



MACROECONOMIC ACCOUNTS SERVICE







Highlights of Participation in Local Meeting/Workshop/Training/Field Visit

Name of Participant: <i>(See on the last page the attached Name of Participants)</i>									
Position/Designation: <i>(See on the last page the attached Position/Designation of Participants)</i>									
Title: 2017 Survey on Costs and Returns of Tomato production									
Inclusive Dates: 04 - 09 December 2017									
Place/s Visited: Misamis Oriental									
Meeting/Workshop/Training Objective/s/ Purpose of Travel: Conducted Training/Workshop on Data Processing, Data Review and Validation of Results of the 2017 Survey on Costs and Returns (SCR) of Tomato Production of Bukidnon and Misamis Oriental									
Funding Source: A.III.B.2									
<p>Activities Undertaken:</p> <ul style="list-style-type: none"> ❖ Training/Workshop on data processing, data review and validation of results of the 2017 SCR Tomato Production of Bukidnon and Misamis Oriental. <ul style="list-style-type: none"> • Data encoding • Data review and validation ❖ Clearing of issues and concerns encountered during training/workshop. ❖ Provincial Data Review ❖ Presentation of result by province (see attached power point presentation). 									
<p>Issues/concerns and resolutions:</p> <ul style="list-style-type: none"> ❖ Encoding and Data Validation. <table border="1"> <thead> <tr> <th>Issues/concerns</th> <th>Resolutions</th> </tr> </thead> <tbody> <tr> <td> All blocks - Erroneous data entries and missing data </td> <td> - Validated the encoded data from the survey returns. </td> </tr> <tr> <td> Block D- farm investment - Percent of use not indicated </td> <td> - Verified the item to the concerned SR. </td> </tr> <tr> <td> Block F- Labor Inputs - Inconsistencies of the verbatim answer to the corresponding codes. - Different classification of contract labor. </td> <td> - Verified the farm activities to the concerned SR. Corrected either the verbatim answer or the codes. - Contract labor is a combination of different activities which is paid as one lump sum amount. </td> </tr> </tbody> </table>		Issues/concerns	Resolutions	All blocks - Erroneous data entries and missing data	- Validated the encoded data from the survey returns.	Block D- farm investment - Percent of use not indicated	- Verified the item to the concerned SR.	Block F- Labor Inputs - Inconsistencies of the verbatim answer to the corresponding codes. - Different classification of contract labor.	- Verified the farm activities to the concerned SR. Corrected either the verbatim answer or the codes. - Contract labor is a combination of different activities which is paid as one lump sum amount.
Issues/concerns	Resolutions								
All blocks - Erroneous data entries and missing data	- Validated the encoded data from the survey returns.								
Block D- farm investment - Percent of use not indicated	- Verified the item to the concerned SR.								
Block F- Labor Inputs - Inconsistencies of the verbatim answer to the corresponding codes. - Different classification of contract labor.	- Verified the farm activities to the concerned SR. Corrected either the verbatim answer or the codes. - Contract labor is a combination of different activities which is paid as one lump sum amount.								

<p>Block G - Other production cost</p> <ul style="list-style-type: none"> - Extreme values particularly on transport cost of produce, value of box used and etc. 	<ul style="list-style-type: none"> - In the case of Bukidnon, transport cost of produce and boxes/crates used usually commanded high price due to distance from market.
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❖ Provincial Data Review

Issues/concerns	Resolutions
<ul style="list-style-type: none"> - What to do with the sample household who used seedlings as planting material? - Can we separate the items in the other production costs that have the high value? - Can we separate the quantity/usage of chicken dung in the fertilizers group? - Is it possible for the bigger discrepancy of the results of land rentals? - Why is it that the result of 2017 SCR Tomato at 32,307.15 yield kilogram per hectare is far from the CSD Data at 19,640.00 yield kilogram per hectare? 	<ul style="list-style-type: none"> - To convert seedlings to seeds using the average planting materials used per hectare within the province. - Yes. These items are transport cost of produce, sack, box/crate and kaing. - Yes. - Yes. It is because of the different location of the farms. - The yield of SCR Tomato is not comparable with the yield of CSD data because the SCR Tomato has a qualifying question or screening question that "if a sample has twenty (20) percent or more of the harvest that were damaged by flood, drought, pests and diseases, etc. this is not included as a sample while the CSD Data covered all tomato farmers.

