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OUTPUT AND PRODUCTIVITY

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FOREWORD

The Agricultural Indicators System (AIS) is one of the statistical indicator frameworks maintained by the Philippine Statistics Authority (PSA). AIS has twelve (12) modules which are updated and released annually. This is the third module entitled Output and Productivity. It provides information on productivity of the different components of agricultural sector such as crops, livestock and poultry and fisheries. The reference years are 2014 to 2018.

The AIS aims to cover more agricultural development indicators to support the information needs of our data users. We encourage the readers to give their comments and suggestions on the improvement of the AIS, in general, and this report, in particular.



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July 2019

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**OUTPUT
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Crops

The performance of the crops industry can be monitored by looking at the changes in area, production and yield through the use of indices and growth rates. Indices of area harvested can indicate among others, the probable shift in the utilization of the country's arable land. Production indices measure the trends of increases/decreases in the volume of crop production. Yield indices indicate the productivity changes through the years compared with that of a given base year.

Area

The harvested area of agricultural crops in 2018 totaled 13.48 million hectares. This area was 0.91 percentage point higher than the 2012 level. By crop, the harvested area of palay increased to 4.80 million hectares or by 2.35 percentage points from the base year's area. Meanwhile, corn recorded a reduction in its harvested area at 2.51 million hectares in 2018 which was 3.18 percentage points lower than its 2012 area. Expansion in harvested area was noted for coconut which reached 3.63 million hectares in 2018 by 1.50 percentage points from the base year's area. Likewise, sugarcane area in 2018 increased to 0.44 million hectares indicating a 0.97 percentage point increment as compared to its 2012 area. Among the other major crops, the harvested area of rubber at 0.23 million hectares in 2018 posted the biggest growth by 29.90 percentage points from the base year's record. Larger area expansions in 2018 were also noted for onion at 19.27 percentage points, pineapple at 13.24 percentage points and cassava at 4.78 percentage points. The harvested area of eggplant at 21,650 hectares in 2018 was higher by 0.77 percentage point from the base year's area. On the other hand, the harvested areas of the other reference major crops in 2018 were below the base year's areas. Tobacco area at 28,210 hectares in 2018 registered the biggest reduction of 17.08 percentage points. This was followed by sweet potato whose harvested area dropped to 84,050 hectares by 16.86 percentage points. Garlic area at 2,650 hectares in 2018 was only 0.82 percentage point lower than the 2012 record (Table 1a).

From 2014 to 2018, the total harvested area of crops grew by an average of 0.24 percent annually. Over these years, palay harvested area inched up by a yearly average of 0.37 percent while corn harvested area contracted by an average of 0.95 percent per year. Meanwhile, harvested areas of coconut and sugarcane increased correspondingly by averages of 0.89 percent and 0.39 percent yearly. For the other major crops, the highest average yearly expansion in area harvested was

recorded in onion at 4.96 percent. Increases in harvested areas averaging from 1.06 percent to 1.80 percent were registered in pineapple, cassava, garlic, and rubber. In contrast, yearly downtrend was exhibited by tobacco and posted the highest reduction averaged at 5.93 percent. Similar trend was observed for cabbage and calamansi with average declines at 1.45 percent and 0.36 percent, respectively (Table 1b).

Production

In 2018, palay production went up to 19.07 million metric tons which was 5.73 percentage points above its base year's record. Corn production at 7.77 million metric tons was higher by 4.93 percentage points from its 2012 output. Meanwhile, the 2018 production levels of coconut at 14.73 million metric tons and sugarcane at 24.73 million metric tons were below their base year's records by 7.17 percentage points and 6.31 percentage points, respectively. Likewise, lower production levels in 2018 were observed in the other major crops such as coffee, mango, garlic, cabbage, calamansi and rubber. On the other hand, higher production gains in 2018 were noted in onion at 38.25 percentage points, cassava at 22.48 percentage points, eggplant at 15.55 percentage points, pineapple at 13.90 percentage points and mongo at 13.28 percentage points. The production increments of banana, tobacco, abaca, peanut, sweet potato and tomato ranged from 1.00 percentage point to 8.46 percentage points (Table 2a).

