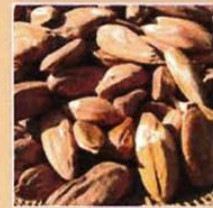




UPDATED PRODUCTION COSTS & RETURNS OF SELECTED COMMODITIES

PART II: OTHER COMMODITIES
2010-2012



Republic of the Philippines
Department of Agriculture
BUREAU OF AGRICULTURAL STATISTICS

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FOREWORD

This report entitled “Updated Production Costs and Returns of Selected Agricultural Commodities” is the second part of the 11th edition that the Bureau of Agricultural Statistics (BAS) releases bi-annually. It covers 26 commodities classified into Fruits, Nuts, Root Crops, Vegetables, Legumes, Commercial Crop and Fisheries. The report covers a three (3) year reference period (2010-2012). The summary of findings focuses on the 2012 data.

The costs of production of temporary crops are the total expenses incurred in production during the current season while those of permanent crops like calamansi, durian, mango, papaya and coffee refer to maintenance costs of the 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). Meanwhile, the input structures are based on benchmarks generated by the Costs and Returns Surveys (CRS) of selected commodities in 1996, 2002 and 2006.

The BAS encourages its clients to give their comments and suggestions on how to further improve the updating system for production costs and returns.



ROMEO S. RECIDE
Director

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

ITEM	BASIS/PROCEDURE
1. Cost of seeds/planting materials (cash and non-cash)	} - movement of the farmgate prices
2. Irrigation fee	
3. Lease rental	
4. Rental value of owned land	
5. Landlord's share	
6. Harvester/thresher/sheller's shares	- movement of the gross value of production per hectare
7. Cost of fertilizer	- quantity used from the survey results multiplied by the current retail price of fertilizer by grade
8. Cost of pesticide Solid	- movement of the retail price for selected pesticides
Liquid	- quantity used from the survey results multiplied by the current retail price of selected price of pesticides
9. Soil ameliorants and other inputs	- 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 and family and exchange labor)	- number of mandays from the survey results multiplied by the current agricultural wage rates
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

ITEM	BASIS/PROCEDURE
17. Electricity cost	- movement of CPI for light
18. Interest on crop loans	- increase of 10 percent per annum
19. Other production costs	- movement of CPI for all items
20. Depreciation cost	- increase of 10 percent per annum
21. Interest on operating capital	- based on Average Lending Rates from BSP
22. Land tax	- increase of one (1) percent per annum

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

ITEM	BASIS/PROCEDURE
1. Stocking materials (fry, fingerlings)	- movement of farmgate prices
2. Fertilizer	
Organic	- movement of the retail prices of all fertilizer
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 of all types of pesticides
5. Land tax	- 1% per annum
6. Rental: Land	- movement of Fishpond Lease Agreement (FLA) rates
Machine, tools and equipment	- movement of agricultural wage rates
7. Labor cost (hired, unpaid operator and family and exchange labor)	- movement of agricultural wage rates
8. Fuel and oil	- movement of CPI for fuel & oil
9. Transport costs 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 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

ITEM	BASIS/PROCEDURE
16. Other expenses (containers, etc.)	- movement of CPI for furnishings and equipment
17. Other laborer's share	- movement of agricultural wage rates
18. Landlord share	- movement of farmgate prices
19. Harvester's share	- movement of gross value of production
20. Lease rental	- movement of farmgate prices
21. Depreciation	- 10 % per annum
22. Interest on operating capital	- based on the Average Lending Rates from BSP
23. Rental value of owned land	- movement of farmgate prices

SUMMARY OF FINDINGS

FRUITS

CALAMANSI

- The average cost of calamansi production in 2012 was P56,218 per hectare. With an average yield of 8,571 kilograms per hectare, gross receipts amounted to P170,991.
- Returns after deducting cash costs averaged to P132,087 per hectare. Returns above cash and non-cash costs amounted to P130,801 per hectare. The average net returns was P114,774 per hectare.
- The average production cost per kilogram was P6.56. Farmgate price per kilogram was P19.95.
- Calamansi farmer earned P2.04 for every peso of investment during the reference year.

DURIAN

- Durian growers incurred an average production cost of P75,289 per hectare in 2012. The average yield per hectare of 4,433 kilograms generated gross earnings of P107,146.
- Returns from cash costs amounted to P81,968 per hectare, while returns from the combined cash and non-cash costs averaged P45,079. After all the costs were accounted for, net returns settled to P31,857 per hectare.
- Per kilogram, the average cost of producing durian was P16.98 while farmers' selling price was P24.17.
- Net profit-cost ratio was estimated at 0.42.

MANGO

- In 2012, the cost in producing mango amounted to P68,736 per hectare with average yield of 4,073 kilograms. The corresponding gross value of production amounted to P105,002 per hectare.
- Returns above cash costs was estimated at P61,925 while returns above cash cost and non-cash costs figured to P57,463. Returns above all costs averaged P36,266 per hectare.
- On a per kilogram basis, mango farmers incurred an average cost of P16.88. Price received at farmgate was P25.78 per kilogram.

- For every peso invested in mango production, P0.53 was earned by the farmers.

PAPAYA

- The maintenance cost for a hectare of papaya amounted to P138,175 in 2012. Yield per hectare was recorded at 19,246 and gross earnings was estimated at P142,228 per hectare.
- After cash costs were deducted, returns were P33,371 per hectare during the same period. Returns after cash and non-costs were accounted for amounted to P33,150 per hectare. Net profit generated was P4,053 per hectare in 2012.
- On the average, cost of production per kilogram was P7.18. Farmgate price was P7.39 per kilogram.
- Net profit-cost ratio was estimated at 0.03.

PINEAPPLE

- The average cost per hectare of pineapple production in 2012 was P73,728. With yield per hectare of 41,026 kilograms, gross returns amounted to P303,182.
- Returns above cash costs amounted to P243,078 while returns above cash and non-cash costs figured to P242,272 per hectare. After deducting all costs, net returns realized averaged P229,454 per hectare in 2012.
- The average cost per kilogram of pineapple was P1.80. Price received by farmers was P7.39 per kilogram in 2012.
- Net profit-cost ratio was 3.11 in 2012

WATERMELON

- Watermelon production entailed an average cost per hectare of P59,219 in 2012. Average yield was 16,772 kilograms per hectare corresponding to gross receipts of P178,790 during the year.
- Per hectare, returns above cash costs averaged P137,833 and returns above cash and non-cash costs averaged P137,343. Net profit was placed at P119,571 in 2012.
- The cost per kilogram in producing watermelon was P3.53 while farmgate price was P10.66 per kilogram.
- For every peso of investment in pineapple production, P2.02 was earned in 2012.

NUTS

CASHEW NUTS

- The average production costs of cashew amounted to P5,957 per hectare in 2012. The yield per hectare was 468 kilograms and generated gross earnings was P13,708.
- After deducting cash costs, cashew farmers received P12,810 per hectare. Considering both the cash and non-cash costs, the returns amounted to P12,450 per hectare. Net of all costs, return averaged P7,751 per hectare.
- On a per kilogram basis, the average production cost was P12.73 and the farmgate price was P29.29.
- For every peso invested in cashew production, the farmer gained P1.30 in 2012.

PILI NUTS

- In 2012, the cost of producing pili nut was P30,295 per hectare. Average yield was placed at 3,461 kilograms per hectare. This translated to average gross returns of P107,014 per hectare.
- Returns above cash costs were recorded at P100,199 per hectare. Returns of P84,044 per hectare were realized when cash and non-cash were subtracted. After all costs were considered, net returns settled at P76,719 per hectare.
- The cost per kilogram in pili production was P8.75. Farmers' selling price was P30.92 during the reference year.
- A net profit of P2.53 was realized for a peso invested in pili nut production in 2012.

ROOTCROPS

CASSAVA

- Cassava recorded an average production cost of P20,783 at a yield of 10,171 kilograms per hectare in 2012. The gross receipts in cassava production amounted to P72,214 per hectare.
- When cash costs were deducted, returns averaged P63,753 per hectare. Returns of P62,080 per hectare were realized when cash and non-cash costs were subtracted. After all costs were considered, net profit averaged P51,431 per hectare during the reference year.

- The average cost per kilogram was P2.04 while farmgate price was P7.10 per kilogram.
- About P2.47 were earned for every peso of investment in cassava production in 2012.