SUBMITTED BY:	NOTED BY:	
 NESTOR ASLEY S. NAVARRO Statistical Specialist II  JOHN CARLO C. KATIBAYAN Statistical Specialist I  ARJIE M. CANTANCIO Job Order  REVELYN R. LIZARDO Job Order	 MARIA CAROL G. DURAN Chief Statistical Specialist. Agricultural Accounts Division <hr/>	 VIVIAN R. ILARINA Assistant National Statistician Macroeconomic Accounts Service

No	Name of Participants	Position/Designation	Office
1.	Maria Carol G. Duran	Chief Statistical Specialist	PSA-Central Office
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10.	Maria Evangeline N. Non	Statistical Specialist II	PSA, RSSO 10
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M. L. Lizardo

2017 COSTS and RETURNS of TOMATO PRODUCTION in BUKIDNON



Results of the Training on Data Processing System

Virgilio A. Item Jr.

07 December 2017



Observations



No. of Encoded Samples: 75

Topic	Issues / Concerns	Resolutions
All blocks	Missing entries	Validated the data from survey returns. Edit the encoded data.
Block D – Farm Investment	Determining on percent of use	Verified the SR.
Block F – Labor	Inconsistencies in verbatim answer and corresponding codes: Hilling up = 700 Trellising = 700	Recoding was done: >>code 607 >>code 601
	Different Classification of the Contract Labor	Based on 2017 SCR Tomato Production Survey, contract labor was a combination of different activities which is paid as one lump sum amount.

Observations



Topic	Issues / Concerns	Resolutions
Block G – Other Production Cost	Extreme values particularly on transport cost of produce, value box used and etc.	Verify in the survey returns

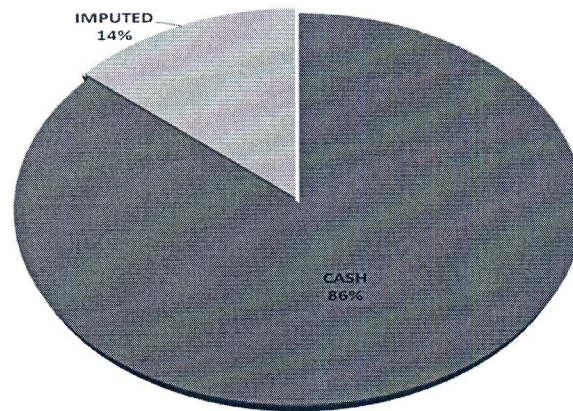
Results

Average costs and returns of tomato production per hectare, Province,
January - September 2017

Per Hectare										Per Kilogram	
Yield (kg)	Cash Costs (pesos)	Non-cash Costs (pesos)	Imputed Costs (pesos)	Total Costs (pesos)	Gross Returns (pesos)	Returns Above Cash Costs (pesos)	Returns Above Cash and Non-cash Costs (pesos)	Net Returns (pesos)	Net Profit-Cost Ratio	Total Costs (pesos)	Gross Returns (pesos)
32, 307.15	248, 986.87	0	39, 247.17	288, 234.04	521,692.60	272,705.72	272,705.72	233,458.56	0.81	8.92	16.15

Area planted (hectare):
65.5270
Number of farms :
75

Percent Share of Major Cost Items to Total Costs, MISAMIS ORIENTAL
JANUARY 2017- SEPTEMBER 2017



- There is Non-Cash Cost.

