul style="list-style-type: none"> Some of the activities undertaken by the tomato farmers were still not specified under seedling preparation which affected proper recording of the data. 	<p>It was suggested to include plowing of seedbed, fertilizer application (basal) and chemical application under this main activity.</p>
<p>Column I - Care of Crops:</p> <ul style="list-style-type: none"> In Bukidnon, tying of vines/stems to wood stakes/trellises is being practiced. Mechanical weeders are not being used in tomato farms. Is it ok to delete the term "Manual" under Item 6.09 to generalize watering activity? In Bukidnon, the farmers are more familiar with thinning of the plant rather than the term pruning. Likewise, inclusion of Farm Monitoring under care of crops was suggested in Bukidnon since it was the usual practice in the province. 	<p>It was suggested to also include the term Tying in Item 6.01.</p> <p>It was suggested to remove Item 6.05 Weeding (man-machine).</p> <p>Yes.</p> <p>It was suggested to include the term in Item 6.12.</p> <p>Noted.</p>
<p>Column I - Harvesting, Hauling and Sorting</p> <ul style="list-style-type: none"> Harvesting of tomatoes is usually done in a staggered manner. For each time, the number of hired labor and wages vary. If we simply get the average number of labor and wage, the data will be underestimated. The same is true for hauling and sorting as these activities come hand-in-hand with harvesting. 	<p>The questionnaire will be revised based on the suggestion to put additional rows/spaces to indicate each harvesting, hauling and sorting time. In Bukidnon, the maximum number of times they harvest tomato is 12.</p>

ISSUES/CONCERNS	RESOLUTIONS
<p><i>Column I - Washing and Bagging/Packing</i></p> <ul style="list-style-type: none"> These activities were not encountered in any of the provinces. It may not be a common practice. Can we delete it from the list to save spaces/rows for other farm activities? 	Yes.
<p><i>Column I – Contract Labor</i></p> <ul style="list-style-type: none"> There are many types of contracted labor for tomato farming. There are insufficient spaces/rows in the questionnaire. 	The questionnaire will be revised in such a way that additional spaces/rows for contract labor will be put.

B.8 – Block G. Other Production Costs (in focus parcel)

G. OTHER PRODUCTION COSTS (in focus parcel)								
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)	₪__	₪__						
2. Caretaker/overseer's share/wages (per cropping)	₪__			₪__		₪__	₪__	₪__
3. Other permanent employee's salary (monthly)	₪__			₪__		₪__	₪__	₪__
4. Lease / Rentals of:								
4.01 Land (annual)	₪__	₪__		₪__		₪__	₪__	₪__
4.02 Machine (per cropping)	₪__	₪__		₪__		₪__	₪__	₪__
4.03 Animals (per cropping)	₪__	₪__		₪__		₪__	₪__	₪__
4.04 Tools and equipment (per cropping)	₪__	₪__		₪__		₪__	₪__	₪__
5. Rental value of owned land (annual)		₪__						
6. Fuel (quantity: _____ liter/s, per cropping)	₪__	₪__		₪__		₪__	₪__	₪__
7. Oil (quantity: _____ liter/s, per cropping)	₪__	₪__		₪__		₪__	₪__	₪__
8. Transport cost of inputs (per cropping)	₪__	₪__		₪__		₪__	₪__	₪__
9. Interest payment on crop loan (per cropping)	₪__			₪__		₪__	₪__	₪__
10. Storage cost (per cropping)	₪__	₪__		₪__		₪__	₪__	₪__
11. Water expense (per cropping)	₪__							
12. Electricity cost (monthly)	₪__							
13. Food expense for hired and exchange labor (per cropping)	₪__							
14. Landowner's share (per cropping)	₪__			₪__		₪__	₪__	₪__
15. G.I. Wire / Wired Fence	₪__	₪__		₪__		₪__	₪__	₪__
16. Seedling bag	₪__	₪__		₪__		₪__	₪__	₪__
17. Wood stakes	₪__	₪__		₪__		₪__	₪__	₪__
18. Straw twine	₪__	₪__		₪__		₪__	₪__	₪__
19. Others (specify): _____	₪__	₪__		₪__		₪__	₪__	₪__
_____	₪__	₪__		₪__		₪__	₪__	₪__

ISSUES/CONCERNS	RESOLUTIONS
<p><i>Column I, Item 1 – Land Tax</i></p> <ul style="list-style-type: none"> Collection of this data is very challenging. Some farmers are not aware of the amount of tax they pay for the land. Likewise, there are farmers who do not pay the tax thus, they cannot respond to the question. 	<p>In that case, the land tax should be imputed. It may also be sourced from administrative data. The SRs and PSOs can coordinate with the municipal assessor's office and inquire for the data for a particular barangay. Thereafter, it should be allocated using the area planted to tomato.</p>
<p><i>Column I, Item 4 – Lease/Rentals of Land, Machine, Animals, Tools and Equipment</i></p> <ul style="list-style-type: none"> Unlike rentals of land, the Lease agreement takes more than a year. The farmer's usual response to this question is the total amount of lease, thereby overestimating the costs. How can we validate the responses more accurately? 	<p>It was suggested to have additional question to qualify the number of years the land is being leased (See revised <i>Questionnaire in Annex 1</i>).</p> <p>The annual cost of Leased Land will be as follows:</p> $\left[\frac{\text{Total Value of Lease}}{\text{Number of Years Leased}} \right] \times \text{Area planted to tomato}$
<p><i>Column I, Item 10 – Storage Cost</i></p> <ul style="list-style-type: none"> Tomatoes are not usually stored in a storage house/warehouse due to its high perishability. However in Bukidnon, the farmers pay a certain fee (ex. 1 peso per box) to so-called "bodegeros" while waiting for their produce to be picked up by a trader. The produce is not actually stored inside the structure but "parked" outside for pick-up. 	<p>It was suggested to change the term into <i>Storage Fee</i> and define it carefully in the field operations manual to differentiate it from storage costs which usually pertain to storing of goods inside a storage house/warehouse.</p>
<p><i>Column I, Item 11 – Water Expense</i></p> <ul style="list-style-type: none"> Recording for water expense is only for cash. What if the farmer gets water from a shallow tube well or small pond? Will it incur costs since he/she does not pay any fee for it? In case of imputing the cost, what rate should be used? 	<p>There should be a water expense since tomatoes need watering. The cost should be imputed. In the questionnaire, the corresponding space/cell should be opened.</p> <p>The imputed cost can be based on the irrigation fee in the locality allocated based on the area of the tomato farm.</p>
<p><i>Column I – Additional Cost Items</i></p> <ul style="list-style-type: none"> The following cost items need must be included in the questionnaire: <ul style="list-style-type: none"> Rental value of owned animal (per cropping); Transport cost of produce from farm to first point of sale (per cropping); Financier's share; and Containers such as sack/crate/box/ kaing 	<p>Noted.</p>