Over the five-year period, the production levels of palay and corn increased yearly by average rates corresponding to 0.27 percent and 0.15 percent. Production growths averaged 0.13 percent for coconut and 1.13 percent for sugarcane. Among the other major crops, increasing production throughout the five-year period was noted each in eggplant, pineapple and mongo and came up with higher increases averaging 2.07 percent, 2.16 percent and 3.35 percent, respectively. Average increases in outputs were posted by the other major crops which ranged from 0.17 percent to 1.81 percent. In contrast, output losses were observed for coffee, mango, tobacco, garlic, cabbage, calamansi and rubber. Year-on-year output contractions were exhibited by coffee and cabbage averaged at 5.41 percent and 1.46 percent, respectively (Table 2b).

Yield

The yield of palay per hectare in 2018 recorded at 3.97 metric tons improved by 3.30 percentage points from its 2012 yield. Corn yield at 3.09 metric tons per hectare was 8.37 percentage points higher than the base year's record. Meanwhile,

the yields per hectare of coconut at 4.06 metric tons and sugarcane at 56.53 metric tons in 2018 were lower than the 2012 yields by 8.54 percentage points and 7.21 percentage points, respectively. Similarly, below the base year's yields were recorded in coffee, mango, garlic, calamansi and rubber in 2018. On the contrary, tobacco indicated the highest increase in yield per hectare in 2018 at 26.39 percentage points from the 2012 yield. This was followed by sweet potato and mongo with respective yield gains of 22.31 percentage points and 20.83 percentage points. Minimal yield increases were registered in pineapple at 0.58 percentage point, banana at 2.87 percentage points, cabbage at 3.90 percentage points and abaca at 9.34 percentage points (Table 3a).

Annually, the yield of palay from 2014 to 2018 decreased by an average of 0.16 percent. On the other hand, the annual yield of corn grew by 1.04 percent per year. Coconut yield was down by an average of 0.74 percent while sugarcane yield was up by an average of 0.33 percent. Mongo with yearly increases in yield showed the highest yield growth averaged at 4.24 percent. Uptrend in yield was likewise maintained in eggplant with average growth at 1.49 percent. Annual yield increases averaging from 0.37 percent to 1.77 percent were observed in most of the other major crops. On the other hand, decreasing yield levels were exhibited in coffee, mango, garlic, onion, cabbage, calamansi and rubber. The highest average annual reductions were registered in calamansi at 7.22 percent and onion at 6.31 percent. Decreasing trend continued for coffee and registered an average decline at 4.56 percent per year (Table 3b).

Livestock and Poultry

Production indices measure the growth of each livestock and poultry component in a given period compared with that of a base year. On the other hand, the changes in the production of livestock and poultry describe the performance of each animal type. Livestock covers carabao, cattle, hog, goat and dairy while poultry includes chicken and duck meat and egg.

The 2018 production levels of all livestock products were higher than their 2012 records. Hog production reached 2.32 million metric tons in 2018 and was 17.54 percentage points higher than the base year's level. Dairy had the highest increase in production at 28.12 percentage points reaching 23,690 metric tons in 2018. Production of cattle went up to 0.26 million metric tons in 2018 and exceeded its base year's production by 3.67 percentage points. Similarly, production gains were reported for carabao at 0.29 percentage point and goat at 1.70 percentage points. For poultry products, the 2018 volume of production of

chicken at 1.84 million metric tons and chicken egg at 0.53 million metric tons surpassed their 2012 records by 24.15 percentage points and 26.80 percentage points, respectively. Meanwhile, duck production in 2018 was below the base year's level by 8.98 percentage points. Duck egg production increased by 17.27 percentage points in 2018 (Table 4a).

Among the livestock products, hog and dairy, which exhibited increasing trend over the five-year period, indicated the highest production increments at yearly averages of 3.37 percent and 4.69 percent, respectively. Cattle and goat production followed with yearly average increases corresponding to 0.20 percent and 0.28 percent. Growth in carabao production averaged less than one (1) percent per year. In the case of poultry products, chicken showed an uptrend in production and posted a yearly average gain of 3.99 percent. Similar behavior was observed for chicken egg production which grew by an average of 6.47 percent per year. Duck meat exhibited a negative growth rate in production at an average of 2.86 percent per year. Meanwhile, duck egg production increased yearly by an average of 2.94 percent (Table 4b).

