ISSN-2012-0508



September 2017



#### **FOREWORD**

This annual publication entitled "Updated Production Costs and Returns of Selected Agricultural Commodities" is the second part of the 14<sup>th</sup> edition released by the Philippine Statistics Authority (PSA). It contains 26 agricultural commodities classified into Fruits, Nuts, Root Crops, Vegetables, Legumes, Commercial Crops and Fisheries. The publication covers the three reference years, 2014 to 2016. It includes summary of findings for the 2016 data.

The costs of production of temporary crops are the total expenses incurred in production during the current season. For permanent crops like calamansi, durian, mango, papaya, coffee, cashew and pili nuts, costs of production refer to maintenance costs of the farms. In updating the costs of production, the assumptions are based on current levels of production/yield and prices of inputs and outputs. Gross returns are derived using the current yield level and average price of output per kilogram. The interest on operating capital is updated annually, using the Average Banking Lending Rates from the Bangko Sentral ng Pilipinas (BSP). The input structures are based on benchmarks generated by the Costs and Returns Surveys (CRS) of selected agricultural commodities in the previous years.

The PSA welcomes comments and suggestions from the data users on how to improve the updating system for production costs and returns.

Lisa GRACE S. BERSALES, Ph.D.

Undersecretary

National Statistician and Civil Registrar General

#### **TABLE OF CONTENTS**

TITLE	PAGE
Foreword	i
Table of Contents	ii
List of Figures	iii
List of Tables	iv
Assumptions and Procedures Used in Updating the Cost of Production for Other Crops	V
Assumptions and Procedures Used in Updating the Cost of Production for Milkfish and Tilapia	∨i
Summary of Findings	1
FRUITS	
Calamansi	1
Durian	1
Mango	2
Papaya	2
Pineapple	3
Watermelon	3
NUTS	
Cashew	4
Pili	4
ROOT CROPS	
Cassava	5
Sweet Potato	5
BULBS	
Onion (Bulb)	6
Onion (Multiplier)	6
Garlic	7
VEGETABLES	
Ampalaya	7
Cabbage	8
Carrot	8
Cauliflower	9
Eggplant	9
Habitchuelas	10
White Potato	10
Stringbeans	11
Tomato	11
LEGUMES	
Mongo	12
Peanut	12
COMMERCIAL CROP	
Coffee	13
FISHERIES	
Milkfish	13
Tilapia	14

#### LIST OF FIGURES

FIGURE NO.	TITLE	PAGE
1	Return on Investments of Selected Fruits, Philippines, 2015 - 2016	18
2	Return on Investments of Selected Nuts, Philippines, 2015 - 2016	26
3	Return on Investments of Selected Root Crops, Philippines, 2015 - 2016	30
4	Return on Investments of Selected Bulbs, Philippines, 2015 - 2016	34
5	Return on Investments of Selected Vegetables, Philippines, 2015 - 2016	39
6	Return on Investments of Selected Legumes, Philippines, 2015 - 2016	49
7	Return on Investments of Coffee, Philippines, 2015 - 2016	54
8	Return on Investments of Selected Fisheries, Philippines, 2015 - 2016	57

#### **LIST OF TABLES**

TABLE NO.	TITLE	PAGE
А	Summary of Updated Average Costs of Production, Selected Commodities, Philippines, 2016	16
1	Calamansi: Updated Average Costs of Production, Philippines, 2014 - 2016	19
2	Durian: Updated Average Costs of Production, Philippines, 2014 - 2016	20
3	Mango: Updated Average Costs of Production, Philippines, 2014 - 2016	21
4	Papaya: Updated Average Costs of Production, Philippines, 2014 - 2016	22
5	Pineapple: Updated Average Costs of Production, Philippines, 2014 - 2016	23
6	Watermelon: Updated Average Costs of Production, Philippines, 2014 - 2016	24
7	Cashew Nuts: Updated Average Costs of Production, Philippines, 2014 - 2016	27
8	Pili Nuts: Updated Average Costs of Production, Philippines, 2014 - 2016	28
9	Cassava: Updated Average Costs of Production, Philippines, 2014 - 2016	31
10	Sweet Potato: Updated Average Costs of Production, Philippines, 2014 - 2016	32
11	Onion (Red): Updated Average Costs of Production, Philippines, 2014 - 2016	35
12	Onion (Multiplier): Updated Average Costs of Production, Philippines, 2014 - 2016	36
13	Garlic: Updated Average Costs of Production, Philippines, 2014 - 2016	37
14	Ampalaya: Updated Average Costs of Production, Philippines, 2014 - 2016	40
15	Cabbage: Updated Average Costs of Production, Philippines, 2014 - 2016	41
16	Carrot: Updated Average Costs of Production, Philippines, 2014 - 2016	42
17	Cauliflower: Updated Average Costs of Production, Philippines, 2014 - 2016	43
18	Eggplant: Updated Average Costs of Production, Philippines, 2014 - 2016	44
19	Habitchuelas: Updated Average Costs of Production, Philippines, 2014 - 2016	45
20	White Potato: Updated Average Costs of Production, Philippines, 2014 - 2016	46
21	Stringbeans: Updated Average Costs of Production, Philippines, 2014 - 2016	47
22	Tomato: Updated Average Costs of Production, Philippines, 2014 - 2016	48
23	Mongo: Updated Average Costs of Production, Philippines, 2014 - 2016	50
24	Peanut: Updated Average Costs of Production, Philippines, 2014 - 2016	51
25	Coffee: Updated Average Costs of Production, Philippines, 2014 - 2016	55
26	Milkfish: Updated Average Costs of Production, Philippines, 2014 - 2016	58
27	Tilapia: Updated Average Costs of Production, Philippines, 2014 - 2016	59

## ASSUMPTIONS AND PROCEDURES USED IN UPDATING THE COSTS OF PRODUCTION FOR OTHER CROPS

ITEM	BASIS/PROCEDURE
Cost of seeds/planting materials	
(Cash, Non-cash and Imputed)	
2. Irrigation fee	
3. Lease rental	movement of the farmgate price
4. Rental value of owned land	
5. Landlord's share	
6. Harvester/thresher/sheller's share	- movement of the gross value of yield
7. Cost of fertilizer	<ul> <li>quantity used from the survey results multiplied by the current retail price of fertilizer by grade</li> </ul>
8. Cost of pesticides	
Solid	- movement of the retail price for selected pesticides
Liquid	<ul> <li>quantity used from the survey results multiplied by the current retail price of pesticides</li> </ul>
9. Soil ameliorants	- movement of the retail price of fertilizer
10. Cost of mulching materials	- movement of the retail price of fertilizer
11. Labor costs (hired, unpaid operator, family and exchange labor	<ul> <li>number of mandays from the survey results multiplied by the current agricultural wage rates</li> </ul>
12. Rentals (tools, equipment, machine and animals)	- movement of agricultural wage rates
13. Food cost	- movement of CPI for food
14. Transport cost	- movement of CPI for transport
15. Fuel and oil	- movement of CPI for fuel and oil
16. Repair cost	- movement of CPI for minor repairs
17. Electricity cost	- movement of CPI for light
18. Interest on crop loans	- increase of ten (10.0) percent per annum
19. Other production costs	- movement of CPI for all items
20. Depreciation cost	- increase of ten (10.0) percent per annum
21. Interest on operating capital	- based on Average Lending Rates from BSP
22. Land tax	- increase of one (1.0) percent per annum

### ASSUMPTIONS AND PROCEDURES USED IN UPDATING THE COSTS OF PRODUCTION FOR MILKFISH AND TILAPIA

ITEM	BASIS/PROCEDURE
1. Stocking materials (fry, fingerlings)	- movement of farmgate prices
(Cash, Non-cash and Imputed)	
2. Fertilizer	
Organic	- movement of the average retail prices of all fertilizer types
Inorganic	quantity used from the survey results multiplied by the current retail price of fertilizer by grade
3. Feeds	- movement of CPI for all items
4. Pesticides, other chemicals, other inputs	- movement of the retail prices for all types of pesticides
5. Land tax	- 1% per annum
6. Rental: Land	- movement of farmgate prices
Machine, tools and equipment	
7. Labor cost (hired, unpaid operator, family and exchange labor	movement of agricultural wage rates
8. Fuel and oil	- movement of CPI for fuel and oil
9. Transport cost of inputs	- movement of CPI for transport
10. Irrigation fee	- movement of farmgate prices
11. License/permit	- movement of Fishpond Lease Agreement (FLA) rates
12. Interest payment on crop loans	- increase of 10.0 percent per annum
13. Electricity	- movement of CPI for light
14. Food expense	- movement of CPI for food
15. Repairs	- movement of CPI for minor repairs
16. Other expense (containers, etc)	- movement of CPI for all items
17. Other laborer's share	- movement of agricultural wage rates
18. Landlord's share	- movement of farmgate prices
19. Harvester's share	- movement of gross value of yield
20. Lease rental	- movement of farmgate prices
21. Depreciation	- increase of 10.0 percent per annum
22. Interest on operating capital	- based on Average Lending Rates from BSP
23. Rental value of owned land	- movement of farmgate prices

#### **SUMMARY OF FINDINGS**

#### **FRUITS**

#### **CALAMANSI**

- The cost of maintenance in calamansi production amounted to PhP63,176 per hectare in 2016. Average yield at 5,965 kilograms per hectare was valued at PhP118,942 during the same year.
- Returns after deducting cash costs amounted to PhP75,364 per hectare. Less of cash and non-cash costs, earnings stood at PhP74,131.
- Producers of calamansi netted PhP55,766 per hectare during the reference year.
- Production cost per kilogram averaged PhP10.59. Farmgate price was PhP19.94 per kilogram.
- Producers earned PhP0.88 for every peso invested in calamansi production in 2016.

#### **DURIAN**

- In 2016, production of durian entailed an average cost of PhP95,627 per hectare. Yield per hectare of 4,299 kilograms grossed PhP180,945.
- Returns above cash costs averaged PhP157,792 per hectare. After subtracting cash and non-cash costs, returns amounted to PhP104,390 per hectare.
- Net returns from durian production settled at PhP85,318 per hectare.
- Per kilogram, the average cost of producing durian was PhP22.24 while the farmer's selling price was PhP42.09 in 2016.
- Net profit-cost ratio was computed at 0.89.

#### MANGO

- The maintenance cost in mango production in 2016 averaged PhP77,646 per hectare, in 2016. With an average yield of mango at 4,334 kilograms, earnings amounted to PhP146,923 per hectare.
- Returns above cash costs amounted to PhP103,378 per hectare. When both cash and non-cash costs were deducted, returns settled at PhP97,559 per hectare.
- Net profit was estimated at PhP69,277 per hectare.
- Production cost per kilogram stood at PhP17.92 while farmgate price averaged PhP33.90 per kilogram.
- For every peso invested in mango production, farmers netted PhP0.89 in 2016.

#### **PAPAYA**

- The cost of maintenance for producing a hectare of papaya amounted to PhP149,000 in 2016. Production per hectare was 20,738 kilograms corresponding to gross receipts of PhP173,992.
- After cash expenses were deducted, returns averaged PhP62,766. Returns after subtracting cash and non-cash costs amounted to PhP62,530 per hectare.
- After all costs were deducted, net profit was PhP24,992 per hectare in 2016.
- On a per kilogram basis, the production cost was PhP7.18 and the farmgate price was PhP8.39.
- The net profit-cost ratio in papaya production settled at 0.17.

#### **PINEAPPLE**

- The cost of producing a hectare of pineapple averaged PhP79,722 in 2016. Yield per hectare of 40,054 kilograms grossed PhP359,284.
- Returns after deducting cash costs amounted to PhP295,220 per hectare.
   Meanwhile, after all cash and non-cash costs were deducted, returns settled at PhP294,245 per hectare in 2016.
- Net of all costs, profit reached PhP279,562 per hectare.
- Production cost per kilogram stood at PhP1.99 while farmgate price was PhP8.97 per kilogram.
- Producers netted PhP3.51 for every peso invested in pineapple production during the reference year.

#### WATERMELON

- In 2016, watermelon production incurred an average cost of PhP64,990 per hectare. With a yield of 20,316 kilograms per hectare, gross receipts averaged PhP256,794 during the same year.
- Per hectare, returns above cash costs figured to PhP214,079 while returns above the combined cash and non-cash costs amounted to PhP213,492.
- Net returns from watermelon production settled at PhP191,804 in 2016.
- Per kilogram, the estimated production cost was PhP3.20. Price received by farmers averaged PhP12.64 per kilogram.
- In 2016, the net profit-cost ratio in watermelon production was 2.95.

