

AGRICULTURAL INDICATORS SYSTEM (AIS)

FOOD CONSUMPTION AND NUTRITION



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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 and these are updated and released annually. This is the sixth module entitled Food Consumption and Nutrition. It provides information on per capita production, per capita net food disposable (NFD) and per capita calories, protein and fat supply of selected major agricultural commodities. The reference years are 2014 to 2018.

The AIS hopes 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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Undersecretary
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Quezon City, Philippines October 2019

FOOD CONSUMPTION AND NUTRITION

Per Capita Production

Per capita production refers to the volume of production of a particular commodity available for each member of the population. Annual per capita production index provides information on the change in the per capita production of the commodity in a given year compared to a base year. It measures the capacity of the country's agriculture sector to produce food commodities in pace with the growth of the population.

In 2018, the annual per capita production of rice decreased to 116.97 kilograms. It recorded a production index of 95.73 percent which indicates that the 2018 production per person of rice was lower by 4.27 percentage points from the 2012 record. A similar trend was observed for corn as its annual production per person dropped to 72.91 kilograms equivalent to an index of 95.00 percent or 5.00 percentage points below the base year's level. The per capita production of sugarcane and coffee declined in 2018 and remained lower than the 2012 record. Their respective per capita production estimates were 232.00 kilograms and 0.16 kilogram in 2018. In the case of coconut, the annual production per person went up in 2018 but was still lesser than the base year's level.

For the reference fruits, the 2018 production index of pineapple was 103.12 percent. This means that the annual production level per person of pineapple at 25.62 kilograms exceeded the 2012 level by 3.12 percentage points. On the other hand, the per capita production of banana, mango, calamansi, papaya and pomelo in 2018 stayed below their base year's records.

Among the vegetables and rootcrops, mongo recorded increasing and above the 2012 per capita production level with an index at 102.56 percent in 2018. Meanwhile, per capita production levels of onion, eggplant and cassava in 2018 were declining but remained above the base year's records. Despite the decline in the per capita production of onion to 1.62 kilograms in 2018, it indicated the highest production index at 125.17 percent. Meanwhile, decreasing and lower than the base year's production levels were observed for tomato, garlic, cabbage, peanut, sweet potato and potato.

For livestock products, beef, carabeef and chevon exhibited decreasing per capita production in 2018 at 1.45 kilograms, 0.79 kilogram and 0.42 kilogram, respectively. These were below the 2012 records. The annual production of pork rose to 18.35 kilograms per person and it posted an increasing index at 106.42 percent. Poultry products such as chicken (dressed) and chicken egg had higher production

estimates in 2018 which exceeded their 2012 levels. Chicken (dressed) production at 13.27 kilograms per person had an index of 112.40 percent. Likewise, chicken egg production per person reached 5.01 kilograms equivalent to an index of 114.80 percent. A drop in duck (dressed) production to 0.22 kilogram per person was noted and it remained below the 2012 record.

Increasing and above the 2012 per capita production levels were recorded in crabs at 0.52 kilogram and oyster at 0.28 kilogram with corresponding production indices of 115.21 percent and 129.21 percent in 2018. Meanwhile, lower than base year per capita production was sustained for milkfish, roundscad, tilapia, tuna, and shrimps and prawns (Table 1).

Daily Per Capita Net Food Disposable (NFD)

Net Food Disposable (NFD) refers to the volume of commodity available in its original (unprocessed) form for human consumption. Data on NFD are sourced from the Supply Utilization Accounts. It is the remaining balance after all the "use" parameters are taken into account. The daily net food disposable of a commodity of each member of the population measured through an index indicates the movement of food available for consumption in a specified year relative to a base year.