Fisheries

Information on the indices of fish production provides a measure of the development of the fisheries industry through the years. Growth rates show the year to year variation in the volume of fish production by component and by environment. Fisheries cover commercial, municipal and aquaculture fishing.

The total commercial fisheries production in 2018 dropped to 0.95 million metric tons. This was lower by 9.20 percentage points from its base year's record. Output of the municipal fisheries was reduced to 1.11 million metric tons in 2018 or 13.65 percentage points below its 2012 record. The 2018 production of both marine and inland municipal fisheries dropped to 0.94 million metric tons and 0.16 million metric tons, respectively, and were lower than the 2012 production levels. Likewise, aquaculture production estimated at 2.30 million metric tons in 2018 was down by 9.35 percentage points from the base year's record. This production loss was contributed by the lower freshwater fishcage/pen and seaweed production in 2018 which remained below the base year's record. Improvement in outputs was higher from oyster production at 39.03 percentage points. This was followed by freshwater fishpond production which exceeded the 2012 record by 11.70 percentage points (Table 5a).

Over the years in review, declining production levels were noted in the commercial

and municipal fisheries which averaged at 3.81 percent and 2.88 percent, respectively. Specifically, production in marine and inland municipal fisheries contracted by yearly averages of 2.19 percent and 6.02 percent, respectively. In the case of aquaculture, production exhibited a fluctuating trend and registered an average decline by 0.29 percent. The source of decline in aquaculture production came from the decreases in outputs from marine fishcage/pen by 1.20 percent and seaweed by 1.01 percent. On the other hand, production growths were higher in oyster and mussel averaging 7.41 percent and 10.49 percent per year, respectively. Average gains ranging from 0.60 percent to 2.13 percent were recorded in the production from brackishwater fishpond, freshwater fishcage/pen and fishpond (Table 5b).

Table 1a
Indices of Area Harvested of Agricultural Crops, Philippines, 2014-2018

(2012=100)

(in percent)

ITEM	2012 AREA (^{'000} has.)	INDICES					PERCENTAGE POINT DIFFERENCE ^{1/}	2018 AREA (^{'000} has.)
		2014	2015	2016	2017	2018		
All Crops	13,354.92	99.99	99.06	98.03	101.15	100.91	0.91	13,476.11
A. Cereals	7,283.98	100.92	99.10	96.66	101.10	100.38	0.38	7,311.84
<i>Palay</i>	4,690.06	101.06	99.28	97.14	102.60	102.35	2.35	4,800.41
<i>Corn</i>	2,593.92	100.67	98.77	95.78	98.41	96.82	-3.18	2,511.44
B. Major Crops	5,652.84	98.91	98.98	99.71	101.24	101.40	1.40	5,731.83
<i>Coconut</i>	3,574.61	97.97	98.41	99.73	101.05	101.50	1.50	3,628.13
<i>Sugarcane</i>	433.30	99.71	97.24	94.65	100.96	100.97	0.97	437.51
<i>Banana</i>	454.26	97.47	97.60	97.49	98.35	98.60	-1.40	447.89
<i>Pineapple</i>	58.45	105.46	107.46	111.59	112.91	113.24	13.24	66.19
<i>Coffee</i>	120.00	97.88	94.78	95.70	94.04	94.46	-5.54	113.35
<i>Mango</i>	188.72	99.67	99.84	99.53	98.58	98.48	-1.52	185.86
<i>Tobacco</i>	34.03	106.05	97.27	95.52	90.61	82.92	-17.08	28.21
<i>Abaca</i>	138.52	97.29	96.87	97.04	95.62	95.47	-4.53	132.25
<i>Peanut</i>	26.11	95.93	94.14	90.09	91.05	91.53	-8.47	23.90
<i>Mongo</i>	44.35	96.91	93.46	93.23	94.55	93.75	-6.25	41.58
<i>Cassava</i>	217.26	99.78	102.64	105.76	107.95	104.78	4.78	227.64
<i>Sweet Potato</i>	101.09	88.01	84.92	83.84	84.06	83.14	-16.86	84.05
<i>Tomato</i>	17.35	96.52	93.20	93.38	95.07	95.09	-4.91	16.49
<i>Garlic</i>	2.68	95.47	102.54	98.93	96.00	99.18	-0.82	2.65
<i>Onion</i>	15.01	105.55	98.99	86.52	121.63	119.27	19.27	17.90
<i>Cabbage</i>	8.53	97.40	95.88	93.98	92.75	91.88	-8.12	7.84
<i>Eggplant</i>	21.49	98.48	97.78	97.92	99.82	100.77	0.77	21.65
<i>Calamansi</i>	20.84	96.27	95.92	95.11	94.94	94.89	-5.11	19.78
<i>Rubber</i>	176.24	123.51	126.30	126.69	128.39	129.90	29.90	228.94
C. Other Crops	418.10	98.55	99.49	99.13	100.65	103.43	3.43	432.44