Results

Cash Costs

Item	Qty	Val	Per Hectare			Per Kilogram (pesos)
			Quantity	Unit	Value	
CASH		16,315,362.69			248,386.87	7.71
Seeds Cash	0.18	320,500.00	0.09	KG	4,891.12	0.15
Fertilizer Solid Cash	58,998.00	1,249,744.00	900.33	KG	19,072.20	0.59
Fertilizer Solid Discounted	1,887.54	38,940.90	28.46	KG	682.22	0.02
Fertilizer Liquid Cash	111.78	22,010.00	1.71	Liter	335.89	0.01
Chicken Dung Solid Cash	389,005.00	669,840.00	5,936.56	KG	10,222.35	0.32
Organic Solid Cash	16,020.00	11,600.00	229.22	KG	177.09	0.01
Soil amirasant Solid Cash	89,935.00	46,550.00	1,087.27	KG	710.39	0.02
Mulching material Cash	1,100.00	17,000.00	18.79	KG	289.44	0.01
Pesticides Solid Cash	6,786.85	1,470,179.00	88.00	KG	22,458.23	0.68
Pesticides Solid Discounted	24.84	12,144.00	0.38	KG	185.33	0.01
Pesticides Liquid Cash	1,659.58	1,271,763.00	26.31	Liter	19,409.20	0.60
Pesticides Liquid Discounted	21.60	13,220.00	0.39	Liter	201.75	0.01
Hired labor	19,242.88	4,085,940.83	293.66	Mandays	62,370.33	1.88
Land tax		3,382.33			51.63	0.00
Carstaker/overseers		37,837.50			577.43	0.02
Other permanent employee		46,600.00			711.16	0.02
Rentals Land		341,300.00			5,208.54	0.16
Rentals Animals		3,400.00			61.89	0.00
Rentals Tools and Equipment		300.00			4.58	0.00
Fuel	3,708.13	147,117.50	56.59	Liter	2,248.14	0.07
Oil	90.50	16,035.00	1.35	Liter	275.23	0.01
Transport cost of inputs		191,937.00			2,787.36	0.08
Transport cost of produce		1,644,190.00			28,205.01	0.87
Interest payment on crop loan		22,780.48			347.65	0.01
Storage fee		403,335.00			6,165.26	0.19
Water expense		4,400.00			69.09	0.00
Electricity cost		1,859.00			28.78	0.00
Repairs		191,451.97			2,822.18	0.08
Food expense for hired and exchange l.		419,310.00			6,399.04	0.20
Landowner's share		354,302.60			5,017.41	0.19
Financier's share		355,695.00			5,425.22	0.17
Sack/Grate/Box/Bagging		2,239,622.00			35,094.27	1.08
Seeding bag		8,420.00			128.50	0.00
Wood stakes		135,187.50			2,093.08	0.06
Straw thine		127,610.00			1,947.44	0.06
Others		95,375.98			1,456.52	0.05

- For Cash Costs, the highest cost items were Hired Labor Cost and Transport Cost while the lowest costs items were Rentals Tools and Equipment, Electricity cost and water expense.

Results

Imputed Costs

Item	Qty	Val	Per Hectare			Per Kilogram (pesos)
			Quantity	Unit	Value	
IMPUTED		2,571,749.03			39,247.17	1.21
Seeds Received	3.69	12,550.00	0.06	KG	191.52	0.01
Seeds Own Produced	2.80	9,410.00	0.04	KG	143.60	0.00
Seedlings Own Produced	12,000.00	1,200.00	183.13	Piece	16.31	0.00
Fertilizer Solid Received	100.00	1,400.00	1.53	KG	21.37	0.00
Fertilizer Solid Discount	132.46	2,989.10	2.02	KG	45.62	0.00
Pesticides Solid Discount	2.15	1,055.00	0.03	KG	16.12	0.00
Pesticides Liquid Discount	2.40	1,280.00	0.04	Liter	19.63	0.00
Operator Labor	2,297.44	393,605.63	35.06	Mandays	6,006.77	0.19
Family Labor	854.75	145,387.50	13.04	Mandays	2,216.74	0.07
Depreciation		604,365.08			9,223.15	0.29
Interest on operating capital		482,044.72			7,358.43	0.23
Land tax		3,140.00			47.92	0.00
Rentals Land		31,000.00			473.09	0.01
Rentals Machine		12,750.00			194.68	0.01
Rentals Animals		12,650.00			192.05	0.01
Rentals Tools and Equipment		8,000.00			122.09	0.00
Rental Value of Owned Land		399,250.00			5,940.30	0.18
Rental Value of Owned Animals		46,670.00			710.70	0.02
Transport cost of inputs		81,605.00			1,245.36	0.04
Transport cost of produce		265,690.00			4,359.88	0.13
Storage fee		1,900.00			29.00	0.00
Water expense		37,906.01			578.48	0.02
Seeding bag		5,000.00			76.30	0.00
Others		1,000.00			15.26	0.00

For Imputed Costs, the biggest cost items were depreciation and interest on operating capital while the lowest cost item were the discounted solid pesticides and other cost.