B.9 – Block H. Production and Disposition (in focus parcel)

H. PRODUCTION AND DISPOSITION (in focus parcel)	
Item	Units
(1)	(2)
1. Production	
1.01 Quantity in local unit	• _ _
1.02 Name of local unit (LU)	• _ _
1.03 Weight of one LU in kilogram	• _ _
2. Disposition (quantity in local unit)	
2.01 Sold / To be sold to:	
2.01.1 Direct consumer	• _ _
2.01.2 Trader	• _ _
2.01.3 Processor	• _ _
Price per local unit (required whether the produce was sold or not sold)	• _ _
2.02 Harvesters' share	• _ _
2.03 Other laborers' share	• _ _
2.04 Landowner's share	• _ _
2.05 Land lease / Rental	• _ _
2.06 For home consumption	• _ _
2.07 For home - based processing	• _ _
2.08 Given away	• _ _
2.09 Paid to creditor	• _ _
2.10 Used / To be used for planting materials	• _ _
2.11 Wastage	• _ _
2.12 Others (specify) :	
_____	• _ _
_____	• _ _
_____	• _ _
_____	• _ _
Total Disposition	• _ _

ISSUES/CONCERNS	RESOLUTIONS
The production and disposition should follow the number of times of harvesting to account for the varying prices.	Additional columns for units will be added in the questionnaire. Block H will be on a separate page from Block G.
Some tomato produce were not sold in the market and farmers leave them either along the roadside or within their backyard. Can we include them under disposition item 2.11 – Wastage?	Yes.
There should be a financier's share under the disposition items since we included it in other production costs which can be paid in kind.	Noted.

B.10 – Block I. Production Related Information (in focus parcel)

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 than last cropping 2 - Lower than last cropping 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) Specify : 1 - Change in area _____ 2 - Weather effects _____ 3 - Pest and diseases _____ 4 - Planting materials _____ 5 - Fertilizer _____ 6 - Water availability _____ 7 - Others (specify) : _____ _____ _____	
3. What were the tomato production related problems you have encountered? (encircle code/s or specify if necessary) 1 - Pests and diseases 2 - High cost of inputs 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) : _____ _____ _____	

ISSUES/CONCERNS	RESOLUTIONS
<p>Item 1:</p> <ul style="list-style-type: none"> The term “previous cropping is already included in the question; can we then remove the term “last cropping” in choice 1 – Higher than last cropping and choice 2 – Lower than last cropping? 	Yes.

B.11 – Block J. Marketing Related Information (in focus parcel)

J. MARKETING RELATED INFORMATION (in focus parcel)			
1. Who was / were the buyer/s of produce? (encircle code/s) Indicate the percent of production sold to the encircled buyer/s, name/s and address/es			
Type of Buyer	% Sold	Indicate name of identified buyer	Address and Contact Details
1 - Agent	_____ %		
2 - Wholesaler	_____ %		
3 - Wholesaler-retailer	_____ %		
4 - Assembler	_____ %		
5 - Processor	_____ %		
6 - Cooperative	_____ %		
7 - Consumer	_____ %		
8 - Others (specify) :	_____ %		
	_____ %		
	_____ %		
2. What were the marketing related problems you have encountered? (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) : _____ _____ _____			

ISSUES/CONCERNS	RESOLUTIONS
<p>Item 1:</p> <ul style="list-style-type: none"> The farmers cannot accurately identify the names and contact details of the buyers. It only adds to response burden. Can we delete the said items from the questionnaire? 	Yes.

B.12 – Block K. Access to Credit (in focus parcel)

K. ACCESS TO CREDIT (in focus parcel)	
<p>1. Have you availed of loan for tomato production during the reference period? (<i>encircle code</i>)</p> <p>1 - Yes 2 - No, go to Block L</p> <p>2. How much loan did you avail of? P _____</p> <p>3. How much was the interest rate?</p> <p>per annum _____ % per month _____ % per cropping _____ %</p>	<p>4. Who / What was your major source of loan? (<i>encircle code or specify if necessary</i>)</p> <p>1 - Cooperative 2 - Bank 3 - Microfinance / Credit Associations 4 - Trader 5 - Private individual (<i>e.g. family, friends, relatives, store/shop owners</i>) 6 - Informal lenders (<i>e.g. "5-6"</i>) 7 - Others (specify) : _____</p>

ISSUES/CONCERNS	RESOLUTIONS
<p>Item 3:</p> <ul style="list-style-type: none"> There are farmers who loan from their relatives who do not charge any interest. Can we add additional choice (No Interest) so that this scenario will not be regarded as non-response? 	<p>Yes.</p>

B.13 – Block M. Other Information

M. OTHER INFORMATION
<p>1. Has <i>Climate Change</i> affected your farming practices? (<i>encircle code</i>)</p> <p>1 - Yes 2 - No, go to Item 2</p> <p>1.1 What was/were the effects? (<i>encircle code/s or specify if necessary</i>)</p> <p>1 - Change in cropping pattern 2 - Increase in input usage 3 - Decrease in yield 4 - Decrease in frequency of plowing 5 - Others (specify): _____</p> <p>2. Are you a member of tomato farmers' organization? (<i>encircle code</i>)</p> <p>1 - Yes 2 - No, go to Block N</p> <p>2.1 What is the name of the organization? _____</p> <p>2.2 What were the benefit/s received from the organization? (<i>encircle code/s or specify if necessary</i>)</p> <p>1 - Training / Seminars 2 - Financial / Credit support 3 - Inputs support 4 - Marketing support 5 - Others (specify): _____</p>

ISSUES/CONCERNS	RESOLUTIONS
<p>Items 2 and 2.2:</p> <ul style="list-style-type: none"> There are no specific tomato farmers' organization in the locality. But there are farmers' organization in general that exists where a tomato farmer can gain benefit by being a member. Can we change the question in Item 2 to Are you a member of farmers' organization? In line with that, can we change the question in Item 2.2 to what was/were the benefit/s received from the organization related to tomato production? 	<p>Yes.</p>

B.14 – Block N. Plans and Recommendations

N. PLANS AND RECOMMENDATIONS
<p>1. What is your plan regarding tomato farm operation? (encircle code or specify if necessary)</p> <p>1 - Maintain current operation 2 - Expansion of area 3 - Reduction of area 4 - Shift to other crops 5 - Others (specify): _____</p> <p>2. What are your recommendations in order to improve your tomato production? (encircle code/s or specify if necessary)</p> <p>1 - Price support 2 - Improve water facilities 3 - Infrastructure facilities 4 - Regulate price of farm inputs 5 - Financial support 6 - Soil testing / analysis 7 - Environmental concern (e.g. waste disposal, erosion) 8 - Modern farming technologies 9 - Others (specify): _____ _____</p>