1/ 2018 Index less 2012 Index, (2012=100)

Source: Philippine Statistics Authority

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Table 1b

Growth Rates in Area Harvested of Agricultural Crops, Philippines, 2014-2018

(in percent)

ITEM	2014 AREA ('000 has.)	GROWTH RATES				AVERAGE 2014-2018
		14-15	15-16	16-17	17-18	
All Crops	13,354.10	-0.93	-1.04	3.18	-0.24	0.24
A. Cereals	7,351.10	-1.81	-2.46	4.60	-0.71	-0.10
<i>Palay</i>	4,739.67	-1.76	-2.15	5.61	-0.24	0.37
<i>Corn</i>	2,611.43	-1.90	-3.02	2.74	-1.61	-0.95
B. Major Crops	5,590.96	0.07	0.73	1.53	0.16	0.63
<i>Coconut</i>	3,502.01	0.45	1.35	1.33	0.44	0.89
<i>Sugarcane</i>	432.03	-2.47	-2.67	6.67	0.01	0.39
<i>Banana</i>	442.75	0.14	-0.11	0.88	0.25	0.29
<i>Pineapple</i>	61.64	1.90	3.84	1.19	0.29	1.80
<i>Coffee</i>	117.45	-3.16	0.97	-1.74	0.45	-0.87
<i>Mango</i>	188.09	0.18	-0.31	-0.96	-0.10	-0.30
<i>Tobacco</i>	36.08	-8.28	-1.80	-5.14	-8.49	-5.93
<i>Abaca</i>	134.77	-0.43	0.17	-1.46	-0.16	-0.47
<i>Peanut</i>	25.05	-1.87	-4.31	1.07	0.52	-1.15
<i>Mongo</i>	42.98	-3.56	-0.24	1.41	-0.84	-0.81
<i>Cassava</i>	216.77	2.87	3.04	2.08	-2.94	1.26
<i>Sweet Potato</i>	88.97	-3.51	-1.27	0.26	-1.09	-1.40
<i>Tomato</i>	16.74	-3.45	0.20	1.81	0.02	-0.35
<i>Garlic</i>	2.55	7.40	-3.52	-2.97	3.32	1.06
<i>Onion</i>	15.84	-6.21	-12.60	40.59	-1.94	4.96
<i>Cabbage</i>	8.31	-1.57	-1.97	-1.32	-0.93	-1.45
<i>Eggplant</i>	21.16	-0.71	0.14	1.94	0.96	0.58
<i>Calamansi</i>	20.07	-0.36	-0.85	-0.18	-0.05	-0.36
<i>Rubber</i>	217.69	2.26	0.31	1.34	1.18	1.27
C. Other Crops	412.04	0.96	-0.36	1.53	2.76	1.22

Source of basic data: Philippine Statistics Authority

Table 2a
Indices of Production of Agricultural Crops, Philippines, 2014-2018
(2012=100)
(in percent)