#### **NUTS**

#### **CASHEW NUTS**

- The costs incurred in cashew nuts production averaged PhP6,925 in 2016. Gross earnings amounted to PhP23,382 corresponding to a yield of 755 kilograms per hectare.
- When cash costs were deducted, returns averaged PhP22,383 per hectare. Subtracting both the cash and non-cash costs, returns amounted to PhP21,914 per hectare in 2016.
- After all costs were deducted, net returns amounted to PhP16,457 per hectare.
- The average cost of producing cashew nuts per kilogram was PhP9.17. The price quoted by farmers was PhP30.97 per kilogram.
- For every peso invested in cashew nut farming, farmers earned PhP2.38 in 2016.

#### **PILI NUTS**

- The average cost of pili nut production amounted to PhP29,319 per hectare. Average yield per hectare was 3,192 kilograms equivalent to gross receipts of PhP140,895 in 2016.
- Returns above cash costs amounted to PhP132,782 per hectare. Returns above cash and non-cash costs averaged PhP120,949 per hectare.
- Net returns reached PhP111,576 per hectare.
- Per kilogram, production cost averaged PhP9.19 while farmgate price was estimated at PhP44.14.
- Net profit-cost ratio was 3.81 in 2016.

#### **ROOTCROPS**

#### **CASSAVA**

- The cost of producing a hectare of cassava tubers in 2016 averaged PhP34,297. Yield per hectare at 11,991 kilograms grossed PhP75,064 during the period.
- Returns generated after deducting cash costs amounted to PhP55,822 per hectare. Less of cash and non-cash costs, returns settled at PhP55,042 per hectare.
- After all costs were subtracted, producers of cassava netted PhP40,767 per hectare in 2016.
- On a per kilogram basis, average production cost was PhP2.86 while producer's price stood at PhP6.26.
- Net profit-cost ratio was estimated at 1.19 in 2016.

#### **SWEET POTATO**

- Sweet potato recorded an average production cost of PhP31,322 per hectare in 2016. The yield per hectare at 6,247 kilograms generated gross earnings of PhP93,960.
- Returns when cash costs were deducted averaged PhP83,755 per hectare. After subtracting both cash and non-cash costs, returns amounted to PhP79,924 per hectare.
- Net returns from sweet potato production averaged PhP62,638 per hectare during the reference year.
- Production cost per kilogram was estimated at PhP5.01. Farmer's selling price was PhP15.04 per kilogram.
- For every peso of investment in sweet potato production, farmers had a net gain of PhP2.00 in 2016.

#### **BULBS**

#### ONION (RED)

- Red onion production entailed an average cost of PhP148,212 per hectare in 2016. Yield per hectare of 9,469 kilograms corresponded to gross receipts of PhP499,869.
- Profit after cash costs were deducted averaged PhP383,815 per hectare while after cash and non-cash costs were deducted, returns figured to PhP374,948 per hectare.
- Net profit amounted to PhP351,657 per hectare in 2016.
- Per kilogram, production cost was PhP15.65, while farmgate price was PhP52.79.
- A peso invested in onion production generated net earnings of PhP2.37 during the reference period.

#### **ONION (MULTIPLIER)**

- The average production cost for the multiplier type of onion was estimated at PhP102,590 per hectare in 2016. Yield per hectare of 9,365 kilograms grossed PhP235,354 during the same year.
- With cash costs deducted, returns amounted to PhP178,192 per hectare while after cash and non-cash costs were accounted for, returns averaged PhP154,519 per hectare.
- After all costs were deducted, net returns averaged PhP132,764 per hectare in 2016.
- Production cost per kilogram settled at PhP10.95. The farmer's price was PhP25.13 per kilogram.
- Producers realized a net gain of PhP1.29 for every peso invested in this type of onion.

#### **GARLIC**

- In 2016, producers incurred an average cost of PhP108,125 per hectare in garlic production. Gross earnings of PhP221,936 were generated from a yield of 2,821 kilograms per hectare.
- Net of cash costs, returns amounted to PhP172,871 per hectare. After subtracting cash and non-cash costs, returns settled at PhP153,087 per hectare in 2016.
- After all costs were deducted, garlic producers netted an average of PhP113,811 per hectare.
- The cost of producing a kilogram of garlic was PhP38.32. Farmgate price was PhP78.66 per kilogram.
- A net gain of PhP1.05 was computed for every peso of investment in garlic production in 2016.

#### **VEGETABLES**

#### **AMPALAYA**

- Production cost of ampalaya averaged PhP162,649 per hectare in 2016. With yield per hectare of 8,309 kilograms, gross receipts amounted to PhP272,037.
- Returns above cash costs averaged PhP191,427 per hectare. Meanwhile, after cash and non-cash costs were accounted for, producers incurred returns of PhP188,132 per hectare during the reference year.
- With all costs deducted, ampalaya producers had a net profit of PhP109,388 per hectare in 2016.
- Per kilogram, production cost amounted to PhP19.58 and the price received by farmers was PhP32.74.
- In 2016, per peso invested in ampalaya production, producers gained PhP0.67.

#### **CABBAGE**

- Cabbage production incurred an average cost of PhP128,603 per hectare in 2016. Yield per hectare was 15,351 kilograms which grossed an average of PhP298,270.
- Returns after cash costs averaged PhP221,464 per hectare. When cash and non-cash costs were deducted, returns figured to PhP221,329 per hectare in 2016.
- After all costs were accounted for, cabbage producers netted PhP169,667 per hectare during the reference year.
- The production cost per kilogram of cabbage was PhP8.38. The farmgate price was PhP19.43 per kilogram in 2016.
- Net profit-cost ratio in cabbage production was estimated at 1.32.

#### **CARROT**

- In 2016, the average cost of producing a hectare of carrot amounted to PhP96,965. Yield of 14,323 kilograms per hectare was valued at PhP363,522.
- Returns above cash costs stood at PhP303,487 per hectare while returns above the combined cash and non-cash costs valued at PhP303,463 per hectare.
- After all costs were deducted, net profit averaged PhP266,557 per hectare in 2016.
- On a per kilogram basis, production cost of carrot was PhP6.77 while producer's selling price stood at PhP25.38.
- In 2016, farmers netted PhP2.75 per peso of investment in carrot production.

#### CAULIFLOWER

- In 2016, the cost of cauliflower production averaged PhP111,906 per hectare.
   Yield per hectare of 10,886 kilograms generated gross earnings of PhP367,838.
- Less of cash costs, returns averaged PhP291,042 per hectare. After deducting cash and non-cash costs, returns reached PhP285,983 per hectare.
- Net returns from cauliflower production averaged PhP255,932 per hectare in 2016.
- Production cost per kilogram of cauliflower averaged PhP10.28 while farmgate price was quoted at PhP33.79 per kilogram during the same year.
- Net profit-cost ratio in cauliflower production was 2.29.

#### **EGGPLANT**

- A one-hectare of eggplant production incurred an average cost of PhP131,822 in 2016. Average yield per hectare was 11,198 kilograms which corresponded to gross receipts of PhP217,241.
- After cash costs were subtracted, returns averaged PhP131,527 per hectare.
   Less of cash and non-cash costs, returns amounted to PhP128,169 per hectare.
- After all costs were accounted for, eggplant farmers netted PhP85,419 per hectare
- Per kilogram, production cost was computed at PhP11.77 and farmgate price was PhP19.40 in 2016.
- For every peso of investment in eggplant production, farmers netted PhP0.65.

#### **HABITCHUELAS**

- Habitchuelas production entailed an average cost of PhP84,297 in 2016.
   Gross earnings reached PhP121,610 at a yield per hectare of 4,596 kilograms.
- Net of cash costs, returns amounted to PhP78,742 per hectare. Meanwhile, after deducting the combined cash and non-cash costs, returns stood at PhP76,818 per hectare in 2016.
- Net profit in habitchuelas production averaged PhP37,313 per hectare in 2016.
- Production cost per kilogram averaged PhP18.34 while producer's price stood at PhP26.46 per kilogram.
- Net profit-cost ratio was estimated at 0.44 in 2016.

#### WHITE POTATO

- Per hectare, production cost of white potato averaged PhP188,774 in 2016. At a yield of 15,081 kilograms per hectare, farmers grossed PhP559,958 during the reference year.
- Gross returns less of cash costs amounted to PhP447,666 per hectare. When both cash and non-cash costs were deducted, returns figured to PhP434,678 in 2016.
- White potato producers in 2016 netted PhP371,184 per hectare after subtracting all costs.
- Average production cost of potato was PhP12.52 per kilogram. Farmers sold potato at PhP37.13 per kilogram during the reference year.
- In 2016, a peso invested in potato production generated a net gain of PhP1.97.

#### **STRINGBEANS**

- Stringbeans farmers incurred an average production cost of PhP149,647 per hectare in 2016. Average yield at 12,294 kilograms per hectare amounted to PhP333,786.
- After deducting cash costs, returns settled at PhP263,036 per hectare. Less
  of cash and non-cash costs, farmers earned PhP259,230 per hectare.
- Net profits averaged PhP184,139 per hectare.
- The cost of production per kilogram settled at PhP12.17 while the farmgate price was PhP27.15 per kilogram.
- The derived net profit-cost ratio was 1.23 in 2016.

#### **TOMATO**

- Tomato production in 2016 recorded an average cost of PhP94,904 per hectare. Yield per hectare was 13,009 kilograms. This was equivalent to gross earnings of PhP214,395.
- Less of cash costs, returns amounted to PhP142,894 per hectare. Net of cash and non-cash costs, returns averaged PhP139,298 per hectare during the reference year.
- After all costs were deducted, net returns amounted to PhP119,491 per hectare.
- Per kilogram, the cost of producing tomato was PhP7.30 and the price received by farmers was PhP16.48 during the year.
- A peso invested in tomato production netted PhP1.26 in 2016.

#### **LEGUMES**

#### **MONGO**

- In 2016, the cost of producing a hectare of mongo averaged PhP18,716. With a yield of 823 kilograms per hectare, mongo farmers grossed PhP44,395.
- After deducting cash costs, returns amounted to PhP37,182 per hectare.
   Less of the combined cash and non-cash costs, returns stood at PhP34,092 per hectare during the same year.
- Net returns in mongo production averaged PhP25,679 per hectare.
- Cost per kilogram of mongo production averaged PhP22.74. Farmers' quoted price was PhP53.93 per kilogram.
- For every peso invested in mongo production, a net gain of PhP1.37 was realized in 2016.

#### **PEANUT**

- Peanut growers recorded an average production cost of PhP33,681 per hectare in 2016. Gross earnings of PhP61,445 were generated from a yield of 1,575 kilograms per hectare.
- Net of cash costs, returns amounted to PhP42,484 per hectare. After cash and non-cash costs were subtracted, returns settled at PhP38,627 per hectare in 2016.
- Net of all costs, returns averaged PhP27,764 per hectare.
- On a per kilogram basis, production cost was PhP21.39 while farmgate price was PhP39.02.
- A farmer earned PhP0.82 per peso of investment in peanut production in 2016.

#### **COMMERCIAL CROP**

#### COFFEE

- The maintenance cost in coffee production averaged PhP33,696 per hectare in 2016. Yield per hectare of 599 kilograms corresponded to gross receipts of PhP48,675.
- Returns above cash costs amounted to PhP25,175 per hectare. Returns above cash and non-cash costs averaged PhP24,065 per hectare.
- Returns above all costs amounted to PhP14,979 per hectare in 2016.
- On the average, production cost per kilogram was PhP56.23 while farmer's price was quoted at PhP81.22 per kilogram.
- Growers netted PhP0.44 for every peso of investment in the production of coffee.

#### **FISHERIES**

#### **MILKFISH**

- In 2016, milkfish production in brackishwater fishpond entailed an average cost of PhP38,995 per hectare. Yield per hectare was 1,049 kilograms which grossed PhP89,280 during the same year.
- After deducting cash costs, returns figured to PhP59,187 per hectare. After cash and non-cash costs were subtracted, returns averaged PhP58,491 per hectare.
- Milkfish producers netted PhP50,285 per hectare.
- Per kilogram, production cost was PhP37.17 and farmgate price was quoted at PhP85.11.
- For every peso invested in milkfish production, growers earned PhP1.29 in 2016.