ISSUES/CONCERNS	RESOLUTIONS
<p>Item 1:</p> <ul style="list-style-type: none"> Item 2, the choices tend to lead the responses of the farmers. With the length of interview, the farmers tend to respond yes to all the choices without really understanding what each choice was about. Can we delete the choices and simply accept the verbatim answers of the farmers? 	<p>Yes.</p>

C. Data Collection

ISSUES/CONCERNS	RESOLUTIONS
Timing of data collection needs to be adjusted.	<p>The recommended timeline for data collection are as follows:</p> <ul style="list-style-type: none"> 3rd week of June – for Luzon and Visayas provinces 3rd week of October – for Mindanao provinces <p>These schedules can capture the peak and last harvesting time for tomato.</p>
<p>The length of interview is minimum of one hour. The farmers are usually busy attending to their farm while other qualified respondents might also have something to do in the household (ex. Cooking, taking care of children and other household chores). With that, taking at least an hour of their time can affect their chores. Farmer's participation and response will be affected.</p>	<p>Aside from explaining the purpose of the survey, the length of interview should be emphasized to the farmer at the outset. That way, he/she will not get irked in the process.</p> <p>Considering the time required to accomplish the questionnaire, it was suggested to provide a small token to the farmers. This would help entice them to participate in the survey.</p>

D. Other Matters

ISSUES/CONCERNS	RESOLUTIONS
<p>Administrative Matters:</p> <ul style="list-style-type: none">• There were some inquiries on how the enumerators (SRs) will be paid; is it per questionnaire or per day?• They were also concerned about their transportation allowance. In Bukidnon, tomato farms are located in far-flung barangays and availability of transportation can be few.	<p>It was clearly stated that these matters will be tackled during the training and operations. The Provincial Heads and the Regional Heads will be given proper notification on how to handle this matter.</p> <p>Initially, AAD will prepare a memo asking for the list of top 15 tomato-producing barangays together with an updated transportation matrix (ex. Fare and usual means of transportation).</p>
<p>Pre-Survey Trainings</p> <ul style="list-style-type: none">• Considering the preparations and timing of data collection, can we reduce the number of trainings into two (2) instead of three (3)? The 1st Level Training will involve the C.O. staff and selected PSO staff who will serve as trainers for the 2nd level training. The next level of training will involve other PSO staff and Statistical Researchers (SRs) with assistance from C.O. staff.	<p>Noted.</p>



CONCLUSION AND RECOMMENDATIONS



The pre-test of questionnaire in the three (3) provinces provided significant insights on how to improve the questionnaire design and data collection procedures. It allowed us to see the different practices in the provinces which are crucial in the finalization of the survey instruments as well as the implications in budget and timelines.

For the survey methodology, the group concluded that a snowball approach is a feasible way of selecting sample for the survey. This was also due to the fact that there is no census frame that can be used and that the survey requires very specific characteristics for tomato farming. An initial list of top tomato-producing barangays will be provided by the Provincial Statistics Offices (PSOs). Through the key informants in the barangays, the enumerators (SRs) can identify farm households engaged in tomato farming which will be recorded in a listing form that will also be accomplished during data collection. The target number of samples is set at 75 per province and is assumed to be around five (5) samples per barangay.

In Luzon, the peak harvest periods for tomato are April to May although there are some farmers who start harvesting as early as March. In Visayas, the peak harvesting month is June while in Mindanao, it is September to October. With that information, the timetable of operations was revised (See *Annex 2 – Revised Timetable*).

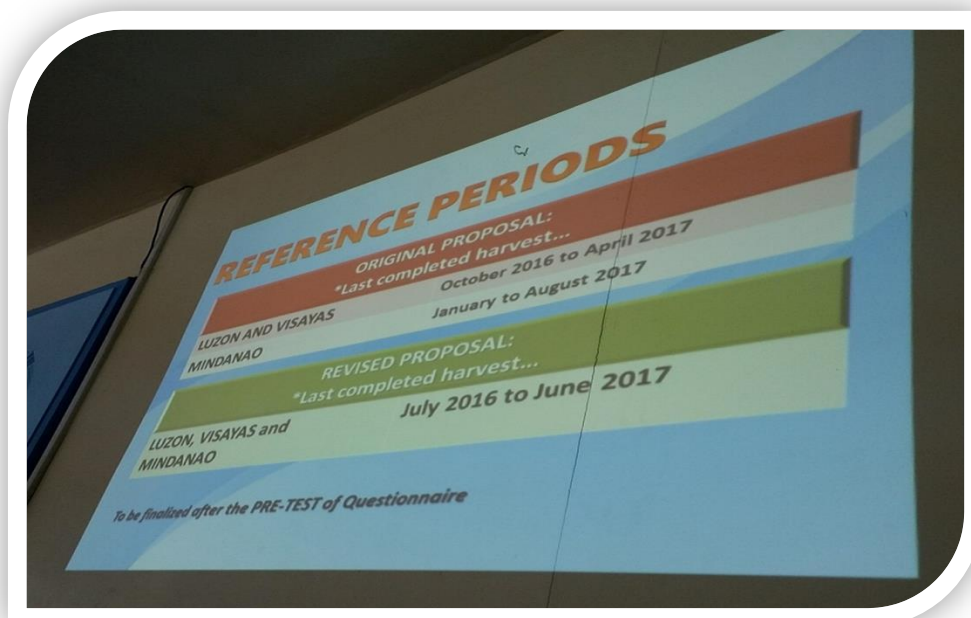
Following the debriefing of the pre-test teams, a revised questionnaire was prepared (See *Annex 1 – Revised Questionnaire*). This will be submitted to concerned units who will review the forms together with the basic information about the survey. Once cleared, this will serve as the final survey instrument for collecting the data on costs and returns of tomato production.