Results

Provincial summary

Area Harvested	Yield per kilogram		
	Price per KG	Quantity	Value
65.527	16.15	32,307.15	521,692.60

Results

Provincial summary

Planting Materials			
Seeds Quantity	Seeds Value	Seedlings Quantity	Seedlings Value
0.19	5,226.25	183.13	18.31
Fertilizer			
Solid Quantity	Solid Value	Liquid Quantity	Liquid Value
927.80	19,680.04	1.71	335.89
Pesticides			
Solid Quantity	Solid Value	Liquid Quantity	Liquid Value
88.42	22,637.68	25.68	19,629.51

Results

Provincial summary

Labor							
Operator Mandays	Operator Wages	Family Mandays	Family Wages	Hired Mandays	Hired Wages	Total Labor Mandays	Total Labor Wages
35.06	6,006.77	13.04	2,218.74	293.66	62,370.33	341.77	70,595.85

Results

Yield and Farmgate Price, Province,
2017 SCR Tomato vs. CSD and PSD Data

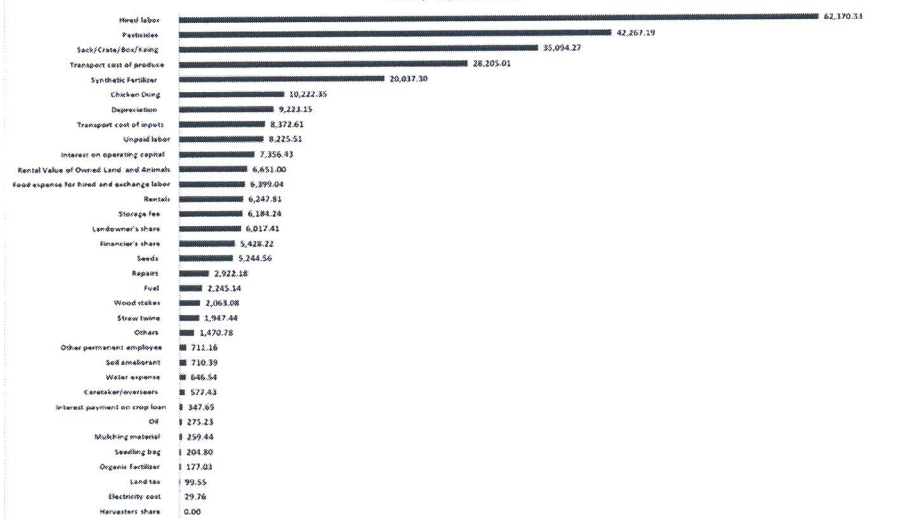
Yield			Price per Kg		
2017 SCR Tomato (Kg per Ha)	CSD Data (Kg per Ha)*	CSD Data (Kg per Ha)**	2017 SCR Tomato (Gross Returns per Kg)	PSD Data (Farmgate Price per Kg)*	PSD Data (Farmgate Price per Kg)**
32,307.15	19,640.00	18,110.00	16.15	16.23	16.08

* 2016 data (annual average) from <http://countrystat.psa.gov.ph>

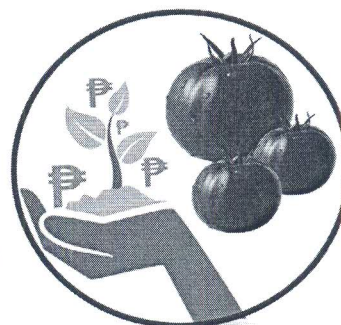
** 2017 data (1st sem) from <http://countrystat.psa.gov.ph>

Results

Average Costs per Hectare of Tomato Production, Province,
January - September 2017



2017 COSTS and RETURNS of TOMATO PRODUCTION in *MISAMIS ORIENTAL*



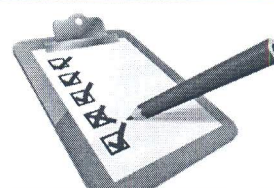
Results of the Training on Data Processing System

LUIS B. COMPO
MARLON T. GALINDO

07 DECEMBER 2017



Observations



No. of Encoded Samples: 75

Topic	Issues / Concerns	Resolutions
General Encoding Process	<ul style="list-style-type: none"> Erroneous entry of the data 	corrected the entry
Data Review and Validation	<ul style="list-style-type: none"> Double entry of costs. Code vs verbatim Percentage used in parcel 	Verify from the enumerator and the respondent

