



ASEAN Agricultural Commodity outlook

No. 20 Jun 2018

ASEAN Food Security Information System (AFSIS)



Released by AFSIS Secretariat
Office of Agricultural Economics (OAE)
Ministry of Agriculture and Cooperatives
Bangkok, Thailand
<http://www.aptfsis.org>



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Report on

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Foreword

Agricultural Commodity Outlook (ACO) Report is published semi-annually by the ASEAN Food Security Information System (AFSIS) Secretariat, using the data gathered from 10 ASEAN member states. Like previous editions, this report covers a current situation and a prospect of 5 main commodities including rice, maize, sugarcane soybeans, and cassava.

In this latest of *Agricultural Commodity Outlook*, it provides both national and regional information on production, utilization, stock, trade, and FOB prices. The explanation for significant changes and unusual phenomena is also showed in this report. Furthermore, the report is scrutinized by all member states before publication.

AFSIS Secretariat

Office of Agricultural Economics (OAE)

Ministry of Agriculture and Cooperatives

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Highlights of Rice Outlook for 2019

- An increase in the beginning stock is the main reason for increasing in ASEAN rice supply (milled rice) forecast, the increasing expected to be 5.95 percent or 2.72 million tons from 45.82 million tons in 2018 to 48.54 million tons in 2019. (Table 1)
- Rice production is forecasted to be increase 3.10 percent or 4.42 million tons from 142.57 million tons in 2018 to 146.99 million tons in 2019, import is expected to be decrease 49.43 percent or 2.15 million tons from 4.35 million tons in 2018 to 2.20 million tons in 2019.
- Rice export is expected to be decrease 1.08 percent or 21.50 million tons in 2018 to 21.27 million tons in 2019.
- The ratio of production to domestic utilization ratio (self-sufficiency ratio) for the region is expected to be increase 2.11 percent from 134.79 percent in 2018 to 136.90 percent in 2019. The beginning stock to domestic utilization ratio (food security ratio) is estimated to be increase 1.89 percent from 43.32 percent in 2018 to 45.21 percent in 2019 (Table 1).

Table 1 Summary of the ASEAN rice situation, 2018-2019 (milled rice)

Items	2018	2019	Unit: Million tons	
			Change	
			Quantity	%
Supply (Million tons)	192.74	197.74	5.00	2.59
Beginning stock	45.82	48.54	2.72	5.95
Production	142.57	146.99	4.42	3.10
Import	4.35	2.20	-2.15	-49.43
Demand (Million tons)	175.81	178.11	2.29	1.30
Domestic utilization	105.77	107.37	1.61	1.52
Export	21.50	21.27	-0.23	-1.08
Ending stock	48.54	49.46	0.92	1.90
Ratio of production to domestic utilization (%)	134.79	136.90	2.11	-
Ratio of beginning stock to domestic utilization (%)	43.32	45.21	1.89	-

ASEAN Rice Situation in 2018

Production

ASEAN paddy production in 2018 (crop year 2017/18) was estimated at 223.23 million tons, the increase of 5.08 million tons or 2.33 percent from 218.15 million tons in 2017 (crop year 2016/17). The increase was due to the increase in planted area and yield. The increase in production was found in most of the country except Cambodia. (Table 2–5, Figure 1–4).

For **Cambodia**, the decrease in production attributed to the decrease in planted area and yield.

For **Indonesia**, the increase in production attributed to the increase in planted area and yield.

For **Lao PDR**, the increase in production attributed to the increase in planted area due to the favorable weather.

For **Malaysia**, the increase in production attributed to the increase in yield. The farmers use more improved variety and take care better than last year.

For **Myanmar**, the increase in production attributed to the increase in planted area. The increase in planted area was due to the government policy.

For **the Philippines**, the increase in production attributed to the increase in planted area and yield. The increase in both planted area and yield was due to the favorable weather.

For **Thailand**, the increase in production attributed to the increase in planted area and yield. The main reason was the favorable weather when compare to previous year.

For **Vietnam**, the increase in production attributed to the increase in yield which caused by favorable weather.

Utilization and Stock

The domestic utilization of rice (milled rice) within ASEAN in 2018 (calendar year) was estimated to be 105.77 million tons, increase from 104.86 million tons in 2017. The increase was about 0.90 million tons or 0.86 percent (Table 7–8).

The ratio of production to domestic utilization (self-sufficient ratio) of ASEAN in 2018 was estimated at 134.79 percent compared to 133.82 percent in 2017, up 0.97 percent, indicated that rice production in ASEAN in year 2018, aggregately, is sufficient for rice demand in ASEAN. The increase in the ratio of production to domestic utilization occurs in most of the countries in the region except 3 countries namely Cambodia, Myanmar, and the Philippines. However, on the country by country basis, some countries in the region were still needed to import rice for their domestic consumption. The lowest ratio was in Malaysia (Table 10, Figure 12).

The beginning stock in 2018 (January 2018) of ASEAN was estimated at 45.82 million tons, up about 0.8 million tons from 45.74 million tons in 2017 or 0.17 percent. Thailand carried 20.40 million tons or 44.52 percent of the ASEAN stock and followed by Cambodia 9.85 million tons or 21.50 percent of the total stock in the ASEAN.

The ratio of the beginning stock to the domestic utilization in 2018 for the whole ASEAN was estimated at 43.32 percent, decrease about 0.30 percent from the previous year. Cambodia, Lao PDR, Myanmar, and Thailand have the ratio above 20 percent optimum level. (Table 11, Figure 13)

Trade

In 2018, ASEAN as a whole exported 21.50 million tons of milled rice, an increase of 0.75 million tons or 3.60 percent from 20.76 million tons exported in 2017. Thailand, the major exporting countries in the region, the rice export have decreased.

The total import by the ASEAN in 2018 estimated to be 4.35 million tons, increased 1.97 million tons or about 82 percent from 2.39 million tons in 2017. Indonesia was the biggest importer in the region, which imported 1.90 million tons of milled rice. (Table 7–8, Figure 8–9).

The quantity and value of rice exported from ASEAN countries by countries of destination and the quantity and value of imported by countries of origin are given in Table 12–13.

Prices

Monthly FOB prices of rice export and CIF prices for rice import in selected countries in ASEAN during 2017–2018 (January – June) are shown in Table 14–15.

Damaged Area

The damaged area of paddy in ASEAN in 2018 (crop year 2017/18) was estimated to be 0.80 million hectares of which 0.66 million hectares or 82.38 percent caused by the flood. The damage has occurred the most in Thailand, which equals to 0.56 million hectares or 70.74 percent of the whole ASEAN. The damage was caused by many factors such as the drought pests, and disease (Table 6).

Prospects for Rice in 2019

Production

ASEAN paddy production in 2019 (crop year 2018/19) was estimated at 231.81 million tons, the increase of 8.58 million tons which is 3.84 percent from 223.23 million tons in 2018 (crop year 2017/18). The increase was due to the increase in planted area and yield. (Table 2–5, Figure 1–4)

Utilization and Stock

The domestic utilization of paddy rice in 2019 is projected to be 104.52 million tons, decrease about 1.24 million tons or 1.18 percent compared to 105.77 million tons in 2018 (Table 8–9).

The beginning stock in 2019 is predicted to be 112.95 million tons, increase about 67.13 million tons or 5.95 percent from 146.52 million tons in 2018. (Table 8–9, Figure 11).

The ratio of production to domestic utilization is forecasted to be 136.90 percent in 2019, increase 2.11 percent from 2018, indicated that rice production in ASEAN is still enough for consumption within the region (Table 10, Figure 12).

The ratio of the beginning stock to the domestic utilization in ASEAN in 2019 is forecasted to increase from 43.32 percent in 2018 to 45.21 percent in 2019. (Table 11, Figure 13)

Trade

Rice export from ASEAN is forecasted to decrease from 21.50 million tons in 2018 to 21.28 million tons in 2019 (Table 8–9, Figure 5 and 7). The decrease in export is forecast in Indonesia and Vietnam.

For the import, the whole ASEAN is forecasted to import 4.10 million tons in 2019, the decrease of 0.26 million tons or about 6 percent compared to 4.35 million tons in 2018 (Table 8–9, Figure 8 and 10).

Table 2 Paddy production in ASEAN countries, 2017 - 2019

Unit: 1,000 Tons

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	218,152.67	223,229.18	5,076.51	2.33	231,805.69	8,576.51	3.84
Brunei	N/A						
Cambodia	9,952.27	9,836.53	-115.74	-1.16	10,029.26	192.73	1.96
Indonesia	81,148.62	82,664.32	1,515.70	1.87	86,332.59	3,668.27	4.44
Lao PDR	4,055.41	4,234.00	178.59	4.40	4,297.75	63.75	1.51
Malaysia	2,570.51	2,814.31	243.79	9.48	3,058.72	244.42	8.68
Myanmar	27,255.44	27,647.66	392.22	1.44	27,708.24	60.58	0.22
Philippines	18,549.55	19,420.38	870.83	4.69	20,346.24	925.86	4.77
Singapore	N/A						
Thailand	31,857.19	32,627.04	769.85	2.42	34,695.49	2,068.46	6.34
Vietnam	42,763.68	43,984.94	1,221.26	2.86	45,337.39	1,352.45	3.07

Note: Estimated by AFSIS.

Table 3 Paddy planted area in ASEAN countries, 2017 - 2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	51,265.00	51,992.84	727.84	1.42	52,397.83	404.99	0.78
Brunei	N/A						
Cambodia	3,118.10	3,114.97	-3.13	-0.10	3,116.51	1.55	0.05
Indonesia	15,817.55	16,011.25	193.71	1.22	16,388.22	376.97	2.35
Lao PDR	995.22	1,008.20	12.99	1.30	1,021.19	12.98	1.29
Malaysia	685.55	684.98	-0.57	-0.08	684.42	-0.56	-0.08
Myanmar	7,161.28	7,256.29	95.01	1.33	7,286.50	30.21	0.42
Philippines	4,722.46	4,843.92	121.46	2.57	4,843.92	0.00	0.00
Singapore	N/A						
Thailand	11,056.32	11,488.33	432.01	3.91	11,472.18	-16.15	-0.14
Vietnam	7,708.53	7,584.90	-123.63	-1.60	7,584.90	0.00	0.00

Note: Estimated by AFSIS.

Table 4 Paddy harvested area in ASEAN countries, 2017 - 2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2018 (2017/18)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	50,663.79	51,196.63	532.84	1.05	51,982.65	786.02	1.54
Brunei	N/A						
Cambodia	3,099.77	3,114.97	15.20	0.49	3,116.51	1.55	0.05
Indonesia	15,712.03	15,939.58	227.56	1.45	16,388.22	448.63	2.81
Lao PDR	963.75	1,008.20	44.45	4.61	1,021.19	12.98	1.29
Malaysia	682.28	682.86	0.58	0.09	682.29	-0.56	-0.08
Myanmar	7,063.13	7,168.92	105.79	1.50	7,182.68	13.77	0.19
Philippines	4,722.46	4,843.92	121.46	2.57	4,843.92	0.00	0.00
Singapore	N/A						
Thailand	10,711.84	10,853.29	141.44	1.32	11,162.94	309.65	2.85
Vietnam	7,708.53	7,584.90	-123.63	-1.60	7,584.90	0.00	0.00

Note: Vietnam reported only planted area. Estimated by AFSIS.

Table 5 Paddy yield in ASEAN countries, 2017 - 2019

Unit: Ton/Hectare

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	4.31	4.36	0.05	1.16	4.46	0.10	2.29
Brunei	N/A						
Cambodia	3.21	3.16	-0.05	-1.56	3.22	0.06	1.90
Indonesia	5.16	5.19	0.03	0.58	5.27	0.08	1.54
Lao PDR	4.21	4.20	-0.01	-0.24	4.21	0.01	0.24
Malaysia	3.77	4.12	0.35	9.28	4.48	0.36	8.74
Myanmar	3.86	3.86	0.00	0.00	3.86	0.00	0.00
Philippines	3.93	4.01	0.08	2.04	4.20	0.19	4.74
Singapore	N/A						
Thailand	2.97	3.01	0.04	1.35	3.11	0.10	3.32
Vietnam	5.55	5.80	0.25	4.50	5.98	0.18	3.10

Note: Yield related to harvested area except Vietnam which related to planted area. Estimated by AFSIS.

Table 6 Paddy damaged area in ASEAN by cause of damage, 2018

Country	Cause of Damage (Hectares)						Total
	Flood	Drought	Pests	Diseases	Other	Unspecified	
ASEAN	655,923	31,963	54,388	19,696	32,116	2,123	796,209
Brunei	N/A						
Cambodia							
Indonesia	37,477	31,963	2,227				71,666
Lao PDR	N/A -						
Malaysia							0
Myanmar	55,196		61		32,116		87,373
Philippines							0
Singapore	N/A						
Thailand	563,251		52,100	19,696			635,047
Vietnam	N/A						

Table 7 Rice balance sheet of ASEAN countries, 2017 (milled rice)

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	45,740,251	140,329,820	2,389,560	188,459,631	104,864,101	20,756,671	45,819,253	171,440,025
Brunei	N/A							
Cambodia ^{1/}	7,994,004	6,731,737	-	14,725,740	4,240,865	635,679	9,849,196	14,725,740
Indonesia ^{2/}	1,734,837	50,912,642	306,354	52,953,833	34,951,366	4,323	978,538	35,934,227
Lao PDR	806,258	2,433,245	11,121	3,250,625	2,573,321	20,552	656,752	3,250,625
Malaysia ^{1/}	527,288	1,619,423	771,298	2,918,010	2,401,435	46,826	469,749	2,918,010
Myanmar	5,808,259	17,203,634		23,011,893	14,054,221	1,320,398	7,637,274	23,011,893
Philippines	2,764,944	12,607,000	885,000	16,256,944	13,966,000	11	2,290,933	16,256,944
Singapore	-	-	323,600	323,600	255,467	68,134	-	323,600
Thailand	21,782,382	21,025,745	19,502	42,827,629	10,802,000	11,628,303	20,397,326	42,827,629
Vietnam	4,322,279	27,796,393	72,684	32,191,356	21,619,426	7,032,446	3,539,484	32,191,356

Note: ^{1/} The value is estimated by AFSIS. ^{2/} Included government stock only, the data based on Indonesia's Food Balance Sheet**Table 8 Rice balance sheet of ASEAN countries, 2018 (milled rice)**

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	45,819,253	142,566,668	4,354,145	192,740,065	105,766,131	21,503,497	48,544,205	175,813,833
Brunei	N/A							
Cambodia	9,849,196	6,670,250	-	16,519,446	4,384,839	673,422	11,461,185	16,519,446
Indonesia ^{2/}	978,538	51,863,595	1,896,362	54,738,495	35,388,431	5,945	2,417,887	37,812,263
Lao PDR	656,752	2,540,401	26,815	3,223,967	2,657,079	28,349	538,539	3,223,967
Malaysia ^{1/}	469,749	1,773,013	847,237	3,089,999	2,379,970	3,288	706,741	3,089,999
Myanmar	7,637,274	17,451,204		25,088,478	14,673,785	2,949,815	7,464,878	25,088,478
Philippines ^{1/}	2,290,933	12,144,149	1,095,673	15,530,755	13,562,420	14	1,968,320	15,530,755
Singapore ^{1/}	-	-	356,861	356,861	304,266	52,595	-	356,861
Thailand	20,397,326	21,533,844	26,725	41,957,895	10,916,000	10,000,000	21,041,895	41,957,895
Vietnam	3,539,484	28,590,212	104,473	32,234,169	21,499,340	7,790,069	2,944,760	32,234,169

Note: ^{1/} The value is estimated by AFSIS. ^{2/} Included government stock only, the data based on Indonesia's Food Balance Sheet.**Table 9 Rice balance sheet of ASEAN countries, 2019 (milled rice)**

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	112,952,782	142,998,345	4,097,802	260,048,928	104,521,686	21,276,477	134,250,765	260,048,928
Brunei	N/A							
Cambodia	11,461,185	6,902,615	-	18,363,800	4,398,240	763,343	13,202,217	18,363,800
Indonesia ^{2/}	2,417,887	54,165,070	239	56,583,196	35,920,736	0	1,031,681	36,952,417
Lao PDR	538,539	2,578,650	25,197	3,142,386	2,740,837	30,286	371,263	3,142,386
Malaysia ^{1/}	706,741	1,926,995	847,224	3,480,960	2,554,319	13,113	913,529	3,480,960
Myanmar	7,464,878	17,489,439		24,954,317	14,705,935	2,956,278	7,292,104	24,954,317
Philippines ^{1/}	1,968,320	12,169,344	855,456	14,993,121	13,899,503	22	1,093,596	14,993,121
Singapore ^{1/}	-	-	372,686	372,686	315,194	57,492	-	372,686
Thailand	21,041,895	22,899,025	22,761	43,963,682	11,327,000	10,000,000	22,636,682	43,963,682
Vietnam	2,944,760	28,860,000	78,354	31,883,114	21,510,526	7,450,000	2,922,588	31,883,114

Note: ^{1/} The value is estimated by AFSIS. ^{2/} Included government stock only, the data based on Indonesia's Food Balance Sheet

Table 10 Ratio of rice production to domestic utilization in ASEAN countries (Self-sufficiency ratio), 2017 - 2019

Unit: Tons

Country	2017			2018			2019		
	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)
ASEAN	140,329,820	104,864,101	133.82	142,566,668	105,766,131	134.79	146,991,139	107,372,290	136.90
Brunei	N/A								
Cambodia	6,731,737	4,240,865	158.73	6,670,250	4,384,839	152.12	6,902,615	4,398,240	156.94
Indonesia	50,912,642	34,951,366	145.67	51,863,595	35,388,431	146.56	54,165,070	35,920,736	150.79
Lao PDR	2,433,245	2,573,321	94.56	2,540,401	2,657,079	95.61	2,578,650	2,740,837	94.08
Malaysia	1,619,423	2,401,435	67.44	1,773,013	2,379,970	74.50	1,926,995	2,554,319	75.44
Myanmar	17,203,634	14,054,221	122.41	17,451,204	14,673,785	118.93	17,489,439	14,705,935	118.93
Philippines	12,607,000	13,966,000	90.27	12,144,149	13,562,420	89.54	12,169,344	13,899,503	87.55
Singapore	0	255,467	-	0	304,266	-	0	315,194	-
Thailand	21,025,745	10,802,000	194.65	21,533,844	10,916,000	197.27	22,899,025	11,327,000	202.16
Vietnam	27,796,393	21,619,426	128.57	28,590,212	21,499,340	132.98	28,860,000	21,510,526	134.17

Table 11 Ratio of rice beginning stock to domestic utilization in ASEAN countries, 2016–2018

Unit: Tons

Country	2017			2018			2019		
	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)
ASEAN	45,740,251	104,864,101	43.62	45,819,253	105,766,131	43.32	48,544,205	107,372,290	45.21
Brunei	N/A								
Cambodia	7,994,004	4,240,865	188.50	9,849,196	4,384,839	224.62	11,461,185	4,398,240	260.59
Indonesia	1,734,837	34,951,366	4.96	978,538	35,388,431	2.77	2,417,887	35,920,736	6.73
Lao PDR	806,258	2,573,321	31.33	656,752	2,657,079	24.72	538,539	2,740,837	19.65
Malaysia	527,288	2,401,435	21.96	469,749	2,379,970	19.74	706,741	2,554,319	27.67
Myanmar	5,808,259	14,054,221	41.33	7,637,274	14,673,785	52.05	7,464,878	14,705,935	50.76
Philippines	2,764,944	13,966,000	19.80	2,290,933	13,562,420	16.89	1,968,320	13,899,503	14.16
Singapore	0	255,467	0.00	0	304,266	0.00	0	315,194	0.00
Thailand	21,782,382	10,802,000	201.65	20,397,326	10,916,000	186.86	21,041,895	11,327,000	185.77
Vietnam	4,322,279	21,619,426	19.99	3,539,484	21,499,340	16.46	2,944,760	21,510,526	13.69

Table 12 Quantity and Value of Rice Export by Countries of Destination in 2018

Quantity: Tons Values: US\$

Exporting Country	Country of Destination													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/A													
Cambodia														
Indonesia									16	32,163				
Lao PDR														
Malaysia						2,424,241								
Myanmar									7,127	2,463,360			11,129	3,828,220
Philippines											36	142,200		
Singapore	91	148			6,398	3,303			9,361	6,358			18	25
Thailand	13,860	12,000,105	3,177	1,201,670	431,730	192,330,723	8,750	2,330,339	192,543	78,235,313	4,002	1,915,814	197,121	78,790,525
Vietnam					770,968	361,911,557			452,628	203,935,560			654,577	298,450,772

Exporting Country	Country of Destination						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/A											
Cambodia							0	0			0	0
Indonesia	6.9	13840					23	46,003	3,056	1,219,271	3,079	1,265,274
Lao PDR			5,878	2,178,567	16,915	7,388,326	22,792	9,566,893	5,557	3,699,575	28,349	13,266,468
Malaysia		59,389					0	2,483,630		898,410	0	3,382,040
Myanmar	25,072	7,001,886	7	0	5,719	1,937,500	49,055	15,230,966	2,900,762	1,021,554,869	2,949,817	1,036,785,835
Philippines							0	142,200	2	13,425	2	155,625
Singapore			4	40	31	39	15,904	9,912	5,134	12,446	21,038	22,357
Thailand	42,744	40,482,384			10,506	6,000,092	904,432	413,286,967	3,519,321	1,808,209,292	4,423,752	2,221,496,258
Vietnam	64,158	35,940,761					1,942,331	900,238,650	2,003,385	1,080,836,186	3,945,716	1,981,074,836

Remark: The data in this table is obtained from national focal points of member states and may not complete.

Table 13 Quantity and Value of Rice Import by Countries of Origin in 2018

Quantity: Tons Values: US\$

Importing Country	Country of Origin													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/A													
Cambodia														
Indonesia														
Lao PDR														
Malaysia				15,665,801		30,900						830,147		
Myanmar														
Philippines														
Singapore			3,916	2,944,436	58	77,006			54	55,511	3,347	1,191,295		
Thailand											0	10		
Vietnam			111	43,450			13,245	5,542,679			14,600	6,067,190	1	467

Importing Country	Country of Origin						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/Aa											
Cambodia							0	0			0	0
Indonesia	0.0	112	502,700	237,276,340	665,965	311,327,465	1,168,665	548,603,917	45,940	21,424,663	1,214,605	570,028,580
Lao PDR			25,432	13,619,288	1,383	320,410	26,815	13,939,698			26,815	13,939,698
Malaysia				115,958,484		77,408,351	0	209,893,683		26,009,803	0	235,903,486
Myanmar							0	0			0	0
Philippines			246,239	100,591,695	287,403	125,072,162	533,641	225,663,857	59,869	29,681,286	593,510	255,345,143
Singapore			55,681	52,235,717	37,232	21,520,726	100,287	78,024,692	1,673	3,416,213	101,960	81,440,905
Thailand	29	30,752			400	158,333	429	189,094	5,429	4,394,558	5,858	4,583,653
Vietnam	54	21,931	16,029	6,637,900			44,041	18,313,618	32,662	13,650,877	76,703	31,964,495

Remark: The data in this table is obtained from national focal points of member states and may not complete.