ITEM	2012 PROD'N (¹ 000 mt.)	INDICES					PERCENTAGE POINT DIFFERENCE ^{1/}	2018 PROD'N (¹ 000 mt.)
		2014	2015	2016	2017	2018		
A. Cereals								
<i>Palay</i>	18,032.53	105.19	100.65	97.75	106.90	105.73	5.73	19,066.09
<i>Corn</i>	7,407.07	104.91	101.51	97.46	106.86	104.93	4.93	7,771.92
B. Major Crops								
<i>Coconut</i>	15,863.80	92.64	92.89	87.15	88.56	92.83	-7.17	14,726.17
<i>Sugarcane</i>	26,395.91	94.82	86.86	84.75	110.95	93.69	-6.31	24,730.82
<i>Banana</i>	9,226.77	96.29	98.45	96.50	99.35	101.43	1.43	9,358.78
<i>Pineapple</i>	2,397.75	104.56	107.71	108.96	111.43	113.90	13.90	2,730.98
<i>Coffee</i>	88.94	84.83	81.34	77.38	69.80	67.81	-32.19	60.31
<i>Mango</i>	768.41	115.18	117.48	105.94	95.92	92.61	-7.39	711.66
<i>Tobacco</i>	48.07	127.75	116.89	117.43	106.13	104.80	4.80	50.38
<i>Abaca</i>	68.51	99.33	102.69	104.86	100.48	104.39	4.39	71.52
<i>Peanut</i>	29.14	100.21	100.20	95.83	100.82	101.00	1.00	29.43
<i>Mongo</i>	32.37	99.32	103.88	105.17	109.19	113.28	13.28	36.66
<i>Cassava</i>	2,223.18	114.26	122.09	123.93	126.25	122.48	22.48	2,723.03
<i>Sweet Potato</i>	516.91	100.57	103.69	102.43	103.95	101.69	1.69	525.63
<i>Tomato</i>	203.59	105.39	105.49	103.50	107.47	108.46	8.46	220.82
<i>Garlic</i>	8.81	102.09	118.29	84.79	88.00	85.82	-14.18	7.56
<i>Onion</i>	124.89	163.07	145.09	98.16	147.67	138.25	38.25	172.67
<i>Cabbage</i>	126.38	101.27	99.50	97.39	96.91	95.47	-4.53	120.66
<i>Eggplant</i>	211.89	106.46	109.90	111.20	114.17	115.55	15.55	244.84
<i>Calamansi</i>	178.55	90.03	91.11	66.23	65.34	63.60	-36.40	113.55
<i>Rubber</i>	443.00	102.27	89.87	81.86	91.87	95.57	-4.43	423.37

^{1/} 2018 Index less 2012 Index, (2012=100)

Source: Philippine Statistics Authority

Table 2b
Growth Rates in Production of Agricultural Crops, Philippines, 2014-2018
(in percent)

ITEM	2014 PROD'N (^{'000} mt.)	GROWTH RATES				AVERAGE 2014-2018
		14-15	15-16	16-17	17-18	
A. Cereals						
<i>Palay</i>	18,967.83	-4.31	-2.88	9.36	-1.09	0.27
<i>Corn</i>	7,770.60	-3.24	-3.99	9.64	-1.81	0.15
B. Major Crops						
<i>Coconut</i>	14,696.30	0.26	-6.18	1.62	4.82	0.13
<i>Sugarcane</i>	25,029.88	-8.40	-2.42	30.92	-15.56	1.13
<i>Banana</i>	8,884.86	2.24	-1.98	2.95	2.10	1.33
<i>Pineapple</i>	2,507.10	3.02	1.15	2.27	2.22	2.16
<i>Coffee</i>	75.45	-4.13	-4.86	-9.80	-2.84	-5.41
<i>Mango</i>	885.04	2.00	-9.82	-9.46	-3.44	-5.18
<i>Tobacco</i>	61.42	-8.51	0.47	-9.62	-1.26	-4.73
<i>Abaca</i>	68.05	3.38	2.11	-4.17	3.89	1.30
<i>Peanut</i>	29.20	0.00	-4.36	5.20	0.19	0.26
<i>Mongo</i>	32.14	4.60	1.24	3.82	3.74	3.35
<i>Cassava</i>	2,540.25	6.85	1.50	1.87	-2.98	1.81
<i>Sweet Potato</i>	519.85	3.10	-1.22	1.48	-2.17	0.30
<i>Tomato</i>	214.57	0.09	-1.89	3.83	0.93	0.74
<i>Garlic</i>	8.99	15.86	-28.32	3.78	-2.48	-2.79
<i>Onion</i>	203.65	-11.02	-32.35	50.44	-6.38	0.17
<i>Cabbage</i>	127.99	-1.75	-2.13	-0.49	-1.48	-1.46
<i>Eggplant</i>	225.58	3.23	1.19	2.66	1.21	2.07
<i>Calamansi</i>	160.74	1.20	-27.31	-1.34	-2.67	-7.53
<i>Rubber</i>	453.05	-12.12	-8.92	12.23	4.03	-1.20