#### TILAPIA

- The cost of producing tilapia in 2016 averaged PhP264,944 per hectare. Yield per hectare of 5,574 kilograms grossed PhP394,416.
- Returns after cash costs were deducted averaged PhP164,339 per hectare.
   After subtracting cash and non-cash costs, returns amounted to PhP162,105 per hectare.
- After all costs were deducted, net returns settled at PhP129,472 per hectare in 2016.
- The cost of tilapia production per kilogram was estimated at PhP47.53. Producers' price stood at PhP70.76 per kilogram.
- For every peso of investment in tilapia production, net gain was PhP0.49 in 2016.

# TABLES AND FIGURES

Table A. Summary of Updated Average Costs of Production, Selected Commodities, Philippines, 2016

Commodity	Gross Returns (peso/ha)	Total Costs (peso/ha)	Net Returns (peso/ha)	Net Profit- Cost Ratio	Cost per Kilogram (PhP)	Yield per Hectare (kg/ha)	Farmgate Price (peso/kg)	Return on Investments (percent)
1. Calamansi	118,942	63,176	55,766	0.88	10.59	5,965	19.94	88
2. Durian	180,945	95,627	85,318	0.89	22.24	4,299	42.09	89
3. Mango	146,923	77,646	69,277	0.89	17.92	4,334	33.90	89
4. Papaya	173,992	149,000	24,992	0.17	7.18	20,738	8.39	17
5. Pineapple	359,284	79,722	279,562	3.51	1.99	40,054	8.97	351
6. Watermelon	256,794	64,990	191,804	2.95	3.20	20,316	12.64	295
7. Cashew Nuts	23,382	6,925	16,457	2.38	9.17	755	30.97	238
8. Pili Nuts	140,895	29,319	111,576	3.81	9.19	3,192	44.14	381
9. Cassava	75,064	34,297	40,767	1.19	2.86	11,991	6.26	119
10. Sweet Potato	93,960	31,322	62,638	2.00	5.01	6,247	15.04	200
11. Onion (Red)	499,869	148,212	351,657	2.37	15.65	9,469	52.79	237
12. Onion (Multiplier)	235,354	102,590	132,764	1.29	10.95	9,365	25.13	129
13. Garlic	221,936	108,125	113,811	1.05	38.32	2,821	78.66	105
14. Ampalaya	272,037	162,649	109,388	0.67	19.58	8,309	32.74	67
15. Cabbage	298,270	128,603	169,667	1.32	8.38	15,351	19.43	132
16. Carrot	363,522	96,965	266,557	2.75	6.77	14,323	25.38	275
17. Cauliflower	367,838	111,906	255,932	2.29	10.28	10,886	33.79	229
18. Eggplant	217,241	131,822	85,419	0.65	11.77	11,198	19.40	65
19. Habitchuelas	121,610	84,297	37,313	0.44	18.34	4,596	26.46	44
20. White Potato	559,958	188,774	371,184	1.97	12.52	15,081	37.13	197
21. Stringbeans	333,786	149,647	184,139	1.23	12.17	12,294	27.15	123
22. Tomato	214,395	94,904	119,491	1.26	7.30	13,009	16.48	126
23. Mongo	44,395	18,716	25,679	1.37	22.74	823	53.93	137
24. Peanut	61,445	33,681	27,764	0.82	21.39	1,575	39.02	82
25. Coffee	48,675	33,696	14,979	0.44	56.23	599	81.22	44
26. Milkfish	89,280	38,995	50,285	1.29	37.17	1,049	85.11	129
27. Tilapia	394,416	264,944	129,472	0.49	47.53	5,574	70.76	49

## **FRUITS**

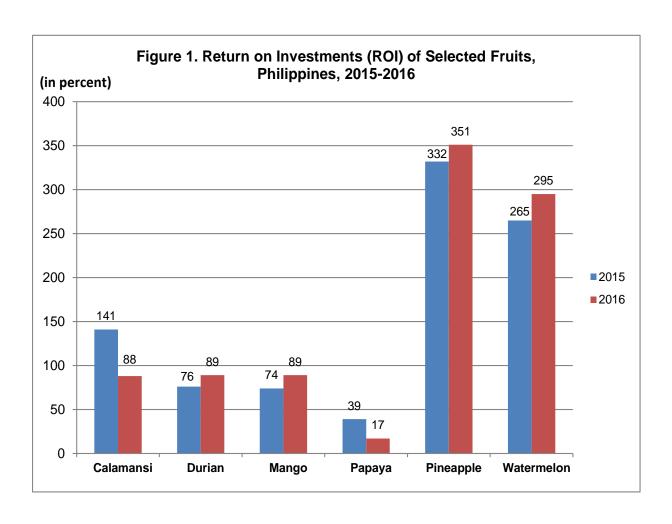


Table 1. Calamansi: Updated Average Costs of Production, Philippines, 2014 - 2016\*

ITEM	2014	2015R	2016P
	(in p	are)	
CASH COST	41,370	43,379	43,578
Fertilizer	5,467	5,223	5,185
Pesticides	921	915	919
Hired labor	29,726	31,931	32,083
Wages for overseer	634	681	684
Land tax	430	434	438
Rentals	121	115	120
Fuel and oil	636	580	579
Transport of inputs	579	579	581
Interest on crop loan	45	50	55
Food expense	1,289	1,323	1,356
Repairs	1,507	1,535	1,564
Irrigation fee	15	13	14
NON-CASH COST	1,377	1,279	1,233
Hired labor paid in kind	90	97	97
Wages for overseer (paid in kind)	336	361	363
Landlord's share	124	106	115
Harvester's share	463	403	320
Lease rental	364	312	338
IMPUTED COST	17,721	17,531	18,365
Operator and family labor	6,153	6,609	6,641
Exchange labor	12	13	13
Depreciation	2,428	2,671	2,938
Interest on operating capital	2,032	2,162	2,192
Rental value of owned land	7,096	6,076	6,581
TOTAL COSTS	60,468	62,189	63,176
GROSS RETURNS	172,237	149,802	118,942
RETURNS ABOVE CASH COSTS	130,867	106,423	75,364
RETURNS ABOVE CASH & NON-CASH COSTS	129,490	105,144	74,131
NET RETURNS	111,769	87,613	55,766
NET PROFIT- COST RATIO	1.85	1.41	0.88
Cost per kilogram (peso)	7.55	7.64	10.59
Yield/hectare (kg/ha)	8,011	8,137	5,965
Farmgate price (peso/kg)	21.50	18.41	19.94

<sup>\* -</sup> Refers to maintenance costs only

R - Revised estimates

P - Preliminary estimates

Table 2. Durian: Updated Average Costs of Production, Philippines, 2014 - 2016\*

ITEM	2014	2015R	2016P
	(in pesos in hectare)		
CASH COST	23,241	23,482	23,153
Fertilizer	12,430	12,095	11,455
Pesticides	550	547	549
Other material inputs	14	14	13
Hired labor	5,535	5,946	5,974
Land tax	1,147	1,158	1,170
Land rental	446	565	790
Transportation cost of inputs	1,201	1,201	1,205
Fuel and oil	13	12	12
Food expense	631	647	663
Repairs	1,274	1,297	1,322
NON-CASH COST	42,731	50,273	53,402
Hired labor (paid in kind)	27,939	30,012	30,156
Landlord's share	288	365	510
Harvester's share	14,504	19,896	22,736
IMPUTED COST	14,252	16,276	19,072
Operator/family labor	5,461	5,866	5,894
Exchange labor	346	372	374
Depreciation	2,409	2,650	2,915
Interest on operating capital	1,025	1,038	1,015
Rental value of owned land	5,011	6,350	8,874
ALL COSTS	80,224	90,031	95,627
GROSS RETURNS	115,427	158,341	180,945
RETURNS ABOVE CASH COSTS	92,186	134,859	157,792
RETURNS ABOVE CASH & NON-CASH COSTS	49,455	84,586	104,390
NET RETURNS	35,203	68,310	85,318
NET PROFIT-COST RATIO	0.44	0.76	0.89
Cost per kilogram (peso)	16.52	17.13	22.24
Yield per hectare (kg/ha)	4,856	5,257	4,299
Farmgate price (peso/kg)	23.77	30.12	42.09

<sup>\* -</sup> Refers to maintenance costs only

R - Revised estimates

P - Preliminary estimates

Table 3. Mango: Updated Average Costs of Production, Philippines, 2014 - 2016\*

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	43,257	43,813	43,545
Fertilizer	14,981	14,606	13,806
Pesticides	7,269	7,220	7,252
Hired labor	11,763	12,635	12,696
Land tax	815	823	831
Rentals	1,940	2,026	2,233
Water/electric bills	307	280	280
Fuel and oil	1,923	1,753	1,750
Interest on crop loan	1,508	1,659	1,825
Food expense	1,313	1,347	1,380
Repairs	1,438	1,464	1,492
NON-CASH COST	4,829	4,924	5,819
Hired labor (paid in kind)	739	794	798
Rentals (machine and vehicle)	138	148	149
Landlord's share	3,215	3,228	4,022
Harvesters' share	737	754	850
IMPUTED COST	24,236	26,143	28,282
Operator and family labor	5,856	6,291	6,321
Depreciation	14,210	15,631	17,194
Interest on operating capital	1,881	1,923	1,904
Rental value of owned land	2,289	2,298	2,863
ALL COSTS	72,322	74,880	77,646
GROSS RETURNS	127,506	130,363	146,923
RETURNS ABOVE CASH COSTS	84,249	86,550	103,378
RETURNS ABOVE CASH & NON-CASH COSTS	79,420	81,626	97,559
NET RETURNS	55,184	55,483	69,277
NET PROFIT-COST RATIO	0.76	0.74	0.89
Cost per kilogram (peso)	15.37	15.63	17.92
Yield per hectare (kg/ha))	4,705	4,791	4,334
Farmgate price (peso/kg)	27.10	27.21	33.90

<sup>\*-</sup> Refers to maintenance costs only

R - Revised estimates

P - Preliminary estimates

Table 4. Papaya: Updated Average Costs of Production, Philippines, 2014 - 2016\*

ITEM	2014	2015R	2016P	
	(in p	(in pesos per hectare)		
CASH COST	109,598	111,711	111,226	
Fertilizer	31,199	30,441	28,888	
Pesticides	4,480	4,450	4,471	
Other material inputs	10	10	9	
Hired labor	37,071	39,822	40,013	
Land tax	309	312	315	
Rentals	4,716	4,799	4,486	
Fuel and oil	10,900	9,939	9,924	
Transport costs of inputs	5,709	5,707	5,725	
Irrigation fee	83	79	72	
Interest on crop loan	9,780	10,758	11,834	
Food expenses	1,893	1,942	1,990	
Repairs	1,395	1,421	1,448	
Landlord's share	41	39	35	
Wages for overseer	129	139	140	
Electric bill	555	506	505	
Others	1,328	1,347	1,371	
NON-CASH COST	254	257	236	
Hired labor (paid in kind)	59	63	63	
Landlord's share	148	148	134	
Harvester's share	47	46	39	
IMPUTED COST	33,439	35,883	37,538	
Operator/family labor	10,004	10,746	10,798	
Depreciation	16,878	18,566	20,423	
Interest on operating capital	4,024	4,170	4,139	
Rental value of owned land	2,533	2,401	2,178	
ALL COSTS	143,291	147,851	149,000	
GROSS RETURNS	212,797	206,127	173,992	
RETURNS ABOVE CASH COSTS	103,199	94,416	62,766	
RETURNS ABOVE CASH & NON-CASH COSTS	102,945	94,159	62,530	
NET RETURNS	69,506	58,276	24,992	
NET PROFIT- COST RATIO	0.49	0.39	0.17	
Cost per kilogram (peso)	6.57	6.63	7.18	
Yield per hectare(kg/ha)	21,803	22,284	20,738	
Farmgate price (peso/kg)	9.76	9.25	8.39	