Table 14 FOB Price of rice in selected ASEAN countries

Unit: US\$/Ton

Country	Grade	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Cambodia	Milled Rice 5%	2017	635	645	645	660	650	660	655	665	665	690	675	700	662
		2018													
Indonesia	Glutinous Rice	2017	2,643	1,920	2,928	735		673	2,797	1,805	941	1,314			1,751
		2018	2,512	375		421	4,967	1,949	2,000						2,038
Malaysia	Not specified	2017	463	573	1,089			2,800	2,865						1,558
Myanmar	Milled Rice 25%	2017	308	298	304	305	308	296	273	314	320	334	354	345	313
		2018	342	589	356	360	355	48	364						345
Thailand	Milled Rice 5%	2017	377	365	370	380	421	458	413	392	402	394	402	406	398
		2018	438	425	433	454	450	432							439
	Hommati Rice	2017	647	649	640	652	683	778	819	950	1,031	955	933	998	811
		2018	1,078	1,135	1,143	1,149	1,204	1,229							1,156
Vietnam	Milled Rice 5%	2017	428	424	450	468	445	442	425	435	458	509	481	478	454
		2018	486	497	514	505	512	522	499	489	483	513			502

Table 15 CIF Price of rice in selected ASEAN countries

Unit: US\$/Ton

Country	Grade	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Indonesia	Not specified	2017					5,971		5,844			10,833	14,000	10,833	9,496
		2018		471	466	463	469	474	468						469
Malaysia	Not specified	2017	489	550	687	468	478	477	478	435	501	503	525	522	509
Singapore	Not specified	2017	621	604	581	575	619	615	654	639	670	657	692	711	636
		2018	702	747	777	791	789	813							770

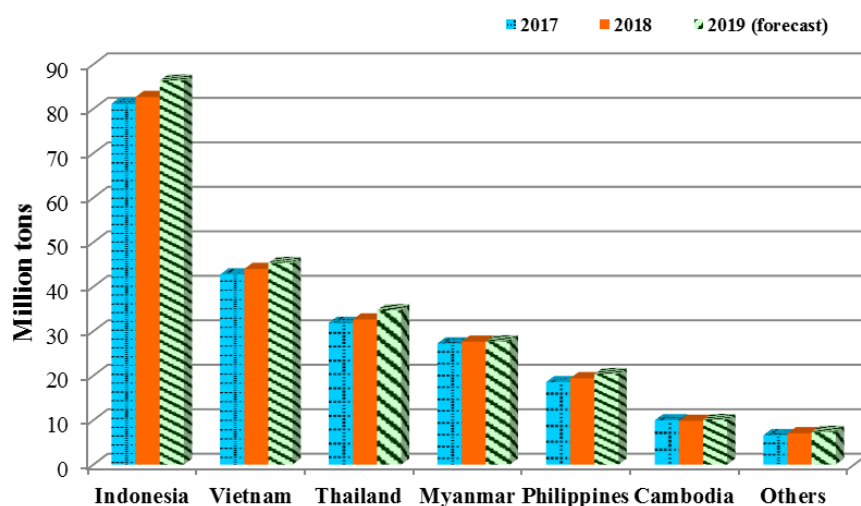


Figure 1 Paddy production of selected countries in ASEAN, 2017 - 2019

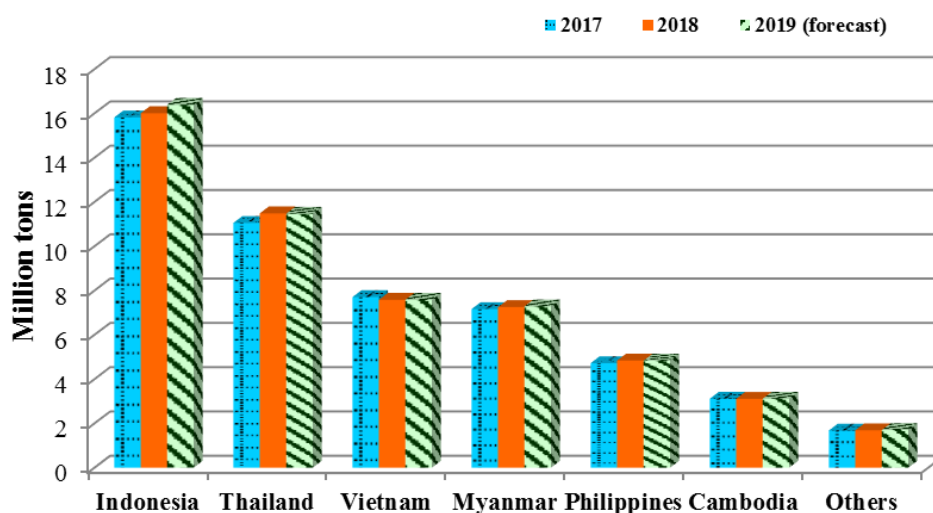


Figure 2 Paddy planted area of selected countries in ASEAN, 2017 - 2019

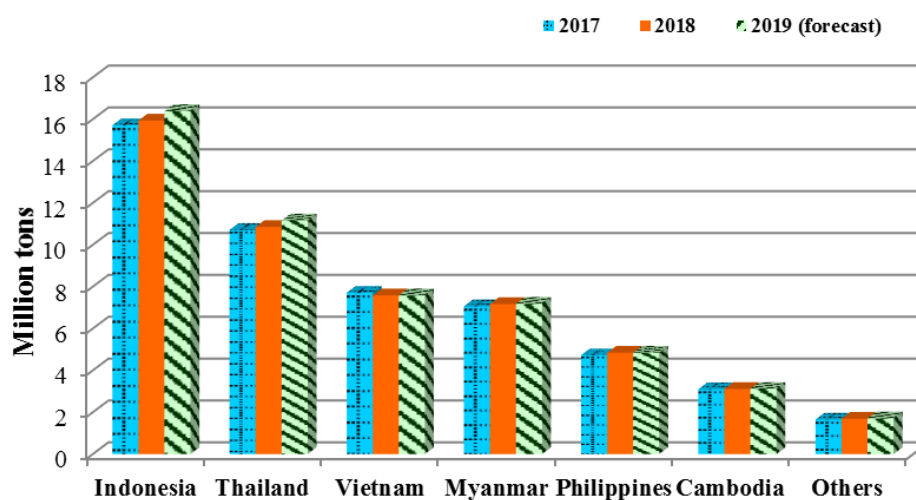


Figure 3 Paddy harvested area of selected countries in ASEAN, 2017 - 2019

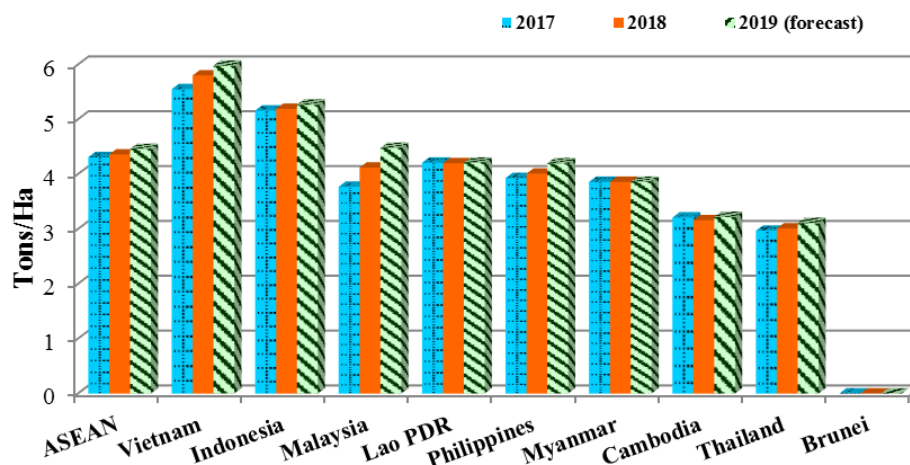


Figure 4 Paddy yield of countries in ASEAN, 2017 - 2019

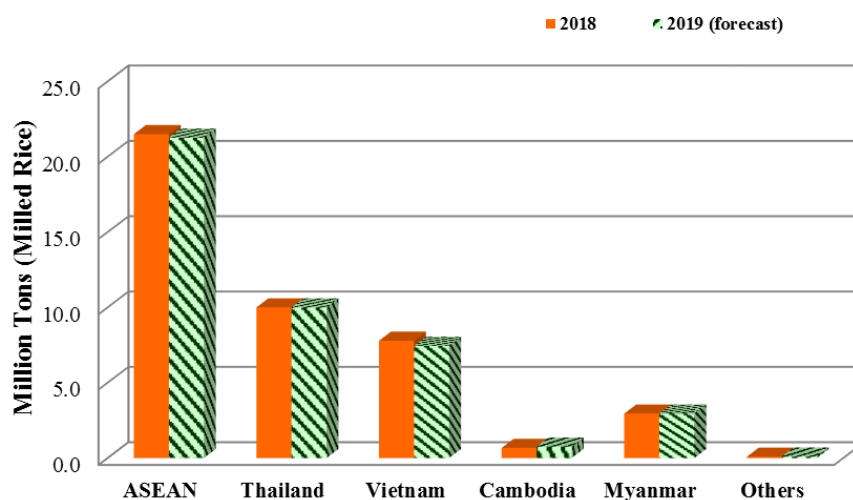
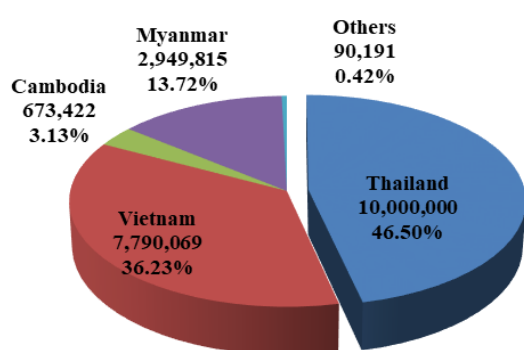
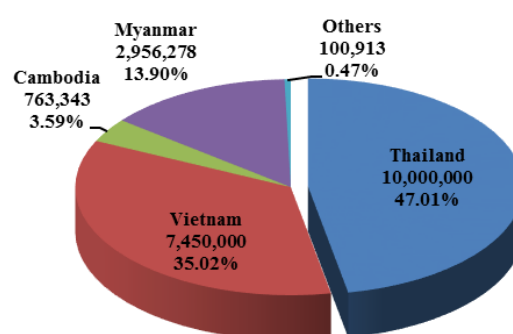


Figure 5 Amount of rice export (million tons) of selected countries in ASEAN in 2018 - 2019



Total 21.50 million tons
Figure 6 Share of rice export (tons) among ASEAN countries, 2018



Total 21.27 million tons
Figure 7 Share of rice export (tons) among ASEAN countries, 2019

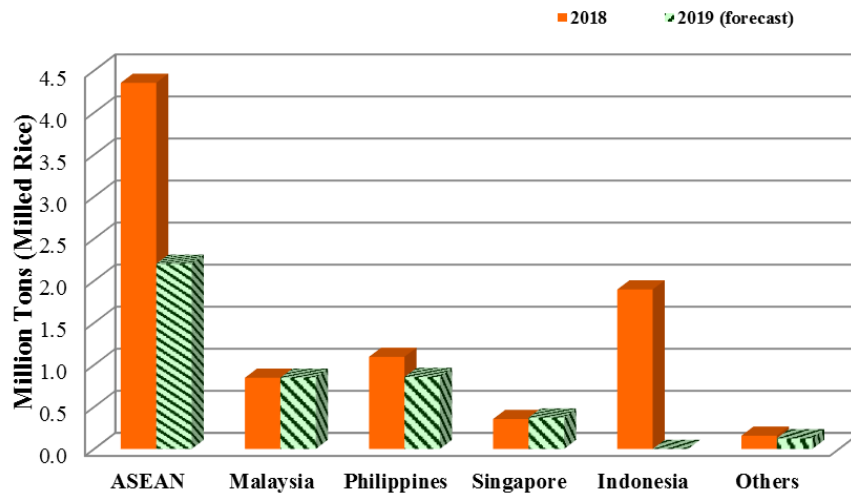
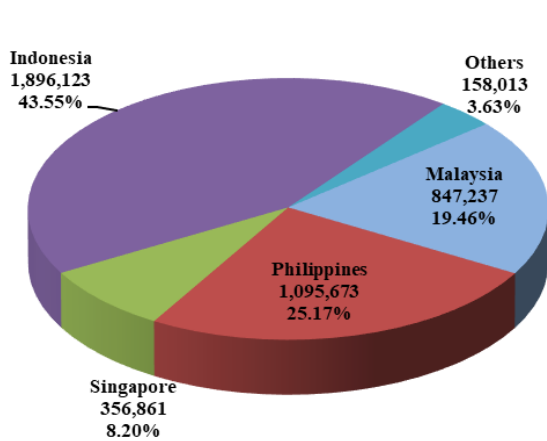
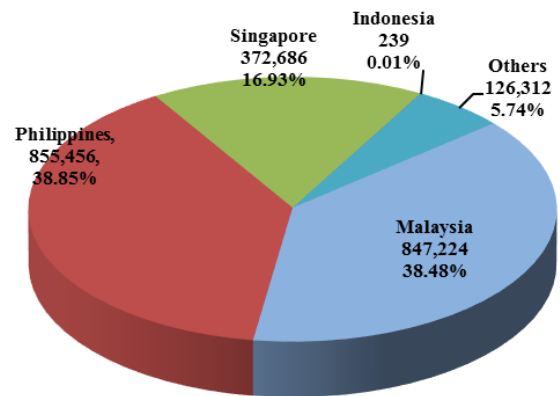


Figure 8 Amount of rice import (million tons) by selected countries in ASEAN in 2018 - 2019



Total 4.35 million tons

Figure 9 Share of rice import (tons) among ASEAN countries, 2018



Total 4.10 million tons

Figure 10 Share of rice import (tons) among ASEAN countries, 2019

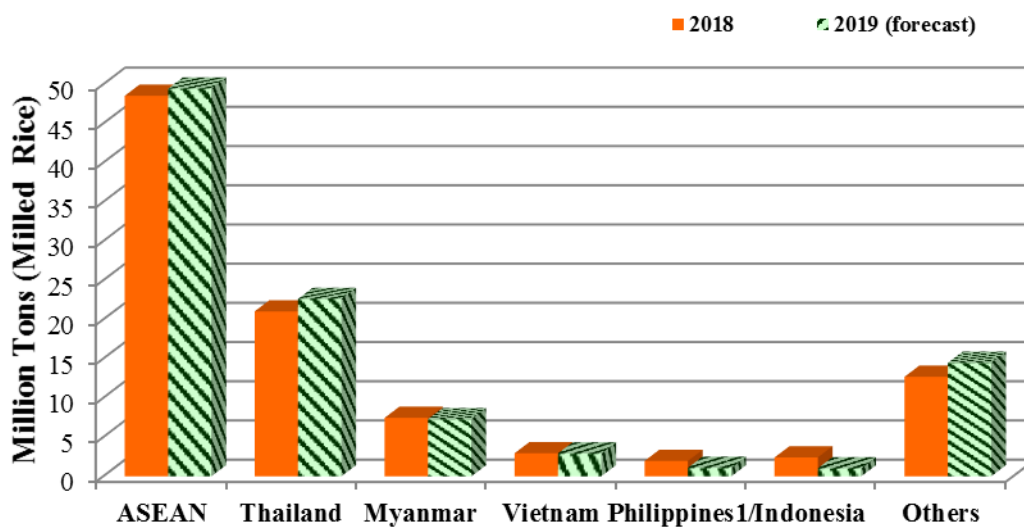


Figure 11 Amount of ending stock of rice in ASEAN countries, 2018 - 2019



Figure 12 Ratio of rice production to domestic utilization in ASEAN countries, 2017 - 2019

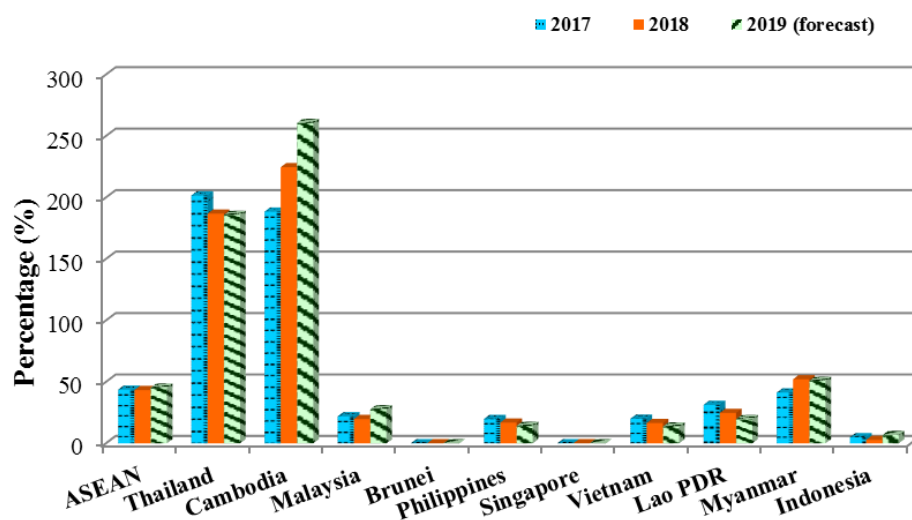


Figure 13 Ratio of rice beginning stock to domestic utilization in ASEAN countries, 2017 - 2019

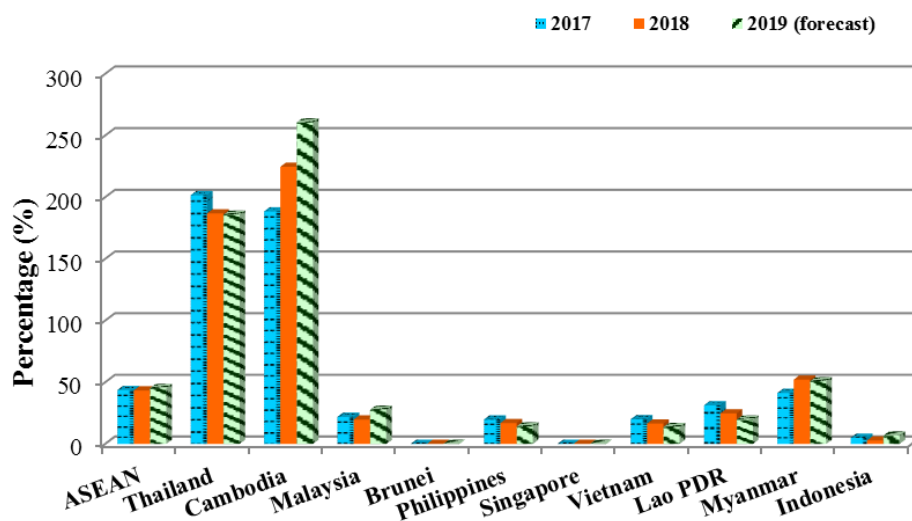


Figure 14 FOB price (US\$/Ton) of milled rice of selected countries in ASEAN in 2017 - 2018

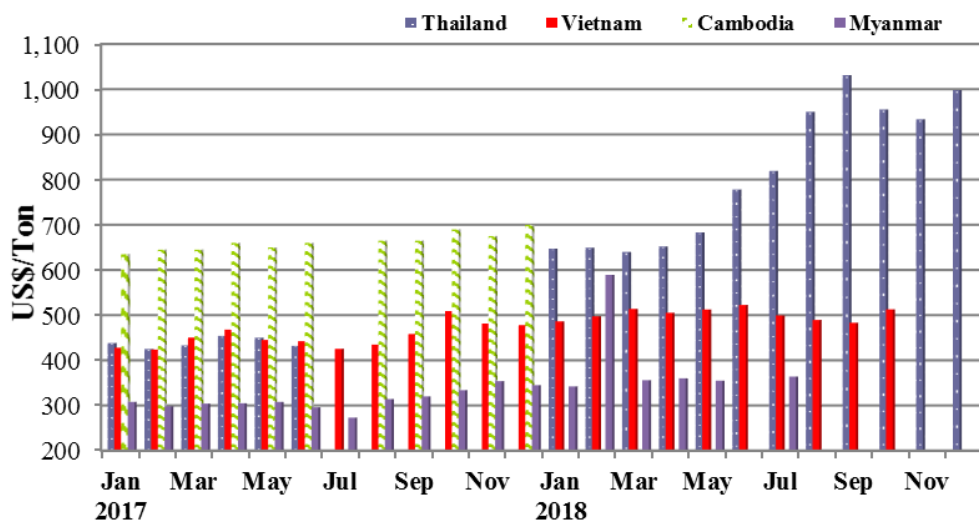


Figure 15 FOB price (US\$/Ton) of milled rice of selected countries in ASEAN in 2017 - 2018

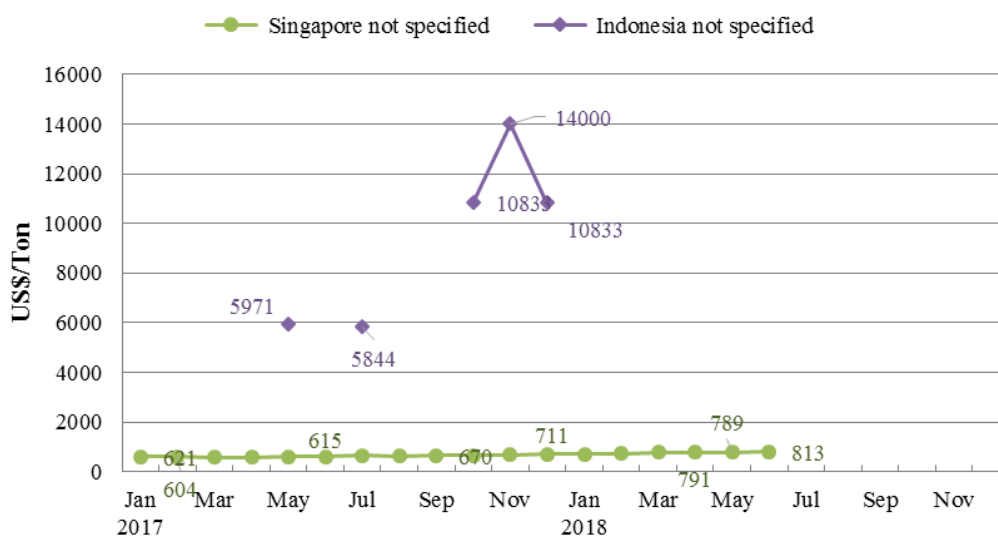


Figure 16 CIF price (US\$/Ton) of milled rice of selected countries in ASEAN in 2017 – 2018

Highlights of Maize Outlook for 2019

- An increase in the beginning stock is the main reason for increasing in ASEAN maize supply forecast, the increasing expected to be 14.69 percent or 14.29 million tons from 97.26 million tons in 2018 to 111.55 million tons in 2019. (Table 16)
- Maize production is forecasted to be about the same as the last year, import is expected to be decrease about 1 percent or 0.09 million tons from 16.46 million tons in 2018 to 16.36 million tons in 2019.
- Maize demand in 2019 is expected to be increase about 15 percent. Domestic utilization increases 2.23 million tons, from 51.48 million tons in 2018 to 53.71 million tons in 2019. The ending stock of maize is also expected to be increase about 27 percent, from 43.42 million tons in 2018 to 55.35 million tons in 2019.
- Maize export is expected to be increase about 5.17 percent, from 2.36 million tons in 2018 to 2.48 million tons in 2019.
- The ratio of production to domestic utilization ratio (self-sufficiency ratio) for the region is expected to be decrease 4.18 percent from 100.56 percent in 2017 to 96.38 percent in 2019.
- The beginning stock to domestic utilization ratio (food security ratio) in 2019 is forecasted to increase 24.43 percent from 56.40 percent in 2018 to 80.83 percent in 2019, which indicated that the food (feed) security situation is improving.

Table 16 Summary of the ASEAN maize situation, 2018 - 2019

Items	2018	2019	Unit: Million tons	
			Change	
			Quantity	%
Supply (Million tons)	97.26	111.55	14.29	14.69
Beginning stock	29.03	43.42	14.39	49.55
Production	51.77	51.77	0.00	0.00
Import	16.46	16.36	-0.09	-0.58
Demand (Million tons)	97.26	111.55	14.29	14.69
Domestic utilization	51.48	53.71	2.23	4.34
Export	2.36	2.48	0.12	5.17
Ending stock	43.42	55.35	11.93	27.48
Ratio of production to domestic utilization (%)	100.56	96.38	-4.18	-
Ratio of beginning stock to domestic utilization (%)	56.40	80.83	24.43	-

ASEAN Maize Situation in 2018

Production

ASEAN maize production in 2018 (crop year 2017/18) was estimated at 51.77 million tons, the increase of 1.30 million tons which is 2.58 percent from 50.47 million tons in 2017 (crop year 2016/17). The increase was due to the increase in planted area, and yield. The increase in production was found in Indonesia, Myanmar, and Thailand. (Table 17-20, Figure 17-20)

For **Indonesia**, the increase in production attributed to the increase in planted area and yield. The increase mainly caused by the favorable weather.