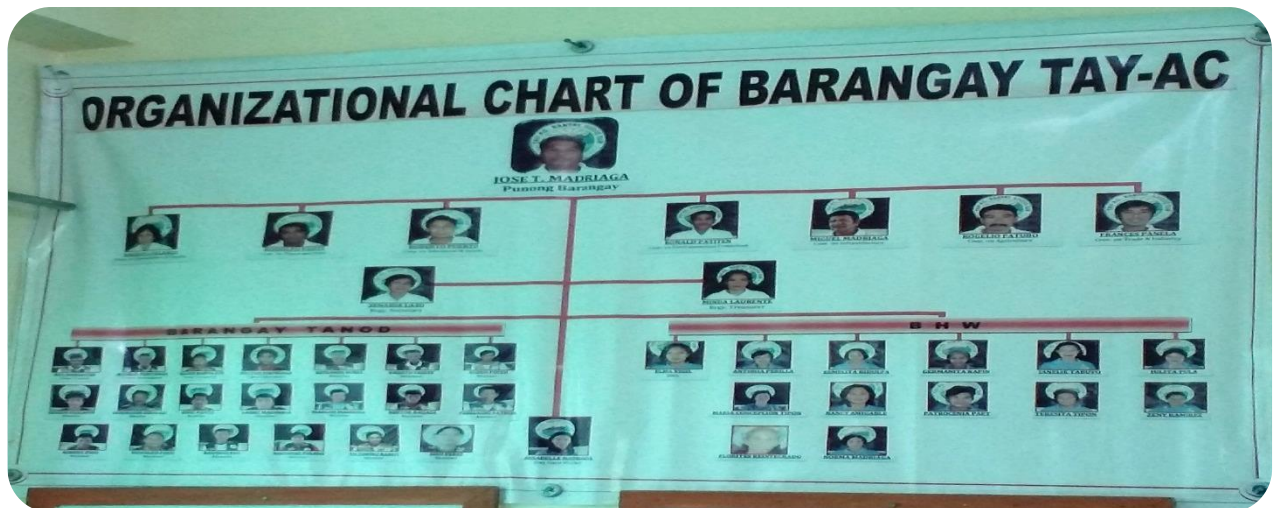
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A. ILOCOS SUR



Briefing for the Pre-Test of Questionnaire at Ilocos Sur Provincial Statistics Office



Courtesy Call and Pre-Test of Questionnaire at Barangay Tay-Ac, Bantay, Ilocos Sur



At Barangay Orence, Narvacan, Ilocos Sur

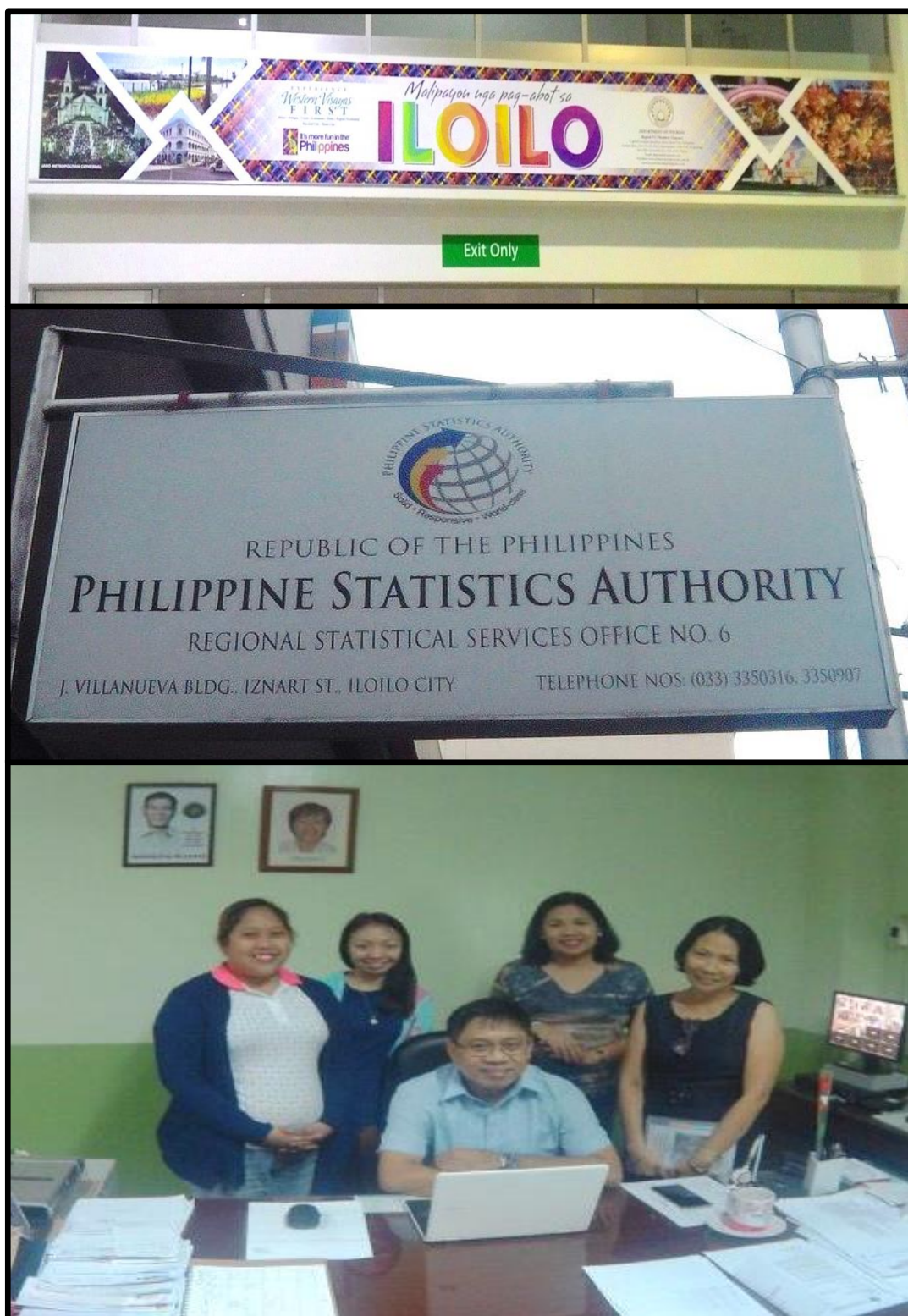


Tomato Farm Visit



Clearing of Issues and Concerns

B. ILOILO



Arrival at Iloilo City and Courtesy Call to Mr. Fred S. Sollesta - Regional Director Region 6 and to Ms. Nelida C. Amolar - OIC, Provincial Statistics Officer, Iloilo



Briefing for the Pre-Test of Questionnaire at Iloilo Provincial Statistics Office