<sup>\* -</sup> Refers to maintenance costs only

R - Revised estimates

P - Preliminary estimates

Table 5. Pineapple: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P	
	(in pesos per hectare)			
CASH COST	60,733	62,051	64,064	
Seeds/planting materials	19,829	20,460	22,630	
Fertilizer	15,323	14,780	13,986	
Pesticides	1,617	1,606	1,613	
Other material inputs	1,010	975	922	
Hired labor	12,856	13,809	13,876	
Land tax	321	324	327	
Rentals	3,255	3,362	3,708	
Fuel and oil	102	93	93	
Transport of inputs	1,790	1,789	1,795	
Irrigation fee	254	262	290	
Interest on crop loan	1,598	1,758	1,934	
Food expenses	496	509	522	
Repairs	2,282	2,324	2,368	
NON-CASH COST	855	882	975	
Hired labor (paid in kind)	5	5	5	
Landlord's share	6	6	7	
Harvesters' share	4	4	4	
Lease rental	840	867	959	
IMPUTED COST	13,409	14,295	14,683	
Operator and family labor	8,064	8,662	8,704	
Exchange labor	413	444	446	
Depreciation	1,594	1,753	1,928	
Interest on operating capital	2,800	2,881	2,991	
Rental value of owned land	538	555	614	
ALL COSTS	74,997	77,228	79,722	
GROSS RETURNS	319,682	333,467	359,284	
RETURNS ABOVE CASH COSTS	258,949	271,416	295,220	
RETURNS ABOVE CASH & NON-CASH COSTS	258,094	270,534	294,245	
NET RETURNS	244,685	256,239	279,562	
NET PROFIT-COST RATIO	3.26	3.32	3.51	
Cost per kilogram (peso)	1.84	1.88	1.99	
Yield per hectare (kg/ha)	40,672	41,118	40,054	
Farmgate price (peso/kg)	7.86	8.11	8.97	

R - Revised estimates

P - Preliminary estimates

Table 6. Watermelon: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in p	are)	
CASH COST	41,868	43,088	42,715
Seeds/planting materials	667	721	773
Fertilizer	13,443	13,122	12,412
Pesticides	3,365	3,343	3,357
Other material inputs	53	52	49
Hired labor	18,137	19,483	19,576
Land tax	292	295	298
Rentals	1,891	2,038	2,107
Fuel and oil	1,026	936	935
Transport cost of inputs	328	328	329
Irrigation fee	51	55	59
Interest on crop loan	509	560	616
Food expenses	1,350	1,385	1,419
Repairs	756	770	785
NON-CASH COST	511	553	587
Seeds	64	69	74
Hired labor (paid in kind)	74	79	79
Landlord's share	77	83	89
Harvester's share	23	27	29
Lease rental	273	295	316
IMPUTED COST	19,818	21,287	21,688
Operator and family labor	13,721	14,739	14,810
Exchange labor	800	859	863
Depreciation	2,384	2,622	2,884
Interest on operating capital	1,972	2,049	2,040
Rental value of owned land	941	1,018	1,091
ALL COSTS	62,197	64,928	64,990
GROSS RETURNS	204,222	236,849	256,794
RETURNS ABOVE CASH COSTS	162,354	193,761	214,079
RETURNS ABOVE CASH & NON-CASH COSTS	161,843	193,208	213,492
NET RETURNS	142,025	171,921	191,804
NET PROFIT-COST RATIO	2.28	2.65	2.95
Cost per kilogram (peso)	3.32	3.23	3.20
Yield per hectare (kg/ha)	18,736	20,089	20,316
Farmgate price (peso/kg)	10.90	11.79	12.64

R - Revised estimates

P - Preliminary estimates

# NUTS

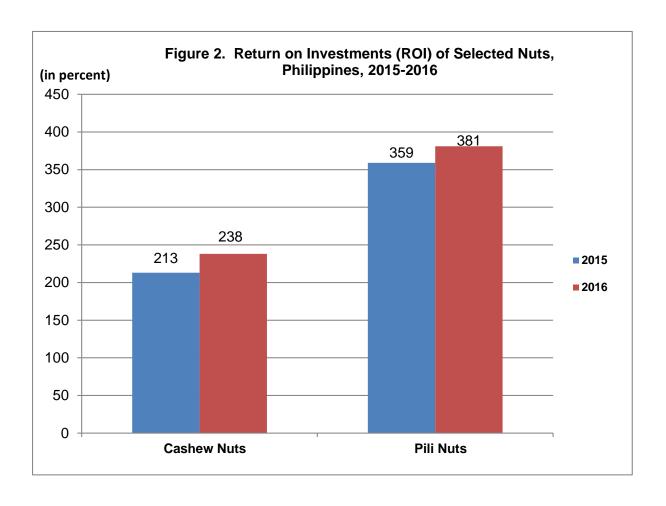


Table 7. Cashew Nuts: Updated Average Costs of Production, Philippines, 2014 - 2016\*

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	950	989	999
Fertilizer	2	2	2
Hired labor	422	453	455
Land tax	235	237	239
Food expense	111	114	117
Repairs	180	183	186
NON-CASH COST	414	455	469
Hired labor (paid in kind)	275	295	296
Landlord's share	50	51	53
Harvester's share	89	109	120
IMPUTED COST	5,041	5,350	5,457
Operator/family labor	3,488	3,747	3,765
Depreciation	279	307	338
Interest on operating capital	23	25	26
Rental value of owned land	1,251	1,271	1,328
ALL COSTS	6,405	6,794	6,925
GROSS RETURNS	17,414	21,282	23,382
RETURNS ABOVE CASH COSTS	16,464	20,293	22,383
RETURNS ABOVE CASH & NON-CASH COSTS	16,050	19,838	21,914
NET RETURNS	11,009	14,488	16,457
NET PROFIT-COST RATIO	1.72	2.13	2.38
Cost per kilogram (peso)	10.73	9.46	9.17
Yield per hectare (kg/ha)	597	718	<i>755</i>
Farmgate price (peso/kg)	29.17	29.64	30.97

<sup>\* -</sup> Refers to maintenance costs only

R - Revised estimates

P - Preliminary estimates

Table 8. Pili Nuts: Updated Average Costs of Production, Philippines, 2014 - 2016\*

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	7,559	8,024	8,113
Hired labor	5,703	6,126	6,155
Land tax	548	553	559
Lease rental	240	255	288
Transport of inputs	107	107	107
Food expense	483	496	508
Repairs	478	487	496
NON-CASH COST	9,921	10,576	11,833
Hired labor in kind	139	149	150
Landlord's share	2,268	2,408	2,715
Harvester's share	7,514	8,019	8,968
IMPUTED COST	8,246	8,843	9,373
Operator/family labor	4,061	4,362	4,383
Depreciation	767	844	928
Interest on operating capital	315	342	347
Rental value of owned land	3,103	3,295	3,715
ALL COSTS	25,726	27,443	29,319
GROSS RETURNS	118,058	125,985	140,895
RETURNS ABOVE CASH COSTS	110,499	117,961	132,782
RETURNS ABOVE CASH & NON-CASH COSTS	100,578	107,385	120,949
NET RETURNS	92,332	98,542	111,576
NET PROFIT-COST RATIO	3.59	3.59	3.81
Cost per kilogram (peso)	8.03	8.53	9.19
Yield per hectare (kg/ha)	3,202	3,218	3,192
Farmgate price (peso/kg)	36.87	39.15	44.14

<sup>\* -</sup> Refers to maintenance cost only

R - Revised estimates

P - Preliminary estimates

## **ROOT CROPS**

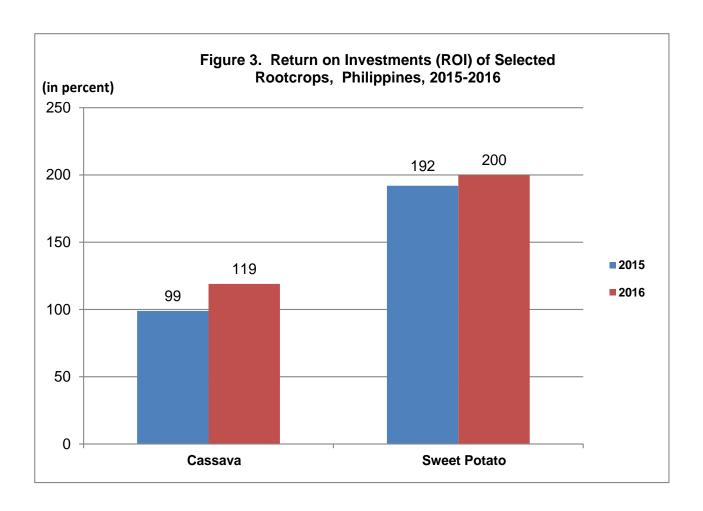


Table 9. Cassava: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014R	2015R	2016P
	(in p	esos per hect	are)
CASH COSTS	18,804	18,752	19,242
Planting materials	365	305	255
Fertilizer	3,656	3,611	3,605
Pesticides	288	286	287
Hired labor	8,224	8,835	8,877
Land tax	99	100	101
Caretaker/overseer's wages	170	171	172
Rentals	1,214	1,125	1,198
Fuel	60	60	60
Transport cost of inputs	59	59	59
Interest payment on crop loan	130	143	157
Landowner's share	3,095	2,587	2,971
Repairs	1,183	1,205	1,228
Food expense	205	210	215
Other costs	55	56	57
NON-CASH COSTS	812	682	780
Planting materials	649	542	623
Hired labor	16	17	17
Harvesters' share	28	24	27
Rentals	6	5	5
Landowner's share	113	94	108
IMPUTED COSTS	13,624	13,879	14,275
Planting materials	543	454	521
Fertilizers	2,149	2,123	2,097
Pesticides	34	34	34
Operator labor	3,086	3,315	3,331
Family labor	4,493	4,826	4,849
Exchange labor	316	339	341
Depreciation	433	476	524
Interest on operating capital	672	709	750
Rental value of owned land	1,802	1,506	1,730
Land tax	90	91	92
Other costs	6	6	6
TOTAL COSTS	33,240	33,313	34,297
GROSS RETURNS	76,401	66,337	75,064
RETURNS ABOVE CASH COSTS	57,597	47,585	55,822
RETURNS ABOVE CASH AND NON-CASH COSTS	56,785	46,903	55,042
NET RETURNS	43,161	33,024	40,767
NET PROFIT-COST RATIO	1.30	0.99	1.19
Cost per kilogram (peso)	2.84	2.74	2.86
Yield per hectare (kg)	11,718	12,172	11,991
Farmgate price (peso/kg)	6.52	<i>5.4</i> 5	6.26

R- Revised estimates

P - Preliminary estimates

Table 10. Sweet Potato: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014R	2015R	2016P
0.000.000	` '	esos per heci	1
CASH COSTS	9,756	10,175	10,205
Planting materials	133	140	146
Fertilizers	1,357	1,324	1,252
Pesticides	177	174	165
Hired labor	4,726	5,077	5,101
Land tax	52	52	53
Caretaker / overseer's wages	27	29	29
Rentals	316	336	345
Fuel	15	14	14
Oil	4	4	4
Transport cost of inputs	75	75	75
Interest payment on crop loan	20	22	24
Storage costs	3	3	3
Electricity	20	19	19
Water	3	3	3
Landowner's share	561	592	614
Repairs	1,478	1,505	1,534
Food expense	552	567	581
Others costs	237	241	245
NON-CASH COSTS	3,487	3,695	3,831
Planting materials	2,321	2,453	2,544
Fertilizers	8	. 8	7
Hired Labor	28	30	30
Harvesters' share	138	156	162
Rentals	9	9	10
Landowner's share	984	1,040	1,078
IMPUTED COSTS	15,957	17,095	17,286
Planting materials	798	843	875
Fertilizers	17	16	16
Operator labor	5,834	6,267	6,297
Family labor	5,622	6,039	6,068
Exchange labor	122	131	132
Depreciation	290	319	351
Interest on operating capital	355	376	377
Rental value of owned land	1,024	1,082	1,123
Rentals	1,818	1,944	1,971
Fuel	5	1,944	1,971
Transport cost of inputs	44	44	45
Storage costs	1	1	1
Land Tax	20		21
Others costs	5	20 5	5
TOTAL COSTS	29,200	30,964	31,322
GROSS RETURNS	80,166	90,538	93,960
RETURNS ABOVE CASH COSTS	70,410	80,363	83,755
RETURNS ABOVE CASH AND NON-CASH COSTS	66,923	76,668	79,924
NET RETURNS	50,966	59,574	62,638
NET PROFIT-COST RATIO	1.75	1.92	2.00
Cost per kilogram (peso)	5.00	4.96	5.01
Yield per hectare (kg/ha)	5,843	6,244	6,247
Farmgate price (peso/kg)	13.72	14.50	15.04