For **Lao PDR**, the decrease in production attributed to the decrease in planted area. The main reason caused by unfavorable weather

For **Myanmar**, the increase in production attributed to the increase in planted area and yield. The planted area increase cause by the price of maize was increase, and farmer use more fertilizer, hence the increase in yield.

For **the Philippines**, the decrease in production attributed to the decrease in planted area, which affected by the unfavorable weather.

For **Thailand**, the increase in production attributed to the increase in planted area and yield which affected by the favorable weather.

For **Vietnam**, the decrease in production attributed to the decrease in planted area, which cause by the unfavorable weather.

Utilization and Stock

Maize utilization in ASEAN in 2018 was estimated at 51.48 million tons, a decrease of 2.67 million tons or 4.94 percent compared to 54.15 million tons in 2017 (Table 22-23). Most of the maize production in ASEAN is used for animal feed. The decrease in domestic utilization of maize has occurred in Indonesia and Singapore.

The beginning stock of maize in ASEAN in 2018 was estimated at 29.03 million tons, an increase of 8.87 million tons from 20.17 million tons in year 2017. The ratio of maize production to domestic utilization for the whole ASEAN in 2018 was estimated at 100.56 percent compared to 93.20 percent in year 2017. This indicated that ASEAN by itself has improve maize production sufficient for regional consumption (Table 25, Figure 28). On the country basis, Cambodia, Indonesia, and Lao PDR have the ratio above 100 percent. While the rest have the ratio less than 100 percent.

The ratio of beginning stock to the domestic utilization for the ASEAN year 2018 was estimated to be 56.40 percent, indicated that the region is secured enough in terms of feed requirement (Table 26, Figure 29). Cambodia, Indonesia, Lao PDR, and Myanmar have the ratio above 20 percent which, in general, is considered as the optimum level for food/feed security.

Trade

The maize exported from ASEAN in 2018 is forecasted to be 2.36 million tons compared to 16.46 million tons of maize imported. Myanmar is the major maize exporter in the region and followed by Thailand, and Indonesia respectively. In 2018, Myanmar, the biggest exporter in ASEAN, is expected to export 1.44 million tons or about 60.90 percent of the total maize export from the ASEAN.

The major importing countries in the region are Vietnam, Thailand, Myanmar, and Indonesia (Table 23, Figure 21, 22, 24 and 25). The quantity and value of maize exported by countries of destination and the quantity and value of imported by countries of origin are given in Table 27 – 28.

Prices

The monthly FOB prices for maize exporting countries and CIF prices for importing countries of 2017 and 2018 are shown in Table 29 – 30 and Figure 30 – 31. The annual average of Indonesia FOB prices in 2018 (January – June) was 280 US\$/ton, decrease from 301 US\$/ton in 2017. For Myanmar and Thailand average FOB price of 2017 were 222 and 333 US\$/ton, respectively. The average CIF prices in Indonesia, Singapore and Vietnam were 282, 248, and 207 respectively.

Damaged Area

The damaged area of maize in 2018 was reported to be 13,610 hectares of which 5,581 hectares caused by the flood and 6,750 hectares caused by the drought. The most affected area caused by the flood was occurred in Myanmar while the most affected area by drought was found in Thailand (Table 21).

Prospects for Maize in 2019

Production

Maize production in ASEAN in 2019 (crop year 2018/19) was estimated at 51.77 million tons. The decrease has occurred in Indonesia, Myanmar, the Philippines, and Vietnam. The most decrease in term of quantity was found in Myanmar approximately 0.22 million tons (11.47 percent)

Indonesia, the biggest maize producer in ASEAN, is expected to decrease in planted area.

Lao PDR, the increase in production is forecasted due to increasing in planted area.

For **Myanmar**, the maize production is projected to decrease which come from the decrease in yield.

The Philippines is forecasted to decrease its production due to decreasing in yield.

For **Thailand**, the increase in production due to the increase in planted area and yield as a result of farmer respond to price increase. The slight increase in yield is forecasted because farmers will take care of their crop better in respond to the expectation that the price of maize will continue to increase, favorable weather is expected and the more improved variety were used. (Table 17-20, Figure 17-20)

In **Vietnam**, the decrease in production is forecasted because yield were expected to be decreased.

Utilization and Stock

The domestic utilization of maize in ASEAN is forecasted to be 53.71 million tons in 2019, an increase of 2.24 million tons from 51.48 million tons in 2018 (Table 23-24). The estimate of the beginning stock for the year 2019 is about 43.42 million tons, an increase of 14.39 million tons from 29.03 million tons in 2018.

In 2019 the ratio of production to domestic utilization is expected to be 96.38 percent, a decrease of 4.18 percent from 100.56 percent in year 2018 (Table 25, Figure 28). The ratio of beginning stock to domestic utilization ratio is expected to be 80.83 percent, which increases from 56.40 percent in 2018 (Table 26, Figure 29).

Trade

The maize export from ASEAN is projected to be 2.48 million tons in 2019, an increase of 0.12 million tons compared to 2.36 million tons in 2018. For the import by the ASEAN, it is forecasted to be 16.36 million tons in 2019, decrease from 16.46 million tons in 2018. (Table 23-24, Figure 21, 23, 24 and 26)

Table 17 Maize production in ASEAN countries, 2017 - 2019

Unit: 1,000 Tons

Country	2017 (2016/17)	2018 (2017/18)	Change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	50,467.85	51,767.66	1,299.80	2.58	51,766.73	-0.93	0.00
Brunei	N/A						
Cambodia ^{1/}	662.78	634.48	-28.30	-4.27	878.88	244.40	38.52
Indonesia	28,924.01	30,043.22	1,119.21	3.87	30,009.36	-33.85	-0.11
Lao PDR	1,252.14	1,235.00	-17.14	-1.37	1,240.00	5.00	0.40
Malaysia	N/A						
Myanmar	1,830.96	1,909.64	78.68	4.30	1,690.55	-219.09	-11.47
Philippines	8,086.98	7,979.67	-107.32	-1.33	7,943.09	-36.57	-0.46
Singapore	N/A						
Thailand	4,601.22	4,983.32	382.10	8.30	5,149.65	166.33	3.34
Vietnam	5,109.77	4,982.33	-127.43	-2.49	4,855.19	-127.15	-2.55

Table 18 Maize planted area in ASEAN countries, 2017 - 2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	Change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	11,216.79	11,277.91	61.12	0.54	11,296.62	18.71	0.17
Brunei	N/A						
Cambodia ^{1/}	144.52	133.20	-11.32	-7.83	154.26	21.06	15.81
Indonesia	5,544.22	5,741.42	197.20	3.56	5,706.29	-35.14	-0.61
Lao PDR	225.20	200.40	-24.80	-11.01	205.00	4.60	2.30
Malaysia	N/A						
Myanmar	490.17	504.47	14.30	2.92	515.68	11.21	2.22
Philippines	2,681.12	2,570.04	-111.08	-4.14	2,582.58	12.55	0.49
Singapore	N/A						
Thailand	1,032.28	1,071.47	39.19	3.80	1,075.90	4.43	0.41
Vietnam	1,099.27	1,056.91	-42.37	-3.85	1,056.91	0.00	0.00

Table 19 Maize harvested area in ASEAN countries, 2017 - 2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	Change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	11,193.82	11,264.30	70.48	0.63	11,280.45	16.15	0.14
Brunei	N/A						
Cambodia	141.44	133.20	-8.24	-5.83	154.26	21.06	15.81
Indonesia	5,533.17	5,737.70	204.53	3.70	5,706.29	-31.42	-0.55
Lao PDR	225.20	200.40	-24.80	-11.01	205.00	4.60	2.30
Malaysia	N/A						
Myanmar	488.11	500.62	12.52	2.56	514.57	13.95	2.79
Philippines	2,681.12	2,570.04	-111.08	-4.14	2,582.58	12.55	0.49
Singapore	N/A						
Thailand	1,025.51	1,065.43	39.92	3.89	1,060.84	-4.59	-0.43
Vietnam	1,099.27	1,056.91	-42.37	-3.85	1,056.91	0.00	0.00

Table 20 Maize Yield in ASEAN countries, 2017 - 2019

Unit: Ton/Hectare

Country	2017 (2016/17)	2018 (2017/18)	Change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	4.51	4.60	0.09	2.00	4.59	-0.01	-0.22
Brunei	N/A						
Cambodia ^{1/}	4.69	4.76	0.07	1.49	5.70	0.94	19.75
Indonesia	5.23	5.24	0.01	0.19	5.26	0.02	0.38
Lao PDR	5.56	6.16	0.60	10.79	6.05	-0.11	-1.79
Malaysia	N/A						
Myanmar	3.75	3.81	0.06	1.60	3.29	-0.52	-13.65
Philippines	3.02	3.10	0.08	2.65	3.08	-0.02	-0.65
Singapore	N/A						
Thailand	4.49	4.68	0.19	4.23	4.85	0.17	3.63
Vietnam	4.65	4.71	0.06	1.29	4.59	-0.12	-2.55

Table 21 Maize damaged area in ASEAN by cause of damage, 2018

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Unspecified	Others	Total
ASEAN	5,581	6,750	733	544	-	1	13,610
Brunei	N/A						
Cambodia							0
Indonesia	1,738	1,913	68				3,719
Lao PDR	N/A						
Malaysia	N/A						
Myanmar	3,843					1	3,844
Philippines	N/A						
Singapore	N/A						
Thailand		4,838	665	544			6,047
Vietnam	N/A						

Table 22 Maize balance sheet of ASEAN countries, 2017

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	20,165,388	50,467,853	14,664,875	85,298,117	54,151,260	2,113,293	29,033,565	85,298,117
Brunei	N/A							
Cambodia	341,769	662,776	-	1,004,545	268,914	74,899	660,732	1,004,545
Indonesia	16,179,788	28,924,009	517,496	45,621,293	21,812,464	1,879	23,806,951	45,621,293
Lao PDR	441,230	1,252,140	1,289	1,694,659	928,779	298,939	466,941	1,694,659
Malaysia	N/A							
Myanmar	1,199,879	1,830,962	1,953,224	4,984,065	1,912,962	1,293,178	1,777,925	4,984,065
Philippines	382,000	8,086,983	498,849	8,967,832	7,821,000	373	1,146,460	8,967,832
Singapore	-	-	37,571	37,571	36,218	1,353	-	37,571
Thailand	530,356	4,601,217	3,930,000	9,061,573	8,100,000	320,523	641,050	9,061,573
Vietnam	1,090,366	5,109,766	7,726,446	13,926,578	13,270,923	122,150	533,505	13,926,578

Note: ^{1/} The value is estimated by AFSIS. N/A refer to data is not available.**Table 23 Maize balance sheet of ASEAN countries, 2018**

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	29,033,565	51,767,658	16,455,020	97,256,242	51,477,172	2,360,254	43,418,816	97,256,242
Brunei	N/A							
Cambodia	660,732	634,480	-	1,295,212	306,560	99,206	889,446	1,295,212
Indonesia	23,806,951	30,043,218	630,097	54,480,266	17,637,077	268,496	36,574,693	54,480,266
Lao PDR	466,941	1,235,000	1,145	1,703,087	930,005	97,306	675,776	1,703,087
Malaysia ^{1/}	N/A							
Myanmar	1,777,925	1,909,641	1,535,523	5,223,089	2,004,562	1,437,483	1,781,044	5,223,089
Philippines ^{1/}	1,146,460	7,979,667	590,565	9,716,692	8,389,835	241	1,326,616	9,716,692
Singapore ^{1/}	-	-	33,694	33,694	32,481	1,213	-	33,694
Thailand	641,050	4,983,320	4,261,309	9,885,679	8,250,000	300,000	1,335,679	9,885,679
Vietnam	533,505	4,982,331	9,402,686	14,918,522	13,926,652	156,308	835,562	14,918,522

Note: ^{1/} The value is estimated by AFSIS. N/A refer to data is not available.**Table 24 Maize balance sheet of ASEAN countries, 2019**

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	43,418,816	51,766,731	16,359,602	111,545,149	53,713,247	2,481,715	55,350,187	111,545,149
Brunei	-							
Cambodia	889,446	878,884	-	1,768,330	285,488	90,602	1,392,240	1,768,330
Indonesia	36,574,693	30,009,363	630,097	67,214,153	20,097,190	268,496	46,848,467	67,214,153
Lao PDR	675,776	1,240,000	1,023	1,916,799	931,232	292,489	693,078	1,916,799
Malaysia ^{1/}	-	-	-	-	-	-	-	-
Myanmar	1,781,044	1,690,551	1,359,355	4,830,950	1,854,064	1,329,560	1,647,327	4,830,950
Philippines ^{1/}	1,326,616	7,943,094	494,178	9,763,888	8,347,014	210	1,416,663	9,763,888
Singapore ^{1/}	-	-	55,292	55,292	54,949	342	0	55,292
Thailand	1,335,679	5,149,654	4,620,548	11,105,881	8,300,000	300,000	2,505,881	11,105,881
Vietnam	835,562	4,855,185	9,199,109	14,889,856	13,843,310	200,016	846,530	14,889,856

Note: ^{1/} The value is estimated by AFSIS. N/A refer to data is not available.

Table 25 Ratio of maize production to domestic utilization in ASEAN countries (Self-sufficiency ratio), 2017 - 2019

Unit: Tons

Country	2017			2018			2019		
	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)
ASEAN	50,467,853	54,151,260	93.20	51,767,658	51,477,172	100.56	51,766,731	53,713,247	96.38
Brunei	N/A								
Cambodia	662,776	268,914	246.46	634,480	306,560	206.97	878,884	285,488	307.85
Indonesia	28,924,009	21,812,464	132.60	30,043,218	17,637,077	170.34	30,009,363	20,097,190	149.32
Lao PDR	1,252,140	928,779	134.82	1,235,000	930,005	132.79	1,240,000	931,232	133.16
Malaysia	N/A								
Myanmar	1,830,962	1,912,962	95.71	1,909,641	2,004,562	95.26	1,690,551	1,854,064	91.18
Philippines	8,086,983	7,821,000	103.40	7,979,667	8,389,835	95.11	7,943,094	8,347,014	95.16
Singapore	-	36,218	0.00	-	32,481	0.00	-	54,949	0.00
Thailand	4,601,217	8,100,000	56.81	4,983,320	8,250,000	60.40	5,149,654	8,300,000	62.04
Vietnam	5,109,766	13,270,923	38.50	4,982,331	13,926,652	35.78	4,855,185	13,843,310	35.07

Note: N/A refer to data is not available.

Table 26 Ratio of maize beginning stock to domestic utilization in ASEAN countries (Food security ratio), 2017 - 2019

Unit: Tons

Country	2017			2018			2019		
	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)
ASEAN	20,165,388	54,151,260	37.24	29,033,565	51,477,172	56.40	43,418,816	53,713,247	80.83
Brunei	N/A								
Cambodia	341,769	268,914	127.09	660,732	306,560	215.53	889,446	285,488	311.55
Indonesia	16,179,788	21,812,464	74.18	23,806,951	17,637,077	134.98	36,574,693	20,097,190	181.99
Lao PDR	441,230	928,779	47.51	466,941	930,005	50.21	675,776	931,232	72.57
Malaysia	N/A-								
Myanmar	1,199,879	1,912,962	62.72	1,777,925	2,004,562	88.69	1,781,044	1,854,064	96.06
Philippines	382,000	7,821,000	4.88	1,146,460	8,389,835	13.66	1,326,616	8,347,014	15.89
Singapore	-	36,218	-	-	32,481	-	-	54,949	-
Thailand	530,356	8,100,000	6.55	641,050	8,250,000	7.77	1,335,679	8,300,000	16.09
Vietnam	1,090,366	13,270,923	8.22	533,505	13,926,652	3.83	835,562	13,843,310	6.04

Note: N/A refer to data is not available.

Table 27 Quantity and Value of Maize Export by Countries of Destination in 2018

Quantity: Tons Values: US\$

Exporting Country	Country of Destination													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/A													
Cambodia	N/A													
Indonesia									4,338	1,485,542			290,594	78,604,338
Lao PDR														
Malaysia		287,418				16,981								
Myanmar									3,284	541,343			13,491	3,083,820
Philippines														
Singapore	15	24	0	1	91	88			22	28	0			
Thailand					190	53,488	9	3,378			81	11,333	16,200	3,920,335
Vietnam			45,982	663,454			4,022	8,559,777					51,892	5,000

Exporting Country	Country of Destination						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/A											
Cambodia	N/A											
Indonesia	345	239,204	0	161	1,159	409,234	296,436	80,738,479	6,084	1,263,803	302,520	82,002,282
Lao PDR			38,623	5,094,350	22,683	3,963,555	61,306	9,057,905	36,000	6,924,349	97,306	15,982,254
Malaysia		2,145,618		11,458		3,517	0	2,464,992		27,291	0	2,492,283
Myanmar	2,097	390,010	1,471	290,000	28,262	5,198,282	48,605	9,503,455	1,388,878	284,958,655	1,437,483	294,462,110
Philippines					209	809,055	209	809,055	36	88,754	245	897,809
Singapore					0		129	141	2	6	130	147
Thailand							16,480	3,988,534	392	123,389	16,872	4,111,923
Vietnam			30	16,808,093			101,926	26,036,325	15,071	2,486,082	116,997	28,522,408

Remark: The data in this table is obtained from national focal points of member states and may not complete.

Table 28 Quantity and Value of Maize Import by Countries of Origin in 2018

Quantity: Tons Values: US\$

Importing Country	Country of Origin													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/A													
Cambodia	N/A													
Indonesia									640	1,188,569			6	14,130
Lao PDR														
Malaysia						86,726								181
Myanmar					0	94			244	43,250				
Philippines					160,600	48,158,995			0	2,743	12,458	3,384,282		
Singapore					315	220,249			23,797	5,415,970	253	70,408	0	1
Thailand			18,717	3,844,757			53,552	7,208,857						
Vietnam			950	228,000			245	46,450						

Importing Country	Country of Origin						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei	N/A											
Cambodia	N/A											
Indonesia	534	906,222	241	507,907			1,420	2,616,828	543,904	147,960,134	545,325	150,576,962
Lao PDR			970	279,635	9	1,700	979	281,335	167	50,190	1,145	331,525
Malaysia		644		414,456			0	502,007		414,753,865	0	415,255,872
Myanmar	2	1,588	290,996	4,094,714			291,243	4,139,645	1,244,280	13,339,879	1,535,523	17,479,525
Philippines			80,763	22,512,758	1,134	3,442,934	254,955	77,501,712	220,432	51,819,204	475,387	129,320,916
Singapore			32	48,861			24,398	5,755,489	2,276	864,371	26,674	6,619,860
Thailand							72,270	11,053,614			72,270	11,053,614
Vietnam			5,538	12,744,860			6,733	13,019,310	4,765,113	957,319,073	4,771,846	970,338,383

Remark: The data in this table is obtained from national focal points of member states and may not complete.

Table 29 FOB Price of maize (feed grain) in selected ASEAN countries

Unit: US\$/Ton

Country		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Indonesia		2016	307	443	321	311	278	215	301	371	319	500	424	619	367
		2017	372	328	305	313	306	277	288	293	250	286	292	300	301
		2018	310	289	267	263	268	278							280
Malaysia	Corn (Maize)	2017	249	260	248	278	266	273	229	239	231	215	203	213	242
	Groats And Meal Of Corn (Maize)	2017	680				674				814		804	721	739
Myanmar		2017	173	169	169	175	184	190	198	217	226	207	207	206	193
		2018	209	222	227	226	226	223							222
Thailand		2017	234	237	238	241	241	254	268	259	253	250	263	292	253
		2018	312	320	341	351	340	335							333

Table 30 CIF Price of maize (feed grain) in selected ASEAN countries

Unit: US\$/Ton

Country		Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Indonesia		2016	215	223	221	225	253	312	270	236	270	292	367	219	259
		2017	337	232	243	370	265	247	242	278	231	239	230	275	266
		2018	246	237	235	382	292	274							282
Malaysia	Corn (Maize)	2017	231	226	227	215	210	211	206	201	198	190	190	185	208
	Groats And Meal Of Corn (Maize)	2017	626	635	642	369	294	370	246	620	252	631	230	266	432
Singapore		2017	244	235	248	255	248	264	223	232	223	223	225	223	237
		2018	239	250	225	244	267	261							248
Vietnam		2017	196	198	217	205	197	195	193	191	187	187	189	189	195
		2018	187	194	199	202	205	219							207