SWEET POTATO

- Sweet potato production entailed an average cost of P26,817 per hectare. The yield per hectare averaged 5,111 kilograms and generated gross earnings of P60,668 per hectare.
- Returns above cash costs averaged P47,885 while the returns above cash and non-cash costs were P44,983 per hectare in 2012. Sweet potato farmers netted P33,850 per hectare during the year.
- Per kilogram, production was P5.25 and farmgate price was P11.87 in 2012.
- Net profit-cost ratio during the year stood at 1.26.

BULBS

ONION (BULB)

- The cost of producing onion bulb in the country averaged P144,176 per hectare in 2012. With a yield of 8,102 kilograms per hectare, gross receipts amounted to P447,311 per hectare in 2012.
- Returns above cash costs averaged to P341,274 per hectare while returns above cash and non-cash costs were P329,324 per hectare. Net returns settled at P303,135 per hectare during the year.
- On a per kilogram basis, the average production cost was P17.80. The selling price of farmers averaged P55.21 in 2012.
- For every peso of investment, a profit of P2.10 was earned in onion bulb production.

ONION (MULTIPLIER)

- The average cost of producing a hectare of onion multiplier type in 2012 was P111,811. The yield was registered at 8,886 kilograms per hectare which was valued at P192,026 during the year.
- Subtracting the cash costs, returns averaged P129,642 while returns after deducting both cash and non-cash costs were P103,766. Net returns were computed at P80,215 per hectare in 2012.

- The cost per kilogram averaged to P12.58 while the corresponding price per kilogram at the farm level was P21.61 in 2012.
- Farmers earned P0.72 for every peso of investment in the production of onion multiplier variety.

GARLIC

- The average cost for garlic production in the country was estimated at P133,895 per hectare. Yield per hectare averaged 3,277 kilograms. The gross value of production amounted to P261,079 in 2012.
- Returns from cash costs amounted to P195,562 while returns from the combined cash and non-cash costs amounted to P164,479 per hectare. Net returns were estimated at P127,184 per hectare.
- Cost per kilogram averaged P40.86 and farmgate price was computed at P79.67 per kilogram.
- Net profit-cost ratio was estimated at 0.95 in 2012.

VEGETABLES

AMPALAYA

- The average cost incurred in producing ampalaya in 2012 was P135,736 per hectare. With yield per hectare of 7,992 kilograms, gross earnings averaged P216,503 in 2012.
- Returns above cash costs were P139,858 while returns above cash and non-cash costs amounted to P137,090 per hectare. Net returns after all costs deducted figured to P80,767 per hectare.
- The averaged production cost per kilogram was P16.98 while farmgate price was P27.09 in 2012.
- The net profit-cost ratio for ampalaya production was computed at 0.60 during the same year.

CABBAGE

- Cabbage production entailed an average cost of P113,350 per hectare in 2012. Yield per hectare was 14,818 kilograms which grossed P202,414.
- When cash costs were deducted from gross returns, farmers earned P129,074. Averaged returns of P128,968 were realized after deducting cash and non-cash costs. Net returns amounted to P89,064 per hectare in 2012.

- Per kilogram, production cost was P7.65 while farmgate price was P13.66 during the same year.
- Cabbage production earned P0.79 per peso of investment.

CARROT

- On a per hectare basis, the cost of production of carrots in 2012 averaged P86,511. With a yield per hectare of 13,908 kilograms, gross receipts amounted to P292,763.
- Returns above cash costs averaged P236,591 while the returns above cash and non-cash costs were P236,571 per hectare. Net returns was estimated at P206,252 per hectare in 2012.
- On the average, cost per kilogram was P6.22, while farmgate price was P21.05 during the same period.
- For every peso of investment, carrot farmers earned P2.38.

CAULIFLOWER

- The average costs of producing cauliflower in 2012 averaged P100,405. The yield was 10,771 kilograms with gross earnings of P307,512 per hectare.
- After cash costs were considered, returns were estimated at P236,022. Returns after cash and non-cash costs averaged P231,748 per hectare. Net returns averaged P207,107 per hectare in 2012.
- Per kilogram, production costs averaged to P9.32 while the average farmgate price was P28.55.
- For every peso of investment in cauliflower production, P2.06 were netted in 2012.

EGGPLANT

- Eggplant production in 2012 incurred an average cost of P120,189 per hectare. With an average yield of 9,865 kilograms per hectare, gross value of production amounted to P173,131.
- After deducting cash costs, returns were computed at P91,742 while the returns above cash and non-cash costs averaged P88,424. After all costs were accounted for, eggplant farmers realized net returns of P52,941 per hectare.
- The cost per kilogram in producing eggplant was P12.18. The average farmgate price was P17.55 in 2012.
- A P0.44 was earned for every peso invested in eggplant production.

HABITCHUELAS

- The average costs of producing habitchuelas was P77,140 per hectare in 2012. Yield was 4,298 kilograms per hectare which corresponded to gross earnings of P87,249.
- Returns above cash costs were P43,775 while returns above cash and non-cash costs averaged P42,299 per hectare. Net returns averaged P10,109 per hectare in 2012.
- Cost per kilogram of habitchuelas production averaged P17.95 while farmgate price stood at P20.30.
- The computed net profit-cost ratio for habitchuelas production was 0.13 in 2012.

POTATO

- Potato production in the country recorded an average cost of P161,857 per hectare. Yield averaged 14,769 kilograms per hectare. Gross receipts from potato production averaged P372,917 per hectare in 2012.
- Returns over cash costs were P267,259 per hectare. With cash and non-cash costs combined, returns averaged P258,426. Net profit from potato production figured to P211,060 per hectare in 2012.
- A kilogram of potato incurred an average production cost of P10.96. Farmers received an average price of P25.25 per kilogram during the reference year.
- For every peso invested in potato production, a farmer earned P1.30 in 2012.

STRINGBEANS

- The average production cost per hectare of stringbeans was P128,455 in 2012. The yield per hectare was 19,089 kilograms resulting to gross earnings of P374,144.
- After cash costs were deducted, returns averaged P307,748. Accounting for both cash and non-cash costs, returns were P304,979 per hectare. Net gain averaged P245,689 per hectare.
- Cost per kilogram in stringbeans production averaged P6.73. Average farmgate price was P19.60 per kilogram.
- Net profit-cost ratio stood at 1.91 in 2012.

TOMATO

- Tomato growers recorded an average production cost of P88,573 per hectare in 2012. Yield per hectare was recorded at 11,738 kilograms corresponding to gross earnings of P152,124.
- Subtracting cash cost, farmers obtained returns of P82,458 per hectare. With cash and non-cash costs deducted, returns averaged P79,610 per hectare. After all costs were considered, net returns averaged P63,551 per hectare.
- Cost incurred in producing in kilogram of tomato was P7.55 while price received by farmers was P12.96.
- A peso invested in tomato production earned P0.72 in 2012.

LEGUMES

MONGO

- On the average, mungo production incurred an average cost of P14,828 per hectare in 2012. With yield of 730 kilograms per hectare, mungo farmers grossed P30,857.
- The computed returns above cash costs averaged P24,711 per hectare while returns above cash and non-cash costs was P22,423. Net returns settled at P16,029 per hectare in 2012.
- The estimated cost per kilogram of mungo production was P20.31. The average farmgate price was P42.27 per kilogram.
- For every peso of investment in mungo farming, a net gain was P1.08 in 2012.

PEANUT

- The cost of producing a hectare of peanut in 2012 averaged P27,929. Yield per hectare at 1,686 kilograms was valued at P58,015.
- Returns from cash costs were computed at P42,096. After cash and non-cash costs were considered, returns were P38,663 per hectare in 2012. Net returns averaged P30,086 per hectare during the period.
- Per kilogram, the cost was P16.57 while farm price was P34.41 in 2012.
- A peanut farmer earned P1.08 for every peso invested in peanut production.

COMMERCIAL CROP

COFFEE

- A per hectare maintenance cost devoted for coffee production was P29,812 in 2012. The yield was 741 kilograms per hectare valued at P48,624.
- Returns above cash costs amounted to P27,627. Net of cash and non-cash costs returns averaged P26,596 per hectare. Net profit settled at P18,812 per hectare in 2012.
- Cost per kilogram averaged P40.23. Farmgate price was quoted at P65.62 per kilogram.
- Per peso of investment in coffee production, farmers netted P0.63 in 2012.