The daily per capita NFD of rice was reduced to 325.52 grams in 2018 and remained lower than the base year's record. Its estimated index of 99.95 percent shows that the quantity of rice available for consumption was 0.05 percentage point below the 2012 level. On the other hand, the per capita NFD of corn moved up to 75.19 grams per day in 2018 and surpassed the base year's level. It recorded an index of 156.30 percent or 56.30 percentage points more than the base year's NFD. The daily per capita NFD of coconut and coffee increased to 18.92 grams and 1.06 grams in 2018, respectively, but remained lower than the 2012 levels. For sugarcane, the per capita NFD dropped to 6.36 grams per day and it fell below the 2012 NFD.

The per capita NFD of pineapple increased to 30.06 grams per day translated to an index of 105.84 percent in 2018. Meanwhile, reductions in the 2018 daily per capita NFDs were observed in banana, mango, calamansi, papaya and pomelo and these were lower than the 2012 records.

Among the vegetables and rootcrops, the daily per capita NFDs of garlic, onion, peanut, mongo and potato were going up in 2018 and maintained above their 2012 levels. Garlic indicated the biggest NFD index of 445.25 percent at a per capita NFD

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of 1.96 grams per day in 2018. Onion was next with NFD per capita at 6.57 grams per day equivalent to an index of 187.15 percent. This was followed by peanut with an index at 132.47 percent or NFD at 2.83 grams per day. The daily NFD of eggplant declined to 5.79 grams per person in 2018, however, it still exceeded the base year's level. In contrast, lower than the base year's daily per capita NFDs were continuously registered in tomato, cabbage and sweet potato in 2018.

Increasing and higher than the 2012 daily per capita NFD levels continued for beef and pork with corresponding 2018 NFD at 6.11 grams and 57.80 grams and indices at 117.36 percent and 115.48 percent. The daily per capita NFDs of 3.31 grams for carabeef and 1.15 grams for chevon in 2018 were still below the base year's levels. The 2018 per capita NFDs per day of chicken (dressed) at 39.44 grams and chicken egg at 12.62 grams stayed higher than the 2012 NFD levels with indices at 111.99 percent and 114.71 percent, respectively. For duck (dressed), the daily per capita NFD at 0.60 gram in 2018 was below the 2012 level by 18.15 percentage points.

Fishery products such as tuna, crabs and oyster registered increasing daily per capita NFD levels at 12.04 grams, 1.09 grams and 0.74 gram in 2018, respectively, higher as compared with their base year's records. Correspondingly, NFD indices moved up to 118.60 percent, 103.17 percent and 128.34 percent. In contrast, the 2018 NFDs of milkfish, roundscad, tilapia, and shrimps and prawns remained lower than the 2012 levels (Table 2).

Per Capita Supply of Calories, Protein and Fats

Information on the nutrient equivalents of the different food intake measured on per capita per day basis will show the food items that contributed the highest content of calories, protein and fats.

Among the reference agricultural commodities, rice remained to be the prime source of calories. It provided 1,162.09 grams of calories per day per person in 2018. About 267.66 grams of calories per day were sourced from corn. Among the commercial crops, coconut contained the highest daily quantity of calories per person at 34.82 grams. For the fruits under review, banana supplied 66.32 grams of calories per person daily. Pineapple and mango contributed 7.82 grams and 7.59 grams of daily per capita calories, respectively. Smaller amount of calories was provided each by calamansi, papaya and pomelo. In the case of vegetables and rootcrops, more calorie contents came from peanut at 11.74 grams and sweet potato at 11.77 grams. Mongo contained 6.51 grams of calories while cassava

supplied 7.62 grams. Among the livestock and poultry products, the major sources of calories in 2018 were pork, chicken (dressed) and chicken egg containing 192.48 grams, 97.42 grams and 74.99 grams, respectively. For fishery products, the major providers of calories were tuna at 7.71 grams, tilapia at 5.12 grams and milkfish at 4.21 grams. Minimal supply of calories came from shrimps and prawns, crabs and oyster with less than 0.1 gram per day per person (Table 3a).