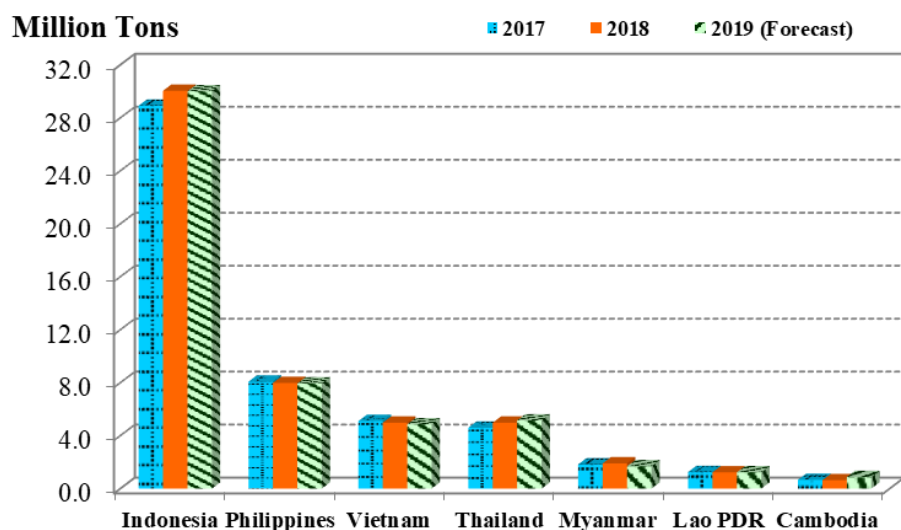


Figure 17 Maize production of selected countries in ASEAN, 2017 - 2019

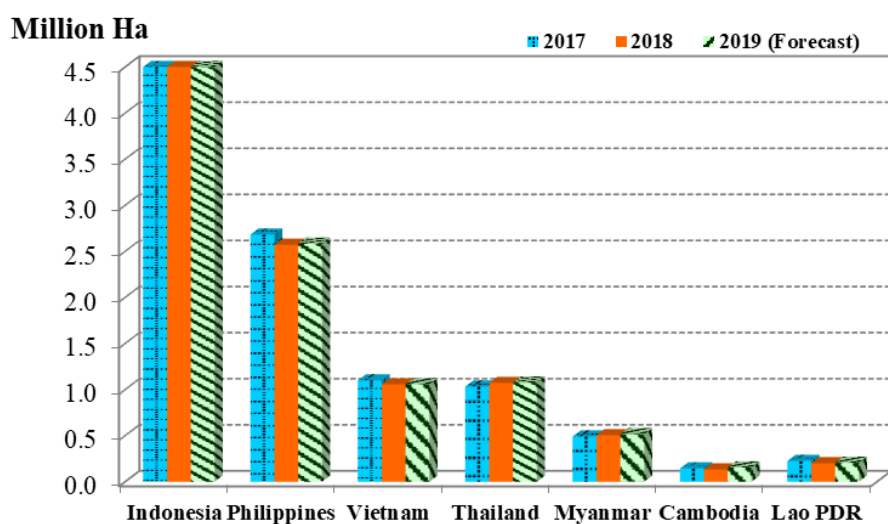


Figure 18 Maize planted area of selected countries in ASEAN, 2017 - 2019

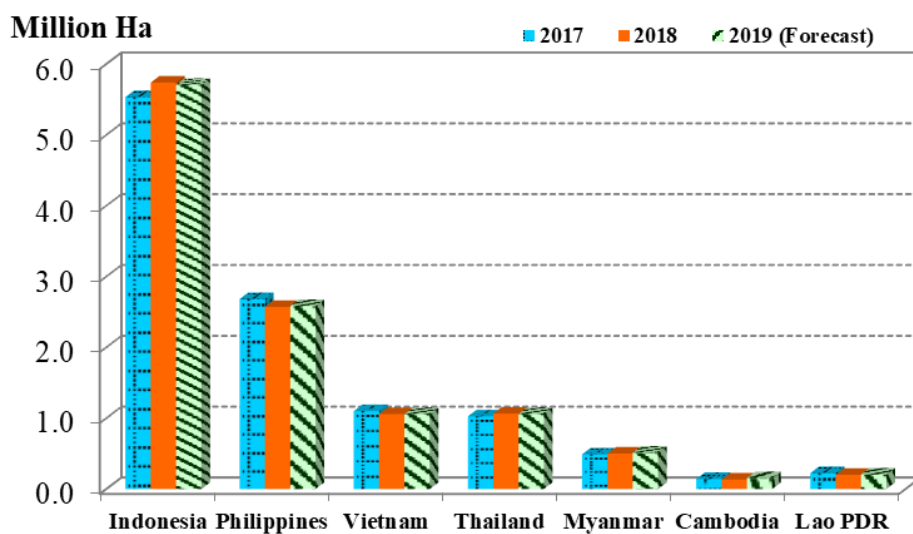


Figure 19 Maize harvested area of selected countries in ASEAN, 2017 - 2019

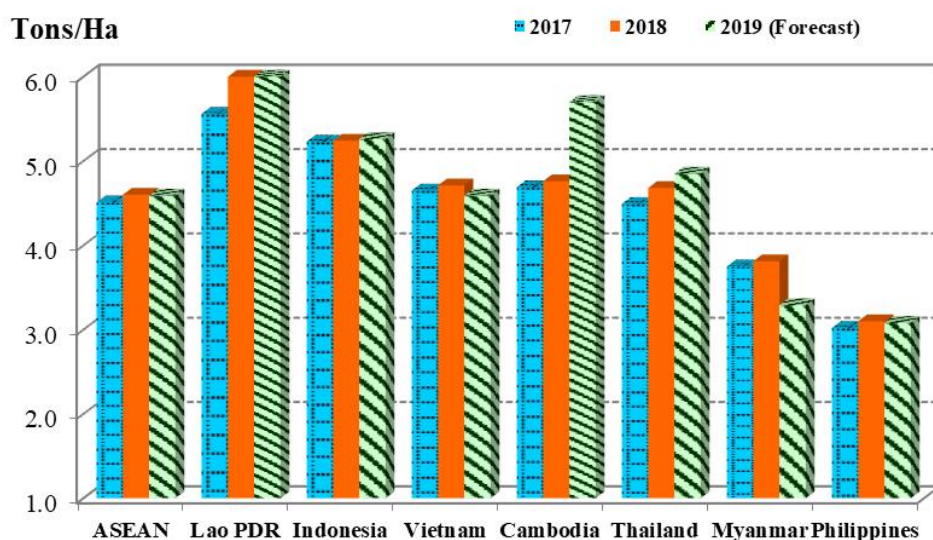


Figure 20 Maize yield of countries in ASEAN, 2017 - 2019

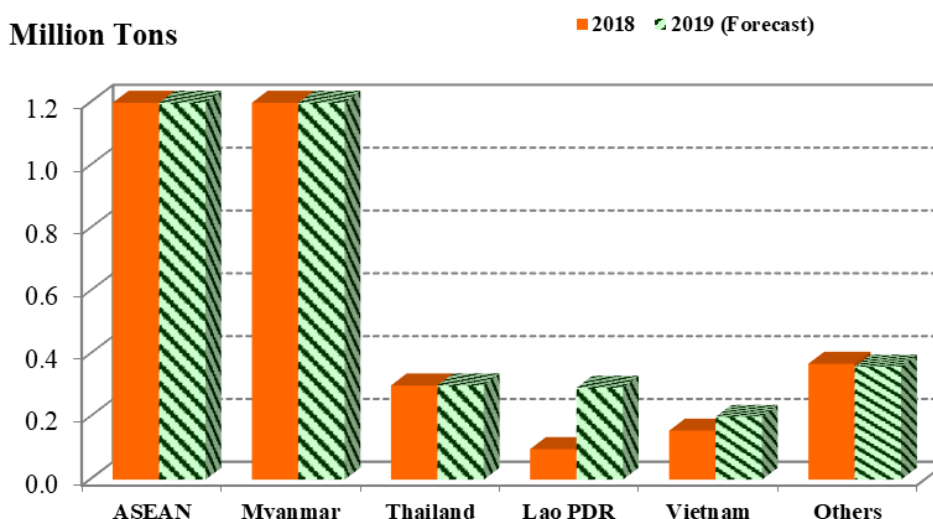
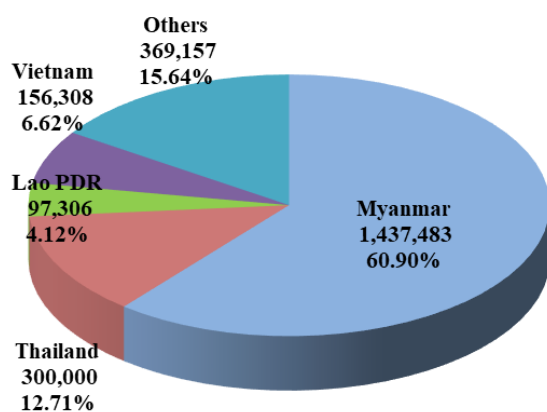
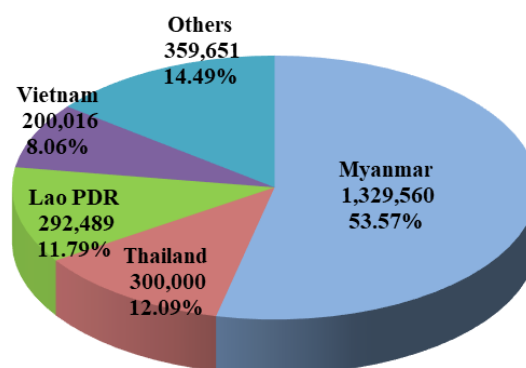


Figure 21 Amount of maize export (million tons) of selected countries in ASEAN in 2017 – 2019



Total 2.36 million tons

Figure 22 Share of maize export (ton) among ASEAN countries, 2018



Total 2.48 million tons

Figure 23 Share of maize export (ton) among ASEAN countries, 2019

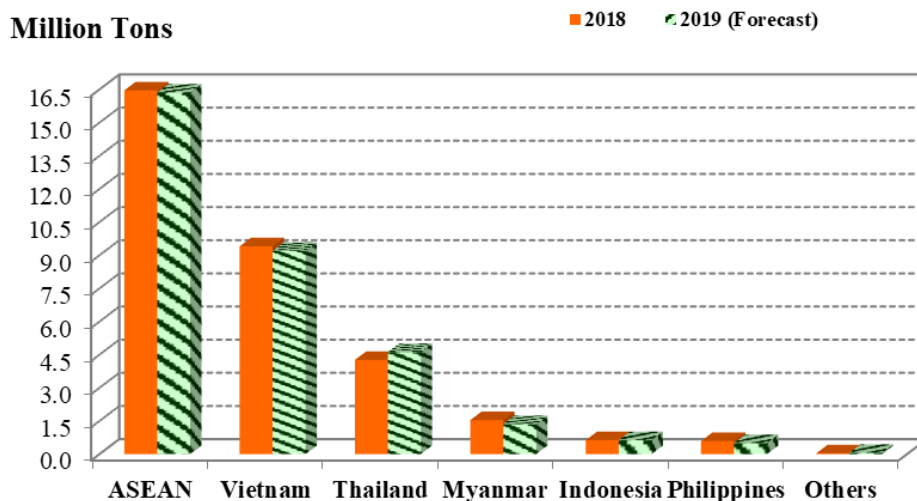
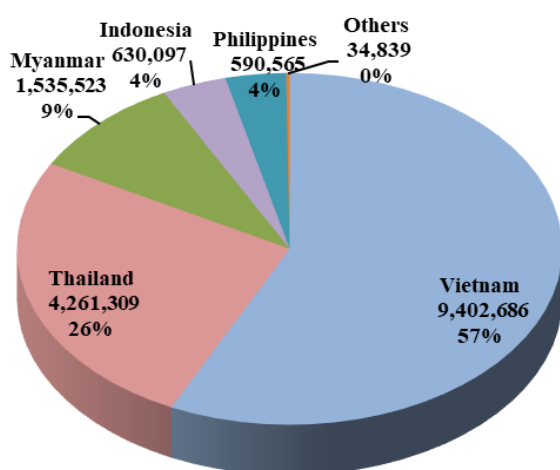
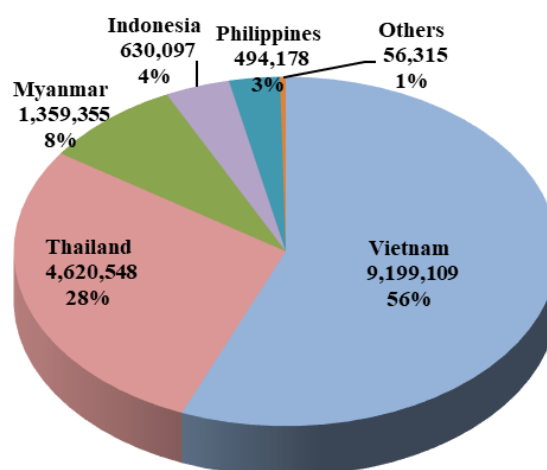


Figure 24 Amount of maize import (million tons) by selected countries in ASEAN in 2018 - 2019



Total 16.46 million tons
Figure 25 Share of maize import (tons) among ASEAN countries, 2018



Total 16.36 million tons
Figure 26 Share of maize import (tons) among ASEAN countries, 2019

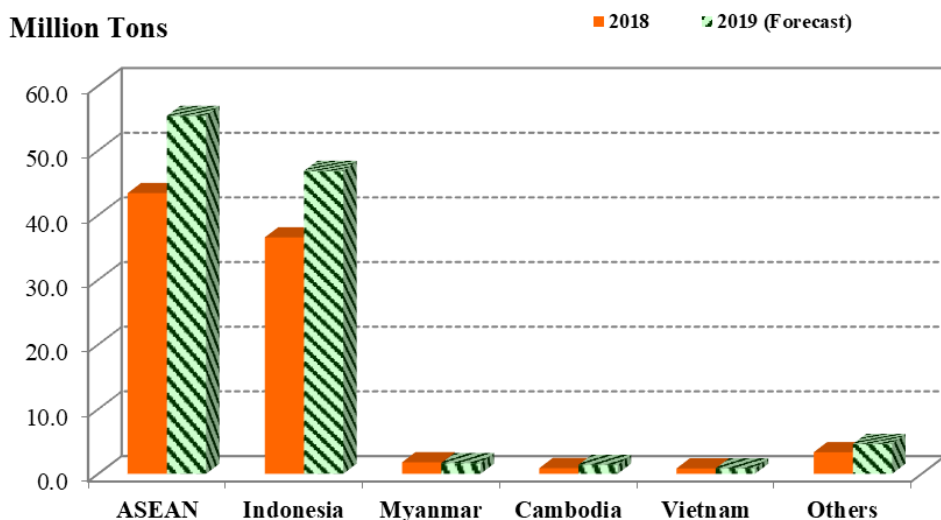


Figure 27 Amount of ending stock of maize in ASEAN countries in 2018 - 2019

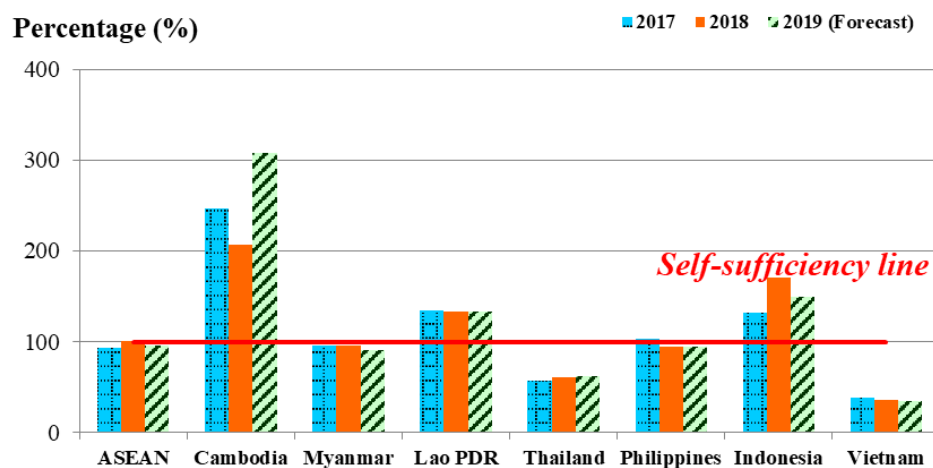


Figure 28 Ratio of maize production to domestic utilization in ASEAN countries, 2017 - 2019

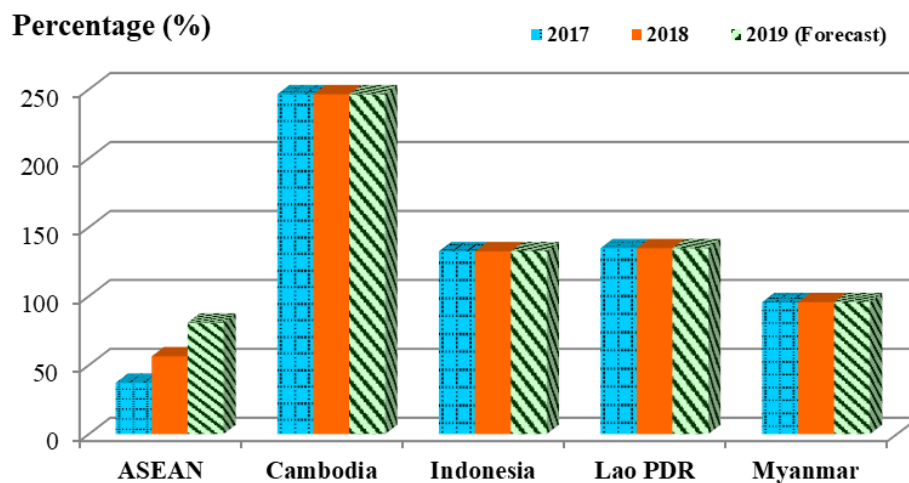


Figure 29 Ratio of maize beginning stock to domestic utilization in ASEAN countries, 2017 - 2019

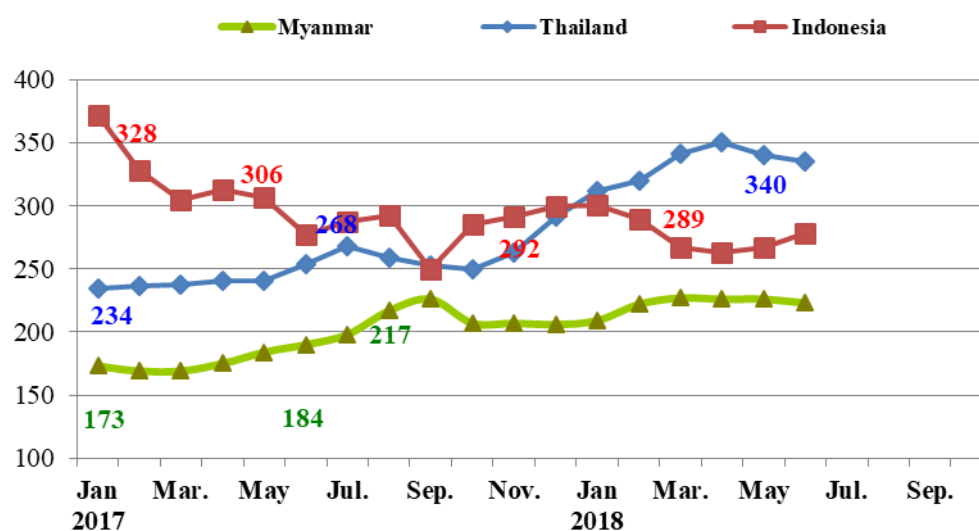


Figure 30 FOB price (US\$/Ton) of maize of selected countries in ASEAN in 2017 - 2018

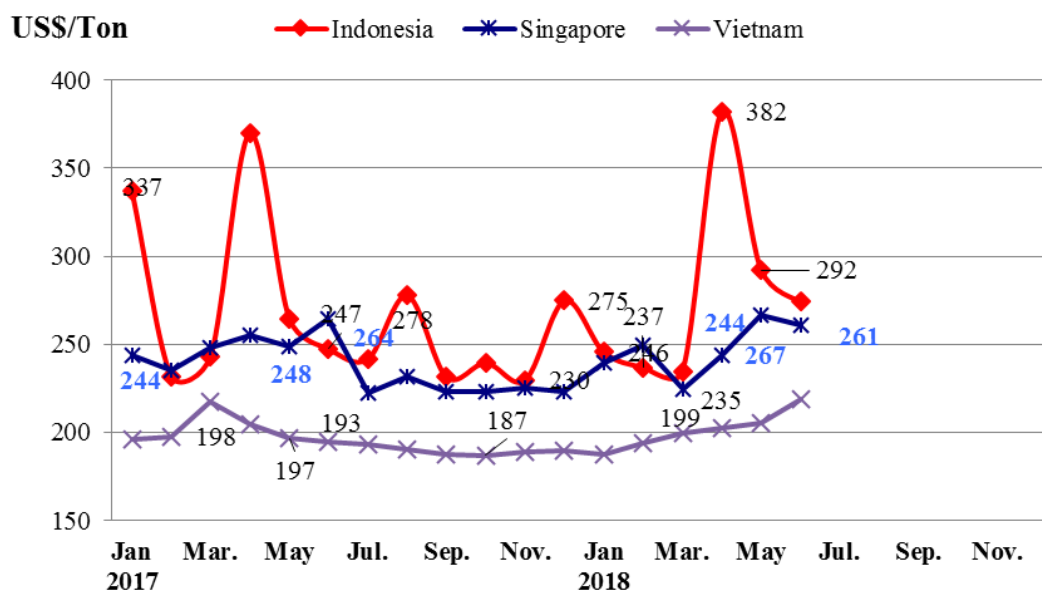


Figure 31 CIF price (US\$/Ton) of maize of selected countries in ASEAN in 2017 - 2018

Highlight of Sugar Outlook for 2019

- ASEAN sugar supply is forecasted to increase about 14 percent or 6.91 million tons from 49.53 million tons in 2018 to 56.44 million tons in 2019 due to the increase in beginning stock.
- The beginning stock of sugar in 2019 is estimated at 28.46 million tons, up from 20.03 million tons in 2018.
- The sugar export from ASEAN in 2019 is expected to increase from 8.47 million tons in 2018 to 11.74 million tons in 2019 (Table 31).
- The sugar import of 2019 is about 7.29 million tons which is slightly decreased from 2018.
- The production to domestic utilization ratio for sugar in 2019 is forecasted to be 162.91 percent which is decrease from 176.15 percent in 2018.
- The beginning stock to domestic utilization ratio in 2019 is forecasted to be about 224 percent, which is increase from about 159 percent in 2018.

Table 31 Summary of the ASEAN sugar situation, 2018-2019

Unit: Million Tons

Items	2018	2019	Change	
			Quantity	%
Supply (Million tons)	49.53	56.44	6.91	13.94
Beginning stock	20.03	28.46	8.42	42.05
Production	22.20	20.69	-1.51	-6.80
Import	7.30	7.29	-0.01	-0.11
Demand (Million tons)	49.53	56.44	6.91	13.94
Domestic utilization	12.60	12.70	0.10	0.77
Export	8.47	11.74	3.27	38.63
Ending stock	28.46	31.99	3.54	12.42
Ratio of production to domestic utilization (%)	176.15	162.91	-13.24	-
Ratio of beginning stock to domestic utilization (%)	158.96	224.07	65.11	-

ASEAN Sugar Situation in 2018

Production

The sugarcane production in ASEAN in 2018 (2017/18 crop year) was estimated at 223.29 million tons, up 42.34 million tons from 180.95 million tons in 2017 or about 23 percent (Table 32, Figure 32). The increase in production was due to the increase in production of Cambodia Indonesia and Thailand. (Table 35) The yield of sugarcane in ASEAN in 2018 was estimated at 70.83 tons per hectare, significantly increase from 65.90 tons in 2017 (Table 35, Figure 35).

Thailand, the largest sugar producing country in the region, the production estimated to increase mainly due to the expanded of planted area by farmers respond to price increase and government policy to change from paddy field to another crops.

Production in **Indonesia** was estimated to increase due to the increase in planted area and yield from favorable weather.

For production in **the Philippines**, it was estimated to decrease due to the decrease in yield cause by farmers applied less fertilizer.

Vietnam was estimated to decrease in its production due to the decrease in yield while the planted area was about the same.

In **Myanmar**, the estimated production has decrease from the planted area and the yield is estimated to decrease by farmers respond to price decrease continue with effect from flood and farmers use less fertilizer.

For **Lao PDR**, the estimated production has slight decrease due to the decrease in area by unfavorable weather while yield was about the same.

For **Cambodia**, the increase in sugarcane production came from the increase of planted area and yield.

Utilization and Stock

Regarding domestic utilization of sugar in the ASEAN, it has slightly decreased to 12.60 million tons in 2018 from 12.96 million tons in 2017 (Table 38). The beginning stock of sugar in ASEAN in 2018 was estimated at 20.03 million tons, up from 15.10 million tons in 2017, which is about 4.94 million tons or about 33 percent. The ending stock of sugar in ASEAN in 2018 was estimated to be about 28.46 million tons, an increase of about 42 percent from 2017.

The ratio of sugar production to domestic utilization in 2018 was estimated to be about 176.15 percent, indicated that the production of sugar in ASEAN was sufficient for the consumption within the region (Table 40, Figure43).

The ratio of beginning stock to domestic utilization was estimated to be about 158.96 percent in 2018, compared to about 116.47 percent in 2017, indicated that the sugar availability in the region was up from the previous. (Table 41, Figure 44)

Trade

The sugar export from ASEAN in 2018 is 8.47 million tons compared to 6.93 million tons in 2017, an increase of about 1.54 million tons or about 22 percent (Table 37 and 38, Figure 37 and 38). Thailand is the major sugar exporting country in the region constituted about 85 percent of the total ASEAN export or about 7.21 million tons.

For the import, ASEAN in 2018 as a whole imported sugar about 7.30 million tons, an increase about 5 percent from the previous year. (Table 38, Figure 40 and 41).

The quantity and value of sugar export by countries of destination and the quantity and value of import by countries of origin are given in table 42 and 43.

Prices

The FOB and CIF prices of sugar in exporting and importing countries in ASEAN during 2017 – 2018 are shown in Table 44 – 45. For FOB prices of both raw sugar and white sugar of Thailand in 2018 is 321 and 367 respectively, the prices of raw sugar and white sugar of 2018 is lower than 2017. CIF prices for Singapore, the CIF price in 2018 was lower than in 2017.

Damaged Area

The sugar damaged area in ASEAN in 2018 was reported to be 71,417 hectares. The damages were caused by flood and drought which happened the most in Thailand and the affected area was 71,308 hectares (Table 36).