R - Revised estimates

P - Preliminary estimates

## BULBS

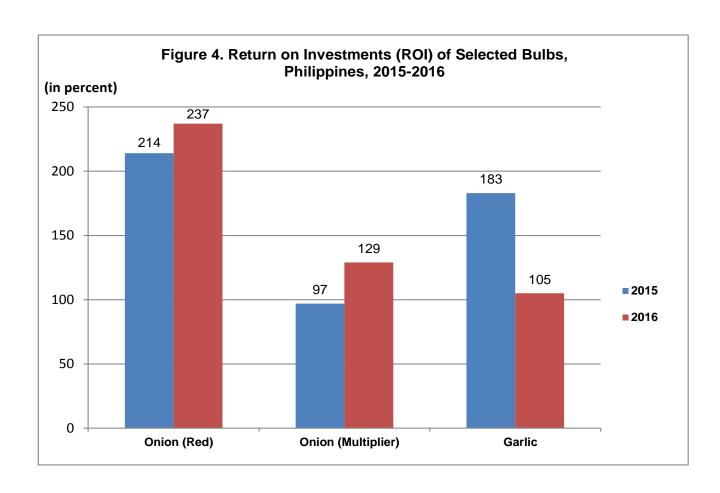


Table 11. Onion (Red): Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in p	esos per hect	1
CASH COSTS	105,360	104,542	116,054
Seeds	14,033	12,204	20,498
Fertilizers	18,143	17,647	16,675
Pesticides	9,605	9,541	9,585
Mulching materials	9	9	9
Hired labor	34,647	37,218	37,397
Caretaker/overseer's wages/Employee's salary	1,737	1,866	1,875
Land tax	425	429	433
Rentals	1,148	1,137	731
Fuel and Oil	7,587	6,918	6,908
Transport cost of inputs	433	433	434
Interest payment on crop loan	3,337	3,671	4,038
Landowner's share	6,478	5,634	9,463
Irrigation fee	329	353	355
Storage cost	781	679	705
Electricity	71	65	65
Food expense	3,078	3,158	3,236
Repairs	2,544	2,591	2,640
Others	975	989	1,007
NON-CASH COSTS	9,538	7,780	8,867
Fertilizers	59	57	54
Mulching materials	403	392	370
Hired labor in kind	68	73	73
Harvesters' share	7,042	5,492	6,591
Caretaker/overseer's wages	274	294	295
Rentals	1,392	1,211	1,211
Landowner's share	280	244	244
Irrigation fee	20	17	29
IMPUTED COSTS	19,966	20,498	23,291
Seeds	190	165	277
Fertilizers	103	101	95
Mulching material	20	19	18
Pesticides (Liquid)	1	1	1
Operator labor	6,842	7,350	7,385
Family labor	3,198	3,435	3,451
Exchange labor	374	402	404
Depreciation	1,606	1,767	1,944
Interest on operating capital	4,323	4,379	4,887
Rental value of owned land	3,299	2,869	4,819
Transport cost of inputs	10	10	10
TOTAL COSTS	134,864	132,820	148,212
GROSS RETURNS	534,077	416,542	499,869
RETURNS ABOVE CASH COSTS	428,717	312,000	383,815
RETURNS ABOVE CASH & NON-CASH COSTS	419,179	304,220	374,948
NET RETURNS	399,213	283,722	351,657
NET PROFIT-COST RATIO	2.96	2.14	2.37
Cost per kilogram (peso)	9.13	10.02	15.65
Yield/hectare (kg/ha)	14,778	13,253	9,469
Farmgate price (peso/kg)	36.14	31.43	52.79

R - Revised estimates
P - Preliminary estimates

Table 12. Onion (Multiplier): Updated Average Costs of Production, Philippines, 2014 - 2016

CASH COSTS Planting materials Fertilizers Pesticides Posticides Po	ITEM	2014	2015R	2016P
Planting materials		(in p	esos per hect	tare)
Fertilizers         12,538         12,136         11,382           Pesticides         5,128         5,094         5,117           Mulching Materials         324         314         294           Hired labor         19,427         19,924         20,695           Other permanent employee's salary         301         309         321           Land tax         92         93         94           Rentals         427         379         444           Fuel and Oil         5,552         5,062         5,054           Interest payment on crop loan         1,224         1,346         1,481           Landowner's share         2,954         2,446         3,034           Irigation fee         37         31         38           Electricity         1,326         1,209         1,207           Food expense         2,827         2,901         2,973           Repairs         2,237         2,278         2,322           Other costs         669         678         690           NON-CASH COSTS         23,443         19,955         23,673           Planting materials         3,344         3,334         3,127           Rentals (Mac	CASH COSTS	57,033	55,892	57,162
Pesticides	Planting materials	1,621	1,343	1,666
Mulching Materials         324         314         294           Hired labor         19,427         19,924         20,695           Other permanent employee's salary         301         309         321           Land tax         92         93         94           Rentals         427         379         444           Fuel and Oil         5,552         5,062         5,064           Transport cost of inputs         349         349         350           Interest payment on crop loan         1,224         1,346         1,481           Landowner's share         2,954         2,446         3,034           Irigation fee         37         31         38           Electricity         1,326         1,209         1,207           Food expense         2,827         2,901         2,973           Repairs         2,237         2,278         2,322           Other costs         669         678         690           NON-CASH COSTS         23,443         19,955         23,673           Planting materials         3,445         3,334         3,127           Rentals (Machine)         314         322         334           Landown	Fertilizers	12,538	12,136	11,382
Hired labor   19,427   19,924   20,695   Other permanent employee's salary   301   309   321   329   324   Rentals   427   379   444   447   379   444   447   447   379   444   447   449   449   349   349   350   350   350   350   350   350   360   3	Pesticides	5,128	5,094	5,117
Other permanent employee's salary         301         309         321           Land tax         92         93         94           Rentals         427         379         444           Fuel and Oil         5,552         5,062         5,054           Transport cost of inputs         349         349         350           Interest payment on crop loan         1,224         1,346         1,481           Landowner's share         2,954         2,446         3,034           Irigation fee         37         31         38           Electricity         1,326         1,209         1,207           Food expense         2,827         2,901         2,973           Repairs         2,237         2,278         2,322           Other costs         669         678         690           NON-CASH COSTS         23,443         19,955         23,673           Planting materials         13,433         11,047         13,702           Fertilizers (Organic-Solid)         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14	Mulching Materials	324	314	294
Land lax         92         93         94           Rentals         427         379         444           Fuel and Oil         5,552         5,065         5,054           Transport cost of inputs         349         349         350           Interest payment on crop loan         1,224         1,346         1,481           Landowner's share         2,954         2,446         3,034           Irigation fee         37         31         38           Electricity         1,326         1,209         1,207           Food expense         2,827         2,901         2,973           Repairs         2,237         2,278         2,327           Other costs         669         678         690           NON-CASH COSTS         23,443         19,955         23,673           Planting materials         13,343         11,047         13,702           Fertilizers (Organic-Solid)         14         14         14         14           Mulching materials         3,344         3,334         3,127           Rentals (Machine)         314         322         334           Landowner's share         6,327         5,238         6,497      <	Hired labor	19,427	19,924	20,695
Rentals         427         379         444           Fuel and Oil         5,552         5,062         5,054           Transport cost of inputs         349         349         350           Interest payment on crop loan         1,224         1,346         1,481           Landowner's share         2,954         2,446         3,034           Irrigation fee         37         31         38           Electricity         1,326         1,209         1,207           Food expense         2,827         2,901         2,973           Repairs         2,237         2,278         2,322           Other costs         669         678         690           NON-CASH COSTS         23,443         19,955         23,673           Planting materials         13,343         11,047         13,702           Fertilizers (Organic-Solid)         14         14         13           Mulching materials         3,445         3,334         3,127           Rentals (Machine)         314         322         334           Landowner's share         6,327         5,238         6,497           MPUTED COSTS         20,312         20,467         21,755	Other permanent employee's salary	301	309	321
Fuel and Oil Transport cost of inputs Interest payment on crop loan Landowner's share Landowner's share Landowner's share Landowner's share Lectricity 1,326 1,327 2,2446 3,034 Irrigation fee 37 31 38 Electricity 1,326 1,209 1,207 Repairs 2,237 2,278 2,322 Other costs 669 678 690  NON-CASH COSTS Planting materials 13,343 11,047 13,702 Fertilizers (Organic-Solid) 14 14 14 13 Mulching materials 3,445 3,334 3,127 Rentals (Machine) 1314 322 334 Landowner's share 6,327 5,238 6,497  IMPUTED COSTS Planting materials 54 45 56 Fertilizers 14 Mulching materials 55 Planting materials 54 45 56 Fertilizers 14 Mulching materials 55 Planting materials 56 Fertilizers 14 Mulching materials 57 Depreciation 157 152 143 Mulching materials 58 9,196 9,155 Family labor 4,794 4,917 5,107 Exchange labor 395 Family abor 4,794 1,917 5,107 Exchange labor 395 Family abor 4,794 4,917 5,10	Land tax	92	93	94
Transport cost of inputs Interest payment on crop loan Landowner's share Landowner's share Lingation fee 37 31 38 Electricity 1,326 Electricity 1,327 Electricity 1,328 Electricity 1,329 Electricity 1,326 Electricity 1,327 Electricity 1,326 Electricity 1,327 Electricity 1,326 Electricity 1,327 Electricity 1,326 Electricity 1,327 Electricity 1,327 Electricity 1,328 Electricity 1,326 Electricity 1,329 Electricity 1,326 Electricity 1,329 Electricity 1,326 Electricity 1,320 Electricity 1,326 Electricity 1,320 Electricity 1,320 Electricity 1,320 Electricity 1,320 Electricity 1,320 Electricity 1,320 Electricity 1,326 Electricity 1,320 Electricity 1,326 Electricity 1,320 Electricity 1,326 Electricity 1,320 Electr	Rentals	427	379	444
Interest payment on crop loan Landowner's share Landowner's share Lingation fee Billectricity Food expense Repairs Other costs  NON-CASH COSTS Planting materials Landowner's share Landowner's	Fuel and Oil	5,552	5,062	5,054
Landowner's share	Transport cost of inputs	349	349	350
Irrigation fee	Interest payment on crop loan	1,224	1,346	1,481
Electricity	Landowner's share	2,954	2,446	3,034
Food expense   2,827   2,901   2,973   Repairs   2,237   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,322   2,278   2,323   2,277   2,3443   19,955   23,673   2,3443   11,047   13,702   2,3445   3,343   3,127   3,445   3,334   3,127   3,445   3,334   3,127   3,445   3,334   3,127   3,445   3,334   3,127   3,445   3,334   3,127   3,445   3,344   3,22   3,34   3,427   3,445   3,344   3,22   3,34   3,427   3,445   3,344   3,22   3,34   4,45   3,234   4,477   5,238   6,497   4,477   4,4	Irrigation fee	37	31	38
Repairs         2,237         2,278         2,322           Other costs         669         678         690           NON-CASH COSTS         23,443         19,955         23,673           Planting materials         13,343         11,047         13,702           Fertilizers (Organic-Solid)         14         14         13           Mulching materials         3,445         3,334         3,127           Rentals (Machine)         314         322         334           Landowner's share         6,327         5,238         6,497           IMPUTED COSTS         20,312         20,467         21,755           Planting materials         54         45         56           Fertilizers         14         14         14           Mulching materials         157         152         143           Operator labor         8,966         9,196         9,552           Family labor         4,794         4,917         5,107           Exchange labor         395         405         421           Depreciation         860         946         1,041           Interest on operating capital         2,398         2,532         2,675           <	Electricity	1,326	1,209	1,207
Other costs         669         678         690           NON-CASH COSTS         23,443         19,955         23,673           Planting materials         13,343         11,047         13,702           Fertilizers (Organic-Solid)         14         14         14         13           Mulching materials         3,445         3,334         3,127           Rentals (Machine)         314         322         334           Landowner's share         6,327         5,238         6,497           IMPUTED COSTS         20,312         20,467         21,755           Planting materials         54         45         56           Fertilizers         14         14         14           Mulching materials         157         152         143           Operator labor         8,966         9,196         9,552           Family labor         4,794         4,917         5,107           Exchange labor         395         405         421           Depreciation         860         946         1,041           Interest on operating capital         2,398         2,532         2,675           Rental value of owned land         2,425         2,008	Food expense	2,827	2,901	2,973
NON-CASH COSTS Planting materials Pertilizers (Organic-Solid) Mulching materials Mulching materials Additional State (Machine) Landowner's share  MPUTED COSTS Planting materials Additional State (Machine) Landowner's share  MPUTED COSTS Planting materials Additional State (Machine) Landowner's share  MPUTED COSTS Planting materials Additional State (Machine) Landowner's share  MPUTED COSTS Planting materials Additional State (Machine) Landowner's share  Depreciation Additional State (Machine) Landowner's share  Depreciation Landowner's share  Depreciation Additional State (Machine) Landowner's share  Depreciation Landowner's share  Landowner'	Repairs	2,237	2,278	2,322
Planting materials       13,343       11,047       13,702         Fertilizers (Organic-Solid)       14       14       13         Mulching materials       3,445       3,334       3,127         Rentals (Machine)       314       322       334         Landowner's share       6,327       5,238       6,497         IMPUTED COSTS       20,312       20,467       21,755         Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       100,788       96,314       102,590         TOTAL COSTS       100,788       96,314       102,590	Other costs	669	678	690
Planting materials       13,343       11,047       13,702         Fertilizers (Organic-Solid)       14       14       14       13         Mulching materials       3,445       3,334       3,127         Rentals (Machine)       314       322       334         Landowner's share       6,327       5,238       6,497         IMPUTED COSTS       20,312       20,467       21,755         Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       100,788       96,314       102,590         TOTAL COSTS       100,788       96,314       102,590	NON-CASH COSTS	23,443	19,955	23,673
Fertilizers (Organic-Solid)       14       14       14       13         Mulching materials       3,445       3,334       3,127         Rentals (Machine)       314       322       334         Landowner's share       6,327       5,238       6,497         IMPUTED COSTS       20,312       20,467       21,755         Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354 <td>Planting materials</td> <td>13,343</td> <td></td> <td></td>	Planting materials	13,343		
Mulching materials       3,445       3,334       3,127         Rentals (Machine)       314       322       334         Landowner's share       6,327       5,238       6,497         IMPUTED COSTS       20,312       20,467       21,755         Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519	_	·	-	
Rentals (Machine)       314       322       334         Landowner's share       6,327       5,238       6,497         IMPUTED COSTS       20,312       20,467       21,755         Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH & NON-CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313	, - ,	3.445	3.334	3.127
Landowner's share       6,327       5,238       6,497         IMPUTED COSTS       20,312       20,467       21,755         Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93	_	•	-	•
Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	·			
Planting materials       54       45       56         Fertilizers       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	IMPUTED COSTS	20.312	20.467	21.755
Fertilizers       14       14       14       14         Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764			•	
Mulching materials       157       152       143         Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764				
Operator labor       8,966       9,196       9,552         Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764				
Family labor       4,794       4,917       5,107         Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	_			
Exchange labor       395       405       421         Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	-		,	,
Depreciation       860       946       1,041         Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764		•	•	
Interest on operating capital       2,398       2,532       2,675         Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	l _	860	946	1,041
Rental value of owned land       2,425       2,008       2,491         Transport cost of inputs       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	·			
Transport cost of inputs       63       63       63       63         Other costs       186       189       192         TOTAL COSTS       100,788       96,314       102,590         GROSS RETURNS       204,006       190,160       235,354         RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	·			
Other costs         186         189         192           TOTAL COSTS         100,788         96,314         102,590           GROSS RETURNS         204,006         190,160         235,354           RETURNS ABOVE CASH COSTS         146,973         134,268         178,192           RETURNS ABOVE CASH & NON-CASH COSTS         123,530         114,313         154,519           NET RETURNS         103,218         93,846         132,764				
GROSS RETURNS  RETURNS ABOVE CASH COSTS  RETURNS ABOVE CASH & NON-CASH COSTS  NET RETURNS  103,218  204,006  190,160  235,354  146,973  134,268  178,192  103,218  93,846  132,764	Other costs	186	189	192
RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	TOTAL COSTS	100,788	96,314	102,590
RETURNS ABOVE CASH COSTS       146,973       134,268       178,192         RETURNS ABOVE CASH & NON-CASH COSTS       123,530       114,313       154,519         NET RETURNS       103,218       93,846       132,764	GROSS RETURNS	204,006	190,160	235,354
RETURNS ABOVE CASH & NON-CASH COSTS 123,530 114,313 154,519 NET RETURNS 103,218 93,846 132,764				•
NET RETURNS 103,218 93,846 132,764		•		
NET PROFIT-COST RATIO 1.02 0.97 1.29				
	NET PROFIT-COST RATIO	1.02	0.97	1.29
Cost per kilogram (peso) 12.09 10.26 10.95	Cost per kilogram (peso)	12.09	10.26	10.95
Yield/hectare (kg/ha) 8,337 9,386 9,365				
Farmgate price (peso/kg) 24.47 20.26 25.13		•	•	