Higher daily protein supply was, likewise, sourced from rice at 24.41 grams per person in 2018. The protein content of corn was 7.14 grams per person per day. Other primary sources of protein were pork at 18.32 grams, chicken (dressed) at 11.95 grams and chicken egg at 5.78 grams. Beef contributed 2.25 grams of protein per day per person. Only less than 1.0 gram of protein was provided each by carabeef, chevon and duck (dressed). The protein supply was low among the reference fishery products. Tuna had bigger daily protein content at 1.24 grams per person (Table 3b).

In 2018, the daily per capita fats supply of rice was 5.86 grams while corn had 3.23 grams. Coconut contributed 3.29 grams of fats per person per day. Other good sources were pork, chicken (dressed) and chicken egg with corresponding fat contents at 12.45 grams, 4.58 grams and 5.28 grams. Smaller quantities of fats at less than 1.0 gram per person per day were derived from other commodities (Table 3c).

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Table 1.

Annual per capita production index of selected agricultural commodities, Philippines, 2014-2018 (2012=100)

COMMODITY	2012 PER CAPITA	APITA (in percent)					PERCENTAGE POINT	2018 PER CAPITA
	PRODUCTION (kg/annum)	2014	2015	2016	2017	2018	DIFFERENCE ^{1/}	PRODUCTION (kg/annum)
Rice	122.20	101.64	95.64	91.38	98.33	95.73	-4.27	116.97
Corn	76.75	101.38	96.46	91.10	98.29	95.00	-5.00	72.91
Coconut	164.37	89.52	88.27	81.47	81.46	84.04	-15.96	138.15
Sugarcane	273.50	91.63	82.54	79.22	102.06	84.83	-15.17	232.00
Coffee	0.26	81.97	77.29	72.33	64.20	61.39	-38.61	0.16
Banana	95.60	93.05	93.56	90.21	91.38	91.83	-8.17	87.79
Pineapple	24.84	101.03	102.36	101.85	102.49	103.12	3.12	25.62
Mango	7.96	111.29	111.64	99.03	88.23	83.85	-16.15	6.68
Calamansi	1.85	86.99	86.58	61.91	60.10	57.58	-42.42	1.07
Papaya	1.71	101.15	99.48	92.10	93.17	92.86	-7.14	1.59
Pomelo	0.32	95.00	93.88	88.29	82.18	79.94	-20.06	0.25
Tomato	2.11	101.84	100.24	96.75	98.85	98.20	-1.80	2.07
Garlic	0.09	98.66	112.42	79.27	80.95	77.70	-22.30	0.07
Onion	1.29	157.56	137.88	91.76	135.83	125.17	25.17	1.62
Cabbage	1.31	97.85	94.55	91.04	89.14	86.44	-13.56	1.13
Eggplant	2.20	102.87	104.43	103.95	105.01	104.62	4.62	2.30
Peanut	0.30	96.83	95.22	89.58	92.73	91.45	-8.55	0.28
Mongo	0.34	95.96	98.72	98.31	100.44	102.56	2.56	0.34
Cassava	23.04	110.41	116.02	115.85	116.13	110.89	10.89	25.54
Sweet potato	5.36	97.18	98.54	95.75	95.61	92.07	-7.93	4.93
Potato	1.24	96.28	94.16	91.30	90.50	88.91	-11.09	1.10
Beef	1.54	99.42	99.86	99.53	96.45	93.86	-6.14	1.45
Carabeef	0.87	96.83	94.57	94.76	93.07	90.80	-9.20	0.79
Pork	17.25	99.50	102.09	105.70	105.57	106.42	6.42	18.35
Chevon	0.46	97.18	97.31	95.69	94.02	92.08	-7.92	0.42
Chicken (dressed)	11.80	102.66	106.68	105.81	108.55	112.40	12.40	13.27
Duck (dressed)	0.26	98.81	95.29	88.97	84.49	82.40	-17.60	0.22
Chicken egg	4.36	95.39	100.33	102.51	107.57	114.80	14.80	5.01
Milkfish	4.05	99.26	95.37	96.18	97.87	92.57	-7.43	3.75
Roundscad	2.42	107.85	91.62	84.79	72.13	66.43	-33.57	1.61
Tilapia	3.19	98.32	96.17	91.28	92.88	94.39	-5.61	3.01
Tuna	5.30	104.72	104.03	93.02	97.31	94.28	-5.72	5.00
Shrimps & Prawns	0.60	96.33	96.59	90.57	84.04	81.01	-18.99	0.48
Crabs	0.45	99.01	94.26	99.39	105.93	115.21	15.21	0.52
Oyster	0.21	111.36	97.43	94.31	105.76	129.21	29.21	0.28