Prospects for Sugar in 2019

Production

Sugarcane production in ASEAN is forecasted to increase from 223.29 million tons in 2018 to 225.38 million tons in 2019. Most of the countries which forecasted to increase in its production while Cambodia and Myanmar forecasted to decrease in its production. The most increase in terms of quantity is found in Thailand. Thailand is expected to increase in its production from 135.07 million tons in 2018 to 136.60 million tons in 2019 by the increase in both area and yield. The expansion of planted area in Thailand comes from the government policy to shift area from unsuitable area of paddy field to sugarcane combined with the increase in yield due to farmers used more improved variety and more fertilizer as well as taking care their crop better (Table 32, Figure 32-35). The most increase in terms of percentage is found in Lao PDR. The increase come from the expand of planted area by favorable weather and the yield is up by farmers use more improved variety

Utilization and Stock

The domestic utilization of sugar in ASEAN is forecasted to increase from 12.60 million tons of sugar in 2018 to 12.70 million tons in 2019, which is about 0.1 million tons increase

(Table 39). The beginning stock in ASEAN is estimated at 28.46 million tons of sugar, an increase of 8.42 million tons or compared to 20.03 million tons in the previous year. The ending stock of sugar in ASEAN in 2019 is forecasted to be about 32 million tons which is about 3.54 million tons up from the previous year.

The ratio of production to domestic utilization in 2019 is forecasted to be about 162.91 percent, which is decrease from the previous year (Table 40, Figure 43).

The ratio of the beginning stock to domestic utilization in 2019 is forecasted to be about 224.07 percent which is increase from 2018 (Table 41, Figure44). This indicates that the domestic availability of sugar in the region is expected to significant increase while compare to the previous year.

Trade

The export is predicted to increase from 8.47 million tons in 2018 to 11.74 million tons in 2019 (Table 38 and 39, Figure 37 and 38). For the import, it is forecasted be 7.29 which is slightly decreased from the previous year (Table 38 and 39, Figure 40 and 41).

Table 32 Sugarcane production in ASEAN countries, 2017-2019

Unit: 1,000 Tons

Country	2017(2016/17)	2018(2017/18)	change2018 over 2017		2019(2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	180,949.44	223,290.42	42,340.98	23.40	225,382.94	2,092.52	0.94
Brunei	-	-	-	-	-	-	-
Cambodia ^{1/}	629.32	694.10	64.78	10.29	688.03	-6.07	-0.87
Indonesia	28,806.39	32,237.09	3,430.71	11.91	32,237.09	0.00	0.00
Lao PDR	2,069.23	2,019.00	-50.22	-2.43	2,430.00	411.00	20.36
Malaysia	-	-	-	-	-	-	-
Myanmar	10,437.06	10,370.04	-67.02	-0.64	10,030.01	-340.03	-3.28
Philippines	27,599.78	24,760.38	-2,839.40	-10.29	25,166.50	406.12	1.64
Singapore	-	-	-	-	-	-	-
Thailand	93,088.46	135,073.80	41,985.34	45.10	136,604.30	1,530.50	1.13
Vietnam	18,319.20	18,136.01	-183.19	-1.00	18,227.00	90.99	0.50

Table 33 Sugarcane planted area in ASEAN countries, 2017-2019

Unit: 1,000 Hectares

Country	2017(2016/17)	2018(2017/18)	change2018 over 2017		2019(2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	2,802.90	3,223.69	420.79	15.01	3,248.14	24.45	0.76
Brunei	-	-	-	-	-	-	-
Cambodia ^{1/}	19.72	20.20	0.49	2.48	20.53	0.32	1.59
Indonesia	425.62	447.07	21.45	5.04	447.07	0.00	0.00
Lao PDR	37.08	36.18	-0.90	-2.43	40.00	3.82	10.56
Malaysia	-	-	-	-	-	-	-
Myanmar	164.09	163.36	-0.72	-0.44	163.61	0.24	0.15
Philippines	416.34	422.46	6.12	1.47	429.39	6.93	1.64
Singapore	-	-	-	-	-	-	-
Thailand	1,459.66	1,854.02	394.36	27.02	1,868.55	14.53	0.78
Vietnam	280.40	280.40	0.00	0.00	279.00	-1.40	-0.50

Table 34 Sugarcane harvested area in ASEAN countries, 2017-2019

Unit: 1,000 Hectares

Country	2017(2016/17)	2018(2017/18)	change2018 over 2017		2019(2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	2,745.74	3,152.28	406.53	14.81	3,176.28	24.00	0.76
Brunei	-	-	-	-	-	-	-
Cambodia ^{1/}	19.13	20.20	1.07	5.59	20.53	0.32	1.59
Indonesia	425.62	447.07	21.45	5.04	447.07	0.00	0.00
Lao PDR	37.08	36.18	-0.90	-2.43	40.00	3.82	10.56
Malaysia	-	-	-	-	-	-	-
Myanmar	163.65	163.25	-0.40	-0.24	163.61	0.35	0.22
Philippines	416.34	422.46	6.12	1.47	429.39	6.93	1.64
Singapore	-	-	-	-	-	-	-
Thailand	1,403.52	1,782.71	379.19	27.02	1,796.69	13.98	0.78
Vietnam	280.40	280.40	0.00	0.00	279.00	-1.40	-0.50

Table 35 Sugarcane yield in ASEAN countries, 2017-2019

Unit: Ton/Hectare

Country	2017(2016/17)	2018(2017/18)	change2018 over 2017		2019(2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	65.90	70.83	4.93	7.48	70.96	0.13	0.18
Brunei	-	-	-	-	-	-	-
Cambodia ^{1/}	32.89	34.35	1.46	4.44	33.52	-0.83	-2.42
Indonesia	67.68	72.11	4.43	6.55	72.11	0.00	0.00
Lao PDR	55.80	55.80	0.00	0.00	60.75	4.95	8.87
Malaysia	-	-	-	-	-	-	-
Myanmar	63.78	63.52	-0.26	-0.41	61.31	-2.21	-3.48
Philippines	66.29	58.61	-7.68	-11.59	58.61	0.00	0.00
Singapore	-	-	-	-	-	-	-
Thailand	66.33	75.77	9.44	14.23	76.03	0.26	0.34
Vietnam	65.33	64.68	-0.65	-0.99	65.33	0.65	1.00

Table 36 Sugarcane damaged area in ASEAN by cause of damage, 2018

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
ASEAN	40,109	31,308	-	-	-	-	71,417
Brunei	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-
Lao PDR	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-
Myanmar	109	-	-	-	-	-	109
Philippines	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-
Thailand	40,000	31,308	-	-	-	-	71,308
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Table 37 Sugar balance sheet of ASEAN countries, 2017

Unit: Ton

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	15,098,085	17,845,413	6,981,801	39,925,299	12,962,634	6,928,793	20,033,872	39,925,299
Brunei				-			-	-
Cambodia ^{1/}	-	62,932		62,932	56,374	6,558	0	62,932
Indonesia	1,245,000	2,121,295	4,568,355	7,934,650	3,117,971	428,891	4,387,788	7,934,650
Lao PDR	419,200	413,845	30	833,075	-	35,126	797,949	833,075
Malaysia ^{1/}	78,001		2,000,000	2,078,001	1,700,000	300,000	78,001	2,078,001
Myanmar	2,093,945	834,965		2,928,910	769,899	108,624	2,050,387	2,928,910
Philippines	717,602	2,560,456		3,278,058	2,560,456	383,453	334,149	3,278,058
Singapore			269,398	269,398	238,658	30,740	0	269,398
Thailand	10,343,026	10,020,000		20,363,026	2,600,000	5,590,000	12,173,026	20,363,026
Vietnam	201,311	1,831,920	144,017	2,177,248	1,919,276	45,400	212,572	2,177,248

Note: ^{1/}The value is estimated by AFSIS.**Table 38 Sugar balance sheet of ASEAN countries, 2018**

Unit: Ton

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	20,033,872	22,200,057	7,297,449	49,531,378	12,603,267	8,470,084	28,458,026	49,531,378
Brunei	-			-			-	-
Cambodia ^{1/}	-	69,410		69,410	60,559	8,851	0	69,410
Indonesia	4,387,788	2,200,000	4,832,519	11,420,307	3,151,448	426,068	7,842,791	11,420,307
Lao PDR	797,949	403,800	17	1,201,766		53,607	1,148,158	1,201,766
Malaysia ^{1/}	78,001		2,000,000	2,078,001	1,700,000	300,000	78,001	2,078,001
Myanmar	2,050,387	829,603		2,879,990	734,592	249,532	1,895,866	2,879,990
Philippines	334,149	2,173,643		2,507,792	2,173,643	134,149	200,000	2,507,792
Singapore ^{1/}	-		300,000	300,000	255,000	45,000	0	300,000
Thailand	12,173,026	14,710,000		26,883,026	2,600,000	7,210,000	17,073,026	26,883,026
Vietnam	212,572	1,813,601	164,914	2,191,087	1,928,026	42,876	220,185	2,191,087

Note: ^{1/}The value is estimated by AFSIS.

Table 39 Sugar balance sheet of ASEAN countries, 2019

Unit: Ton

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	28,458,026	20,689,522	7,288,541	56,436,089	12,700,298	11,742,398	31,993,394	56,436,089
Brunei	-			-			-	-
Cambodia ^{1/}	-	68,803		68,803	61,098	7,705	0	68,803
Indonesia	7,842,791	2,200,000	4,832,519	14,875,309	3,184,259	426,068	11,264,982	14,875,309
Lao PDR	1,148,158	486,000	22	1,634,180		131,120	1,503,060	1,634,180
Malaysia ^{1/}	78,001		2,000,000	2,078,001	1,700,000	300,000	78,001	2,078,001
Myanmar 1/	1,895,866	802,401		2,698,267	754,977	288,367	1,654,923	2,698,267
Philippines	200,000	2,209,619		2,409,619	2,209,619		200,000	2,409,619
Singapore ^{1/}	-		300,000	300,000	255,000	45,000	0	300,000
Thailand	17,073,026	13,100,000		30,173,026	2,600,000	10,500,000	17,073,026	30,173,026
Vietnam	220,185	1,822,700	156,000	2,198,885	1,935,344	44,138	219,403	2,198,885

Note: ^{1/}The value is estimated by AFSIS.

Table 40 Ratio of sugar production to domestic utilization in ASEAN countries, 2017-2019

Unit: Ton

Country	2017			2018			2019		
	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)
ASEAN	17,845,413	12,962,634	137.67	22,200,057	12,603,267	176.15	20,689,522	12,700,298	162.91
Brunei	-	-	-	-	-	-	-	-	-
Cambodia	62,932	56,374	111.63	69,410	60,559	114.62	68,803	61,098	112.61
Indonesia	2,121,295	3,117,971	68.03	2,200,000	3,151,448	69.81	2,200,000	3,184,259	69.09
Lao PDR	413,845	-	-	403,800	-	-	486,000	-	-
Malaysia	-	1,700,000	-	-	1,700,000	-	-	1,700,000	-
Myanmar	834,965	769,899	108.45	829,603	734,592	112.93	802,401	754,977	106.28
Philippines	2,560,456	2,560,456	100.00	2,173,643	2,173,643	100.00	2,209,619	2,209,619	100.00
Singapore	-	238,658	-	-	255,000	-	-	255,000	-
Thailand	10,020,000	2,600,000	385.38	14,710,000	2,600,000	565.77	13,100,000	2,600,000	503.85
Vietnam	1,831,920	1,919,276	95.45	1,813,601	1,928,026	94.07	1,822,700	1,935,344	94.18

Table 41 Ratio of sugar beginning stock to domestic utilization in ASEAN countries, 2017-2019

Unit: Ton

Country	2017			2017			2018		
	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)
ASEAN	15,098,085	12,962,634	116.47	20,033,872	12,603,267	158.96	28,458,026	12,700,298	224.07
Brunei	-	-	-	-	-	-	-	-	-
Cambodia	-	56,374	-	-	60,559	-	-	61,098	-
Indonesia	1,245,000	3,117,971	39.93	4,387,788	3,151,448	139.23	7,842,791	3,184,259	246.30
Lao PDR	419,200	-	-	797,949	-	-	1,148,158	-	-
Malaysia	78,001	1,700,000	-	78,001	1,700,000	-	78,001	1,700,000	-
Myanmar	2,093,945	769,899	271.98	2,050,387	734,592	279.12	1,895,866	754,977	251.12
Philippines	717,602	2,560,456	28.03	334,149	2,173,643	15.37	200,000	2,209,619	9.05
Singapore	-	238,658	-	-	255,000	-	-	255,000	-
Thailand	10,343,026	2,600,000	397.81	12,173,026	2,600,000	468.19	17,073,026	2,600,000	656.65
Vietnam	201,311	1,919,276	10.49	212,572	1,928,026	11.03	220,185	1,935,344	11.38

Table 42 Quantity and Value of Sugar Export by Countries of Destination in 2018

Quantity: Tons Values: US\$

Exporting Country	Country of Destination													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei														
Cambodia														
Indonesia									8,442	892,645			8,502	951,186
Lao PDR														
Malaysia		2,069												
Myanmar														
Philippines														
Singapore	488	430	27	61	468	245			1,466	678	4	5	501	312
Thailand	3,753	2,026,846	272,673	99,200,971	978,849	324,015,974	76,250	28,270,161	178,192	57,892,712	270,797	96,559,752	21,854	8,488,523
Vietnam														

Exporting Country	Country of Destination						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei							0	0			0	0
Cambodia							0	0			0	0
Indonesia	1,029	641,186	41,936	3,934,134	17,878	1,458,306	77,786	7,877,456	122,621	16,160,390	200,407	24,037,847
Lao PDR			45,545	18,687,199	8,062	3,858,000	53,607	22,545,199			53,607	22,545,199
Malaysia		438,509					0	440,578		281,579	0	722,157
Myanmar			1,200	60,000			1,200	60,000.00	248,332	15,792,000	249,532	15,852,000
Philippines							0	0	134,149	5,901,310	134,149	5,901,310
Singapore			14	33	4	8	2,972	1,773	10,025	9,096	12,997	10,868
Thailand	57,289	23,320,576			52,575	18,833,365	1,912,232	658,608,880	1,148,131	414,490,441	3,060,363	1,073,099,321
Vietnam							0	0			0	0

Table 43 Quantity and Value of Sugar Import by Countries of Origin in 2018

Quantity: Tons Values: US\$

Importing Country	Country of origin													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei														
Cambodia														
Indonesia														
Lao PDR														
Malaysia														
Myanmar														
Philippines														
Singapore					271	329,508			21,545	9,947,649	5	2,842	2	9,170
Thailand									37	69,043			0	67
Vietnam								11,610,855	125	330,890				1,294

Importing Country	Country of origin						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei							0	0			0	0
Cambodia							0	0			0	0
Indonesia							0	0			0	0
Lao PDR			84	2,184			84	2,184	0	0	84	2,184
Malaysia							0	0			0	0
Myanmar							0	0			0	0
Philippines							0	0			0	0
Singapore			122,063	51,778,529	23	20,065	143,909	62,087,762	132,377	54,259,951	276,285	116,347,713
Thailand	0.60	2,371			0.001	8	38	71,488	203	322,261	241	393,749
Vietnam	360	416,656	111,575	75,335,800			112,060	87,695,495		4,697,909	112,060	92,393,404

Remark: The data in this table is obtained from national focal points of member states and may not complete.

Table 44 FOB Price of sugar in selected ASEAN countries

Unit: US\$/Ton

Country	Grade	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Indonesia	White Sugar	2017	125	186	133	162	152	159	141	139	125	119	90	103	136
		2018	130	141	155	133	105	106	110						126
Malaysia	Not specified	2017	521	533	543	1,764	1,335	1,019	777	956	1,400	1,629	873	1,088	1,205
Myanmar	Not specified	2017	56	49	49	49	50	52							51
		2018	47	49	67	70	69	79							64
Thailand	Raw Sugar	2017	432	437	456	447	457	453	443	417	419	395	375	396	427
		2018	344	370	357	329	319	299	288	298	286				321
	White Sugar	2017	521	528	547	556	540	520	501	489	463	431	405	448	496
		2018	411	397	382	369	348	346	349	352	352				367

Table 45 CIF Price of sugar in selected ASEAN countries

Unit: US\$/Ton

Country	Grade	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Indonesia	White Sugar	2017	497	501	493	482	494	484	431	440	434	445	408	402	459
		2018	347	413	398	377	366	343	356						372
Malaysia	Not specified	2017	581	549	577	514	514	479	448	423	421	398	419	361	642
Singapore	Not specified	2017	585	568	577	572	524	542	444	511	421	486	487	440	513
		2018	475	427	449	422	433	404							435

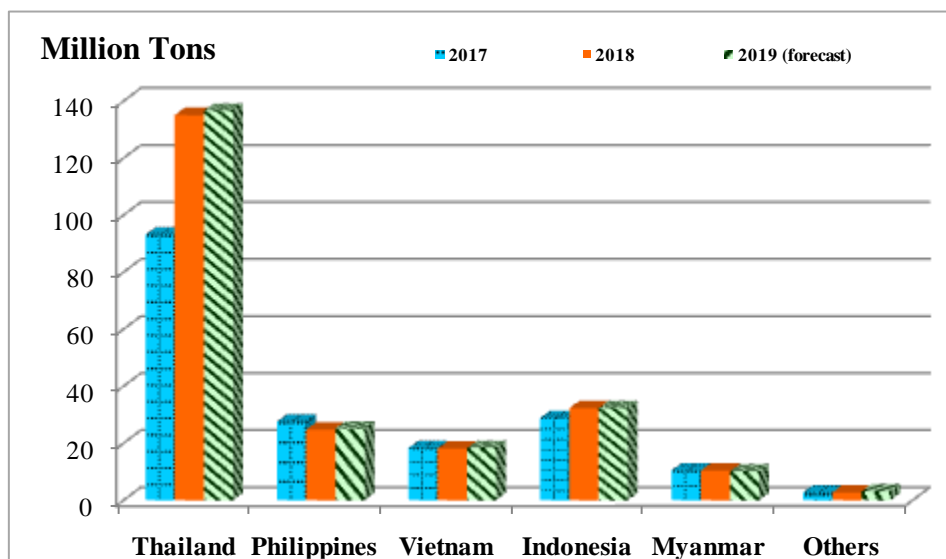


Figure 32 Sugarcane production of selected countries in ASEAN, 2017-2019

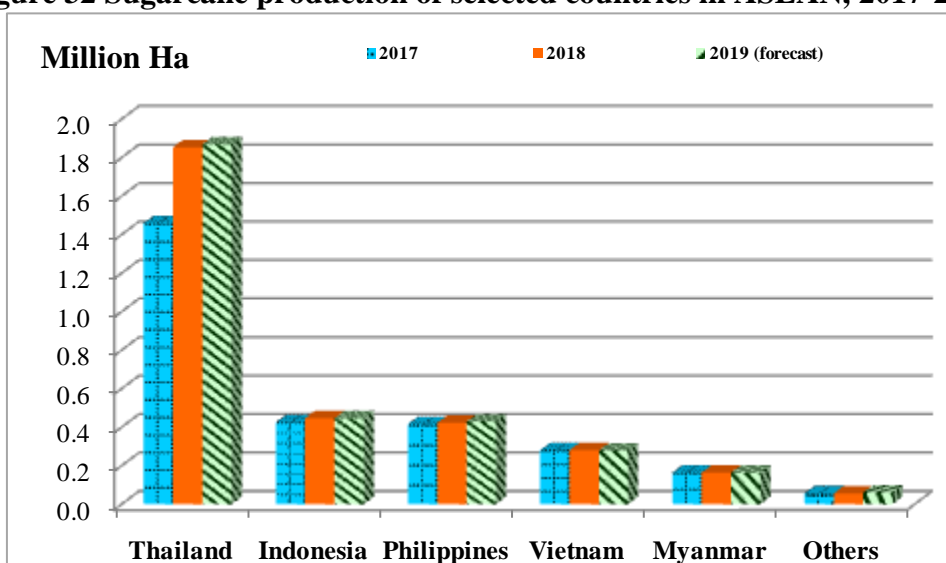


Figure 33 Sugarcane planted area of selected countries in ASEAN, 2017-2019

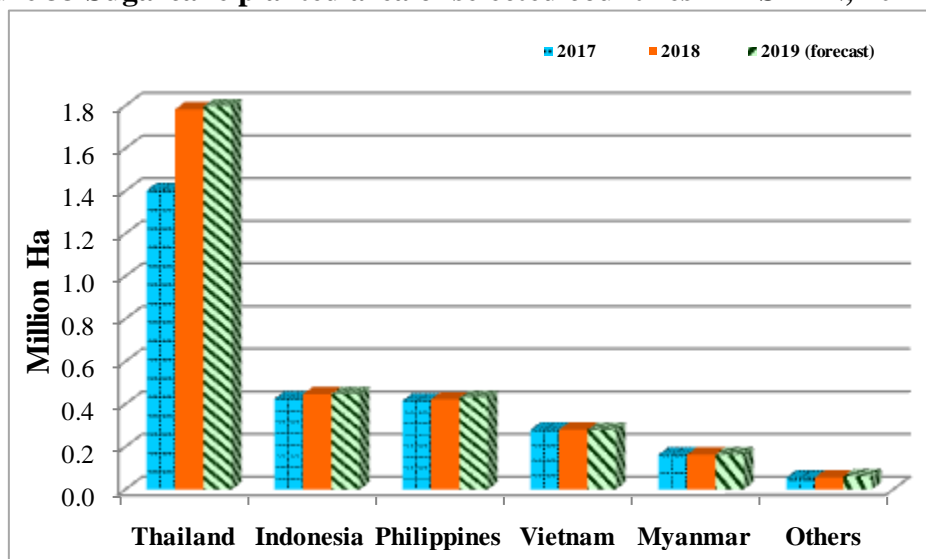


Figure 34 Sugarcane harvested area of selected countries in ASEAN, 2017-2019

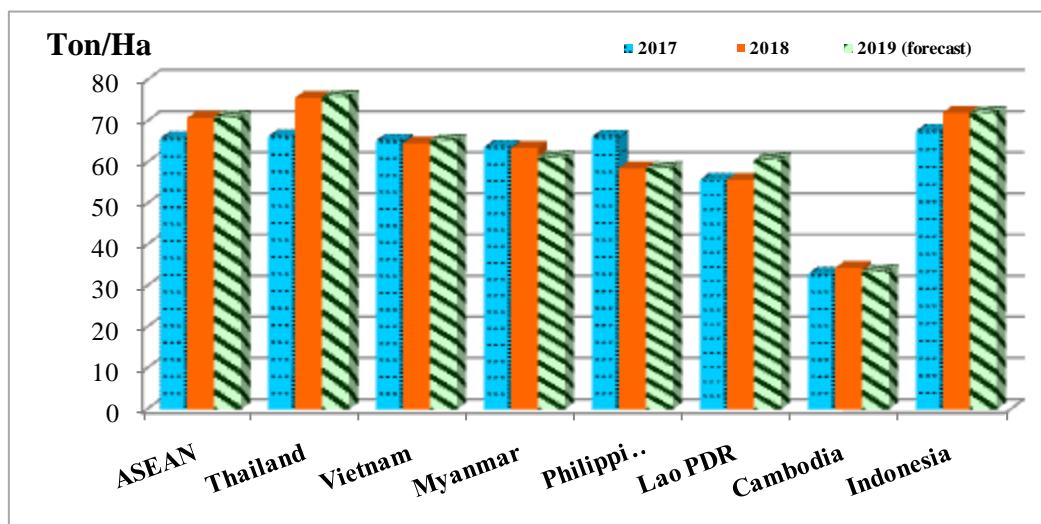


Figure 35 Sugarcane yield of selected countries in ASEAN, 2017-2019

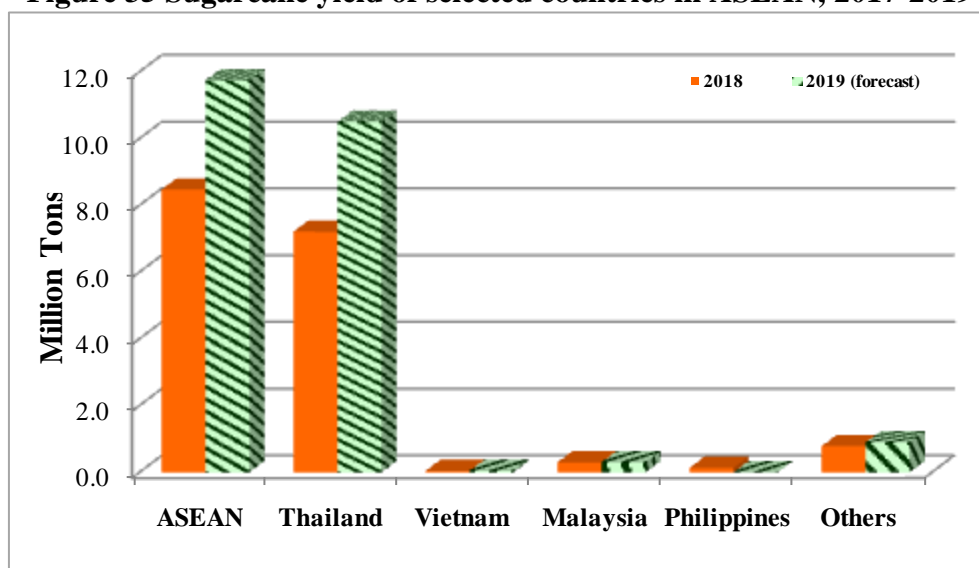


Figure 36 Amount of Sugar export (million tons) of selected countries in ASEAN in 2018-2019