R - Revised estimates

P - Preliminary estimates

Table 13. Garlic: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	` '	esos per heci	1 1
CASH COSTS	54,129	49,674	49,065
Planting materials (cloves)	9,555	5,108	4,931
Fertilizers	9,168	8,912	8,408
Mulching materials	152	148	140
Pesticides	4,130	4,102	4,121
Hired labor	17,165	18,439	18,528
Caretaker/overseer's wages	113	121	122
Land tax	326	329	332
Rentals	374	292	296
Fuel and Oil	4,633	4,224	4,218
Transport cost of inputs	416	416	417
Interest payment on crop loan	838	922	1,014
Landowner's share	1,473	849	609
Irrigation fee	149	80	77
Electricity	264	241	241
Food expense	2,569	2,636	2,701
Repairs	2,709	2,759	2,812
Other costs	95	96	98
NON-CASH COSTS	35,691	20,596	19,784
Planting materials (cloves)	19,620	10,488	10,125
Fertilizers	88	86	81
Mulching materials	2,982	2,899	2,735
Pesticides (Liquid)	2,902	2,099	5
Hired labor in kind	250	256	266
Harvesters' share	405	234	168
	18	18	19
Caretaker/overseer's wages			
Rentals	909	506	492
Interest payment on crop loan	4	4	4
Landowner's share Irrigation fee	11,061 349	5,913 187	5,708 181
ingationiee	349	187	181
IMPUTED COSTS	51,290	38,973	39,276
Planting materials (cloves)	16,769	8,964	8,654
Fertilizers	808	786	742
Mulching materials	310	301	284
Pesticides	7	7	7
Operator labor	11,256	11,544	11,991
Family labor	7,571	7,765	8,066
Exchange labor	371	380	395
Depreciation	1,258	1,384	1,522
Interest on operating capital	2,228	2,055	2,023
Rental value of owned land	10,583	5,657	5,461
Transport cost of inputs	91	91	91
Interest payment on crop loan	11	12	13
Other costs	27	27	27
TOTAL COSTS	141,110	109,243	108,125
CDOSC DETUDNO	E20 540	202.222	224 222
GROSS RETURNS	536,518	309,380	221,936
RETURNS ABOVE CASH COSTS	482,389	259,706	172,871
RETURNS ABOVE CASH & NON-CASH COSTS	446,698 395,408	239,110	153,087
NET RETURNS	395,408	200,137	113,811
NET PROFIT-COST RATIO	2.80	1.83	1.05
Cost per kilogram (peso )	40.09	28.77	38.32
	3,520	3,797	2,821
Yield/hectare (kg/ha)	3,320	3,737	2,02 1

R - Revised estimates
P - Preliminary estimates

### **VEGETABLES**

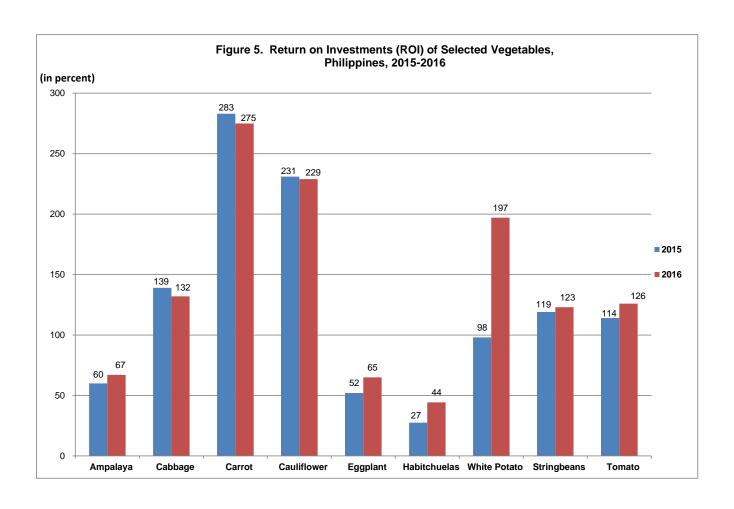


Table 14. Ampalaya: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in p	esos per hect	are)
CASH COST	77,633	80,482	80,610
Seeds/planting materials	6,585	8,015	8,542
Fertilizers:	18,699	18,151	17,048
Pesticides	12,856	12,770	12,829
Hired labor	20,871	22,420	22,528
Land tax	241	243	245
Rentals	2,987	3,460	3,607
Fuel and oil	3,673	3,349	3,344
Transport cost of inputs	1,856	1,855	1,861
Irrigation fee	11	13	14
Interest on crop loan	2,078	2,286	2,515
Food expense	1,768	1,814	1,859
Repairs	3,200	3,259	3,321
Others	2,808	2,847	2,897
NON-CASH COST	2,726	3,145	3,295
Seeds/planting materials	1,208	1,470	1,567
Hired labor (paid in kind)	487	523	526
Landlord's share	304	370	394
Harvester's share	222	268	284
Lease rental	11	13	14
Others	494	501	510
IMPUTED COST	70,509	76,465	78,744
Operator and family labor	45,549	48,929	49,164
Exchange labor	2,625	2,820	2,834
Depreciation	16,394	18,033	19,836
Interest on operating capital	3,263	3,424	3,437
Rental value of owned land	2,678	3,259	3,473
ALL COSTS	150,868	160,092	162,649
GROSS RETURNS	212,925	256,881	272,037
RETURNS ABOVE CASH COST	135,292	176,399	191,427
RETURNS ABOVE CASH & NON-CASH COSTS	132,566	173,254	188,132
NET RETURNS	62,057	96,789	109,388
NET PROFIT-COST RATIO	0.41	0.60	0.67
Cost per kilogram (peso)	17.88	19.15	19.58
Yield per hectare (kg/ha)	<i>8,43</i> 6	8,362	8,309
Farmgate price (peso/kg)	25.24	30.72	32.74

R - Revised estimates

P- Preliminary estimates

Table 15. Cabbage: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	74,804	77,922	76,806
Seeds/planting materials	5,692	7,414	7,149
Fertilizers	25,833	25,342	24,113
Pesticides	5,329	5,294	5,319
Hired labor	20,336	21,844	21,949
Land tax	234	236	238
Rentals	2,758	2,963	2,977
Transport cost of inputs	4,241	4,239	4,252
Food expense	3,069	3,149	3,227
Repairs	6,168	6,281	6,401
Others	1,144	1,160	1,181
NON-CASH COST	117	134	135
Seeds/planting materials	49	64	62
Hired labor (paid in kind)	68	70	73
IMPUTED COST	44,768	51,756	51,662
Operator/family labor	20,703	22,239	22,346
Depreciation	5,187	5,706	6,277
Interest on operating capital	3,163	3,342	3,301
Rental value of owned land	15,715	20,469	19,738
TOTAL COSTS	119,689	129,812	128,603
GROSS RETURNS	238,269	309,786	298,270
RETURNS ABOVE CASH COST	163,465	231,864	221,464
RETURNS ABOVE CASH & NON-CASH COSTS	163,348	231,730	221,329
NET RETURNS	118,580	179,974	169,667
NET PROFIT-COST RATIO	0.99	1.39	1.32
Cost per kilogram (peso)	7.77	8.44	8.38
Yield per hectare (kg/ha)	15,402	15,374	15,351
Farmgate price (peso/kg)	15.47	20.15	19.43