FISHERIES

MILKFISH

- The cost of producing milkfish averaged P35,651 per hectare in 2012. Yield during the period was 907 kilograms per hectare valued at P77,920.
- Returns after cash costs averaged P50,283. After cash and non-cash costs were considered, returns averaged P49,673 per hectare. Net returns amounted to P42,269 per hectare in 2012.
- Per kilogram, production costs averaged P39.31 while farmgate price averaged P85.91.
- Net profit-cost ratio was estimated at 1.19.

TILAPIA

- Tilapia production entailed an average costs of P222,820 per hectare in 2012. Yield per hectare was 4,000 kilograms and generated gross earnings of P262,160 during the same year.
- When cash costs were deducted, returns averaged P67,031 per hectare. Returns above cash and non-cash costs were P65,589 per hectare. The estimated net returns was P39,340 per hectare in 2012.
- Cost per kilogram in tilapia production was P55.70. Average farmgate price was P65.54 per kilogram.
- About P0.18 was earned per peso of investment in tilapia production in 2012.

STATISTICAL TABLES

TABLE 1. CALAMANSI: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012*

ITEM	2010	2011R	2012P
	<i>(in pesos/hectare)</i>		
CASH COST	34,727	36,982	38,904
Fertilizer	4,981	5,848	6,460
Pesticides	1,025	927	930
Hired labor	24,214	25,447	26,603
Wages for overseer	515	541	566
Land tax	414	418	422
Rentals	91	119	110
Fuel and oil	510	575	612
Transport of inputs	513	558	571
Interest on crop loan	31	34	37
Food expense	1,100	1,145	1,171
Repairs	1,323	1,355	1,409
Irrigation fee	10	15	13
NON-CASH COST	1,055	1,419	1,286
Hired labor (paid in kind)	73	77	80
Wages for overseer (paid in kind)	267	281	294
Landlord's share	88	133	115
Harvester's share	368	536	459
Lease rental	259	392	338
IMPUTED COST	14,041	16,872	16,028
Operator and family labor	5,012	5,267	5,506
Exchange labor	10	11	11
Depreciation	1,658	1,824	2,006
Interest on operating capital	2,318	2,136	1,921
Rental value of owned land	5,043	7,634	6,584
ALL COSTS	49,823	55,273	56,218
GROSS RETURNS	137,123	199,728	170,991
RETURNS ABOVE CASH COSTS	102,396	162,746	132,087
RETURNS ABOVE CASH & NON-CASH COSTS	101,341	161,327	130,801
NET RETURNS	87,300	144,454	114,774
NET PROFIT- COST RATIO	1.75	2.61	2.04
<i>Cost per kilogram (peso/kg)</i>	5.55	6.40	6.56
<i>Yield per hectare (kg/hectare)</i>	8,974	8,635	8,571
<i>Farmgate price (peso/kg)</i>	15.28	23.13	19.95

R - Revised estimates

P - Preliminary estimates

* Refers to maintenance cost only

TABLE 2. DURIAN: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012*

ITEM	2010	2011R	2012P
	<i>(in pesos/hectare)</i>		
CASH COST	20,669	24,035	25,178
Fertilizer	11,189	14,102	15,112
Pesticides	613	554	556
Other material inputs	13	16	17
Hired labor	4,509	4,739	4,954
Land tax	1,103	1,114	1,125
Land rental	510	635	453
Transportation of inputs	1,064	1,157	1,183
Fuel and oil	11	12	13
Food expense	539	561	574
Repairs	1,118	1,145	1,191
NON-CASH COST	35,204	35,698	36,889
Hired labor (paid in kind)	22,759	23,917	25,003
Landlord's share	329	410	293
Harvester's share	12,116	11,371	11,593
IMPUTED COST	13,360	15,207	13,222
Operator/family labor	4,448	4,675	4,675
Exchange labor	282	296	296
Depreciation	1,645	1,810	1,991
Interest on operating capital	1,251	1,286	1,165
Rental value of owned land	5,734	7,140	5,095
ALL COSTS	69,233	74,940	75,289
GROSS RETURNS	111,982	105,099	107,146
RETURNS ABOVE CASH COSTS	91,313	81,064	81,968
RETURNS ABOVE CASH AND NON-CASH COSTS	56,109	45,366	45,079
NET RETURNS	42,749	30,159	31,857
NET PROFIT-COST RATIO	0.62	0.40	0.42
<i>Cost per kilogram (peso/kg)</i>	<i>16.82</i>	<i>24.15</i>	<i>16.98</i>
<i>Yield per hectare (kg/hectare)</i>	<i>4,117</i>	<i>3,103</i>	<i>4,433</i>
<i>Farmgate price (peso/kg)</i>	<i>27.20</i>	<i>33.87</i>	<i>24.17</i>

R - Revised estimates

P - Preliminary estimates

* Refers to maintenance cost only

TABLE 3. MANGO: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012*

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	37,403	40,765	43,077
Fertilizer	12,702	15,252	16,522
Pesticides	7,475	7,319	7,349
Hired labor	9,582	10,070	10,691
Land tax	783	791	799
Rentals	1,660	1,733	1,797
Water/electric bills	257	281	299
Fuel and oil	1,530	1,726	1,836
Interest on crop loan	1,030	1,133	1,246
Food expense	1,122	1,168	1,194
Repairs	1,262	1,292	1,344
NON-CASH COST	4,276	4,415	4,462
Hired labor (paid in kind)	601	632	671
Rentals (machine and vehicle)	112	118	125
Landlord's share	2,939	3,041	3,059
Harvesters' share	624	624	607
IMPUTED COST	18,850	20,018	21,197
Operator and family labor	4,771	5,014	5,323
Depreciation	9,705	10,676	11,744
Interest on operating capital	2,283	2,164	1,953
Rental value of owned land	2,091	2,164	2,177
ALL COSTS	60,529	65,198	68,736
GROSS RETURNS	107,972	107,979	105,002
RETURNS ABOVE CASH COSTS	70,569	67,214	61,925
RETURNS ABOVE CASH AND NON-CASH COSTS	66,293	62,799	57,463
NET RETURNS	47,444	42,781	36,266
NET PROFIT-COST RATIO	0.78	0.66	0.53
<i>Cost per kilogram (peso/kg)</i>	<i>13.89</i>	<i>15.48</i>	<i>16.88</i>
<i>Yield per hectare (kg/hectare)</i>	<i>4,359</i>	<i>4,213</i>	<i>4,073</i>
<i>Farmgate price (peso/kg)</i>	<i>24.77</i>	<i>25.63</i>	<i>25.78</i>

R - Revised estimates

P - Preliminary estimates

* Refers to maintenance cost only

TABLE 4. PAPAYA: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	93,311	102,589	108,857
Fertilizer	30,353	35,231	37,960
Pesticides	4,607	4,510	4,529
Other material inputs	14	16	17
Hired labor	30,199	31,738	33,178
Land tax	297	300	303
Rentals	2,806	3,329	3,745
Fuel and oil	8,670	9,780	10,406
Transport of inputs	5,056	5,496	5,621
Irrigation fee	43	54	63
Interest on crop loan	6,680	7,348	8,083
Food expenses	1,617	1,683	1,721
Repairs	1,225	1,254	1,304
Landlord's share	21	27	31
Wages for overseer	105	110	115
Electric bill	451	509	542
Others	1,167	1,204	1,239
NON-CASH COST	163	193	221
Hired labor (paid in kind)	49	51	53
Landlord's share	76	96	112
Harvester's share	38	46	56
IMPUTED COST	25,980	27,634	29,097
Operator/family labor	8,150	8,565	8,954
Depreciation	11,528	12,681	13,949
Interest on operating capital	4,999	4,740	4,276
Rental value of owned land	1,303	1,648	1,918
ALL COSTS	119,454	130,416	138,175
GROSS RETURNS	95,214	115,957	142,228
RETURNS ABOVE CASH COSTS	1,903	13,368	33,371
RETURNS ABOVE CASH & NON--CASH COSTS	1,740	13,175	33,150
NET RETURNS	(24,239)	(14,459)	4,053
NET PROFIT- COST RATIO	(0.20)	(0.11)	0.03
<i>Cost per kilogram (peso/kg)</i>	<i>6.30</i>	<i>7.14</i>	<i>7.18</i>
<i>Yield per hectare(kg/hectare)</i>	<i>18,967</i>	<i>18,261</i>	<i>19,246</i>
<i>Farmgate price (peso/kg)</i>	<i>5.02</i>	<i>6.35</i>	<i>7.39</i>