Pre-test of questionnaire at Barangay Lang-og, Leon, Iloilo



At Barangay Lanag, Leon, Iloilo



At Barangay Barasan, Leon, Iloilo



Tomato Farm Visit



Clearing of Issues and Concerns



Before Leaving P&O Iloilo

C. BUKIDNON



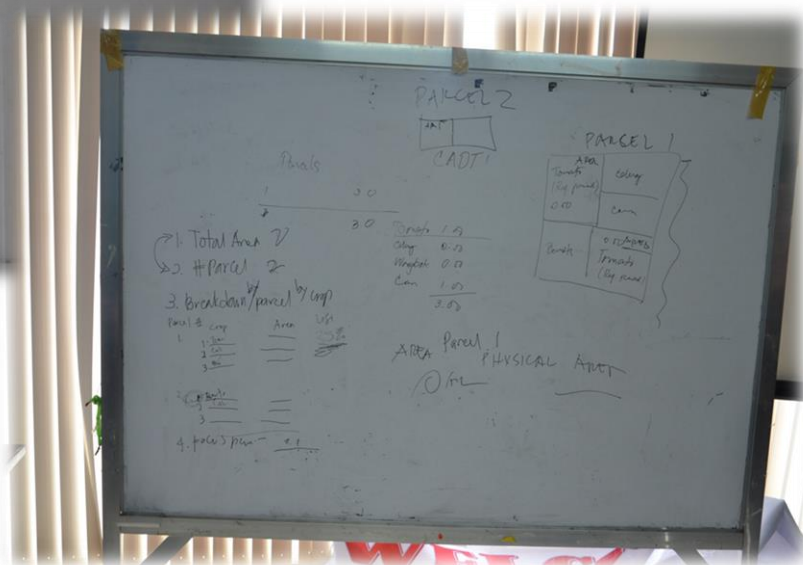
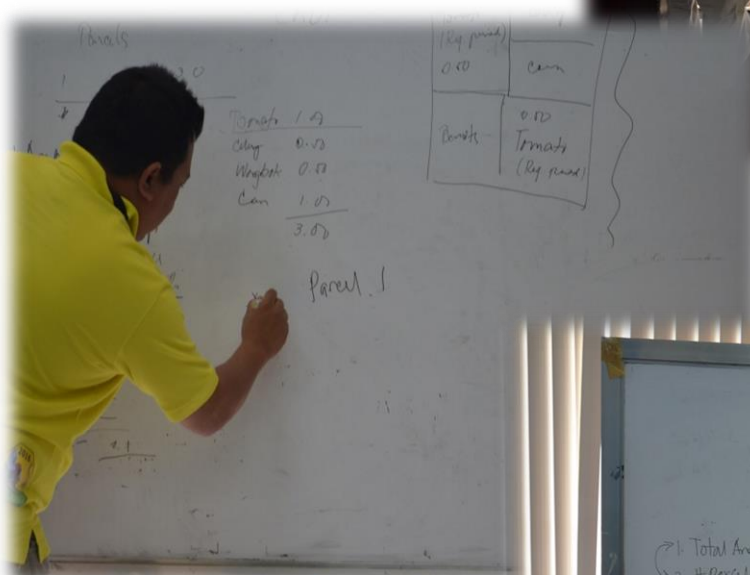
Briefing for the Pre-Test of Questionnaire at Bukidnon Provincial Statistics Office




Courtesy Call and Pre-Test of Questionnaire at Barangay Kibangan, Lantapan, Bukidnon



Courtesy Call and Pre-Test of Questionnaire at Barangay Sonco, Lantapan, Bukidnon



Clearing of Issues and Concerns

 <p>REPUBLIC OF THE PHILIPPINES PHILIPPINE STATISTICS AUTHORITY SOLID • RESPONSIVE • WORLD-CLASS</p>	<p style="text-align: right;">Approval No.: _____ Expires on : _____</p>	<p style="text-align: center;">2017 SURVEY ON COSTS AND RETURNS OF TOMATO PRODUCTION</p> <p>Dear Sir / Madam,</p> <p>The Philippine Statistics Authority is undertaking a Survey on Costs and Returns of Tomato Production to generate an up-to-date production cost structure and determine the returns in tomato farming. The activity involves the gathering of data on the expenses and revenues in producing tomato. Data on the usage of material and labor inputs and other socio-economic variables will be collected.</p> <p>Your household has been selected to be one of the sample respondents. With your cooperation, this survey will yield accurate and updated data needed for effective planning and policy-decision making.</p> <p>Please be assured that the data you supply us will be held STRICTLY CONFIDENTIAL and your report cannot be used for purposes of taxation, investigation or law enforcement procedure, nor will it be published except in the form of statistical summaries in which no reference to any individual person shall appear.</p> <p>Your cooperation is earnestly solicited.</p> <p style="text-align: right;">Very truly yours,</p> <p style="text-align: right;">LISA GRACE S. BERSALES, Ph.D. National Statistician and Civil Registrar General</p>
<p>CONFIDENTIALITY:</p> <p>Section 26 of RA 10625, stipulates that individual data furnished by a respondent to statistical inquiries, surveys, and censuses of the PSA shall be considered privileged information and such shall be inadmissible as evidence in any proceeding.</p> <p>Likewise, Section 27 of RA No. 10625 states that a person, including parties within the PSA Board and the PSA, who breach the confidentiality of information, whether by carelessness, improper behavior, behavior with malicious intent, and use of confidential information for profit shall be liable to a fine of five thousand pesos (\$5,000) to not more than ten thousand pesos (10,000) and or imprisonment of three months but not exceeding one year, subject to the degree of breach of information.</p>	<p style="text-align: center;">SCREENING QUESTIONS >> Go to instructions</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>1. Are you engaged in tomato farming? <input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (end the interview)</p> <p>2. Is the tomato farm group-operated? <input type="checkbox"/> YES (end the interview) <input type="checkbox"/> NO (continue next question)</p> <p>3. Did you plant and harvest tomato at any time within SEPTEMBER 2016 to MAY 2017? <input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (end the interview)</p> <p>4. Was your harvest / produce intended for sale? <input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (end the interview)</p> <p>5. Was your harvest intercropped with other temporary crops? <input type="checkbox"/> YES (end the interview) <input type="checkbox"/> NO (continue next question)</p> </div> <div style="width: 48%;"> <p>6. Was 20% or more of your harvest damaged by flood, drought, pests and diseases, etc.? <input type="checkbox"/> YES (end the interview) <input type="checkbox"/> NO (continue next question)</p> <p>7. Are you a contract grower? <input type="checkbox"/> YES (continue next question) <input type="checkbox"/> NO (proceed to the next page)</p> <p>YES, but with Self-Financed Tomato Farm (proceed to the next page)</p> <p>7.1 What was the mode of financing? <input type="checkbox"/> - in cash (proceed to the next page) <input type="checkbox"/> - in kind (end the interview) <input type="checkbox"/> - both in cash and in kind (end the interview)</p> </div> </div>	

2017 SURVEY ON COSTS AND RETURNS OF TOMATO PRODUCTION

Last Completed Cropping Cycle Within **SEPTEMBER 2016 TO MAY 2017**

QC No.