Source of basic data: Philippine Statistics Authority

Table 3a
Yield Indices of Agricultural Crops, Philippines, 2014-2018
(2012=100)
(in percent)

ITEM	2012 YIELD mt./ha.	INDICES					PERCENTAGE POINT DIFFERENCE ^{1/}	2018 YIELD mt./ha.
		2014	2015	2016	2017	2018		
Palay	3.84	104.09	101.38	100.63	104.19	103.30	3.30	3.97
Corn	2.86	104.20	102.78	101.75	108.59	108.37	8.37	3.09
Coconut	4.44	94.56	94.39	87.38	87.64	91.46	-8.54	4.06
Sugarcane	60.92	95.11	89.32	89.54	109.90	92.79	-7.21	56.53
Banana	20.31	98.80	100.87	98.98	101.01	102.87	2.87	20.90
Pineapple	41.02	99.15	100.23	97.64	98.68	100.58	0.58	41.26
Coffee	0.74	86.68	85.81	80.86	74.22	71.79	-28.21	0.53
Mango	4.07	115.56	117.67	106.44	97.30	94.04	-5.96	3.83
Tobacco	1.41	120.47	120.17	122.94	117.14	126.39	26.39	1.79
Abaca	0.49	102.10	106.01	108.05	105.08	109.34	9.34	0.54
Peanut	1.12	104.45	106.44	106.37	110.72	110.35	10.35	1.23
Mongo	0.73	102.49	111.15	112.80	115.49	120.83	20.83	0.88
Cassava	10.23	114.52	118.95	117.18	116.94	116.90	16.90	11.96
Sweet Potato	5.11	114.27	122.11	122.17	123.66	122.31	22.31	6.25
Tomato	11.74	109.19	113.19	110.84	113.03	114.06	14.06	13.39
Garlic	3.29	106.93	115.36	85.71	91.67	86.52	-13.48	2.85
Onion	8.32	154.50	146.57	113.46	121.41	115.92	15.92	9.64
Cabbage	14.81	103.97	103.78	103.62	104.49	103.90	3.90	15.39
Eggplant	9.86	108.10	112.39	113.57	114.38	114.67	14.67	11.31
Calamansi	8.57	93.52	94.98	69.63	68.83	67.02	-32.98	5.74
Rubber	2.51	82.80	71.16	64.61	71.55	73.57	-26.43	1.85

1/ 2018 Index less 2012 Index, (2012=100)

Source: Philippine Statistics Authority

Table 3b
Growth Rates in Yield of Agricultural Crops, Philippines, 2014-2018
(in percent)