R - Revised estimates

P - Preliminary estimates

TABLE 5. PINEAPPLE: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	46,975	54,328	60,104
Seeds/planting materials	12,664	16,019	18,643
Fertilizer	13,651	16,100	17,753
Pesticides	1,610	1,576	1,583
Other material inputs	882	1,040	1,147
Hired labor	10,472	11,005	11,684
Land tax	309	312	315
Rentals	2,092	2,630	3,053
Fuel and oil	82	92	98
Transport of inputs	1,585	1,723	1,762
Irrigation fee	110	139	162
Interest on crop loan	1,092	1,201	1,321
Food expenses	423	440	450
Repairs	2,003	2,051	2,133
NON-CASH COST	549	693	806
Hired labor (paid in kind)	5	5	5
Landlord's share	3	4	5
Harvesters' share	4	5	6
Lease rental	537	679	790
IMPUTED COST	11,727	12,317	12,818
Operator and family labor	6,927	7,279	7,728
Exchange labor	355	373	396
Depreciation	1,088	1,197	1,317
Interest on operating capital	3,013	3,033	2,871
Rental value of owned land	344	435	506
ALL COSTS	59,251	67,338	73,728
GROSS RETURNS	185,996	244,062	303,182
RETURNS ABOVE CASH COSTS	139,021	189,734	243,078
RETURNS ABOVE CASH AND NON-CASH COSTS	138,472	189,041	242,272
NET RETURNS	126,745	176,725	229,454
NET PROFIT-COST RATIO	2.14	2.62	3.11
<i>Cost per kilogram (peso/kg)</i>	<i>1.60</i>	<i>1.75</i>	<i>1.80</i>
<i>Yield per hectare (kg/hectare)</i>	<i>37,051</i>	<i>38,435</i>	<i>41,026</i>
<i>Farmgate price (peso/kg)</i>	<i>5.02</i>	<i>6.35</i>	<i>7.39</i>

R - Revised estimates

P - Preliminary estimates

TABLE 6. WATERMELON: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	36,514	38,972	40,957
Seeds/planting materials	602	657	652
Fertilizer	12,175	13,838	14,912
Pesticides	3,747	3,388	3,399
Other material inputs	48	55	59
Hired labor	14,774	15,527	16,232
Land tax	280	283	286
Rentals	1,612	1,723	1,759
Fuel and oil	812	920	979
Transport of inputs	301	318	325
Irrigation fee	46	50	50
Interest on crop loan	348	383	421
Food expenses	1,105	1,150	1,176
Repairs	664	680	707
NON-CASH COST	451	490	490
Seeds	58	63	63
Hired labor (paid in kind)	60	63	66
Landlord's share	69	75	74
Harvester's share	18	20	20
Lease rental	246	269	267
IMPUTED COST	17,146	17,840	17,772
Operator and family labor	11,590	12,180	12,180
Exchange labor	675	710	710
Depreciation	1,628	1,791	1,970
Interest on operating capital	2,404	2,232	1,992
Rental value of owned land	849	927	920
ALL COSTS	54,111	57,302	59,219
GROSS RETURNS	161,809	180,131	178,790
RETURNS ABOVE CASH COSTS	125,295	141,159	137,833
RETURNS ABOVE CASH AND NON-CASH COSTS	124,844	140,669	137,343
NET RETURNS	107,698	122,829	119,571
NET PROFIT-COST RATIO	1.99	2.14	2.02
<i>Cost per kilogram (peso/kg)</i>	3.29	3.42	3.53
<i>Yield per hectare (kg/hectare)</i>	16,444	16,772	16,772
<i>Farmgate price (peso/kg)</i>	9.84	10.74	10.66

R - Revised estimates

P - Preliminary estimates

TABLE 7. CASHEW NUTS: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	845	872	898
Fertilizer	2	2	2
Hired labor	367	386	403
Land tax	227	227	227
Food expense	88	92	94
Repairs	161	165	172
NON-CASH COST	325	341	360
Hired labor (paid in kind)	219	230	240
Landlord's share	44	46	50
Harvester's share	62	65	70
IMPUTED COST	4,343	4,576	4,699
Operator/family labor	3,034	3,189	3,189
Depreciation	191	210	231
Interest on operating capital	28	26	23
Rental value of owned land	1,090	1,151	1,256
ALL COSTS	5,513	5,789	5,957
GROSS RETURNS	12,176	12,700	13,708
RETURNS ABOVE CASH COSTS	11,332	11,828	12,810
RETURNS ABOVE CASH AND NON-CASH COSTS	11,007	11,487	12,450
NET RETURNS	6,663	6,911	7,751
NET PROFIT-COST RATIO	1.21	1.19	1.30
<i>Cost per kilogram (peso/kg)</i>	<i>11.51</i>	<i>12.24</i>	<i>12.73</i>
<i>Yield per hectare (kg/hectare)</i>	<i>479</i>	<i>473</i>	<i>468</i>
<i>Farmgate price (peso/kg)</i>	<i>25.42</i>	<i>26.85</i>	<i>29.29</i>

R - Revised estimates

P - Preliminary estimates

TABLE 8. PILI NUTS: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	6,284	6,545	6,815
Hired labor	4,629	4,864	5,085
Land tax	528	533	538
Lease rental	200	186	201
Transport of inputs	96	104	106
Food expense	412	429	439
Repairs	419	429	446
NON-CASH COST	14,510	13,574	16,155
Hired labor in kind	113	119	124
Landlord's share	1,894	1,758	1,902
Harvester's share	12,503	11,697	14,129
IMPUTED COST	7,087	7,107	7,325
Operator/family labor	3,616	3,801	3,801
Depreciation	524	576	634
Interest on operating capital	355	324	287
Rental value of owned land	2,592	2,406	2,603
ALL COSTS	27,881	27,226	30,295
GROSS RETURNS	94,710	88,598	107,014
RETURNS ABOVE CASH COSTS	88,426	82,053	100,199
RETURNS ABOVE CASH AND NON-CASH COSTS	73,916	68,479	84,044
NET RETURNS	66,829	61,372	76,719
NET PROFIT-COST RATIO	2.40	2.25	2.53
<i>Cost per kilogram (peso/kg)</i>	9.06	8.78	8.75
<i>Yield per hectare (kg/hectare)</i>	3,076	3,100	3,461
<i>Farmgate price (peso/kg)</i>	30.79	28.58	30.92

R - Revised estimates

P - Preliminary estimates

TABLE 9. CASSAVA: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	7,447	7,969	8,461
Seeds/planting materials	116	130	144
Fertilizer	2,027	2,219	2,386
Hired labor	3,397	3,570	3,733
Land tax	27	27	27
Rentals	454	488	522
Transport of inputs	42	46	47
Interest on crop loan	880	968	1,065
Food expenses	296	308	315
Repairs	208	213	222
NON-CASH COST	1,354	1,510	1,673
Seeds/planting materials	949	1,060	1,176
Hired labor (paid in kind)	56	59	62
Landlord's share	96	107	119
Harvester's share	45	52	59
Lease rental	208	232	257
IMPUTED COST	9,706	10,194	10,649
Operator and family labor	7,900	8,303	8,680
Exchange labor	604	635	664
Depreciation	409	450	495
Interest on operating capital	425	395	354
Rental value of owned land	368	411	456
ALL COSTS	18,507	19,673	20,783
GROSS RETURNS	55,329	64,134	72,214
RETURNS ABOVE CASH COSTS	47,882	56,165	63,753
RETURNS ABOVE CASH AND NON-CASH COSTS	46,528	54,655	62,080
NET RETURNS	36,822	44,462	51,431
NET PROFIT-COST RATIO	1.99	2.26	2.47
<i>Cost per kilogram (peso/kg)</i>	1.92	1.96	2.04
<i>Yield per hectare (kg/hectare)</i>	9,656	10,021	10,171
<i>Farmgate price (peso/kg)</i>	5.73	6.40	7.10