A. FARM LOCATION

1. Region : 2. Province : 3. City/Municipality : 4. Barangay :

B. SAMPLE IDENTIFICATION

1. Name of sample farmer/operator :

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

2. Residential address of the sample farmer/operator :

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

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

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

5. Level of education completed :

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

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

8. Name of respondent :

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

10. Respondent's contact number/s :

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	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____
6	_____	_____	_____	_____
7	_____	_____	_____	_____
8	_____	_____	_____	_____
9	_____	_____	_____	_____
10	_____	_____	_____	_____
Total Area	_____	_____	_____	_____

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

(indicate the parcel number)

(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)

if code 8, specify the tenurial status : _____

For focus parcel only:

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

5. What is the usual cropping pattern?

6. What was the area planted? _____

7. What was the area harvested? _____

8. What month and year was it last planted? _____

9. What month and year was it last harvested? _____

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

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

1 - Bush

2 - Vine

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

1 - Diamante 6 - Apollo

2 - Diamante Max 7 - Semenes

3 - Harabas 8 - Rose Pink

4 - Ilocos Red 9 - Native (kimmababasa)

5 - Maharika 10 - Others (specify): _____

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

(encircle code/s)

1 - Agri Supply Store 4 - Co-Farmer

2 - DALGU 5 - Own produced

3 - Cooperative 6 - Others (specify): _____

Note: For Block B Item 5 and 6, codes are in the Field Operations Manual. Coding should be done after enumeration.

CODES FOR BLOCK C:

Tenurial Status (Item 3)

1 - Fully owned

2 - Leased / Rented

3 - Tenanted

4 - Amortized

5 - Rent Free

6 - Owner - like Possession

7 - Held under CLT / CLOA

8 - Others

D. FARM INVESTMENTS (owned and used in the focus parcel during SEPTEMBER 2016 to MAY 2017)										
Item	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		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. Farm land owned (hectare)										
2. Work animals										
2.01 Carabao										
2.02 Cattle										
2.03 Horse										
3. Farm buildings and other structures										
3.01 Farm house										
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										
4.04 Farm vehicles										
4.05 Trailer										
4.06 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)
5. Farm tools and implements									
5.01 Plow (araro)			•	•					•
5.02 Harrow (suyod)			•	•					•
5.03 Shovel / Spade (pala)			•	•					•
5.04 Hoe (asaro)			•	•					•
5.05 Spading fork (tinidor)			•	•					•
5.06 Post hole digger (panghukay)			•	•					•
5.07 Yoke (singkaw)			•	•					•
5.08 Rake (kalaykay)			•	•					•
5.09 Seeding tray / Seedbox			•	•					•
5.10 Hose			•	•					•
5.11 Watering Can			•	•					•
5.12 Water Sprinkler			•	•					•
5.13 Sprayer (pambomba)			•	•					•
5.14 Bolo (itak)			•	•					•
5.15 Sickle / Scythe (karet)			•	•					•
5.16 Pruning shears/scissors			•	•					•
5.17 Cart / Sled (paragos)			•	•					•
5.18 Pail (limba)			•	•					•
5.19 Basket / Kaing			•	•					•
5.20 Crate			•	•					•
5.21 Drum			•	•					•
5.22 Weighing Scale (timbang)			•	•					•
5.23 Wood stakes			•	•					•
5.24 Plastic/Nylon Twine			•	•					•
5.25 Sorting Table			•	•					•
5.26 Others (specify) :			•	•					•

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Seeds / Planting Materials								
1.01 Seeds	*		*				*	*
1.02 Seedlings		PIECES					*	*
2. Fertilizers								
2.01 Urea (45-0-0)	*		*	*			*	*
2.02 Urea (46-0-0)	*		*	*			*	*
2.03 Ammonium Sulfate (21-0-0)			*	*			*	*
2.04 Ammonium Phosphate (16-20-0)	*		*	*			*	*
2.05 Complete (12-12-12)	*		*	*			*	*
2.06 Complete (14-14-14)	*		*	*			*	*
2.07 Complete (16-16-16)	*		*	*			*	*
2.08 Zinc Sulfate (Zinc 21%)	*		*	*			*	*
2.09 Muriate of Potash (0-0-60)	*		*	*			*	*
2.10 Crop Giant	*		*	*			*	*
2.11 Compost	*		*	*			*	*
2.12 Vermicast	*		*	*			*	*
2.13 Others (specify):	*		*	*			*	*
3. Soil Ameliorants								
3.01 Lime (apog)	*		*	*			*	*
3.02 Others (specify):	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
4. Mulching Materials								
4.01 Rice Hay (dayami)	*		*	*			*	*
4.02 Others (specify):	*		*	*			*	*
	*		*	*			*	*

CODES FOR COLUMN 6:			Purchased	Produced	Received
			11 - self financed (paid in cash)	21 - Own Produced	31 - from government (DA, LGU, etc.)
			12 - self financed (paid in kind)		32 - from private individual/organization (Trader, Co-Farmer, Cooperative, etc.)
			13 - discounted		

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
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)
5. Pesticides (specify product name):								
5.01 Herbicides / Weedicides								
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
5.02 Insecticides								
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
5.03 Fungicides								
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*
5.04 Other Pesticides (specify product name):								
	*		*	*			*	*
	*		*	*			*	*
	*		*	*			*	*

CODES FOR COLUMN 6:		Purchased	Produced	Received
		11 - self financed (paid in cash)	21 - Own Produced	31 - from government (DA, LGU, etc.)
		12 - self financed (paid in kind)		32 - from private individual/organization (Trader, Co-Farmer, Cooperative, etc.)
		13 - discounted		

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)	How many persons worked in the farm?	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?	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 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														
1.04 Sowing of seeds														
1.05 Fertilizer application (basal)														
1.06 Chemical application														
1.07 Mulching														
2. Land preparation														
2.01 Plowing (man-animal)														
2.02 Plowing (man-machine, 2-wheel)														
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)														
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)														
3. Hauling of planting materials														
4. Planting / Transplanting														
5. Replanting														

Note: Col. 11 - For all activities performed by unpaid labor (operator, family and exchange), ask for the prevailing wage rate in the locality.

F. LABOR INPUTS (in focus parcel during SEPTEMBER 2016 to MAY 2017) - Continuation														
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 days did they work?	On the average ... how many hours per day were spent?	How many persons worked in the farm?	On the average ... how many days did they work?	On the average ... how many hours per day were spent?	How many persons worked in the farm?	On the average ... how many days did they work?	On the average ... how many hours per day were spent?	How many persons worked in the farm?		On the average ... how many days did they work?	On the average ... 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)
6. Care of crops														
6.01 Trellising / Staking / Tying														
6.02 Fertilizer application (side dressing)														
6.03 Fertilizer application (top dressing)														
6.04 Weeding (man)														
6.05 Chemical application/Spraying														
6.06 Off-barring														
6.07 Hilling-up														
6.08 Watering														
6.09 Mulching														
6.10 Pruning/Thinning														
6.11 Farm monitoring														
7. Others (specify):														
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														

Note: Col. 11 - For all activities performed by unpaid labor (operator, family and exchange), ask for the prevailing wage rate in the locality.