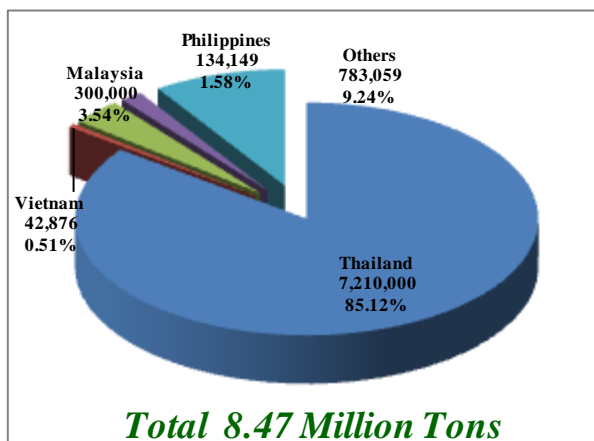


Figure 37 Share of sugar export (tons) among ASEAN countries, 2018

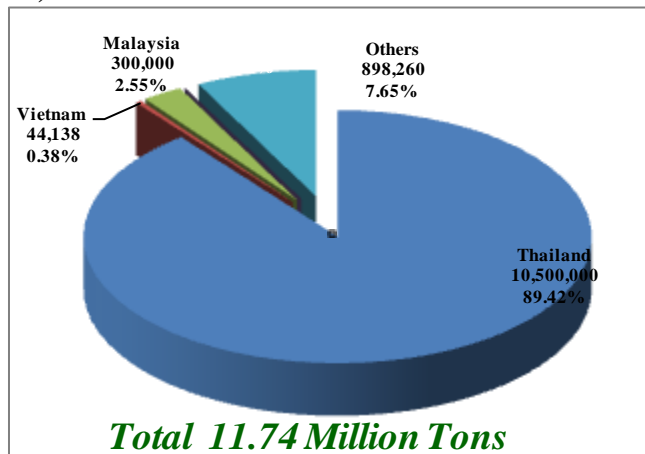


Figure 38 Share of sugar export (tons) among ASEAN countries, 2019

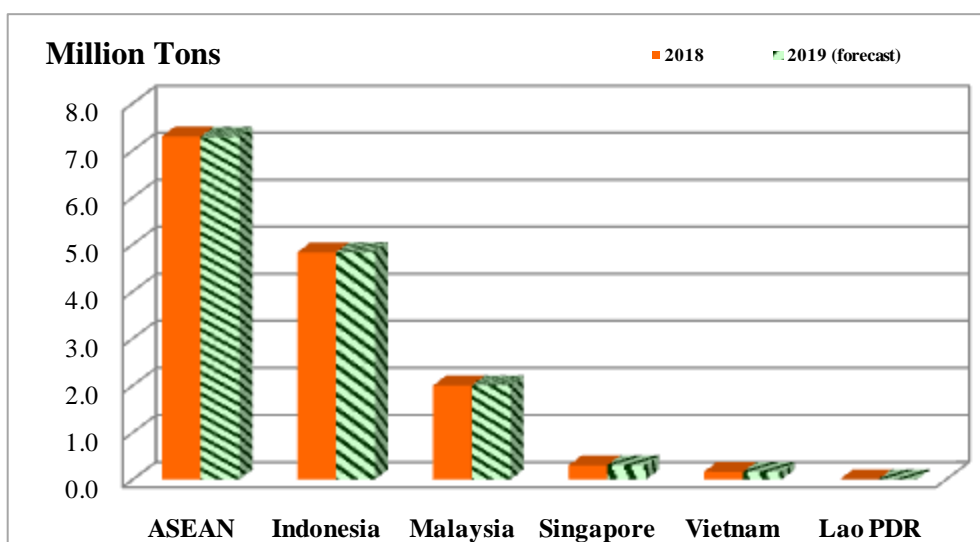


Figure 39 Amount of sugar import (million tons) by selected countries in ASEAN in 2018-2019

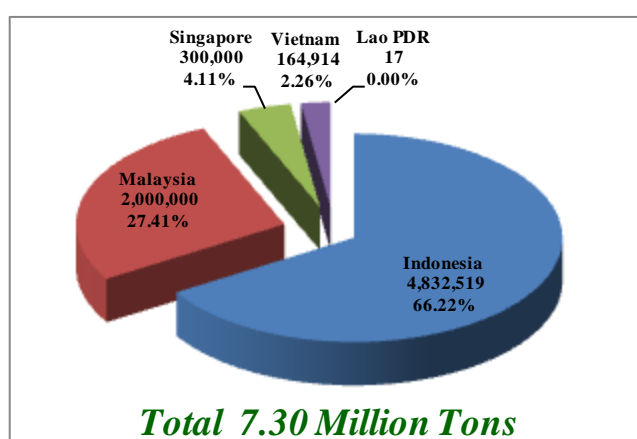


Figure 40 Share of sugar import (ton) among ASEAN countries, 2018

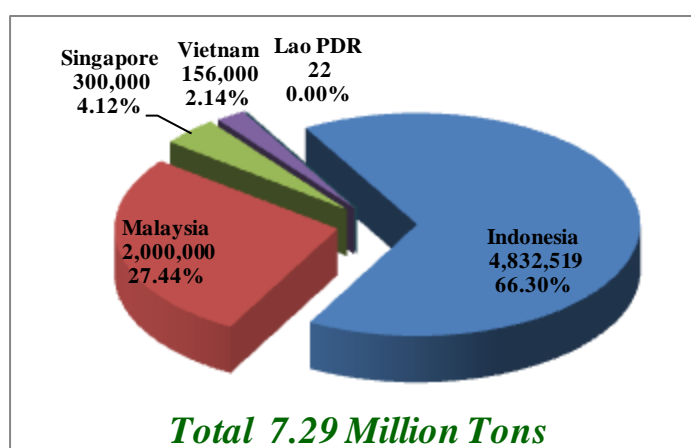


Figure 41 Share of sugar import (ton) among ASEAN countries, 2019

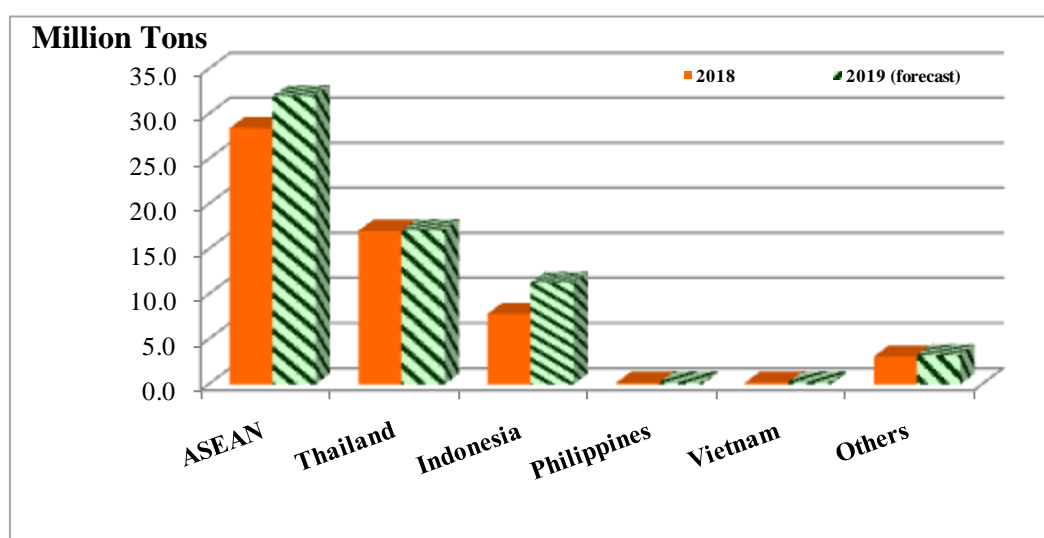


Figure 42 Amount of ending stock of Sugar in ASEAN countries in 2018 – 2019

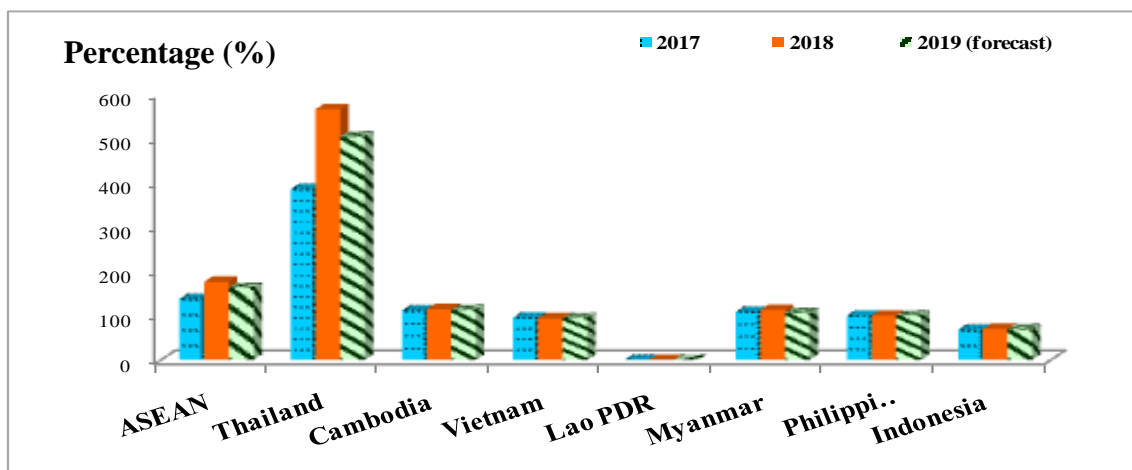


Figure 43 Ratio of sugar production to domestic utilization in ASEAN countries, 2017-2019

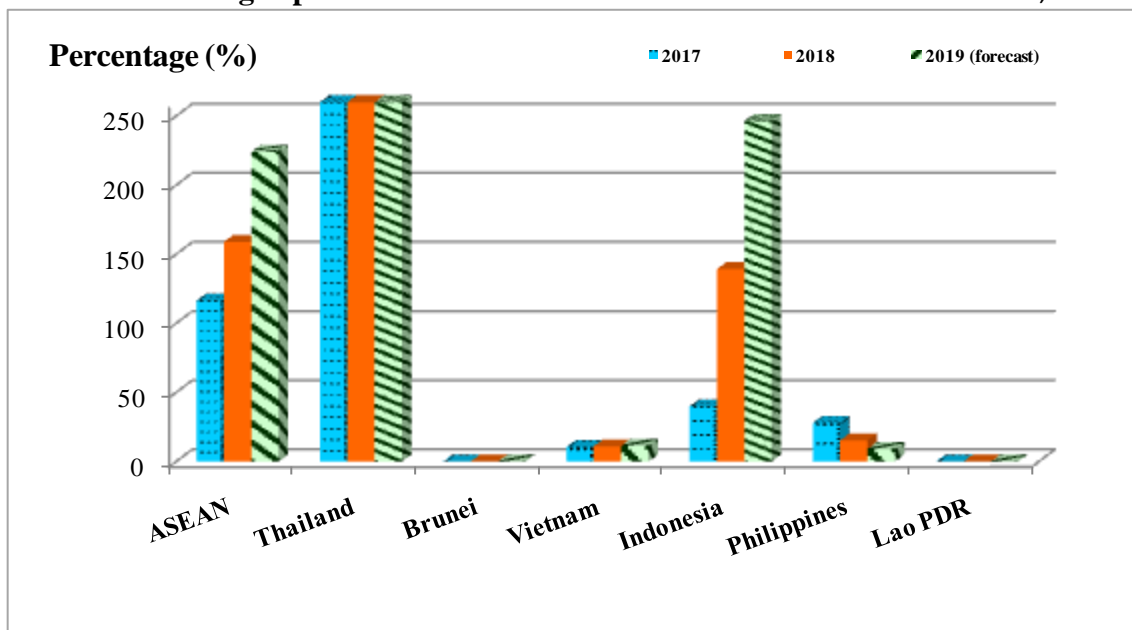


Figure 44 Ratio of sugar beginning stock to domestic utilization in ASEAN countries, 2017-2019

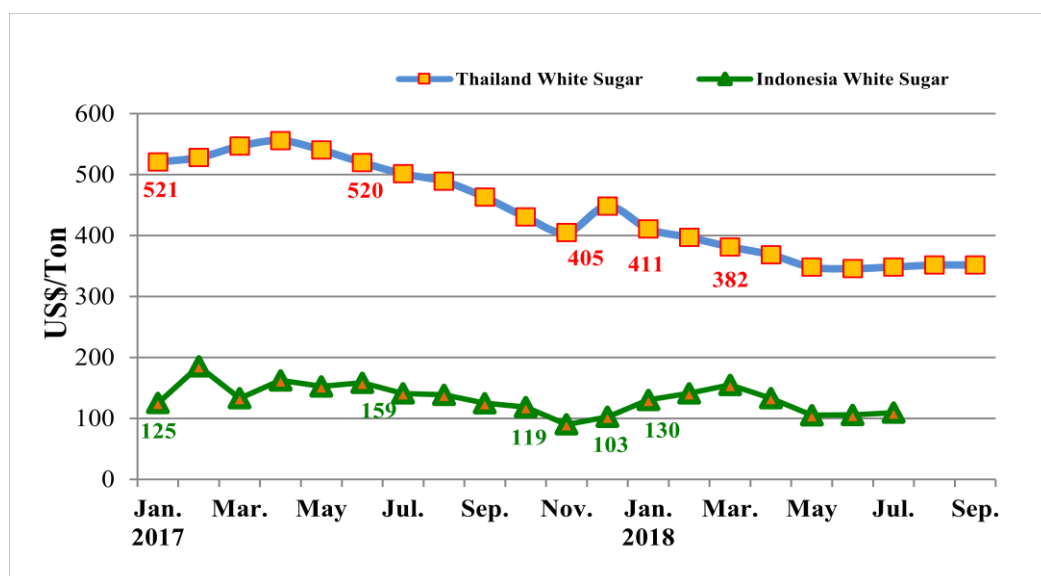


Figure 45 FOB price (US\$) of white sugar of selected countries in ASEAN in 2017-2018

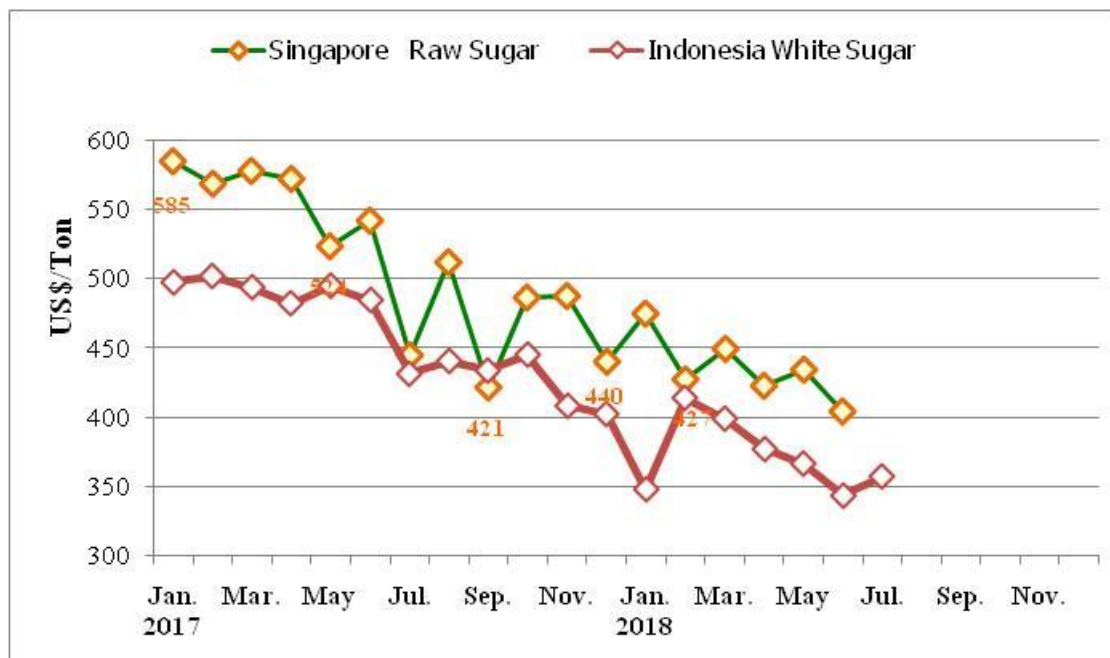


Figure 46 CIF price (US\$) of raw sugar of selected countries in ASEAN in 2017-2018

Highlights of Soybean Outlook for 2019

- The supply of ASEAN soybean is forecasted to increase from 12.56 million tons in 2018 to 13.35 million tons or approximately 6.29 percent (Table 46). The increase in supply mainly comes from the increase in beginning stock, which increases approximately 16 percent.
- The soybean production is predicted to be 1.48 million tons, increase from the previous year 0.03 million tons.
- The beginning stock of soybean in ASEAN in 2019 is forecasted to increase to 4.84 million tons, up 0.65 million tons from 4.19 million tons in 2018. The ending stock is expected to be 5.98 million tons in 2019, an increase of 1.14 million ton or approximately 24 percent from 4.84 million tons in 2018.
- In terms of soybean demand in ASEAN in 2019, the domestic utilization is estimated at 7.33 million tons, compared to 7.69 million tons in 2018.
- The soybean import is forecasted to increase from 6.92 million tons in 2018 to 7.03 million tons in 2019. The export of soybean from the ASEAN in 2019 is forecasted to be 0.03 million tons. ASEAN exports very few of soybeans.
- The production to domestic utilization ratio (self-sufficiency ratio) in 2019 is forecasted to be 20.20 percent, increased 1.33 percent from the previous year.
- The beginning stock to domestic utilization ratio (food security ratio) is predicted to be 66.01 percent in 2019, which increased approximately 12 percent from 2018, indicated that the soybeans situation is improving.

Table 46 Summary of the ASEAN soybean situation, 2018 - 2019

Unit: Million tons

Items	2018	2019	Change	
			Quantity	%
Supply (Million tons)	12.56	13.35	0.79	6.29
Beginning stock	4.19	4.84	0.65	15.51
Production	1.45	1.48	0.03	2.07
Import	6.92	7.03	0.11	1.59
Demand (Million tons)	12.56	13.35	0.79	6.29
Domestic utilization	7.69	7.33	-0.36	-4.68
Export	0.03	0.03	0.00	0.00
Ending stock	4.84	5.98	1.14	23.55
Ratio of production to domestic utilization (%)	18.87	20.20	1.33	-
Ratio of beginning stock to domestic utilization (%)	54.50	66.01	11.51	-

ASEAN Soybean Situation 2018

Production

The estimate of soybean production in ASEAN in 2018 (crop year 2017/18) was 1.45 million tons, an increase of 0.44 million tons from 1.01 million tons in 2017 (crop year 2016/17). The increase in production was due to the increase in planted area. Indonesia is ranked first in soybean production in the region, followed by Myanmar, Vietnam, Cambodia, Thailand, Lao PDR, and the Philippines. The productions of soybean decreased in most of the countries except Indonesia and Vietnam.

For **Indonesia**, the estimated soybean production in 2018 has increased to 0.98 million tons, increase approximately 82 percent from 0.54 million tons in 2017. The increase in production was due to the increase in planted area.

For **Lao PDR**, the decrease in production was due to the decrease in area and yield caused by the unfavorable weather.

For **Myanmar**, the second largest soybean producing country in ASEAN, the production has decreased due to the reduction of the planted area and yield. The decline in planted area affected by the decrease of soybean's price.

For **Vietnam**, the production estimated to be increase which affected by the increase in yield.

Utilization and Stock

The domestic utilization of soybean in ASEAN in 2018 was estimated at 7.69 million tons, a decrease of 8.48 million tons or about 52 percent from 16.17 million tons in 2017. In 2018, the beginning stock was estimated at 4.19 million tons, a decrease of about 8.10 million tons or 65.91 percent from 12.29 million tons in 2017. Indonesia and Myanmar had the most of soybean stocks in the region (Table 52-53).

The ratio of production to domestic utilization (self – sufficiency ratio) of ASEAN in 2018 was 18.87 percent, increase of 12.62 percent from the previous year indicated that the soybean production in ASEAN is improve. However, only Cambodia, and Lao PDR have the ratio above 100 percent indicating that the country is self-sufficient in soybeans. (Table 55, Figure 58). The ratio of the beginning stock to the domestic utilization of ASEAN in 2018 was estimated to be 54.50 percent (Table 56, Figure 59).

Trade

In 2018, ASEAN altogether exported soybean 32,984 tons, which decreased 4,993 ton compared to 37,976 ton in 2017. (Table 52-53, Figure 51-52).

The quantity and value of soybean exported by countries of destination and the quantity and value of soybean imported by countries of origin are given in Table 57-58.

Prices

The FOB prices of Cambodia, Indonesia and Malaysia between years 2017-2018 are shown in Table 59 and CIF price for importing countries are shown in table 60. The annual average FOB price in 2018 in Indonesia was 1,233 US\$/ton and the average FOB price in Myanmar was 471 US\$/ton (Table 59).

For CIF prices of 2018, annual average in Indonesia was 427 US\$/ton, in Singapore was 644 US\$/ton, in Thailand was 429 US\$/Ton, and in Vietnam was 440 US\$/ton. (Table 60)

Damaged Area

The total damaged area of soybean in the ASEAN in 2018 was estimated to be 557 hectares. The major cause of damage was the drought which constituted about 33 percent of overall damage area, the majority of drought area is in Indonesia. Flood was also another important cause of damage, which was also found in Indonesia 121 hectares. (Table 51)

Prospects for Soybean in 2019

Production

Soybean production of ASEAN in 2019 is forecasted to be 1.51 million tons, which is increase from 2018 approximately 4 percent (Table 47, Figure 47). The increase in production is expected in Indonesia, and Thailand. Indonesia, the biggest soybean producing country in ASEAN, is forecasted to increase in its production from 0.98 million tons in 2018 to 1.06 million tons in 2019, about 8 percent increase. The increase is derived from the increase in area and yield. (Table 49-50, Figure 47-50).

Utilization and Stock

The domestic utilization of soybeans in ASEAN is forecasted to decrease 4.63 percent from 7.69 million tons in 2018 to 7.33 million tons in 2019 (Table 54).