R - Revised estimates

P - Preliminary estimates

TABLE 10. SWEET POTATO: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	11,153	12,149	12,783
Seeds/planting materials	1,322	1,501	1,564
Fertilizers	2,084	2,391	2,597
Pesticides	111	100	100
Hired labor	4,278	4,496	4,700
Land tax	147	148	149
Rentals	1,385	1,557	1,624
Fuel and oil	452	510	543
Interest on crop loan	268	295	325
Transport of inputs	81	88	90
Food expense	810	843	862
Repairs	215	220	229
NON-CASH COST	2,444	2,773	2,902
Seeds/planting materials	1,129	1,282	1,336
Hired labor (paid in kind)	64	67	70
Landlord's share	867	985	1,026
Harvester's share	384	439	470
IMPUTED COST	10,066	10,660	11,132
Operator/family labor	6,963	7,318	7,650
Exchange labor	270	284	296
Depreciation	1,306	1,437	1,581
Interest on operating capital	598	566	506
Rental value of owned land	929	1,055	1,099
TOTAL COSTS	23,663	25,582	26,817
GROSS RETURNS	49,608	56,711	60,668
RETURNS ABOVE CASH COSTS	38,455	44,562	47,885
RETURNS ABOVE CASH AND NON-CASH COSTS	36,011	41,789	44,983
NET RETURNS	25,946	31,129	33,850
NET PROFIT-COST RATIO	1.10	1.22	1.26
<i>Cost per kilogram (peso/kg)</i>	<i>4.78</i>	<i>5.14</i>	<i>5.25</i>
<i>Yield per hectare (kg/hectare)</i>	<i>4,946</i>	<i>4,979</i>	<i>5,111</i>
<i>Farmgate price (peso/kg)</i>	<i>10.03</i>	<i>11.39</i>	<i>11.87</i>

R - Revised estimates

P - Preliminary estimates

Table 11.1. ONION (BULB): UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COSTS	73,491	100,353	106,037
Planting materials (Seeds)	21,247	41,716	43,818
Fertilizers	19,236	22,028	23,798
Mulching materials	72	82	89
Pesticides	4,408	4,316	4,334
Hired Labor	20,240	21,271	22,583
Land tax	385	389	393
Rentals	2,951	4,828	5,084
Irrigation fee	653	1,282	1,347
Food expense	1,022	1,064	1,088
Repairs	2,182	2,234	2,324
Others	1,095	1,143	1,179
NON-CASH COSTS	5,912	11,386	11,950
Harvesters' share	83	158	154
Other laborers' share	237	249	264
Landowner's share	5,466	10,732	11,273
Lease rental	126	247	259
IMPUTED COSTS	20,809	25,528	26,189
Operator Labor	5,307	5,577	5,921
Family Labor	3,333	3,503	3,719
Exchange Labor	808	849	902
Depreciation	3,303	3,633	3,996
Interest on operating capital	5,001	5,964	5,346
Rental value of owned land	3,057	6,002	6,305
TOTAL COSTS	100,212	137,267	144,176
GROSS RETURNS	240,876	459,690	447,311
RETURNS ABOVE CASH COSTS	167,385	359,337	341,274
RETURNS ABOVE CASH AND NON-CASH COSTS	161,473	347,951	329,324
NET RETURNS	140,664	322,423	303,135
NET PROFIT-COST RATIO	1.40	2.35	2.10
<i>Cost per kilogram (peso/kg)</i>	<i>11.14</i>	<i>15.69</i>	<i>17.80</i>
<i>Yield per hectare (kg/hectare)</i>	<i>8,998</i>	<i>8,746</i>	<i>8,102</i>
<i>Farmgate price (peso/kg)</i>	<i>26.77</i>	<i>52.56</i>	<i>55.21</i>

R - Revised estimates

P - Preliminary estimates

Table 11.2. ONION (MULTIPLIER): UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COSTS	58,084	62,224	62,384
Planting materials	6,756	6,598	4,327
Fertilizers	12,241	14,229	15,514
Mulching materials	3,768	4,380	4,776
Pesticides	3,042	2,978	2,990
Hired Labor	16,790	17,645	18,733
Land tax	192	194	196
Rentals	3,000	2,946	2,026
Fuel and oil	4,265	4,811	5,119
Transport of inputs	234	254	260
Interest payment on crop loan	1,115	1,227	1,350
Electricity	574	627	667
Irrigation fee	187	183	120
Food expense	4,952	5,155	5,271
Repairs	705	722	751
Others	263	275	284
NON-CASH COSTS	40,338	39,402	25,876
Planting materials (Bulbs)	30,835	30,113	19,748
Harvesters' share	301	296	196
Other laborers' share	82	86	91
Landowner's share	9,120	8,907	5,841
IMPUTED COSTS	22,881	23,674	23,551
Operator Labor	7,575	7,961	8,452
Family Labor	3,987	4,190	4,449
Exchange Labor	745	783	831
Depreciation	4,426	4,869	5,356
Interest on operating capital	3,267	3,057	2,618
Rental value of owned land	2,881	2,814	1,845
TOTAL COSTS	121,303	125,300	111,811
GROSS RETURNS	295,158	290,586	192,026
RETURNS ABOVE CASH COSTS	237,074	228,362	129,642
RETURNS ABOVE CASH AND NON-CASH COSTS	196,736	188,960	103,766
NET RETURNS	173,854	165,286	80,215
NET PROFIT-COST RATIO	1.43	1.32	0.72
<i>Cost per kilogram (peso/kg)</i>	<i>13.87</i>	<i>14.21</i>	<i>12.58</i>
<i>Yield per hectare (kg/hectare)</i>	<i>8,748</i>	<i>8,819</i>	<i>8,886</i>
<i>Farmgate price (peso/kg)</i>	<i>33.74</i>	<i>32.95</i>	<i>21.61</i>

R - Revised estimates

P - Preliminary estimates

Table 12. GARLIC: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012,

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COSTS	58,054	64,733	65,517
Planting materials	6,481	8,574	6,298
Fertilizers	12,182	13,921	15,065
Mulching materials	7,360	8,411	9,102
Pesticides	4,535	4,099	4,117
Hired Labor	11,965	12,574	13,145
Land tax	482	487	492
Rentals	2,047	2,276	2,191
Fuel and oil	8,279	9,380	9,980
Transport of inputs	760	861	881
Interest payment on crop loan	230	253	278
Electricity	56	61	65
Irrigation fee	88	116	85
Food expense	2,681	2,791	2,854
Repairs	855	876	911
Others	53	53	53
NON-CASH COSTS	31,979	42,273	31,083
Planting materials	21,161	27,996	20,563
Harvesters' share	92	124	93
Other laborers' share	139	146	139
Landowner's share	10,514	13,910	10,217
Lease rental (palay)	73	97	71
IMPUTED COSTS	34,259	37,044	37,295
Operator Labor	11,480	12,065	12,613
Family Labor	7,330	7,704	8,054
Exchange Labor	309	324	339
Depreciation	8,600	9,460	10,406
Interest on operating capital	3,262	3,154	2,697
Rental value of owned land	3,278	4,337	3,186
TOTAL COSTS	124,292	144,050	133,895
GROSS RETURNS	258,023	347,104	261,079
RETURNS ABOVE CASH COSTS	199,969	282,371	195,562
RETURNS ABOVE CASH AND NON-CASH COSTS	167,990	240,098	164,479
NET RETURNS	133,731	203,054	127,184
NET PROFIT-COST RATIO	1.08	1.41	0.95
<i>Cost per kilogram (peso/kg)</i>	<i>39.50</i>	<i>45.02</i>	<i>40.86</i>
<i>Yield per hectare (kg/hectare)</i>	<i>3,147</i>	<i>3,200</i>	<i>3,277</i>
<i>Farmgate price (peso/kg)</i>	<i>81.99</i>	<i>108.47</i>	<i>79.67</i>