Source of basic data: Philippine Statistics Authority

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

Table 2.
Daily per capita net food disposable (NFD) index of selected agricultural commodities, Philippines, 2014-2018 (2012=100)

	2012 PER CAPITA			INDICES n percent	PERCENTAGE	2018 PER CAPITA		
COMMODITY	NFD (grams/day)	2014	2015	2016	2017	2018	POINT DIFFERENCE ^{1/}	NFD (grams/day)
Rice	325.69	96.18	93.90	90.71	99.47	99.95	-0.05	325.52
Corn	48.10	124.88	117.01	128.25	85.18	156.30	56.30	75.19
Coconut	22.51	89.52	88.25	81.44	81.46	84.05	-15.95	18.92
Sugarcane	7.49	91.62	82.53	79.22	102.06	84.82	-15.18	6.36
Coffee	1.11	51.54	105.75	102.54	65.49	95.59	-4.41	1.06
Banana	128.90	77.15	105.25	101.85	88.21	85.75	-14.25	110.53
Pineapple	28.40	97.54	107.67	94.06	100.11	105.84	5.84	30.06
Mango	20.01	111.31	112.74	99.68	88.42	84.27	-15.73	16.87
Calamansi	4.76	86.98	86.57	61.89	60.08	57.56	-42.44	2.74
Papaya	4.32	100.01	100.29	92.93	93.66	92.61	-7.39	4.00
Pomelo	0.81	94.87	93.73	88.29	82.18	79.94	-20.06	0.65
Tomato	4.49	102.45	100.67	97.10	99.21	98.56	-1.44	4.43
Garlic	0.44	211.36	447.73	370.22	403.64	445.25	345.25	1.96
Onion	3.51	149.86	149.86	177.09	147.22	187.15	87.15	6.57
Cabbage	3.29	98.18	94.83	91.31	89.41	86.69	-13.31	2.85
Eggplant	5.53	103.07	104.52	104.00	105.06	104.67	4.67	5.79
Peanut	2.14	112.62	119.16	116.26	131.98	132.47	32.47	2.83
Mongo	1.81	90.61	95.58	94.94	102.78	105.55	5.55	1.91
Cassava	6.31	111.05	116.02	115.85	116.12	110.87	10.87	6.99
Sweet potato	13.88	97.22	98.61	95.82	95.69	92.13	-7.87	12.79
Potato	2.55	96.70	108.75	105.98	104.91	106.23	6.23	2.71
Beef	5.20	107.27	106.39	112.07	113.97	117.36	17.36	6.11
Carabeef	3.40	99.21	99.51	96.41	96.35	97.24	-2.76	3.31
Pork	50.05	103.94	106.19	110.46	112.66	115.48	15.48	57.80
Chevon	1.25	97.24	97.30	95.69	94.02	92.08	-7.92	1.15
Chicken (dressed)	35.22	106.58	112.26	114.74	103.59	111.99	11.99	39.44
Duck (dressed)	0.73	98.61	94.83	88.42	83.82	81.85	-18.15	0.60
Chicken egg	11.01	95.31	100.25	102.43	107.49	114.71	14.71	12.62
Milkfish	7.18	98.60	94.78	95.56	97.53	91.75	-8.25	6.58
Roundscad	4.30	108.10	91.91	85.44	73.89	69.80	-30.20	3.00
Tilapia	8.47	97.78	96.23	91.36	93.04	94.51	-5.49	8.01
Tuna	10.15	112.22	130.28	112.02	117.86	118.60	18.60	12.04
Shrimps & Prawns		86.92	93.15	84.83	74.38	78.71	-21.29	1.27
Crabs	1.06	91.97	89.88	89.60	87.04	103.17	3.17	1.09
Oyster	0.58	109.10	96.22	94.00	104.21	128.34	28.34	0.74

Source of basic data: Philippine Statistics Authority 1/2018 Index less 2012 Index, (2012=100)

Table 3a.