The beginning stock in ASEAN in 2019 is forecasted to increase 0.65 million ton or about 16 percent from 4.19 million ton in 2018 to 4.84 million ton in 2019. The ending stock is forecasted to increase to 5.98 million tons in 2019, or about 24 percent. (Table 53, Figure 57).

The ratio of production to domestic utilization (self-sufficiency ratio) is forecasted to be 20.20 percent, which is increase from the previous year (Table 55, Figure 58). The ratio of beginning stock to the domestic utilization (food security ratio) is forecasted to be 66.01 percent, which increase 11.51 percent from the previous year (Table 56, Figure 58).

Trade

In 2019, the export of soybeans from the ASEAN is forecasted to be about 0.03 million tons, which is almost the same as previous year. The total import by the ASEAN in 2019 is forecasted to be 7.03 million tons, compared to 6.92 million tons in 2018 (Table 53-54, Figure 51, 53, 54 and 56). The half – year quantity and value of soybean export by countries of destination and the quantity and value of soybean import by countries of origin are given in Table 57-58.

Table 47 Soybean production in ASEAN countries, 2017 - 2019

Unit: 1,000 Tons

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	1,011.72	1,451.73	440.01	43.49	1,514.81	63.08	4.34
Brunei	N/A						
Cambodia	95.00	90.11	-4.89	-5.15	87.16	-2.94	-3.27
Indonesia	538.73	982.60	443.87	82.39	1,060.17	77.57	7.89
Lao PDR	19.26	18.34	-0.92	-4.78	18.25	-0.09	-0.49
Malaysia	N/A						
Myanmar	214.83	209.48	-5.36	-2.49	207.08	-2.40	-1.15
Philippines	0.86	0.64	-0.22	-25.11	0.48	-0.16	-25.11
Singapore	N/A						
Thailand	41.19	37.98	-3.20	-7.78	38.05	0.06	0.17
Vietnam	101.86	112.59	10.73	10.53	103.62	-8.96	-7.96

Table 48 Soybean planted area in ASEAN countries, 2017 - 2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	648.24	950.83	302.60	46.68	951.54	0.70	0.07
Brunei	N/A						
Cambodia	42.66	41.95	-0.71	-1.66	41.25	-0.70	-1.66
Indonesia	357.27	680.76	323.49	90.55	681.98	1.22	0.18
Lao PDR	12.09	11.75	-0.34	-2.81	11.70	-0.05	-0.43
Malaysia	N/A						
Myanmar	143.18	139.80	-3.38	-2.36	140.39	0.59	0.42
Philippines	0.51	0.54	0.03	6.85	0.54	0.00	0.00
Singapore	N/A						
Thailand	24.54	21.52	-3.02	-12.30	21.16	-0.36	-1.66
Vietnam	67.99	54.51	-13.48	-19.83	54.51	0.00	0.00

Table 49 Soybean harvested area in ASEAN countries, 2017 - 2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	646.36	950.28	303.92	47.02	951.46	1.18	0.12
Brunei	N/A						
Cambodia	42.66	41.95	-0.71	-1.66	41.25	-0.70	-1.66
Indonesia	355.80	680.37	324.57	91.22	681.98	1.60	0.24
Lao PDR	12.09	11.75	-0.34	-2.81	11.70	-0.05	-0.43
Malaysia	N/A						
Myanmar	143.01	139.74	-3.27	-2.29	140.39	0.65	0.46
Philippines	0.51	0.54	0.03	6.85	0.54	0.00	0.00
Singapore	N/A						
Thailand	24.30	21.42	-2.89	-11.88	21.08	-0.33	-1.55
Vietnam	67.99	54.51	-13.48	-19.83	54.51	0.00	0.00

Note: Vietnam reported only planted area.

Table 50 Soybean yield in ASEAN countries, 2017 - 2019

Unit: Ton/Hectare

Country	2017 (2016/17)	2018 (2017/18)	change 2018 over 2017		2019 (2018/19)	change 2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	1.57	1.53	-0.04	-2.40	1.59	0.06	4.22
Brunei	N/A						
Cambodia	2.23	2.15	-0.08	-3.55	2.11	-0.04	-1.64
Indonesia	1.51	1.44	-0.07	-4.62	1.55	0.11	7.64
Lao PDR	1.593	1.561	-0.03	-2.02	1.56	0.00	-0.07
Malaysia	N/A						
Myanmar	1.502	1.499	-0.003	-0.20	1.48	-0.02	-1.27
Philippines	1.69	1.18	-0.50	-29.91	0.89	-0.30	-25.11
Singapore	N/A						
Thailand	1.69	1.77	0.08	4.65	1.80	0.03	1.74
Vietnam	1.50	2.07	0.57	37.87	1.90	-0.16	-7.96

Table 51 Soybean damaged area in ASEAN by cause of damage, 2017

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
ASEAN	182	312	27	31	0	5	557
Brunei	N/A						
Cambodia						5	5
Indonesia	121	265					386
Lao PDR							0
Malaysia	N/A						
Myanmar	61						61
Philippines							0
Singapore	N/A						
Thailand		47	27	31			105
Vietnam	N/A						

Table 52 Soybean balance sheet of ASEAN countries, 2017

Unit : Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	12,293,395	1,010,861	7,092,310	20,396,566	16,167,813	37,976	4,190,776	20,396,566
Brunei	N/A							
Cambodia	20,353	94,996	0	115,349	56,415	30,074	28,860	115,349
Indonesia	2,560,150	538,728	2,674,844	5,773,722	2,257,094	1,623	3,515,004	5,773,722
Lao PDR	2,022	19,260	0	21,282	16,837	0	4,445	21,282
Malaysia ^{1/}	N/A							
Myanmar	9,619,206	214,834	662	9,834,702	9,277,100	1,624	555,978	9,834,702
Philippines	N/A							
Singapore	0	0	20,296	20,296	20,021	275	0	20,296
Thailand	0	41,187	2,749,700	2,790,887	2,786,927	3,960	0	2,790,887
Vietnam	91,664	101,856	1,646,808	1,840,328	1,753,419	420	86,489	1,840,328

Table 53 Soybean balance sheet of ASEAN countries, 2018

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	4,190,776	1,451,089	6,922,164	12,564,029	7,689,996	32,984	4,841,049	12,564,029
Brunei	N/A							
Cambodia	28,860	90,105	0	118,965	53,097	24,431	41,437	118,965
Indonesia	3,515,004	982,598	2,420,229	6,917,832	2,268,064	1,818	4,647,950	6,917,832
Lao PDR	4,445	18,340	0	22,785	16,988	0	5,797	22,785
Malaysia ^{1/}	N/A							
Myanmar	555,978	209,477	7,093	772,548	714,579	2,020	55,949	772,548
Philippines ^{1/}	N/A							
Singapore ^{1/}	0	0	20,296	20,296	20,021	275	0	20,296
Thailand	0	37,983	2,907,430	2,945,413	2,941,413	4,000	0	2,945,413
Vietnam	86,489	112,586	1,567,115	1,766,190	1,675,833	440	89,917	1,766,190

Note: ^{1/}The value is estimated by AFSIS. N/A means data is not available.**Table 54 Soybean balance sheet of ASEAN countries, 2019**

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	4,841,049	1,481,031	7,025,136	13,347,217	7,333,599	28,751	5,984,867	13,347,217
Brunei	N/A							
Cambodia	41,437	87,161	0	128,598	61,691	19,268	47,639	128,598
Indonesia	4,647,950	1,060,167	2,420,229	8,128,346	2,444,420	1,818	5,682,108	8,128,346
Lao PDR	5,797	18,250	0	24,047	17,139	0	6,908	24,047
Malaysia ^{1/}	N/A							
Myanmar	55,949	207,078	7,012	270,039	90,103	1,690	178,246	270,039
Philippines	N/A							
Singapore ^{1/}	0	0	20,920	20,920	19,374	1,546	0	20,920
Thailand	0	38,046	2,907,894	2,945,940	2,941,940	4,000	0	2,945,940
Vietnam	89,917	70,329	1,669,081	1,829,327	1,758,931	430	69,966	1,829,327

Note: ^{1/}The value is estimated by AFSIS.

Table 55 Ratio of soybean production to domestic utilization in ASEAN countries (Self-sufficiency ratio), 2017 - 2019

Unit: Tons

Country	2017			2018			2019		
	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)
ASEAN	1,010,861	16,167,813	6.25	1,451,089	7,689,996	18.87	1,481,031	7,333,599	20.20
Brunei	N/A								
Cambodia	94,996	56,415	168.39	90,105	53,097	169.70	87,161	61,691	141.29
Indonesia	538,728	2,257,094	23.87	982,598	2,268,064	43.32	1,060,167	2,444,420	43.37
Lao PDR	19,260	16,837	114.39	18,340	16,988	107.96	18,250	17,139	106.48
Malaysia	N/A								
Myanmar	214,834	9,277,100	2.32	209,477	714,579	29.31	207,078	90,103	229.82
Philippines	N/A								
Singapore	0	20,021	0.00	0	20,021	0.00	0	19,374	0.00
Thailand	41,187	2,786,927	1.48	37,983	2,941,413	1.29	38,046	2,941,940	1.29
Vietnam	101,856	1,753,419	5.81	112,586	1,675,833	6.72	70,329	1,758,931	4.00

Table 56 Ratio of soybean beginning stock to domestic utilization in ASEAN countries (Food security ratio), 2017 - 2019

Unit: Tons

Country	2017			2018			2019		
	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)
ASEAN	12,293,395	16,167,813	76.04	4,190,776	7,689,996	54.50	4,841,049	7,333,599	66.01
Brunei	N/A								
Cambodia	20,353	56,415	36.08	28,860	53,097	54.35	41,437	61,691	67.17
Indonesia	2,560,150	2,257,094	113.43	3,515,004	2,268,064	154.98	4,647,950	2,444,420	190.15
Lao PDR	2,022	16,837	12.01	4,445	16,988	26.16	5,797	17,139	33.82
Malaysia	N/A								
Myanmar	9,619,206	9,277,100	103.69	555,978	714,579	77.80	55,949	90,103	62.09
Philippines	N/A								
Singapore	0	20,021	0.00	0	20,021	0.00	0	19,374	0.00
Thailand	0	2,786,927	0.00	0	2,941,413	0.00	0	2,941,940	0.00
Vietnam	91,664	1,753,419	5.23	86,489	1,675,833	5.16	89,917	1,758,931	5.11

Table 57 Quantity and Value of Soybean Export by Countries of Destination in 2018

Quantity: Tons Values: US\$

Exporting Country	Country of Destination													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei														
Cambodia														
Indonesia									2,219	2,632,062	286	476,567		
Lao PDR														
Malaysia						2,106,159								
Myanmar									1	46				
Philippines														
Singapore	1	2	0	0	3	2			27	18				
Thailand			485	297,992			664	384,352			0.37	2,401		
Vietnam														

Exporting Country	Country of Destination						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei							0	0			0	0
Cambodia							0	0			0	0
Indonesia							2,505	3,108,629	5,669	6,894,628	8,174	10,003,257
Lao PDR							0	0			0	0
Malaysia		730,962		5,012			0	2,842,133		65,768	0	2,907,901
Myanmar			0	94			1	140	2,018	1,026,594	2,020	1,026,734
Philippines							0	0			0	0
Singapore							31	22	9	10	40	32
Thailand	5	11,047			173	151,136	1,327	846,927	10	16,326	1,336	863,253
Vietnam							0	0			0	0

Remark: The data in this table is obtained from national focal points of member states and may not complete.

Table 58 Quantity and Value of Soybean Import by Countries of Origin in 2018

Quantity: Tons Values: US\$

Importing Country	Country of Origin													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei														
Cambodia														
Indonesia									28,125	20,302,159				
Lao PDR														
Malaysia						35,758								
Myanmar									603	213,483				
Philippines														
Singapore									1,030	692,264	0	45		
Thailand									0	5				
Vietnam														

Importing Country	Country of origin						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei							0	0			0	0
Cambodia							0	0			0	0
Indonesia							28,125	20,302,159	4,080,952	1,773,207,783	4,109,077	1,793,509,942
Lao PDR							0	0			0	0
Malaysia							0	35,758		761,461	0	797,220
Myanmar							603	213,483	6,490	2,232,005	7,093	2,445,489
Philippines							0	0	74,133	35,552,122	74,133	35,552,122
Singapore							1,030	692,308			1,030	692,308
Thailand	0	23					0	28	1,233,654	515,408,647	1,233,654	515,408,675
Vietnam							0	0	1,305,262	564,890,869	1,305,262	564,890,869

Remark: The data in this table is obtained from national focal points of member states and may not complete.

Table 59 FOB Price of soybean in selected ASEAN countries

Unit: US\$/Ton

Country	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Cambodia	2017	547	545	548	550	547	549	547	550	547	550	542	547	547
	2018													
Indonesia	2017	1,270	1,183	430	1,138	1,379	1,409	1,313	1,458	1,244	1,514	1,285	1,556	1,265
	2018	1,173	1,254	1,251	1,406	1,305	1,008							1,233
Myanmar	2017	414	421	470	592	434	390	411	505	495	319	488	550	457
	2018	472	513	537	100	483	476	549	499	509	501	504	508	471

Table 60 CIF Price of soybean in selected ASEAN countries

Unit: US\$/Ton

Country	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Indonesia	2017	426	429	422	419	410	397	394	394	388	392	381	391	404
	2018	399	397	413	429	457	465							427
Singapore	2017	656	641	653	614	617	613	605	631	588	607	605	594	619
	2018	643	644	637	632	650	660							644
Thailand	2017	481	459	459	448	430	417	404	404	409	402	446	445	434
	2018	441	427	411	409	428	455							429
Vietnam	2017	448	436	447	438	410	410	417	413	435	419	438	431	429
	2018	453	416	436	441	447	450							440

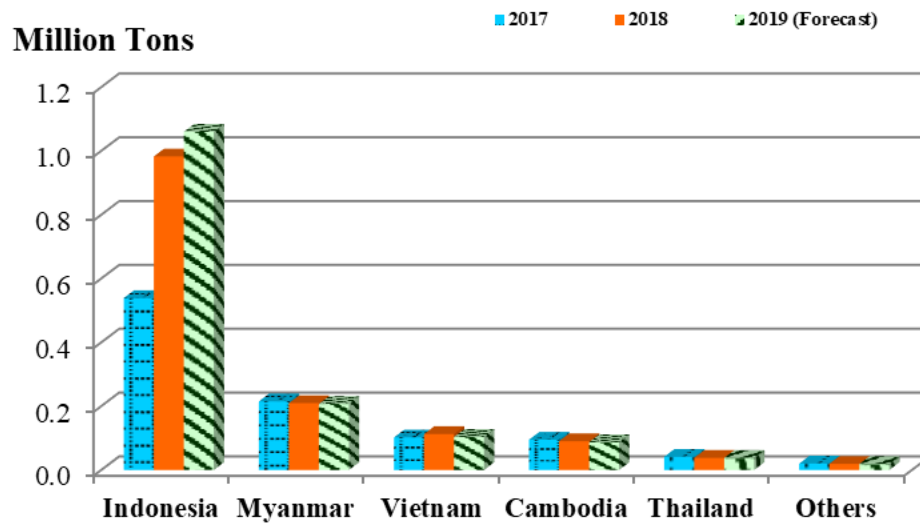


Figure 47 Soybean production of selected countries in ASEAN, 2017 - 2019

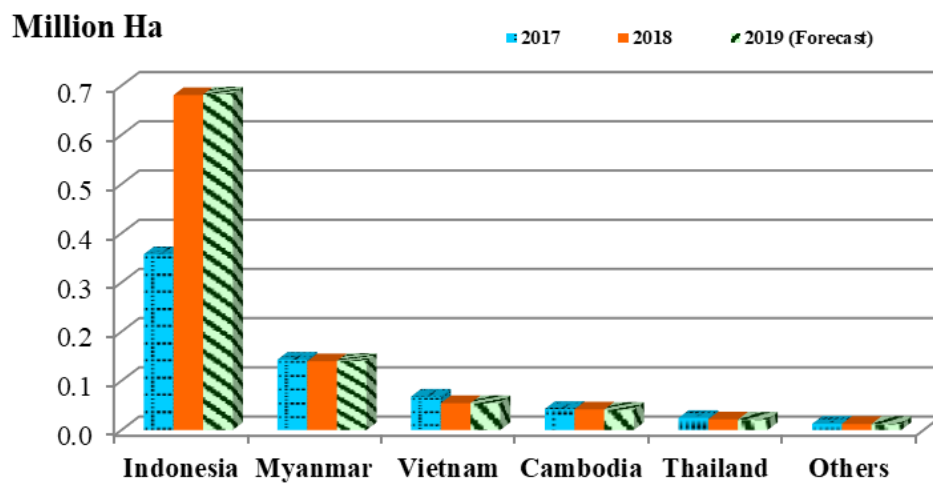


Figure 48 Soybean planted area of selected countries in ASEAN, 2017 - 2019

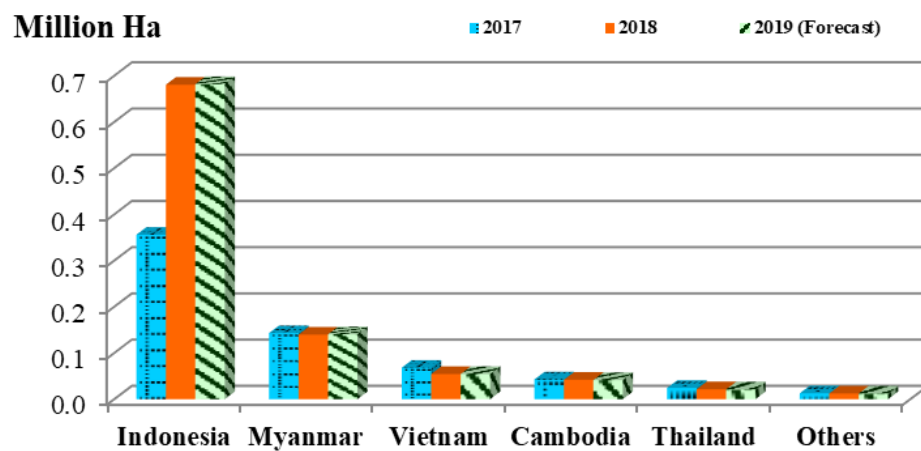


Figure 49 Soybean harvested area of selected countries in ASEAN, 2017 - 2019

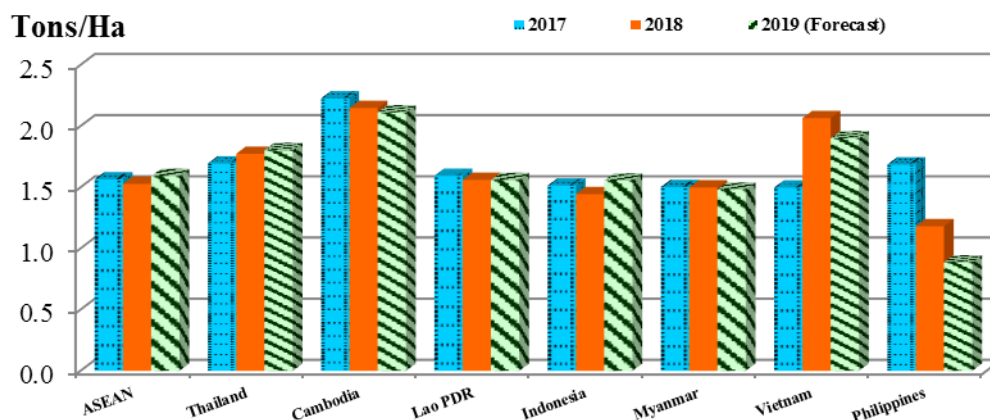


Figure 50 Soybean yield of countries in ASEAN, 2017 - 2019

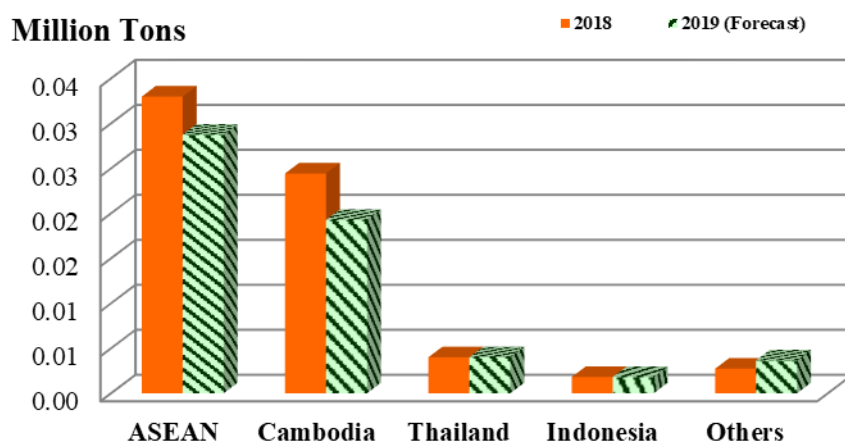
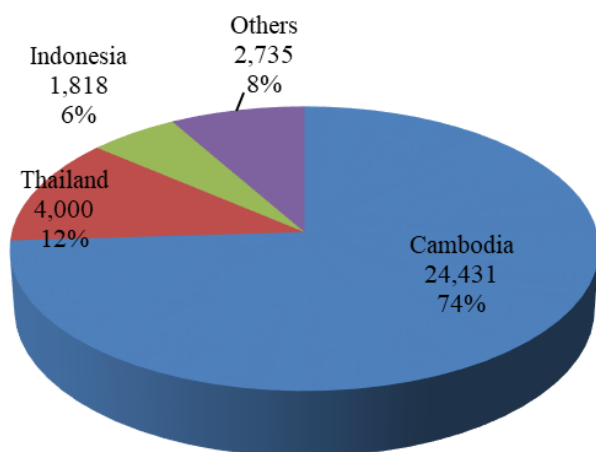
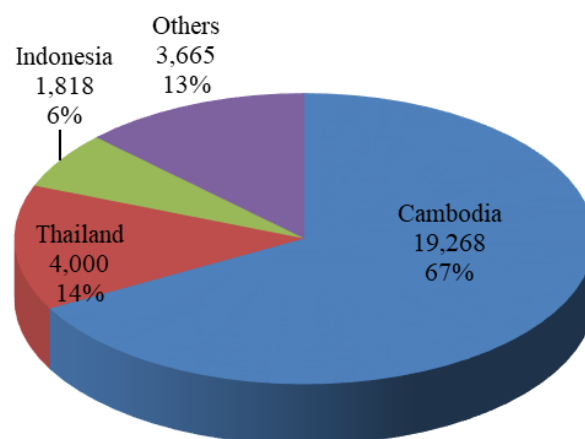


Figure 51 Amount of Soybean export (million tons) of selected countries in ASEAN in 2018 -2019



Total 0.033 million tons
Figure 52 Share of Soybean export (ton) among ASEAN countries, 2018



Total 0.029 million tons
Figure 53 Share of Soybean export (ton) among ASEAN countries, 2019