R - Revised estimates

P - Preliminary estimates

TABLE 13. AMPALAYA: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	69,740	75,291	76,645
Seeds/planting materials	5,455	7,174	7,067
Fertilizers	18,824	21,821	23,414
Pesticides	14,318	12,942	12,996
Hired labor	15,781	16,586	15,833
Land tax	233	235	237
Rentals	2,387	2,893	2,820
Fuel and oil	2,921	3,295	3,506
Transport of inputs	1,644	1,787	1,828
Irrigation fee	9	12	12
Interest on crop loan	1,419	1,561	1,717
Food expense	1,510	1,572	1,607
Repairs	2,808	2,875	2,990
Others	2,431	2,538	2,618
NON-CASH COST	2,290	2,800	2,768
Seeds/planting materials	1,001	1,317	1,297
Hired labor (paid in kind)	368	387	369
Landlord's share	252	331	326
Harvester's share	232	306	303
Lease rental	9	12	12
Others	428	447	461
IMPUTED COST	54,015	57,401	56,323
Operator and family labor	34,443	36,200	34,557
Exchange labor	1,986	2,087	1,992
Depreciation	11,197	12,317	13,549
Interest on operating capital	4,171	3,880	3,351
Rental value of owned land	2,218	2,917	2,874
ALL COSTS	126,045	135,492	135,736
GROSS RETURNS	166,172	218,955	216,503
RETURNS ABOVE CASH COSTS	96,432	143,664	139,858
RETURNS ABOVE CASH AND NON-CASH COSTS	94,142	140,864	137,090
NET RETURNS	40,127	83,463	80,767
NET PROFIT-COST RATIO	0.32	0.62	0.60
<i>Cost per kilogram (peso/kg)</i>	<i>15.86</i>	<i>17.02</i>	<i>16.98</i>
<i>Yield per hectare (kg/hectare)</i>	<i>7,947</i>	<i>7,962</i>	<i>7,992</i>
<i>Farmgate price (peso/kg)</i>	<i>20.91</i>	<i>27.50</i>	<i>27.09</i>

R - Revised estimates

P - Preliminary estimates

TABLE 14. CABBAGE: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	64,054	70,838	73,340
Seeds/planting materials	2,958	5,854	5,026
Fertilizers	23,343	26,234	28,233
Pesticides	5,935	5,364	5,387
Hired labor	16,565	17,409	18,199
Land tax	226	228	230
Rentals	2,247	2,361	2,468
Transport of inputs	3,756	4,083	4,176
Food expense	2,621	2,728	2,789
Repairs	5,413	5,543	5,765
Others	990	1,034	1,067
NON-CASH COST	82	110	106
Seeds/planting materials	26	51	44
Hired labor (paid in kind)	56	59	62
IMPUTED COST	32,317	41,419	39,904
Operator/family labor	16,865	17,724	18,529
Depreciation	3,542	3,896	4,286
Interest on operating capital	3,743	3,637	3,212
Rental value of owned land	8,167	16,162	13,877
ALL COSTS	96,453	112,367	113,350
GROSS RETURNS	121,115	233,177	202,414
RETURNS ABOVE CASH COSTS	57,061	162,339	129,074
RETURNS ABOVE CASH AND AND NON-CASH COSTS	56,979	162,229	128,968
NET RETURNS	24,662	120,810	89,064
NET PROFIT-COST RATIO	0.26	1.08	0.79
<i>Cost per kilogram (peso/kg)</i>	6.40	7.67	7.65
<i>Yield per hectare (kg/hectare)</i>	15,064	14,656	14,818
<i>Farmgate price (peso/kg)</i>	8.04	15.91	13.66

R - Revised estimates

P - Preliminary estimates

TABLE 15. CARROT: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	49,501	53,759	56,172
Seeds/planting materials	1,737	2,945	2,616
Fertilizers	16,155	18,076	19,449
Pesticides	3,284	2,967	2,980
Hired labor	14,222	14,947	15,625
Land tax	90	91	91
Rentals	3,495	3,673	3,839
Interest on crop loan	1,971	2,168	2,385
Transport of inputs	1,804	1,961	2,005
Food expense	1,471	1,531	1,566
Repairs	5,273	5,399	5,616
NON-CASH COST	13	22	20
Seeds/planting materials	13	22	20
IMPUTED COST	26,644	30,629	30,319
Operator/family labor	18,261	19,191	20,061
Depreciation	1,943	2,137	2,351
Interest on operating capital	2,715	2,986	2,298
Rental value of owned land	3,725	6,315	5,609
ALL COSTS	76,158	84,410	86,511
GROSS RETURNS	197,090	321,751	292,763
RETURNS ABOVE CASH COSTS	147,589	267,992	236,591
RETURNS ABOVE CASH AND NON-CASH COSTS	147,576	267,970	236,571
NET RETURNS	120,932	237,341	206,252
NET PROFIT-COST RATIO	1.59	2.81	2.38
<i>Cost per kilogram (peso/kg)</i>	5.40	6.22	6.22
<i>Yield per hectare (kg/hectare)</i>	14,098	13,576	13,908
<i>Farmgate price (peso/kg)</i>	13.98	23.70	21.05

R - Revised estimates

P - Preliminary estimates

TABLE 16. CAULIFLOWER: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	62,058	66,993	71,490
Seeds/planting materials	6,697	9,242	11,248
Fertilizers	19,694	21,091	22,374
Pesticides	6,598	5,963	5,989
Hired labor	10,868	11,421	11,940
Land tax	972	982	992
Rentals	8,965	9,421	9,849
Transport of inputs	6,351	6,904	7,061
Food expense	606	631	645
Repairs	1,307	1,338	1,392
NON-CASH COST	2,545	3,512	4,274
Landlord's share	2,545	3,512	4,274
IMPUTED COST	22,326	23,605	24,641
Operator/family labor	16,038	16,855	17,620
Depreciation	1,181	1,181	1,181
Interest on operating capital	3,364	3,164	2,913
Rental value of owned land	1,743	2,405	2,927
ALL COSTS	86,929	94,110	100,405
GROSS RETURNS	191,216	254,682	307,512
RETURNS ABOVE CASH COSTS	129,158	187,689	236,022
RETURNS ABOVE CASH AND NON-CASH COSTS	126,613	184,177	231,748
NET RETURNS	104,287	160,572	207,107
NET PROFIT-COST RATIO	1.20	1.71	2.06
<i>Cost per kilogram (peso/kg)</i>	7.73	8.67	9.32
<i>Yield per hectare (kg/hectare)</i>	11,248	10,856	10,771
<i>Farmgate price (peso/kg)</i>	17.00	23.46	28.55

R - Revised estimates

P - Preliminary estimates

TABLE 17. EGGPLANT: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	73,416	79,436	81,388
Seeds/planting materials	1,055	1,769	1,519
Fertilizer	22,444	23,606	25,011
Pesticides	12,043	10,886	10,932
Other material inputs	21	22	23
Hired labor	16,006	16,822	17,586
Land tax	84	85	86
Rentals	2,804	4,333	3,840
Fuel and oil	3,177	3,584	3,813
Transport of inputs	793	862	882
Irrigation fee	87	146	125
Interest on crop loan	5,588	6,147	6,762
Food expenses	4,787	4,983	5,095
Repairs	2,143	2,194	2,282
Landlord's share	2,384	3,997	3,432
NON-CASH COST	2,300	3,835	3,318
Seeds/planting materials	455	763	655
Hired labor (paid in kind)	36	38	40
Landlord's share	850	1,425	1,224
Harvesters' share	876	1,470	1,280
Lease rental	83	139	119
IMPUTED COST	32,526	34,549	35,483
Operator and family labor	21,933	23,049	24,222
Exchange labor	1,775	1,865	1,960
Depreciation	3,537	3,891	4,280
Interest on operating capital	3,955	3,521	3,112
Rental value of owned land	1,326	2,223	1,909
ALL COSTS	108,242	117,820	120,189
GROSS RETURNS	118,487	198,881	173,131
RETURNS ABOVE CASH COSTS	45,071	119,445	91,742
RETURNS ABOVE CASH AND NON-CASH COSTS	42,771	115,610	88,424
NET RETURNS	10,245	81,061	52,941
NET PROFIT-COST RATIO	0.09	0.69	0.44
<i>Cost per kilogram (peso/kg)</i>	<i>11.14</i>	<i>12.11</i>	<i>12.18</i>
<i>Yield per hectare (kg/hectare)</i>	<i>9,720</i>	<i>9,730</i>	<i>9,865</i>
<i>Farmgate price (peso/kg)</i>	<i>12.19</i>	<i>20.44</i>	<i>17.55</i>