F. LABOR INPUTS (in focus parcel during SEPTEMBER 2016 to MAY 2017) - Continuation														
Farm Activity	Operator Labor		Family Labor			Exchange Labor			How much was the prevailing wage rate per day in the locality? (Pesos)	Hired Labor				
	How many days were spent?	How many hours per day were spent?	How many persons worked in the farm?	On the average ... how many days did they work?	how many hours per day were spent?	How many persons worked in the farm?	On the average ... how many days did they work?	how many hours per day were spent?		How many persons worked in the farm?	On the average ... 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)
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														
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														

Note: Col. 11 - For all activities performed by unpaid labor (operator, family and exchange), ask for the prevailing wage rate in the locality.

[illegible]

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)								
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)								
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: _____ liter/s, per cropping)								
8. Oil (quantity: _____ liter/s, per cropping)								
9. Transport cost of inputs (per cropping)								
10. Transport cost of produce from farm to first point of sale (per cropping)								
11. Interest payment on crop loan (per cropping)								
12. Storage fee (per cropping)								
13. Water expense (per cropping)								
14. Electricity cost (monthly)								
15. Food expense for hired and exchange labor (per cropping)								
16. Landowner's share (per cropping)								
17. Financier's share (per cropping)								
18. Sack / Crate / Box / Kaling								
19. Seedling bag								
20. Wood stakes								
21. Straw twine								
22. Others (specify):								

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	
	Units (2)	Units (3)	Units (4)	Units (5)	Units (6)	Units (7)	Units (8)	Units (9)	Units (10)	Units (11)	Units (12)	Units (13)	
1. Production													
1.01 Quantity in local unit	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
1.02 Name of local unit (LU)													
1.03 Weight of one LU in kilogram	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2. Disposition (quantity in local unit)													
2.01 Sold / To be sold to:													
2.01.1 Trader	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.01.2 Processor	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.01.3 Direct Consumer	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
Price per local unit (required whether the produce was sold or not sold)	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.02 Harvesters' share	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.03 Other laborers' share	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.04 Landowner's share	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.05 Financier's share	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.06 Land lease / Rental	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.07 For home consumption	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.08 For home - based processing	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.09 Given away	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.10 Paid to creditor	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.11 Used / To be used for planting materials	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.12 Wastage	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
2.13 Others (specify) :													
	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _
Total Disposition	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _	• _ _

I. PRODUCTION RELATED INFORMATION (in focus parcel)		J. MARKETING RELATED INFORMATION (in focus parcel)																																									
<p>1. How would you compare your production in the focus parcel during the reference period with the previous cropping? (encircle code)</p> <p>1 - Higher 2 - Lower 3 - About the same (go to Item 3) 4 - No point of comparison (go to Item 3)</p> <p>2. What was/were the reason/s for the change in production? (encircle code/s and specify verbatim answer)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Higher Production</th> <th style="width: 50%;">Lower Production</th> </tr> </thead> <tbody> <tr><td>1 - Increase in area</td><td>1 - Decrease in area</td></tr> <tr><td>2 - Good weather</td><td>2 - Bad weather</td></tr> <tr><td>3 - Good quality of seeds</td><td>3 - Low quality of seeds</td></tr> <tr><td>4 - Use of fertilizers</td><td>4 - Poor quality of produce</td></tr> <tr><td>5 - Adequate water supply</td><td>5 - Inadequate water supply</td></tr> <tr><td>6 - Others (specify) :</td><td>6 - Pests and Diseases</td></tr> <tr><td> </td><td>7 - Others (specify) :</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Higher Production	Lower Production	1 - Increase in area	1 - Decrease in area	2 - Good weather	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) :					<p>1. Who was / were the buyer/s of produce during the reference period? (encircle code/s) <i>Indicate the percent of production sold to the encircled buyer/s.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Type of Buyer</th> <th style="width: 50%;">% Sold</th> </tr> </thead> <tbody> <tr><td>1 - Agent</td><td>_____ %</td></tr> <tr><td>2 - Wholesaler</td><td>_____ %</td></tr> <tr><td>3 - Wholesaler-retailer</td><td>_____ %</td></tr> <tr><td>4 - Assembler</td><td>_____ %</td></tr> <tr><td>5 - Processor</td><td>_____ %</td></tr> <tr><td>6 - Cooperative</td><td>_____ %</td></tr> <tr><td>7 - Consumer</td><td>_____ %</td></tr> <tr style="background-color: #d3d3d3;"><td>8 - Others (specify) :</td><td>_____ %</td></tr> <tr><td> </td><td>_____ %</td></tr> <tr><td> </td><td>_____ %</td></tr> </tbody> </table> <p>2. What were the marketing related problems you have encountered during the reference period? (encircle code/s or specify if necessary)</p> <p>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) : _____ _____ _____ _____</p>	Type of Buyer	% Sold	1 - Agent	_____ %	2 - Wholesaler	_____ %	3 - Wholesaler-retailer	_____ %	4 - Assembler	_____ %	5 - Processor	_____ %	6 - Cooperative	_____ %	7 - Consumer	_____ %	8 - Others (specify) :	_____ %		_____ %		_____ %
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	_____ %																																										
	_____ %																																										
K. ACCESS TO CREDIT (in focus parcel)																																											
<p>1. Have you availed of loan for tomato production during the reference period? (encircle code)</p> <p>1 - Yes 2 - No, go to Block L</p> <p>2. How much loan did you avail of? P _____</p> <p>3. How much was the interest rate? (check box and indicate percent rate)</p> <p><input type="checkbox"/> per annum _____ % <input type="checkbox"/> per month _____ % <input type="checkbox"/> per cropping _____ % <input type="checkbox"/> no interest</p>	<p>4. Who / What was your major source of loan? (encircle code or specify if necessary)</p> <p>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) : _____ _____ _____ _____</p>																																										