R - Revised estimates

P - Preliminary estimates

Table 16. Carrot: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	58,468	60,293	60,035
Seeds/planting materials	3,129	3,214	3,154
Fertilizers	17,893	17,596	16,787
Pesticides	2,948	2,928	2,941
Hired labor	17,460	18,755	18,845
Land tax	93	94	95
Rentals	4,290	4,609	4,631
Interest on crop loan	2,886	3,175	3,492
Transport cost of inputs	2,037	2,036	2,042
Food expense	1,723	1,768	1,811
Repairs	6,009	6,119	6,236
NON-CASH COST	24	24	24
Seeds/planting materials	24	24	24
IMPUTED COST	34,262	36,471	36,905
Operator/family labor	22,417	24,080	24,196
Depreciation	2,845	3,129	3,442
Interest on operating capital	2,291	2,371	2,505
Rental value of owned land	6,709	6,890	6,763
ALL COSTS	92,753	96,788	96,965
GROSS RETURNS	361,534	370,936	363,522
RETURNS ABOVE CASH COST	303,066	310,643	303,487
RETURNS ABOVE CASH & NON-CASH COSTS	303,043	310,619	303,463
NET RETURNS	268,781	274,148	266,557
NET PROFIT-COST RATIO	2.90	2.83	2.75
Cost per kilogram (peso)	6.46	6.75	6.77
Yield per hectare (kg/ha)	14,358	14,344	14,323
Famgate price (peso/kg)	25.18	25.86	25.38

R - Revised estimates

P - Preliminary estimates

Table 17. Cauliflower: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	73,375	77,310	76,796
Seeds/planting materials	10,815	13,293	13,313
Fertilizers	21,909	21,547	20,781
Pesticides	5,924	5,883	5,910
Hired labor	13,341	14,331	14,400
Land tax	1,012	1,022	1,032
Rentals	11,005	11,822	11,879
Transport cost of inputs	7,170	7,167	7,189
Food expense	710	729	747
Repairs	1,489	1,516	1,545
NON-CASH COST	4,110	5,052	5,059
Landlord's share	4,110	5,052	5,059
IMPUTED COST	27,105	29,581	30,051
Operator/family labor	19,687	21,148	21,250
Depreciation	1,729	1,902	2,092
Interest on operating capital	2,875	3,072	3,245
Rental value of owned land	2,814	3,459	3,464
ALL COSTS	104,590	111,943	111,906
GROSS RETURNS	294,182	371,039	367,838
RETURNS ABOVE CASH COST	220,807	293,729	291,042
RETURNS ABOVE CASH & NON-CASH COSTS	216,697	288,677	285,983
NET RETURNS	189,592	259,096	255,932
NET PROFIT-COST RATIO	1.81	2.31	2.29
Cost per kilogram (peso)	9.76	10.18	10.28
Yield per hectare (kg/ha)	10,717	10,997	10,886
Farmgate price (peso/kilogram)	27.45	33.74	33.79

R - Revised estimates

P - Preliminary estimates

Table 18. Eggplant: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in p	esos per hect	are)
CASH COST	83,950	84,976	85,714
Seeds/planting materials	1,606	1,536	1,679
Fertilizer	23,101	22,434	21,156
Pesticides	10,814	10,741	10,790
Other material inputs	59	57	54
Hired labor	19,347	20,783	20,883
Land tax	88	89	90
Rentals	4,086	3,992	4,296
Fuel and oil	3,966	3,616	3,611
Transport cost of inputs	895	895	898
Irrigation fee	132	126	138
Interest on crop loan	8,182	9,000	9,900
Food expenses	5,606	5,752	5,895
Repairs	2,441	2,486	2,533
Landlord's share	3,627	3,469	3,791
NON-CASH COST	3,160	3,066	3,358
Seeds/planting materials	693	663	725
Hired labor (paid in kind)	44	47	47
Landlord's share	1,293	1,237	1,352
Harvesters' share	1,004	998	1,102
Lease rental	126	121	132
IMPUTED COST	39,047	41,678	42,750
Operator and family labor	26,657	28,635	28,772
Exchange labor	2,157	2,317	2,328
Depreciation	5,179	5,697	6,267
Interest on operating capital	3,037	3,100	3,275
Rental value of owned land	2,017	1,929	2,108
TOTAL COSTS	126,157	129,720	131,822
GROSS RETURNS	197,867	196,741	217,241
RETURNS ABOVE CASH COST	113,917	111,765	131,527
RETURNS ABOVE CASH & NON-CASH COSTS	110,757	108,699	128,169
NET RETURNS	71,710	67,021	85,419
NET PROFIT-COST RATIO	0.57	0.52	0.65
Cost per kilogram (peso)	11.83	11.70	11.77
Yield per hectare (kg/ha)	10,661	11,084	11,198
Farmgate price (peso/kg)	18.56	17.75	19.40

R - Revised estimates

P- Preliminary estimates

Table 19. Habitchuelas: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	43,133	43,784	42,868
Seeds/planting materials	2,827	3,126	3,179
Fertilizers	20,893	20,443	19,344
Pesticides	3,953	3,927	3,945
Hired labor	8,122	8,725	8,767
Land tax	206	208	210
Rentals	2,394	2,572	2,584
Transport cost of inputs	2,229	2,228	2,235
Repairs	2,509	2,555	2,604
NON-CASH COST	1,547	1,711	1,924
Seeds/planting materials	1,547	1,711	1,924
IMPUTED COST	35,739	38,495	39,505
Operator/family labor	26,685	28,665	28,803
Depreciation	2,465	2,712	2,983
Interest on operating capital	1,979	2,021	1,987
Rental value of owned land	4,610	5,097	5,732
ALL COSTS	80,419	83,990	84,297
GROSS RETURNS	95,883	107,050	121,610
RETURNS ABOVE CASH COST	52,750	63,266	78,742
RETURNS ABOVE CASH & NON-CASH COSTS	51,203	61,555	76,818
NET RETURNS	15,464	23,060	37,313
NET PROFIT-COST RATIO	0.19	0.27	0.44
Cost per kilogram (peso)	17.85	18.46	18.34
Yield per hectare (kg/ha)	4,506	4,550	4,596
Farmgate price (peso/kg)	21.28	23.53	26.46

R - Revised estimates

P - Preliminary estimates

Table 20. White Potato: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	106,579	103,822	112,292
Seeds/planting materials	17,294	13,356	23,359
Fertilizers	42,285	41,544	39,629
Pesticides	6,438	6,396	6,425
Hired labor	22,699	24,383	24,499
Land tax	618	624	630
Rentals	1,018	1,094	1,099
Transport of inputs	6,547	6,544	6,564
Food expense	2,993	3,071	3,147
Repairs	6,687	6,810	6,940
NON-CASH COST	9,616	7,426	12,988
Seeds/planting materials	9,616	7,426	12,988
IMPUTED COST	53,130	50,738	63,494
Operator/family labor	22,555	24,229	24,345
Depreciation	5,812	6,393	7,032
Interest on operating capital	4,906	4,781	5,297
Rental value of owned land	19,857	15,335	26,820
ALL COSTS	169,325	161,986	188,774
GROSS RETURNS	416,281	320,722	559,958
RETURNS ABOVE CASH COST	309,702	216,900	447,666
RETURNS ABOVE CASH & NON-CASH COSTS	300,086	209,474	434,678
NET RETURNS	246,956	158,736	371,184
NET PROFIT-COST RATIO	1.46	0.98	1.97
Cost per kilogram (peso)	11.18	10.72	12.52
Yield per hectare (kg/ha)	15,143	15,107	15,081
Farmgate price (peso/kg)	27.49	21.23	37.13

R - Revised estimates

P - Preliminary estimates

Table 21. Stringbeans: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in peso per hectare)		
CASH COSTS	68,704	69,961	70,750
Seeds	4,176	4,624	5,091
Fertilizer	11,768	11,481	10,889
Pesticides	15,957	15,850	15,923
Other material Inputs	366	357	339
Hired labor	12,679	13,620	13,685
Land tax	491	496	501
Rentals	4,108	4,515	4,866
Fuel and oil	6,001	5,472	5,464
Transport cost of inputs	1,808	1,807	1,813
Irrigation fee	172	190	209
Interest on crop loan	2,168	2,385	2,624
Food expenses	1,659	1,702	1,744
Repairs	1,025	1,044	1,064
Wages for overseer	295	303	315
Others	6,031	6,115	6,223
NON-CASH COSTS	3,134	3,468	3,806
Seeds	2,955	3,272	3,602
Hired labor paid in kind	91	98	98
Landlord's share	20	22	24
Harvester's share	24	27	28
Lease Rental	44	49	54
IMPUTED COSTS	67.942	72 105	75 001
	67,843	73,185	75,091
Operator/family labor	50,205	53,930	54,189
Exchange labor	535	575	578
Depreciation	9,435	10,379	11,417
Interest on operating capital  Rental value of owned land	2,486 5,182	2,563 5,738	2,590 6,317
Refliat value of owned land	5,162	5,736	0,317
TOTAL COSTS	139,681	146,614	149,647
GROSS RETURNS	286,904	320,555	333,786
RETURNS ABOVE CASH COSTS	218,200	250,594	263,036
RETURNS ABOVE CASH & NON-CASH COSTS	215,066	247,126	259,230
NET RETURNS	147,223	173,941	184,139
NET PROFIT- COST RATIO	1.05	1.19	1.23
Cost per kilogram (peso)	10.84	11.28	12.17
Yield/hectare (kg/ha)	12,883	12,999	12,294
Farmgate price (peso/kg)	22.27	24.66	27.15

R - Revised estimates

P- Preliminary estimates

Table 22. Tomato: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in peso per hectare)		
CASH COST	70,423	72,054	71,501
Seeds/planting materials	954	1,137	1,227
Fertilizer	22,814	22,154	20,967
Pesticides	8,950	8,890	8,931
Hired labor	24,248	26,046	26,171
Land tax	168	170	172
Rentals	1,748	2,030	2,155
Fuel and oil	1,770	1,614	1,612
Transport of inputs	662	662	664
Irrigation fee	31	37	40
Interest on crop loan	634	697	767
Food expenses	2,608	2,676	2,742
Repairs	5,211	5,307	5,408
Other production costs	625	634	645
NON-CASH COST	2,824	3,347	3,596
Seeds/planting materials	503	600	648
Hired labor paid in kind	189	203	204
Landlord's share	918	1,094	1,181
Harvesters' share	69	85	90
Lease rental	1,145	1,365	1,473
IMPUTED COST	17,796	19,208	19,807
Operator and family labor	8,916	9,578	9,624
Exchange labor	426	458	460
Depreciation	4,333	4,766	5,243
Interest on operating capital	3,150	3,249	3,231
Rental value of owned land	971	1,157	1,249
ALL COSTS	91,043	94,609	94,904
GROSS RETURNS	164,176	202,877	214,395
RETURNS ABOVE CASH COST	93,753	130,823	142,894
RETURNS ABOVE CASH & NON-CASH COSTS	90,929	127,476	139,298
NET RETURNS	73,133	108,268	119,491
NET PROFIT-COST RATIO	0.80	1.14	1.26
Cost per kilogram (peso)	7.10	7.12	7.30
Yield per hectare (kg/ha)	12,816	13,286	13,009
Farmgate price (peso/kilogram)	12.81	15.27	16.48