R - Revised estimates

P - Preliminary estimates

TABLE 18. HABITCHUELAS: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	34,854	38,869	43,474
Seeds/planting materials	2,259	2,714	2,696
Fertilizers	15,253	18,573	22,629
Pesticides	4,402	3,979	3,996
Hired labor	6,616	6,953	7,269
Land tax	198	200	202
Rentals	1,950	2,049	2,142
Transport of inputs	1,974	2,146	2,195
Repairs	2,202	2,255	2,345
NON-CASH COST	1,237	1,486	1,476
Seeds/planting materials	1,237	1,486	1,476
IMPUTED COST	30,097	32,104	32,190
Operator/family labor	22,540	23,688	23,688
Depreciation	1,684	1,852	2,037
Interest on operating capital	2,188	2,136	2,067
Rental value of owned land	3,685	4,428	4,398
ALL COSTS	66,188	72,459	77,140
GROSS RETURNS	71,374	86,809	87,249
RETURNS ABOVE CASH COSTS	36,520	47,940	43,775
RETURNS ABOVE CASH AND NON-CASH COSTS	35,283	46,454	42,299
NET RETURNS	5,186	14,350	10,109
NET PROFIT-COST RATIO	0.08	0.20	0.13
<i>Cost per kilogram (peso/kg)</i>	<i>15.77</i>	<i>17.06</i>	<i>17.95</i>
<i>Yield per hectare (kg/hectare)</i>	<i>4,196</i>	<i>4,247</i>	<i>4,298</i>
<i>Farmgate price (peso/kg)</i>	<i>17.01</i>	<i>20.44</i>	<i>20.30</i>

R - Revised estimates

P - Preliminary estimates

TABLE 19. POTATO: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
	<i>(in pesos/hectare)</i>		
CASH COST	91,207	98,397	105,658
Seeds/planting materials	15,816	16,213	15,885
Fertilizers	34,087	39,829	46,017
Pesticides	7,170	6,481	6,509
Hired labor	18,490	19,432	20,314
Land tax	594	600	606
Rentals	829	871	911
Transport of inputs	5,798	6,302	6,446
Food expense	2,555	2,660	2,720
Repairs	5,868	6,009	6,250
NON-CASH COST	8,794	9,015	8,833
Seeds/planting materials	8,794	9,015	8,833
IMPUTED COST	46,299	47,726	47,366
Operator/family labor	18,374	19,310	19,310
Depreciation	3,970	4,367	4,804
Interest on operating capital	5,796	5,434	5,013
Rental value of owned land	18,159	18,615	18,239
ALL COSTS	146,300	155,138	161,857
GROSS RETURNS	385,572	380,262	372,917
RETURNS ABOVE CASH COSTS	294,365	281,865	267,259
RETURNS ABOVE CASH AND NON-CASH COSTS	285,571	272,850	258,426
NET RETURNS	239,272	225,124	211,060
NET PROFIT-COST RATIO	1.64	1.45	1.30
<i>Cost per kilogram (peso/kg)</i>	9.54	10.51	10.96
<i>Yield per hectare (kg/hectare)</i>	15,337	14,756	14,769
<i>Farmgate price (peso/kg)</i>	25.14	25.77	25.25

R - Revised estimates

P - Preliminary estimates

TABLE 20. STRINGBEANS: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COSTS	59,470	65,265	66,396
Seeds	3,445	3,949	3,675
Fertilizer	10,298	13,014	13,232
Pesticides	15,735	16,064	16,052
Other Material Inputs	291	361	447
Hired labor	10,101	10,616	11,098
Land tax	471	476	481
Rentals	3,360	3,775	3,610
Fuel and oil	4,773	5,384	5,729
Transport of inputs	1,601	1,740	1,780
Irrigation fee	142	163	152
Interest on crop loan	1,481	1,629	1,792
Food expenses	1,417	1,475	1,508
Repairs	899	921	958
Wages for overseer	235	247	258
Others	5,221	5,451	5,624
NON-CASH COSTS	2,596	2,968	2,769
Seeds	2,438	2,795	2,601
Hired labor (in kind)	73	77	80
Landlord's share	17	19	18
Harvester's share	31	35	31
Lease Rental	37	42	39
IMPUTED COSTS	54,204	57,395	59,290
Operator/family labor	40,000	42,040	43,949
Exchange labor	427	449	469
Depreciation	6,444	7,088	7,797
Interest on operating capital	3,058	2,917	2,514
Rental value of owned land	4,275	4,901	4,561
ALL COSTS	116,270	125,628	128,455
GROSS RETURNS	373,003	416,967	374,144
RETURNS ABOVE CASH COSTS	313,533	351,702	307,748
RETURNS ABOVE CASH & NON-CASH COSTS	310,937	348,734	304,979
NET RETURNS	256,733	291,339	245,689
NET PROFIT- COST RATIO	2.21	2.32	1.91
<i>Cost per kilogram (peso/kg)</i>	5.73	6.35	6.73
<i>Yield per hectare (kg/hectare)</i>	20,305	19,799	19,089
<i>Farmgate price (peso/kg)</i>	18.37	21.06	19.60

R - Revised estimates

P - Preliminary estimates

TABLE 21. TOMATO: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	61,803	66,051	69,666
Seeds/planting materials	910	1,036	965
Fertilizer	21,035	23,635	25,654
Pesticides	8,546	8,367	8,403
Hired labor	19,752	20,758	22,038
Land tax	160	162	164
Rentals	1,604	1,794	1,722
Fuel and oil	1,407	1,587	1,689
Transport of inputs	586	637	652
Irrigation fee	29	33	31
Interest on crop loan	433	476	524
Food expenses	2,228	2,319	2,371
Repairs	4,572	4,682	4,870
Other production costs (rice hay, bamboo, and plastic twine)	541	565	583
NON-CASH COST	2,676	3,033	2,848
Seeds/planting materials	480	546	509
Hired labor (paid in kind)	153	161	171
Landlord's share	875	996	928
Harvesters' share	76	87	82
Lease rental	1,092	1,243	1,158
IMPUTED COST	15,153	15,666	16,059
Operator and family labor	7,065	7,423	7,882
Exchange labor	348	366	389
Depreciation	2,959	3,255	3,581
Interest on operating capital	3,854	3,567	3,224
Rental value of owned land	927	1,055	983
ALL COSTS	79,632	84,750	88,573
GROSS RETURNS	141,324	161,300	152,124
RETURNS ABOVE CASH COSTS	79,521	95,249	82,458
RETURNS ABOVE CASH AND NON-CASH COSTS	76,845	92,216	79,610
NET RETURNS	61,692	76,550	63,551
NET PROFIT-COST RATIO	0.77	0.90	0.72
<i>Cost per kilogram (peso/kg)</i>	6.89	7.31	7.55
<i>Yield per hectare (kg/hectare)</i>	11,565	11,596	11,738
<i>Farmgate price (peso/kg)</i>	12.22	13.91	12.96

R - Revised estimates

P - Preliminary estimates

TABLE 22. MONGO: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	5,947	6,118	6,146
Seeds/planting materials	887	905	731
Fertilizers	69	84	94
Pesticides	732	662	665
Hired labor	1,966	2,066	2,160
Land tax	139	140	141
Rentals	454	476	494
Fuel and oil	165	186	198
Irrigation fee	47	48	39
Interest on crop loan	262	288	317
Transport of inputs	49	53	54
Food expense	295	307	314
Repairs	882	903	939
NON-CASH COST	2,660	2,813	2,288
Seeds/planting materials	857	874	706
Hired labor paid in kind	50	53	55
Landlord's share	530	541	437
Harvester's share	1,216	1,338	1,084
Irrigation fee	7	7	6
IMPUTED COST	5,940	6,258	6,394
Operator/family labor	2,928	3,077	3,217
Exchange labor	51	54	56
Depreciation	1,830	2,013	2,214
Interest on operating capital	280	246	206
Rental value of owned land	851	868	701
ALL COSTS	14,547	15,189	14,828
GROSS RETURNS	34,634	38,096	30,857
RETURNS ABOVE CASH COSTS	28,687	31,978	24,711
RETURNS ABOVE CASH AND NON-CASH COSTS	26,027	29,165	22,423
NET RETURNS	20,087	22,907	16,029
NET PROFIT-COST RATIO	1.38	1.51	1.08
<i>Cost per kilogram (peso/kg)</i>	<i>21.55</i>	<i>20.86</i>	<i>20.31</i>
<i>Yield per hectare (kg/hectare)</i>	<i>675</i>	<i>728</i>	<i>730</i>
<i>Farmgate price (peso/kg)</i>	<i>51.31</i>	<i>52.33</i>	<i>42.27</i>