L. FARMER'S PARTICIPATION IN TOMATO PROGRAMS / PROJECTS	M. OTHER INFORMATION	N. PLANS AND RECOMMENDATIONS
<p>1. Are you aware of any government program / intervention on tomato production? <i>(encircle code)</i></p> <p>1 - Yes 2 - No</p> <p>2. Have you availed of any benefit from government program / intervention? <i>(encircle code)</i></p> <p>1 - Yes 2 - No, go to Block M</p> <p>3. What benefits have you availed of? <i>(encircle code/s)</i></p> <p>1 - Planting materials</p> <p>2 - Fertilizer and other inputs</p> <p>3 - Training on farming technology</p> <p>4 - Post harvest facilities</p> <p>5 - Marketing support</p> <p>6 - Others (specify): _____</p> <p>4. Did you use the benefits in your production during the last completed cropping? <i>(encircle code)</i></p> <p>1 - Yes 2 - No, go to Block M</p> <p>5. Did the benefit/s receive helped increase your income from tomato farming? <i>(encircle code)</i></p> <p>1 - Yes 2 - No</p>	<p>1. Has <i>Climate Change</i> affected your farming practices? <i>(encircle code)</i></p> <p>1 - Yes 2 - No, go to Item 2</p> <p>1.01 What was/were the effect/s? <i>(encircle code/s or specify if necessary)</i></p> <p>1 - Change in cropping pattern</p> <p>2 - Increase in input usage</p> <p>3 - Decrease in yield</p> <p>4 - Decrease in frequency of plowing</p> <p>5 - Others (specify): _____</p> <p>2. Are you a member of farmers' organization? <i>(encircle code)</i></p> <p>1 - Yes 2 - No, go to Block N</p> <p>2.01 What is the name of the organization?</p> <p>_____</p> <p>2.02 What was/were the benefit/s received from the organization related to tomato production?</p> <p><i>(encircle code/s or specify if necessary)</i></p> <p>1 - Training / Seminars</p> <p>2 - Financial / Credit support</p> <p>3 - Inputs support</p> <p>4 - Marketing support</p> <p>5 - None</p> <p>6 - Others (specify): _____</p>	<p>1. What is your plan regarding tomato farm operation? <i>(encircle code or specify if necessary)</i></p> <p>1 - Maintain current operation</p> <p>2 - Expansion of area</p> <p>3 - Reduction of area</p> <p>4 - Shift to other crops</p> <p>5 - Others (specify): _____</p> <p>2. What are your recommendations in order to improve your tomato production?</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

O. INTERVIEW / SURVEY PARTICULARS	CERTIFICATION
<p>(Name and signature of Statistical Researcher)</p> <p>_____</p> <p>(Name and signature of Field Supervisor / Editor)</p> <p>_____</p> <p>(Name and signature of PSO)</p> <p>_____</p>	<p>I hereby certify that the data contained in this questionnaire were obtained/edited/reviewed by me personally and in accordance with the instructions.</p> <p>_____ (Date Accomplished)</p> <p>_____ (Date Accomplished)</p> <p>_____ (Date Reviewed)</p>

ANNEX 2 – REVISED TIMETABLE



Republic of the Philippines
Philippine Statistics Authority

2017 COSTS AND RETURNS OF TOMATO PRODUCTION

Strategic Goals, Thrusts and Activities/Projects	Division Responsible	Revised Timetable as of 03-17-17			
		Luzon and Visayas PSOs		Mindanao PSOs	
		Start	End	Start	End
A. Pre-Survey Operations					
Preparation of project proposal	AAD	July 2016	July 2016	July 2016	July 2016
Preparation of outline of report	AAD	July 2016	July 2016	July 2016	July 2016
Updating of dummy tables and specifications	AAD	July 2016	July 2016	July 2016	July 2016
Review and updating of survey design	AAD	August 2016	September 2016	August 2016	September 2016
Preparation of instruments (Draft QRES & MANOPS)	AAD	October 2016	November 2016	October 2016	November 2016
Pre-test of questionnaire	AAD	7-10 March 2017	7-10 March 2017	7-10 March 2017	7-10 March 2017
<i>Deliberation on the result of the Pretest</i>	AAD	14-17 March 2017	14-17 March 2017	14-17 March 2017	14-17 March 2017
<i>Request for Clearance of the Survey</i>	AAD	April 2017	May 2017	April 2017	May 2017
Finalization of questionnaire and Manops	AAD	April 2017	May 2017	April 2017	May 2017
Preparation of data processing system	AAD	May 2017	June 2017	May 2017	July 2017
Presentation, testing and finalization of data processing program	AAD	July 2017	August 2017	July 2017	August 2017
Conduct of first level training - CO staff + PSO staff	AAD	29 May 2017	2 June 2017	29 May 2017	2 June 2017
<i>Reproduction and Mailing of Survey and 2nd Level Training Materials</i>	AAD	5-9 June 2017	5-9 June 2017	2-6 October 2017	2-6 October 2017
B. Field Operations					
Conduct of second level training - statistical researchers (SRs)	AAD/PSO	12-17 June 2017	12-17 June 2017	8-14 October 2017	8-14 October 2017
Data collection and spot-checking	PSO	19-23 June 2017	19-23 June 2017	16-20 October 2017	16-20 October 2017
Field editing and back-checking	PSO	26 June 2017	14 July 2017	23 October 2017	10 November 2017
<i>Training on Data Processing: Selected C.O. and PSO staff</i>	AAD/PSO	16-22 July 2017 - in Manila	16-22 July 2017 - in Manila	13-17 November 2017	13-17 November 2017
Data encoding	PSO	24 July 2017	4 August 2017	20 November 2017	1 December 2017
Running of error list and correction of errors	PSO	7 August 2017	18 August 2017	4 December 2017	15 December 2017
Generation of data tables	PSO	7 August 2017	18 August 2017	4 December 2017	15 December 2017
Provincial Data Review / Regional Data Review	PSO	21 August 2017	30 August 2017	18 December 2017	28 December 2017
Submission to RSSO and Central Office	PSO	31 August 2017	31 August 2017	29 December 2017	29 December 2017
C. Post-Survey Operations					
C.O. counter checking and data review	AAD	1 September 2017	22 September 2017	2 January 2018	19 January 2018
<i>Preliminary Data consolidation</i>	AAD	25 September 2017	29 September 2017	22 January 2018	26 January 2018
Preliminary Generation of data tables	AAD	2 October 2017	6 October 2017	29 January 2018	2 February 2018
Data analysis and validation	AAD	9 October 2017	30 October 2017	5 February 2018	23 February 2018
Preparation of preliminary report - Costs and Returns Tables	AAD	3 November 2017	29 November 2017	26 February 2018	16 March 2018
<i>Final Data consolidation</i>	AAD	19 March 2018	30 March 2018	19 March 2018	30 March 2018
Preparation of consolidated report - 2017 Costs and Returns of Tomato Production	AAD	2 April 2018	30 April 2018	2 April 2018	30 April 2018
Presentation of results - Costs and Returns and Other Statistical Tables	AAD	any day between: 14-18 May 2018			
Finalization of report - 2017 Costs and Returns of Tomato Production	AAD	21 May 2018	15 June 2018	21 May 2018	15 June 2018
Submission of report 2017 Costs and Returns of Tomato Production	AAD	any day between: 18-29 June 2018			
Preparation of PUF and Data Documentation	AAD	2 July 2018	31 August 2018	2 July 2018	31 August 2018
D. Project Monitoring and Evaluation	AAD	July 2016 - August 2018			