Results

Average costs and returns of tomato production per hectare, Province,
September 2016 – May 2017

Per Hectare										Per Kilogram	
Yield (kg)	Cash Costs (pesos)	Non-cash Costs (pesos)	Imputed Costs (pesos)	Total Costs (pesos)	Gross Returns (pesos)	Returns Above Cash Costs (pesos)	Returns Above Cash and Non-cash Costs (pesos)	Net Returns (pesos)	Net Profit-Cost Ratio	Total Costs (pesos)	Gross Returns (pesos)
23,388.09	194,583.41	0.00	44,409.05	238,992.46	307,963.46	113,380.05	113,380.05	68,970.99	0.29	10.72	13.17

Area planted (hectare):

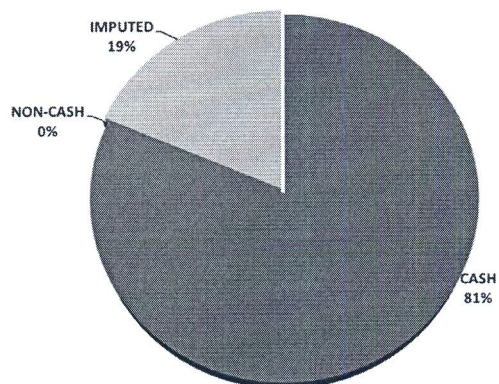
55.415

Number of farms :

75

Results

Percent Share of Major Cost Items to Total Costs, MISAMIS ORIENTAL
JANUARY 2017- SEPTEMBER 2017



Results

Cash Costs

Item	Per Hectare			Per Kilogram (pesos)
	Quantity	Unit	Value	
CASH			179,997.41	7.20
Seeds Cash	0.08	KG	4,954.88	0.21
Seeds Discounted	5.89	KG	1,089.90	0.08
Fertilizer Solid Cash	809.55	KG	15,125.14	0.05
Fertilizer Solid Discounted	120.54	KG	2,118.65	0.09
Fertilizer Liquid Cash	0.31	Liter	39.61	0.09
Chicken Dung Solid Cash	4,180.64	KG	10,252.04	0.44
Organic Solid Cash	28.17	KG	185.12	0.01
Soil ameliorant Solid Cash	1,087.43	KG	909.50	0.04
Mulching material Cash	50.84	KG	875.21	0.04
Pesticides Solid Cash	39.48	KG	8,357.25	0.38
Pesticides Solid Discounted	14.56	KG	3,378.99	0.14
Pesticides Liquid Cash	13.48	Liter	9,268.81	0.40
Pesticides Liquid Discounted	2.74	Liter	2,082.25	0.09
Hired labor	228.24	Mandays	55,905.21	2.39
Land tax			229.32	0.01
Caretaker/overseers			740.69	0.03
Rentals Land			496.26	0.02
Rentals Machine			198.50	0.01
Rentals Animals			364.52	0.02
Rentals Tools and Equipment			329.33	0.01
Fuel	29.88	Liter	1,304.88	0.04
Oil	0.70	Liter	717.68	0.03
Transport cost of inputs			1,584.29	0.07
Transport cost of produce			20,774.75	0.89
Interest payment on crop loan			389.77	0.02
Storage fee			90.23	0.00
Water expense			11.65	0.00
Electricity cost			79.94	0.00
Repairs			3,801.92	0.18
Food expense for hired and exchange			6,415.23	0.27
Landowner's share			112.72	0.00
Financier's share			2,024.11	0.09
Sack/Crate/Box/Kaing			23,952.45	1.02
Seeding bag			30.32	0.00
Wood stakes			943.52	0.04
Straw twine			839.05	0.04

Top 3 Contributed to highest cost;

- 1.HIRED LABOR (55,905.21)
2. Transport cost of Produced (20,774.75)
- 2.SACK/CRATE/BOX/KAING (23,952.45)