R - Revised estimates

P - Preliminary estimates

TABLE 23. PEANUT: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012

ITEM	2010	2011P	2012R
		<i>(in pesos/hectare)</i>	
CASH COST	14,415	15,211	15,919
Seeds/planting materials	1,530	1,661	1,778
Fertilizers	523	555	562
Pesticides	38	34	34
Hired labor	9,039	9,500	9,931
Land tax	219	221	223
Rentals	474	508	539
Fuel and oil	279	315	335
Irrigation fee	54	59	63
Interest on crop loan	278	306	337
Transport of inputs	151	164	168
Food expense	804	837	856
Repairs	1,026	1,051	1,093
NON-CASH COST	2,953	3,189	3,433
Seeds/planting materials	1,768	1,919	2,054
Hired labor paid in kind	56	59	62
Landlord's share	663	720	771
Harvester's share	466	491	546
IMPUTED COST	7,797	8,197	8,577
Operator/family labor	3,947	4,148	4,336
Exchange labor	148	156	163
Depreciation	1,527	1,680	1,848
Interest on operating capital	854	779	695
Rental value of owned land	1,321	1,434	1,535
ALL COSTS	25,165	26,597	27,929
GROSS RETURNS	49,525	52,179	58,015
RETURNS ABOVE CASH COSTS	35,110	36,968	42,096
RETURNS ABOVE CASH AND NON-CASH COSTS	32,157	33,779	38,663
NET RETURNS	24,360	25,582	30,086
NET PROFIT-COST RATIO	0.97	0.96	1.08
<i>Cost per kilogram (peso/kg)</i>	<i>15.05</i>	<i>16.39</i>	<i>16.57</i>
<i>Yield per hectare (kg/hectare)</i>	<i>1,672</i>	<i>1,623</i>	<i>1,686</i>
<i>Farmgate price (peso/kg)</i>	<i>29.62</i>	<i>32.15</i>	<i>34.41</i>

R - Revised estimates

P - Preliminary estimates

TABLE 24. COFFEE: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010-2012*

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	18,106	19,654	20,997
Fertilizer	4,594	5,459	5,989
Pesticides	154	151	152
Hired labor	10,598	11,138	11,825
Land tax	626	632	638
Rentals	39	43	44
Fuel and oil	222	250	266
Transport of inputs	156	170	174
Interest on crop loan	561	617	679
Food expenses	611	636	650
Repairs	545	558	580
NON-CASH COST	917	1,004	1,031
Hired labor (paid in kind)	191	200	213
Landlord's share	17	20	20
Harvesters' share	532	581	592
Lease rental	177	203	206
IMPUTED COST	7,209	7,572	7,784
Operator and family labor	4,190	4,404	4,676
Exchange labor	97	102	109
Depreciation	327	327	327
Interest on operating capital	1,177	1,110	1,015
Rental value of owned land	1,418	1,629	1,657
ALL COSTS	26,232	28,230	29,812
GROSS RETURNS	43,739	47,745	48,624
RETURNS ABOVE CASH COSTS	25,633	28,091	27,627
RETURNS ABOVE CASH AND NON-CASH COSTS	24,716	27,087	26,596
NET RETURNS	17,507	19,515	18,812
NET PROFIT-COST RATIO	0.67	0.69	0.63
<i>Cost per kilogram (peso/kg)</i>	<i>33.67</i>	<i>38.15</i>	<i>40.23</i>
<i>Yield per hectare (kg/hectare)</i>	<i>779</i>	<i>740</i>	<i>741</i>
<i>Farmgate price (peso/kg)</i>	<i>56.15</i>	<i>64.52</i>	<i>65.62</i>

R - Revised estimates

P - Preliminary estimates

* Refers to maintenance cost only

Table 25. MILKFISH (BRACKISHWATER FISHPOND): UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2010 -2012

ITEM	2010	2011R	2012P
		<i>(in pesos/hectare)</i>	
CASH COST	25,445	25,702	27,637
Stocking materials	9,416	8,794	10,088
Commercial feeds	2,920	3,048	3,145
Natural food	96	100	103
Supplemental feeds	625	653	674
Fertilizers	2,217	2,625	2,820
Pesticides and other chemicals	288	261	262
Lime	180	163	164
Hired Labor	2,894	3,042	3,180
Land tax	385	389	393
Rentals	3,206	3,218	3,231
Salaries of permanent employees and overseer	2,138	2,247	2,361
Fuel and oil	300	338	360
Transport cost of inputs	139	151	154
License/permit	6	6	6
Electricity	151	165	176
Interest payment on loan	37	41	45
Food expense	179	186	190
Repairs	226	231	240
Others	42	44	45
NON-CASH COST	554	593	610
Harvesters' share	188	203	223
Caretakers' share	134	145	131
Other laborers' share	61	66	70
Administrator's share	35	38	42
Lease rental	6	6	6
Rice allowance of overseer	130	135	138
IMPUTED COST	6,807	7,066	7,404
Operator labor	142	149	156
Family labor	99	104	109
Exchange labor	4	4	4
Depreciation	987	1,086	1,195
Interest on operating capital	1,429	1,239	1,155
Rental value of owned fishpond	4,146	4,484	4,785
ALL COSTS	32,806	33,361	35,651
GROSS RETURNS	65,722	71,082	77,920
RETURNS ABOVE CASH COSTS	40,277	45,380	50,283
RETURNS ABOVE CASH AND NON-CASH COSTS	39,723	44,787	49,673
NET RETURNS	32,916	37,721	42,269
NET PROFIT-COST RATIO	1.00	1.13	1.19
<i>Cost per kilogram (peso/kg)</i>	37.75	37.78	39.31
<i>Yield per hectare (kg/hectare)</i>	869	883	907
<i>Farmgate price (peso/kg)</i>	75.63	80.50	85.91

R - Revised estimates

P - Preliminary estimates

TABLE 26. TILAPIA: UPDATED AVERAGE COSTS OF PRODUCTION, PHILIPPINES, 2011 - 2012

ITEM	2011	2012P
	<i>(in pesos/hectare)</i>	
CASH COST	191,318	195,129
Stocking materials	21,968	20,436
Feeds	136,526	140,854
Fertilizers	2,266	1,971
Pesticides	219	220
Disease/Pollution prevention	788	791
Lime	956	960
Hired Labor	6,777	7,085
Salaries of permanent employees	854	893
Wage of stay-in laborers	4,997	5,224
Land tax	170	172
Rentals	4,529	4,674
Fuel and oil	6,005	6,389
Transport cost of inputs	754	771
License/permit	7	8
Electricity	128	136
Interest payment on loan	340	374
Food expense	1,312	1,341
Repairs	2,687	2,795
Others	34	35
NON-CASH COST	1,662	1,442
Stocking materials	181	172
Feeds	82	85
Fertilizers	23	20
Hired Labor (in kind)	165	173
Harvesters' share	428	350
Caretaker's share	27	22
Wage of stay-in laborer	359	293
Other laborers' share	319	261
Lease rental	54	44
Others	21	22
IMPUTED COST	26,354	26,249
Stocking materials	174	214
Feeds	131	135
Fertilizers	1	1
Operator labor	1,781	1,862
Family labor	563	589
Exchange labor	2	2
Depreciation	3,640	4,004
Interest on operating capital	11,238	9,736
Rental value of owned aquafarm	8,824	9,706
ALL COSTS	219,335	222,820
GROSS RETURNS	321,006	262,160
RETURNS ABOVE CASH COSTS	129,687	67,031
RETURNS ABOVE CASH AND NON-CASH COSTS	128,025	65,589
NET RETURNS	101,671	39,340
NET PROFIT-COST RATIO	0.46	0.18
<i>Cost per kilogram (peso/kg)</i>	<i>38.07</i>	<i>55.70</i>
<i>Yield per hectare (kg/hectare)</i>	<i>5,762</i>	<i>4,000</i>
<i>Farmgate price (peso/kg)</i>	<i>55.71</i>	<i>65.54</i>

P - Preliminary estimates



Department of Agriculture
BUREAU OF AGRICULTURAL STATISTICS
1184 Ben-Lor Building, Quezon Avenue, Quezon City
Tel. No.: +63(2) 372-3820 / Fax. No.: +63(2) 371-2048

info@bas.gov.ph

URL: <http://bas.gov.ph>