R - Revised estimates

P - Preliminary estimates

### LEGUMES

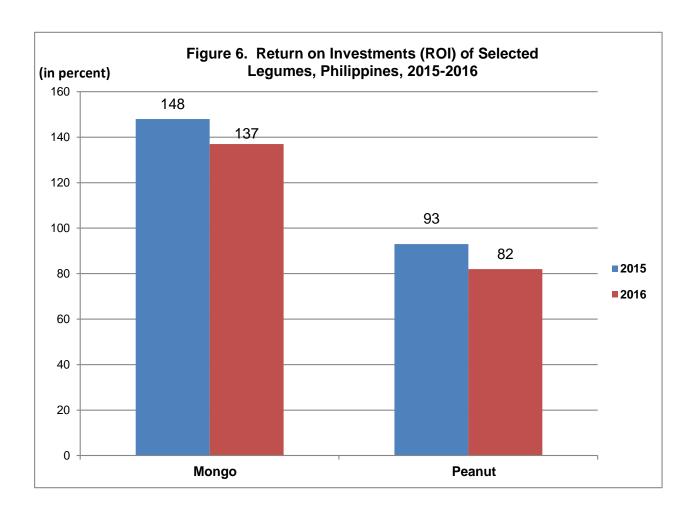


Table 23. Mongo: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in p	esos per hect	are)
CASH COST	6,861	7,180	7,213
Seeds/planting materials	935	984	933
Fertilizers	48	46	43
Pesticides	657	653	656
Hired labor	2,468	2,651	2,664
Land tax	143	144	145
Rentals	567	609	611
Fuel and oil	204	186	186
Irrigation fee	49	52	49
Interest on crop loan	384	422	464
Transport cost of inputs	55	55	55
Food expense	346	355	364
Repairs	1,005	1,023	1,043
NON-CASH COST	2,948	3,229	3,090
Seeds/planting materials	902	949	900
Hired labor paid in kind	62	67	67
Landlord's share	558	587	557
Harvester's share	1,419	1,619	1,559
Irrigation fee	7	7	7
IMPUTED COST	7,539	8,147	8,413
Operator/family labor	3,674	3,947	3,966
Exchange labor	64	69	69
Depreciation	2,679	2,947	3,242
Interest on operating capital	227	242	242
Rental value of owned land	895	942	894
ALL COSTS	17,348	18,556	18,716
GROSS RETURNS	40,399	46,105	44,395
RETURNS ABOVE CASH COST	33,538	38,925	37,182
RETURNS ABOVE CASH & NON-CASH COSTS	30,590	35,696	34,092
NET RETURNS	23,051	27,549	25,679
NET PROFIT-COST RATIO	1.33	1.48	1.37
Cost per kilogram (peso)	23.19	22.88	22.74
Yield per hectare (kg/ha)	748	811	823
Farmgate price (peso/kg)	54.01	56.85	53.93

R - Revised estimates

P- Preliminary estimates

Table 24. Peanut: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in peso per hectare)		
CASH COST	17,819	18,938	18,961
Seeds/planting materials	1,928	2,101	2,017
Fertilizers	581	569	541
Pesticides	36	36	36
Hired labor	11,345	12,187	12,245
Land tax	227	229	231
Rentals	598	648	633
Fuel and oil	345	315	315
Irrigation fee	69	75	72
Interest on crop loan	408	449	494
Transport cost of inputs	171	171	172
Food expense	942	967	991
Repairs	1,169	1,191	1,214
NON-CASH COST	3,711	4,022	3,857
Seeds/planting materials	2,227	2,426	2,329
Hired labor paid in kind	71	76	76
Landlord's share	836	911	874
Harvester's share	577	609	578
IMPUTED COST	9,837	10,657	10,863
Operator/family labor	4,982	5,352	5,378
Exchange labor	187	201	202
Depreciation	2,236	2,460	2,706
Interest on operating capital	768	831	837
Rental value of owned land	1,664	1,813	1,740
ALL COSTS	31,367	33,617	33,681
GROSS RETURNS	61,294	64,734	61,445
RETURNS ABOVE CASH COST	43,475	45,796	42,484
RETURNS ABOVE CASH & NON-CASH COSTS	39,764	41,774	38,627
NET RETURNS	29,927	31,117	27,764
NET PROFIT-COST RATIO	0.95	0.93	0.82
Cost per kilogram (peso)	19.09	21.11	21.39
Yield per hectare (kg/ha)	1,643	1,592	1,575
Farmgate price (peso/kg)	37.31	40.65	39.02

R - Revised estimates

P - Preliminary estimates

# COMMERCIAL CROP

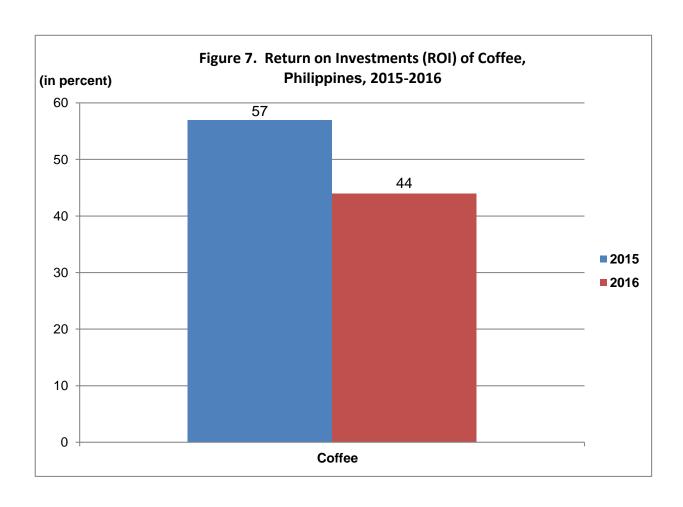


Table 25. Coffee: Updated Average Costs of Production, Philippines, 2014 - 2016\*

ITEM	2014	2015R	2016P
	(in pesos per hectare)		
CASH COST	21,639	22,513	23,500
Fertilizer	5,158	4,970	5,761
Pesticides	162	161	162
Hired labor	13,010	13,975	14,042
Land tax	650	657	664
Rentals	51	54	54
Fuel and oil	274	250	250
Transport of inputs	177	177	178
Interest on crop loan	822	904	994
Food expenses	715	734	752
Repairs	620	631	643
NON-CASH COST	1,088	1,134	1,110
Hired labor (paid in kind)	223	240	241
Landlord's share	26	27	27
Harvesters' share	598	616	588
Lease rental	241	251	254
IMPUTED COST	8,387	8,930	9,086
Operator and family labor	4,907	5,271	5,296
Exchange labor	122	131	132
Depreciation	396	436	480
Interest on operating capital	1,014	1,066	1,126
Rental value of owned land	1,948	2,026	2,052
ALL COSTS	31,114	32,577	33,696
GROSS RETURNS	49,492	51,001	48,675
RETURNS ABOVE CASH COSTS	27,853	28,488	25,175
RETURNS ABOVE CASH & NON-CASH COSTS	26,765	27,354	24,065
NET RETURNS	18,378	18,424	14,979
NET PROFIT-COST RATIO	0.59	0.57	0.44
Cost per kilogram (peso)	48.46	51.22	56.23
Yield per hectare (kg/ha)	642	636	599
Farmgate price (peso/kg)	77.09	80.19	81.22

<sup>\* -</sup> Refers to maintenance costs only

R - Revised estimates

P - Preliminary estimates

### **FISHERIES**

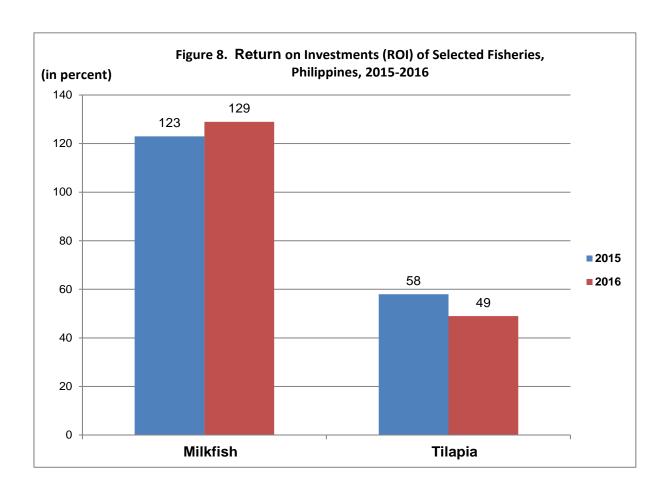


Table 26. Milkfish (Brackish Fishpond): Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
	(in	pesos per hecta	re)
CASH COSTS	29,686	30,762	30,093
Stocking materials	11,345	12,012	11,401
Feeds	4,204	4,263	4,339
Fertilizers	2,602	2,505	2,316
Pesticides and other chemicals	447	444	446
Hired Labor	3,553	3,817	3,835
Salaries of permanent employees	2,584	2,776	2,789
Land tax	401	405	409
Rentals	3,258	3,280	3,282
Fuel and oil	377	344	343
Transport cost of inputs	156	156	156
License/permit	6	6	6
Electricity	184	168	168
Interest payment on loan	55	61	67
Food expense	209	214	219
Repairs	257	262	267
Others	48	49	50
NON-CASH COSTS	682	693	696
Harvesters' share	250	254	256
Caretakers' share	147	149	150
Other laborers' share	73	73	69
Administrator's share	47	48	48
Lease rental	6	6	6
Rice allowance of overseer	159	163	167
IMPUTED COSTS	8,112	8,324	8,206
Operator labor	174	187	188
Family labor	122	131	132
Exchange labor	4	4	4
Depreciation	1,447	1,592	1,751
Interest on operating capital	1,344	1,416	1,391
Rental value of owned fishpond	5,021	4,994	4,740
TOTAL COSTS	38,480	39,779	38,995
GROSS RETURNS	87,265	88,594	89,280
RETURNS ABOVE CASH COSTS	57,579	57,832	59,187
RETURNS ABOVE CASH & NON-CASH COSTS	56,897	57,139	58,491
NET RETURNS	48,785	48,815	50,285
NET PROFIT-COST RATIO	1.27	1.23	1.29
Cost per kilogram (peso)	39.75	40.26	37.17
Yield per hectare (kg/ha)	968	988	1,049
Farmgate price (peso/kg)  R - Revised estimates	90.15	89.67	85.11

R - Revised estimates

P- Preliminary estimates

Table 27. Tilapia: Updated Average Costs of Production, Philippines, 2014 - 2016

ITEM	2014	2015R	2016P
CASH COSTS	` '	esos per heci	
CASH COSTS	223,473	229,100	230,077
Stocking materials	37,194	40,173	38,295
Feeds	151,027	153,141	155,851
Fertilizers	1,586	1,529	1,449
Pesticides	2,099	2,084	2,094
Hired Labor	7,235	7,772	7,809
Salaries of permanent employees	1,027	1,103	1,108
Wage of stay-in laborers	6,002	6,447	6,478
Land tax	176	178	180
Rentals	4,548	4,556	4,556
Fuel and oil	6,693	6,103	6,094
Transport cost of inputs	783	783	785
License/permit	7	7	7
Electricity	141	129	129
Interest payment on loan	452	497	547
Food expense	1,476	1,515	1,553
Repairs	2,990	3,045	3,103
Other costs	37	38	39
NON-CASH COSTS	2,322	2,326	2,234
Stocking materials	325	351	335
Feeds	92	93	95
Fertilizers	17	16	15
Hired Labor paid in kind	240	258	259
Harvesters' share	588	556	526
Caretaker's share	37	37	35
Wage of stay-in laborer	490	486	463
Other laborers' share	436	433	413
Lease rental	73	72	69
	24	24	24
Other costs	24	24	24
IMPUTED COSTS	31,405	32,475	32,633
Stocking materials	344	372	355
Feeds	145	147	150
Fertilizers	1	1	1
Operator labor	2,139	2,298	2,309
Family labor	676	726	729
Exchange labor	2	2	2
Depreciation	4,844	5,328	5,861
Interest on operating capital	11,401	11,843	12,018
Rental value of owned aquafarm	11,853	11,758	11,208
TOTAL COSTS	257,200	263,901	264,944
GROSS RETURNS	440,358	416,653	394,416
RETURNS ABOVE CASH COSTS	216,885	187,553	164,339
RETURNS ABOVE CASH & NON-CASH COSTS	214,563	185,227	162,105
NET RETURNS	183,158	152,752	129,472
NET PROFIT-COST RATIO	0.71	0.58	0.49
Cost per kilogram (peso)	43.71	47.02	47.53
Yield per hectare (kg/ha)	5,885	5,613	5,574
Farmgate price (peso/kg)	74.83	74.23	70.76

R - Revised estimates

P- Preliminary estimates



#### REPUBLIC OF THE PHILIPPINES

PHILIPPINE STATISTICS AUTHORITY

16<sup>TH</sup> FLOOR, ETON CYBERPOD CENTRIS 3, EDSA CORNER
QUEZON AVENUE, BRGY. PINYAHAN, QUEZON CITY
MACROECONOMIC ACCOUNTS SERVICE
AGRICULTURAL ACCOUNTS DIVISION Tel. No. 376-1954

AADMAS.PSA@GMAIL.COM

HTTPS://WWW.PSA.GOV.PH/