Results

Imputed Costs

Item	Per Hectare			Per Kilogram (pesos)
	Quantity	Unit	Value	
IMPUTED			42,617.40	1.82
Seeds Received	0.00	KG	118.45	0.01
Seeds Discount	0.63	KG	130.29	0.01
Seeds Own Produced	0.00	KG	94.74	0.00
Fertilizer Solid Discount	11.37	KG	218.98	0.01
Mulching material Own Produced	37.40	KG	176.62	0.01
Pesticides Solid Discount	1.65	KG	395.16	0.02
Pesticides Liquid Discount	0.31	Liter	233.15	0.01
Operator Labor	28.80	Mandays	6,164.04	0.26
Family Labor	27.29	Mandays	5,561.74	0.24
Depreciation			7,482.81	0.32
Interest on operating capital			5,874.90	0.25
Land tax			85.49	0.00
Rentals Land			711.00	0.03
Rentals Machine			12.63	0.00
Rentals Animals			208.97	0.01
Rentals Tools and Equipment			525.13	0.02
Rental Value of Owned Land			1,288.46	0.06
Rental Value of Owned Animals			2,050.81	0.09
Transport cost of inputs			1,013.53	0.04
Transport cost of produce			8,858.25	0.38
Storage fee			9.93	0.00
Water expense			364.88	0.02
Sack/Crate/Box/Kaing			7.94	0.00
Seeding bag			325.09	0.01
Wood stakes			494.45	0.02
Straw twine			53.23	0.00
Others			146.71	0.01

- biggest cost item were;

- 1.Transport cost of product (8,858.25)
- 2.Depreciation (7,482.81)
- 3. Operator labor (6,164.04)

Results

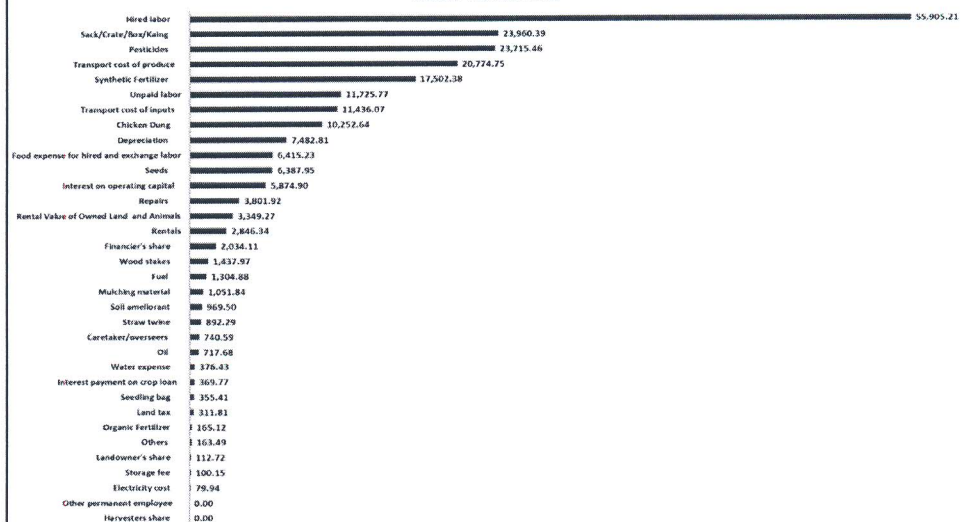
Yield and Farmgate Price, Misamis Oriental,
2017 SCR Tomato vs. CSD and PSD Data

Yield		Price per Kg	
2017 SCR Tomato (Kg per Ha)	CSD Data (Kg per Ha)* Jan-June 2017	2017 SCR Tomato (Gross Returns per Kg)	PSD Data (Farmgate Price per Kg)* Jan-June 2017
23,388.09	13,670.00	13.17	13.31

* 2017 data (1st semester) from <http://countrystat.psa.gov.ph>

Results

Average Costs per Hectare of Tomato Production, Province,
January - September 2017



Summary of Yield and Inputs

Area Harvested	Yield per kilogram			Planting Materials		Fertilizer			
	Price per KG	Quantity	Value	Seeds Quantity	Seeds Value	Solid Quantity	Solid Value	Liquid Quantity	Liquid Value
55.415	13.17	23,388.09	307,963.46	6.38	6,387.95	741.46	17,462.77	0.31	39.61

Pesticides				Labor							
Solid Quantity	Solid Value	Liquid Quantity	Liquid Value	Operator Mandays	Operator Wages	Family Mandays	Family Wages	Hired Mandays	Hired Wages	Total Labor Mandays	Total Labor Wages
55.67	12,131.41	16.53	11,584.05	28.80	6,164.04	27.29	5,561.74	228.34	55,905.21	284.44	67,630.98