Daily per capita calories supply of selected agricultural commodities,
Philippines, 2014-2018
(in grams)

COMMODITY	2014	2015	2016	2017	2018
Rice	1,118.30	1,091.73	1,054.70	1,156.59	1,162.09
Corn	213.85	200.37	219.61	145.86	267.66
Coconut	37.08	36.56	33.74	33.75	34.82
Sugarcane	2.06	1.86	1.78	2.29	1.91
Coffee	0.27	0.55	0.54	0.34	0.50
Banana	59.66	81.40	78.77	68.22	66.32
Pineapple	7.20	7.95	6.95	7.39	7.82
Mango	10.02	10.15	8.98	7.96	7.59
Calamansi	1.08	1.07	0.77	0.74	0.71
Papaya	1.12	1.13	1.04	1.05	1.04
Pomelo	0.37	0.37	0.34	0.32	0.31
Tomato	0.78	0.77	0.74	0.76	0.75
Garlic	1.21	2.56	2.12	2.31	2.55
Onion	1.63	1.63	1.93	1.60	2.04
Cabbage	0.61	0.59	0.57	0.56	0.54
Eggplant	0.12	0.12	0.12	0.12	0.12
Peanut	9.98	10.56	10.30	11.69	11.74
Mongo	5.59	5.90	5.86	6.34	6.51
Cassava	7.64	7.98	7.97	7.99	7.62
Sweet potato	12.42	12.59	12.24	12.22	11.77
Potato	1.65	1.86	1.81	1.79	1.81
Beef	14.23	14.12	14.87	15.12	15.57
Carabeef	6.82	6.84	6.63	6.62	6.69
Pork	173.24	176.98	184.11	187.78	192.48
Chevon	2.92	2.93	2.88	2.83	2.77
Chicken (dressed)	92.72	97.66	99.81	90.11	97.42
Duck (dressed)	3.08	2.96	2.76	2.62	2.55
Chicken egg	62.31	65.53	66.96	70.27	74.99
Milkfish	4.53	4.35	4.39	4.48	4.21
Roundscad	2.97	2.53	2.35	2.03	1.92
Tilapia	5.30	5.22	4.95	5.04	5.12
Tuna	7.29	8.47	7.28	7.66	7.71
Shrimps & Prawns	0.66	0.70	0.64	0.56	0.60
Crabs	0.46	0.45	0.44	0.43	0.51
Oyster	0.45	0.39	0.39	0.43	0.53

Sources of basic data: Food and Agriculture Organization and Philippine Statistics Authority

Table 3b.
Daily per capita protein supply of selected agricultural commodities,
Philippines, 2014-2018
(in grams)