ITEM	2014 YIELD mt./ha.	GROWTH RATES				AVERAGE 2014-2018
		14-15	15-16	16-17	17-18	
Palay	4.00	-2.60	-0.74	3.54	-0.86	-0.16
Corn	2.98	-1.37	-1.00	6.72	-0.20	1.04
Coconut	4.20	-0.18	-7.42	0.29	4.36	-0.74
Sugarcane	57.94	-6.08	0.25	22.73	-15.56	0.33
Banana	20.07	2.10	-1.87	2.05	1.84	1.03
Pineapple	40.67	1.10	-2.59	1.07	1.92	0.37
Coffee	0.64	-1.00	-5.78	-8.21	-3.28	-4.56
Mango	4.71	1.82	-9.54	-8.59	-3.35	-4.91
Tobacco	1.70	-0.25	2.31	-4.72	7.90	1.31
Abaca	0.50	3.83	1.93	-2.75	4.05	1.77
Peanut	1.17	1.90	-0.06	4.09	-0.33	1.40
Mongo	0.75	8.46	1.49	2.38	4.62	4.24
Cassava	11.72	3.87	-1.49	-0.20	-0.04	0.54
Sweet Potato	5.84	6.86	0.05	1.21	-1.09	1.76
Tomato	12.82	3.67	-2.08	1.98	0.91	1.12
Garlic	3.52	7.88	-25.70	6.95	-5.61	-4.12
Onion	12.85	-5.13	-22.59	7.01	-4.53	-6.31
Cabbage	15.40	-0.18	-0.15	0.84	-0.56	-0.02
Eggplant	10.66	3.97	1.04	0.71	0.25	1.49
Calamansi	8.01	1.57	-26.69	-1.16	-2.62	-7.22
Rubber	2.08	-14.06	-9.20	10.74	2.82	-2.42

Source of basic data: Philippine Statistics Authority

Table 4a**Indices of Volume of Livestock and Poultry Production, Philippines, 2014-2018**

(2012=100)

(in percent)

ITEM	2012	INDICES					PERCENTAGE	2018
	PROD'N (^{'000} mt)	2014	2015	2016	2017	2018	POINT DIFFERENCE ^{1/}	PROD'N (^{'000} mt)
A. Livestock								
<i>Carabao</i>	142.73	100.22	99.52	101.37	101.18	100.29	0.29	143.14
<i>Cattle</i>	253.98	102.89	105.08	106.47	104.85	103.67	3.67	263.31
<i>Hog</i>	1,973.62	102.97	107.43	113.07	114.76	117.54	17.54	2,319.76
<i>Goat</i>	75.67	100.58	102.40	102.36	102.21	101.70	1.70	76.95
<i>Dairy</i>	18.49	106.71	110.28	114.44	123.09	128.12	28.12	23.69
B. Poultry								
<i>Chicken</i>	1,479.44	106.24	112.26	113.19	118.01	124.15	24.15	1,836.66
<i>Duck</i>	33.85	102.26	100.27	95.18	91.86	91.02	-8.98	30.81
C. Eggs								
<i>Chicken egg</i>	421.06	98.72	105.58	109.66	116.95	126.80	26.80	533.91
<i>Duck egg</i>	39.75	104.44	106.68	111.10	114.30	117.27	17.27	46.61

^{1/} 2018 Index less 2012 Index, (2012=100)

Source: Philippine Statistics Authority

Table 4b
Growth Rates in Volume of Livestock and Poultry Production,
Philippines 2014-2018
 (in percent)

ITEM	2014 PROD'N ('000 mt)	GROWTH RATES				AVERAGE 2014-2018
		14-15	15-16	16-17	17-18	
A. Livestock						
<i>Carabao</i>	143.03	-0.69	1.86	-0.19	-0.88	0.02
<i>Cattle</i>	261.32	2.13	1.32	-1.52	-1.12	0.20
<i>Hog</i>	2,032.30	4.33	5.25	1.49	2.42	3.37
<i>Goat</i>	76.10	1.81	-0.03	-0.15	-0.50	0.28
<i>Dairy</i>	19.73	3.35	3.78	7.56	4.09	4.69
B. Poultry						
<i>Chicken</i>	1,571.76	5.67	0.82	4.26	5.20	3.99
<i>Duck</i>	34.61	-1.94	-5.08	-3.49	-0.92	-2.86
C. Eggs						
<i>Chicken egg</i>	415.65	6.95	3.86	6.65	8.43	6.47
<i>Duck egg</i>	41.51	2.15	4.14	2.88	2.60	2.94