COMMODITY	2014	2015	2016	2017	2018
Rice	23.49	22.94	22.16	24.30	24.41
Corn	5.71	5.35	5.86	3.89	7.14
Coconut	0.34	0.34	0.31	0.31	0.32
Sugarcane	0.01	0.01	0.01	0.02	0.01
Coffee	0.04	0.08	0.08	0.05	0.07
Banana	0.70	0.95	0.92	0.80	0.77
Pineapple	0.06	0.06	0.05	0.06	0.06
Mango	0.09	0.09	0.08	0.07	0.07
Calamansi	0.02	0.02	0.01	0.01	0.01
Papaya	0.02	0.02	0.02	0.02	0.02
Pomelo	a/	a/	a/	a/	a/
Tomato	0.04	0.04	0.03	0.04	0.04
Garlic	0.11	0.24	0.20	0.21	0.24
Onion	0.06	0.06	0.07	0.06	0.07
Cabbage	0.03	0.03	0.03	0.03	0.03
Eggplant	0.05	0.05	0.05	0.05	0.05
Peanut	0.45	0.48	0.47	0.53	0.53
Mongo	0.36	0.38	0.38	0.41	0.42
Cassava	0.06	0.07	0.07	0.07	0.06
Sweet potato	0.09	0.10	0.09	0.09	0.09
Potato	0.04	0.04	0.04	0.04	0.04
Beef	2.06	2.04	2.15	2.19	2.25
Carabeef	0.75	0.75	0.73	0.73	0.73
Pork	16.49	16.85	17.53	17.88	18.32
Chevon	0.35	0.35	0.34	0.34	0.33
Chicken (dressed)	11.37	11.98	12.24	11.05	11.95
Duck (dressed)	0.19	0.19	0.17	0.17	0.16
Chicken egg	4.80	5.05	5.16	5.42	5.78
Milkfish	0.73	0.70	0.71	0.72	0.68
Roundscad	0.48	0.41	0.38	0.33	0.31
Tilapia	0.85	0.84	0.80	0.81	0.82
Tuna	1.17	1.36	1.17	1.23	1.24
Shrimps & Prawns	0.13	0.14	0.13	0.11	0.12
Crabs	0.09	0.09	0.09	0.09	0.10
Oyster	0.07	0.06	0.06	0.06	0.08

Sources of basic data: Food and Agriculture Organization and Philippine Statistics Authority a/- less than 0.01 grams

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Table 3c.

Daily per capita fat supply of selected agricultural commodities,
Philippines, 2014-2018
(in grams)

COMMODITY	2014	2015	2016	2017	2018
Rice	5.64	5.50	5.32	5.83	5.86
Corn	2.58	2.42	2.65	1.76	3.23
Coconut	3.51	3.46	3.19	3.19	3.29
Sugarcane	a/	a/	a/	a/	a/
Coffee	a/	a/	a/	a/	a/
Banana	0.30	0.41	0.39	0.34	0.33
Pineapple	0.06	0.06	0.05	0.06	0.06
Mango	0.04	0.05	0.04	0.04	0.03
Calamansi	0.01	0.01	0.01	0.01	0.01
Papaya	a/	a/	a/	a/	a/
Pomelo	a/	a/	a/	a/	a/
Tomato	0.01	0.01	0.01	0.01	0.01
Garlic	a/	0.01	0.01	0.01	0.01
Onion	0.01	0.01	0.01	0.01	0.01
Cabbage	a/	a/	a/	a/	a/
Eggplant	0.57	0.58	0.58	0.58	0.58
Peanut	0.87	0.92	0.89	1.01	1.02
Mongo	0.03	0.03	0.03	0.03	0.03
Cassava	0.01	0.01	0.01	0.01	0.01
Sweet potato	0.03	0.03	0.03	0.03	0.03
Potato	a/	a/	a/	a/	a/
Beef	1.20	1.19	1.25	1.28	1.31
Carabeef	0.32	0.32	0.31	0.31	0.31
Pork	11.21	11.45	11.91	12.15	12.45
Chevon	0.15	0.15	0.15	0.15	0.15
Chicken (dressed)	4.35	4.59	4.69	4.23	4.58
Duck (dressed)	0.24	0.23	0.21	0.20	0.20
Chicken egg	4.38	4.61	4.71	4.94	5.28
Milkfish	0.16	0.15	0.15	0.15	0.14
Roundscad	0.10	0.09	0.08	0.07	0.07
Tilapia	0.18	0.18	0.17	0.17	0.18
Tuna	0.25	0.29	0.25	0.26	0.26
Shrimps & Prawns	0.01	0.01	0.01	0.01	0.01
Crabs	a/	a/	a/	a/	0.01
Oyster	0.01	0.01	0.01	0.01	0.01

Sources of basic data: Food and Agriculture Organization and Philippine Statistics Authority a/- less than 0.01 grams

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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