Source of basic data: Philippine Statistics Authority

Table 5a
Indices of Volume of Fish Production by Subsector, Philippines, 2014-2018
 (2012=100)
 (in percent)

ITEM	2012 PROD'N ('000 mt)	INDICES					PERCENTAGE POINT DIFFERENCE ^{1/}	2018 PROD'N ('000 mt)
		2014	2015	2016	2017	2018		
A. Commercial	1,042.32	106.23	104.06	97.57	90.98	90.80	-9.20	946.44
B. Municipal	1,280.85	97.14	94.98	88.84	87.91	86.35	-13.65	1,106.07
Marine	1,083.43	95.01	93.39	90.17	88.81	86.93	-13.07	941.87
Inland	197.42	108.83	103.70	81.55	83.00	83.17	-16.83	164.20
C. Aquaculture	2,541.97	91.96	92.38	86.58	88.03	90.65	-9.35	2,304.37
Brackishwater fishpond ^{2/}	320.21	100.77	101.69	106.38	108.52	102.94	2.94	329.63
Freshwater fishcage/pen	165.38	90.93	94.06	93.23	95.84	97.35	-2.65	160.99
Freshwater fishpond ^{3/}	144.68	102.91	102.05	100.72	108.20	111.70	11.70	161.61
Marine fishcage/pen	114.32	109.31	102.13	102.83	103.03	103.93	3.93	118.82
Others	1,797.38	88.50	89.16	80.27	81.09	85.31	-14.69	1,533.31
Oyster	20.65	108.27	98.12	94.50	111.12	139.03	39.03	28.71
Mussel	25.66	73.12	62.15	73.17	74.86	102.50	2.50	26.30
Seaweed	1,751.07	88.49	89.45	80.21	80.83	84.42	-15.58	1,478.30

1/ 2018 Index less 2012 Index, (2012=100)

2/ Includes brackishwater fishcage and fishpen

3/ Includes small farm reservoir and rice fish

Source: Philippine Statistics Authority

Table 5b
Growth Rates in Volume of Fish Production by Subsector, Philippines, 2014-2018
(in percent)

ITEM	2014 PROD'N ('000 mt)	GROWTH RATES				AVERAGE 2014-2018
		14-15	15-16	16-17	17-18	
A. Commercial	1,107.22	-2.04	-6.24	-6.75	-0.19	-3.81
B. Municipal	1,244.26	-2.23	-6.46	-1.05	-1.77	-2.88
Marine	1,029.39	-1.71	-3.44	-1.51	-2.11	-2.19
Inland	214.86	-4.71	-21.37	1.79	0.20	-6.02
C. Aquaculture	2,337.60	0.45	-6.27	1.68	2.98	-0.29
Brackishwater fishpond ^{2/}	322.67	0.92	4.61	2.01	-5.14	0.60
Freshwater fishcage/pen	150.39	3.44	-0.88	2.81	1.57	1.73
Freshwater fishpond ^{3/}	148.89	-0.84	-1.31	7.43	3.24	2.13
Marine fishcage/pen	124.97	-6.57	0.69	0.19	0.87	-1.20
Others	1,590.69	0.75	-9.97	1.02	5.20	-0.75
Oyster	22.36	-9.37	-3.69	17.59	25.12	7.41
Mussel	18.76	-14.99	17.72	2.31	36.93	10.49
Seaweed	1,549.58	1.08	-10.33	0.77	4.45	-1.01

2/ Includes brackishwater fishcage and fishpen

3/ Includes small farm reservoir and rice fish

Source of basic data: Philippine Statistics Authority

MODULES OF THE AGRICULTURAL INDICATORS SYSTEM

1. Economic Growth: Agriculture
2. Agricultural Structure and Resources
- 3. Output and Productivity**
4. Agricultural Exports and Imports
5. Food Sufficiency and Security
6. Food Consumption and Nutrition
7. Population and Labor Force
8. Redistribution of Land
9. Gender-based Indicators of Labor and Employment in Agriculture
10. Agricultural Credit
11. Prices and Marketing of Agricultural Commodities
12. Inputs



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