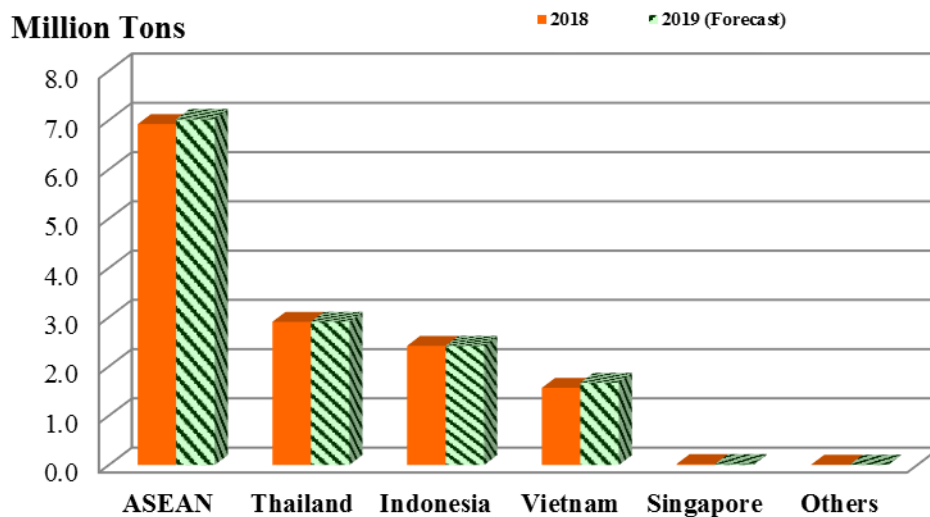


Figure 54 Amount of soybean import (million tons) by selected countries in ASEAN in 2018 - 2019

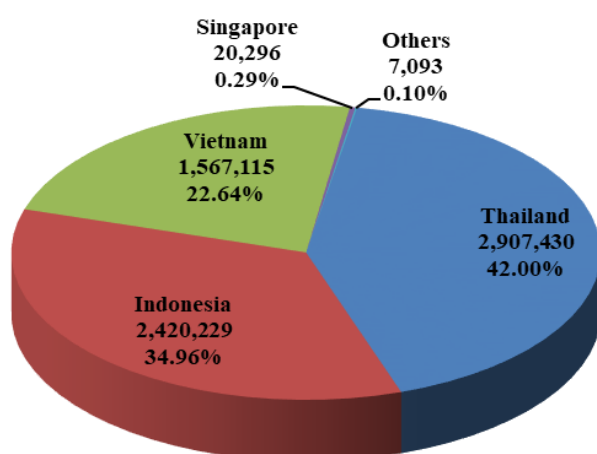


Figure 55 Share of Soybean import (ton) among ASEAN countries, 2018

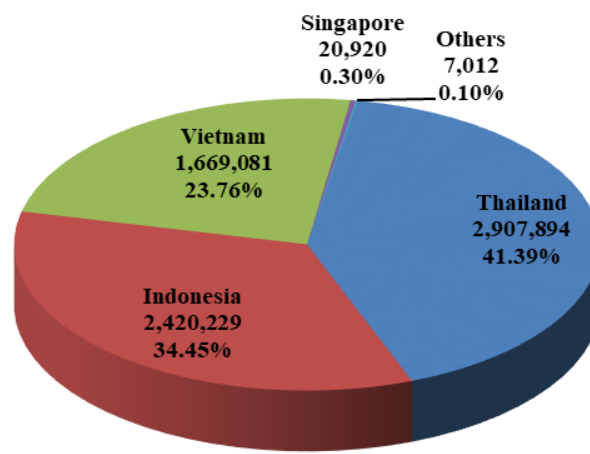


Figure 56 Share of Soybean import (ton) among ASEAN countries, 2019

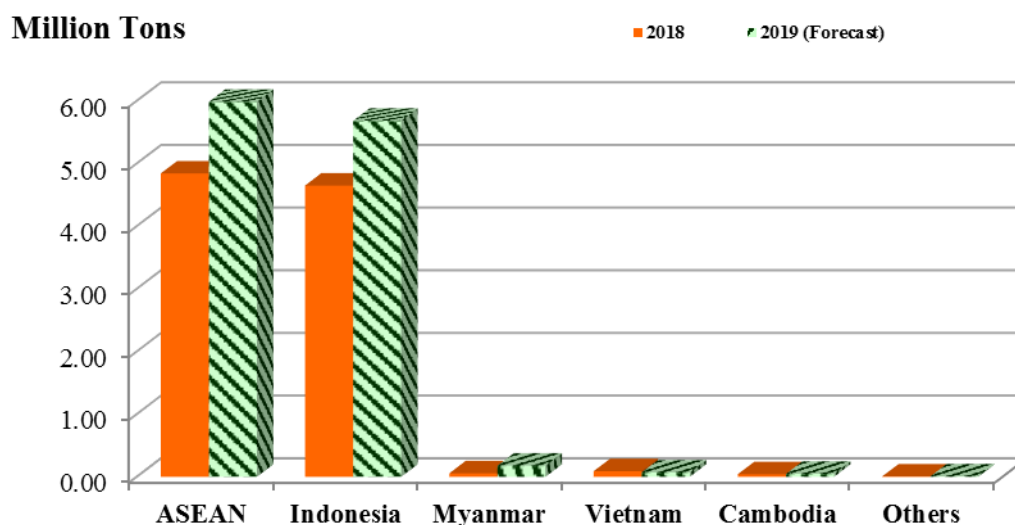


Figure 57 Amount of ending stock of soybean in ASEAN countries in 2018 - 2019

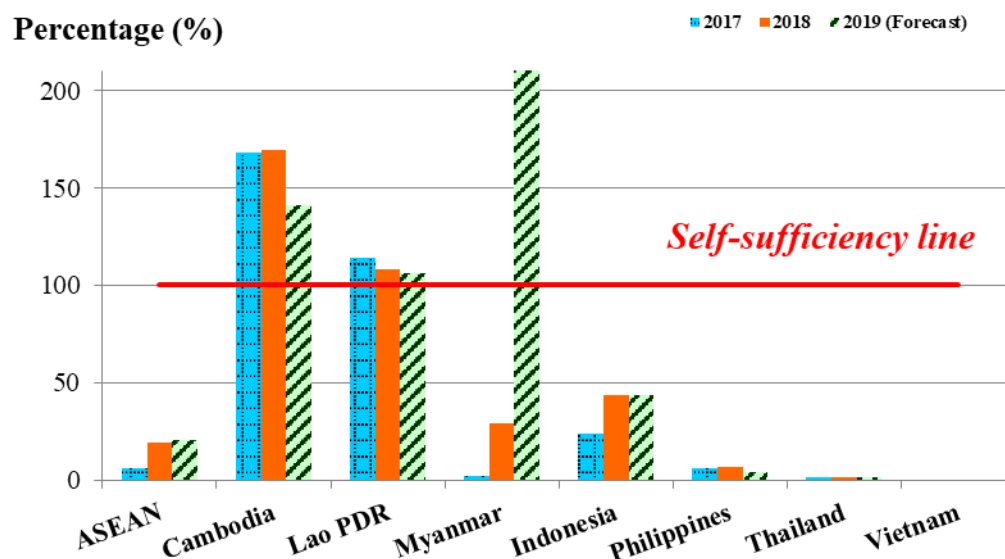


Figure 58 Ratio of soybean production to domestic utilization in ASEAN countries, 2017 - 2019

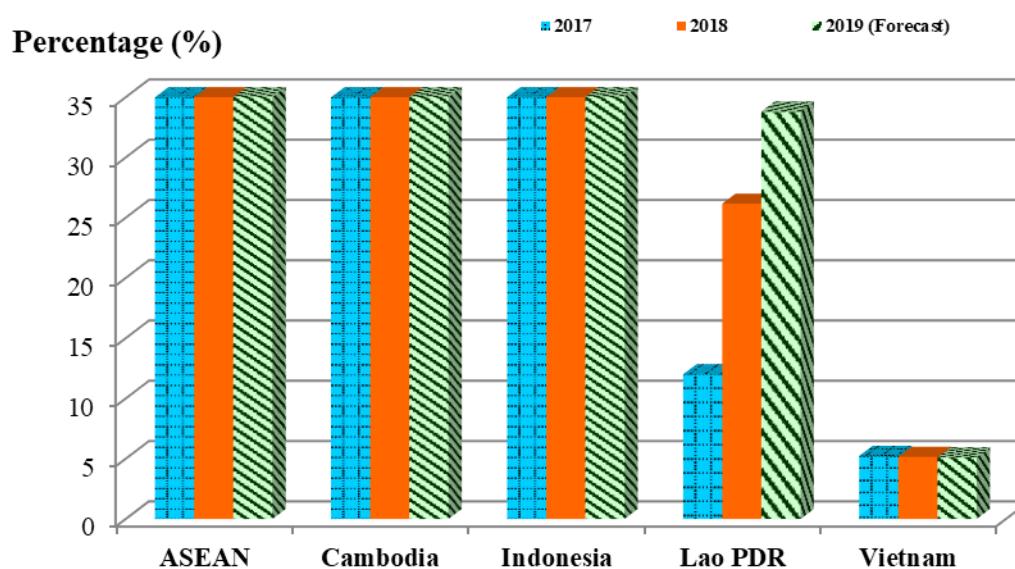


Figure 59 Ratio of soybean beginning stock to domestic utilization in ASEAN countries, 2017 - 2019

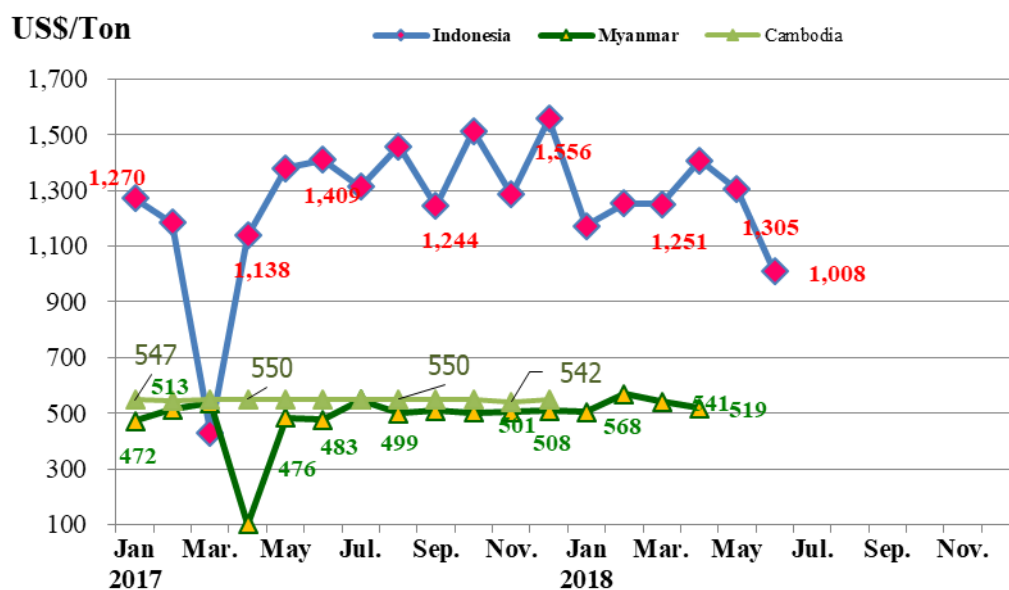


Figure 60 FOB price (US\$/Ton) of soybean of selected countries in ASEAN in 2017 - 2018

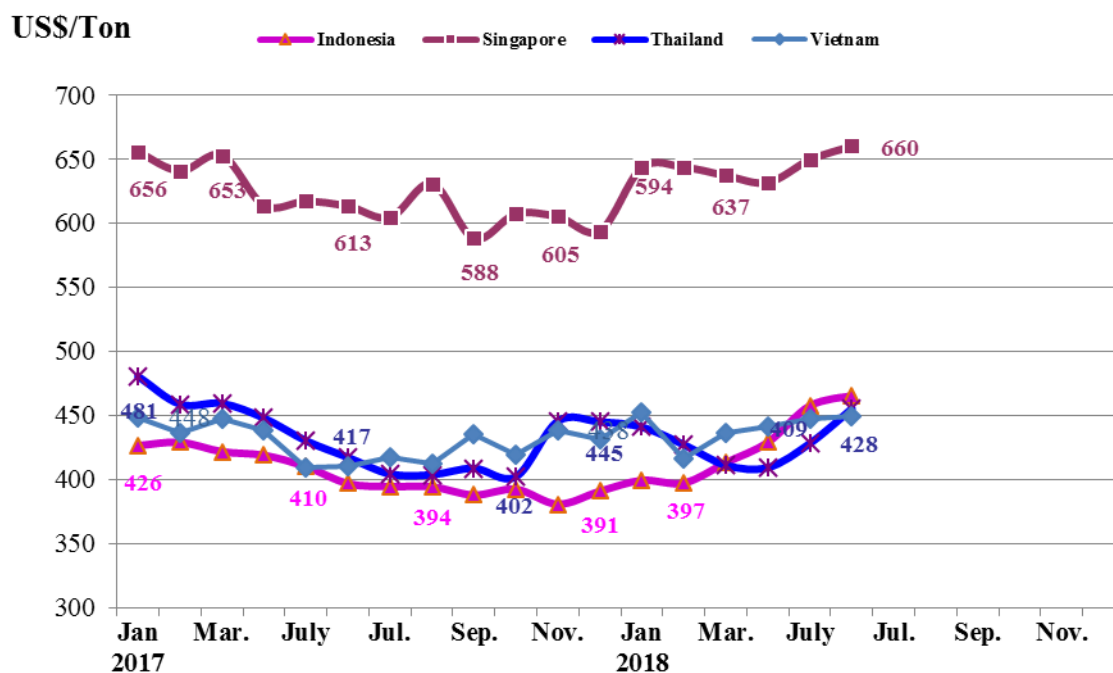


Figure 61 CIF price (US\$/Ton) of soybean of selected countries in ASEAN in 2017 - 2018

Highlights of Cassava Outlook for 2019

- The supply of cassava in ASEAN is forecasted to be 112.78 million tons in 2019, an increase of 9.46 million tons or about 9 percent from 103.32 million tons in 2018. (Table 61). The increase is due to the increase in beginning stock and production.
- The beginning stock of cassava in 2019 is projected to be at 21.97 million tons, increase from 16.64 million tons in 2018 due to the increase in stock in Cambodia, Lao PDR and Vietnam while the ending stock in 2019 is expected to be 25.85 million tons, up from 21.97 million tons in 2018.
- The export of cassava is expected to increase 1.87 million tons or an increase of about 5 percent from 34.85 million tons in 2018 to 36.72 million tons in 2019 while the import of cassava is forecasted to be 8.51 million tons in 2019 or decrease about 9 percent from 9.37 million tons in 2018.
- The ratio of production to domestic utilization in 2019 is forecasted to be about 164 percent, a decrease of about 2 percent compared to about 166 percent in 2018. The ratio of beginning stock to domestic utilization in 2019 is forecasted to be about 44 percent, an increase of about 8 percent from about 36 percent in 2018.

Table 61 Summary of the ASEAN cassava situation, 2018-2019

Unit: Million tons

Items	2018	2019	Change	
			Quantity	%
Supply (Million tons)	103.32	112.78	9.46	9.16
Beginning stock	16.64	21.97	5.33	32.03
Production	77.31	82.30	4.99	6.46
Import	9.37	8.51	-0.86	-9.21
Demand (Million tons)	103.32	112.78	9.46	9.16
Domestic utilization	46.50	50.21	3.71	7.97
Export	34.85	36.72	1.87	5.37
Ending stock	21.97	25.85	3.88	17.67
Ratio of production to domestic utilization (%)	166.24	163.92	-2.32	-
Ratio of beginning stock to domestic utilization (%)	35.78	43.76	7.98	-

ASEAN Cassava Situation in 2018

Production

The estimated cassava production (root fresh) in ASEAN in 2018 (crop year 2017/18) was 77.31 million tons which has decrease from 80.39 million tons in 2017 about 4 percent. The decrease has occurred in Cambodia, Lao PDR, Myanmar, The Philippines and Thailand. (Table 62-65, Figure 62-65).

The estimated cassava production in 2018 in **Indonesia** has increase due to the expand in planted area by favorable weather and farmers respond to price decrease of compete other food crops commodities while yield has decrease due to farmers give less intensive assistance.

In **Thailand**, the decrease in production was due to the decrease in planted area by framers respond to price decrease and yield decrease by flood and exceed amount of rainfall in the cultivation time made cassava root growing condition not good and some of them damage.

In **Vietnam**, the increase in production due to the increase in yield.

For **Cambodia**, the decrease in production came from the decrease of planted area while the yield was increase.

In the **Philippines**, the decrease in production came from the decrease in planted area by farmers respond to price decrease while the yield has increase favorable weather although the 2nd crop the growth stage and tuber formation in some areas were affected by too much rain.

For **Lao PDR**, the decrease in production came from the decline in planted area due to unfavorable weather while a yield was increase due to farmer use more fertilizers.

For **Myanmar**, the decrease in production came from the decrease in planted area due to farmers respond to price decrease and unfavorable weather and a yield came down by the effect from flood and farmers use less fertilizer.

In **Malaysia**, the increase in production came from the increase in both area and yield. The expand of planted area came from farmers respond to price increase. The yield increase by favorable weather and farmers taking care their crops better.

Utilization and Stock

Cassava root in ASEAN, in general, can be used for human food, animal feed and making ethanol. The domestic utilization of cassava for all purposes in ASEAN in 2018 was estimated at 46.50 million tons, a decrease of about 1.18 million tons or about 2 percent from 47.69 million tons in 2017 (Table 67-68).

The beginning stock in 2018 was estimated at 16.64 million tons, an increase of 7.31 million tons compared to about 9.33 million tons in 2017. The ending stock of cassava in 2018 was estimated to be 21.97 million tons, an increase of 5.33 million tons compared to 16.64 million tons in 2017, which came from the increase in ending stock in Cambodia, Lao PRD and Vietnam.

The ratio of the production to the domestic utilization in 2018 was estimated to be about 166 percent which is decrease from about 169 in 2017, indicated that, aggregately, the cassava production in the ASEAN is sufficient for the demand within ASEAN (Table 70, Figure 73).

The ratio of the beginning stock to the domestic utilization for the ASEAN in 2018 is estimated to 35.78 percent which is increase from 19.56 percent in 2017 (Table 71, Figure 74).

Trade

The cassava exported from ASEAN in 2018 is expected to be 34.85 million tons, a decrease of 6.1 million tons from 40.94 million tons in 2017. The cassava imported by the ASEAN in 2018 was estimated to be 9.37 million tons, 6.18 million tons decrease from 15.55 million tons in 2017. (Table 67-68, Figure 66, 67, 69, and 70).

The quantity and value of cassava exported by countries of destination and the quantity and value of imported by counties of origin are given in Table 72 and 73.

Prices

The FOB prices of cassava in the form of flour, shredded and pellets in Cambodia, Indonesia, Malaysia, Myanmar and Thailand between years 2017 - 2018 and the CIF prices in Indonesia, Malaysia and Singapore are shown in Table 74 – 75. Thailand flour, shredded and pellets FOB price of 2018 is increase compare to 2017. For 2018 CIF price of Singapore and Indonesia is increase from 2017.

Damaged Area

The cassava damaged area in 2018 in the ASEAN was reported to be 31,876 hectares of which 30,046 hectares or about 94 percent cause by flood and has occurred in Thailand.

Prospects for Cassava in 2019

Production

The cassava production in ASEAN in 2019 is forecasted to be 82.3 million tons which is 4.99 million tons or about 6 percent increase from 77.31 million tons in 2018. The increase in production is expected in every country except Lao PRD and Vietnam. The most increase in term of quantity and percentage is expected in Indonesia, which is forecasted to be 22.98 million tons or an increase of about 19 percent from 19.34 million tons in year 2018. The increase came from the increase in both planted area and yield. The increase in area in Indonesia come from favorable weather, farmers respond to price increase and a special assistant moreover the yield is increase due to favorable weather. (Table 62-65, Figure 62-65)

Utilization and Stock

The domestic utilization of cassava is predicted to increase to 50.21 million tons in 2019 compared to 46.50 million tons in 2018, an increase of 3.71 million tons. The beginning stock in 2019 is forecasted to be 21.97 million tons, an increase of about 5.33 million tons, compared to 16.64 million tons in 2018. The ending stock in 2019 is predicted to be 25.85 million tons, an increase of about 3.88 million tons from 21.97 million tons in 2018.

The ratio of production to domestic utilization for 2019 is forecasted to be about 164 percent, compared to about 166 percent in 2018, indicates that the self-sufficiency in cassava in the ASEAN is slightly decreasing (Table 70). The ratio of beginning stock to the domestic utilization in 2019 is predicted to be about 44 percent, compared to about 36 percent in 2018, indicates that the cassava supply situation in the ASEAN is increasing (Table 71).

Trade

The cassava export from the ASEAN is expected to increase to 36.72 million tons in 2019, an increase of 1.87 million tons compared to 34.85 million tons in 2018. For the import, it is expected to 8.51 million tons in 2019, a decrease about 0.86 million tons from 9.37 million tons in 2018. (Table 68-69, Figure 66, 68, 69 and 71)

Table 62 Cassava production in ASEAN countries, 2017-2019

Unit: 1,000 Tons

Country	2017 (2016/17)	2018 (2017/18)	change2018 over 2017		2019 (2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	80,387.30	77,307.91	-3,079.40	-3.83	82,300.33	4,992.42	6.46
Brunei	0.00	0.00	0.00	-	0.00	0.00	-
Cambodia	14,819.02	13,817.26	-1,001.75	-6.76	13,817.26	0.00	0.00
Indonesia	19,053.75	19,341.23	287.49	1.51	22,980.22	3,638.98	18.81
Lao PDR	2,416.04	2,410.00	-6.04	-0.25	1,641.50	-768.50	-31.89
Malaysia	44.23	48.65	4.42	10.00	53.52	4.87	10.00
Myanmar	426.26	398.75	-27.52	-6.45	409.32	10.57	2.65
Philippines	2,792.02	2,753.55	-38.47	-1.38	2,786.88	33.33	1.21
Singapore	-	-	-	-	-	-	-
Thailand	30,495.19	27,875.46	-2,619.73	-8.59	29,974.64	2,099.17	7.53
Vietnam	10,340.80	10,663.00	322.20	3.12	10,637.00	-26.00	-0.24

Table 63 Cassava planted area in ASEAN countries, 2017-2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	change2018 over 2017		2019 (2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	3,758.21	3,588.43	-169.78	-4.52	3,734.96	146.53	4.08
Brunei	-	-	-	-	-	-	-
Cambodia	684.07	613.91	-70.16	-10.26	613.91	0.00	0.00
Indonesia	773.46	792.99	19.52	2.52	894.87	101.88	12.85
Lao PDR	76.00	75.61	-0.39	-0.51	49.00	-26.61	-35.19
Malaysia	3.21	3.34	0.13	4.00	3.47	0.13	4.00
Myanmar	36.69	34.71	-1.97	-5.38	37.29	2.58	7.44
Philippines	234.64	230.60	-4.04	-1.72	236.96	6.35	2.75
Singapore	-	-	-	-	-	-	#-
Thailand	1,426.94	1,314.07	-112.88	-7.91	1,376.26	62.19	4.73
Vietnam	523.20	523.20	0.00	0.00	523.20	0.00	0.00

Table 64 Cassava harvested area in ASEAN countries, 2017-2019

Unit: 1,000 Hectares

Country	2017 (2016/17)	2018 (2017/18)	change2018 over 2017		2019 (2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	3,715.44	3,556.55	-158.88	-4.28	3,701.61	145.06	4.08
Brunei	-	-	-	-	-	-	-
Cambodia	675.13	612.86	-62.27	-9.22	612.86	0.00	0.00
Indonesia	772.98	792.95	19.98	2.58	894.87	101.92	12.85
Lao PDR	76.00	75.61	-0.39	-0.51	49.00	-26.61	-35.19
Malaysia	2.57	2.60	0.04	1.40	2.64	0.04	1.40
Myanmar	36.61	34.70	-1.91	-5.21	37.29	2.59	7.46
Philippines	234.64	230.60	-4.04	-1.72	236.96	6.35	2.75
Singapore	-	-	-	-	-	-	-
Thailand	1,394.32	1,284.02	-110.29	-7.91	1,344.79	60.77	4.73
Vietnam	523.20	523.20	0.00	0.00	523.20	0.00	0.00

Note: Vietnam reported only planted area.

Table 65 Cassava yield in ASEAN countries, 2017-2019

Unit: Ton/Hectare

Country	2017 (2016/17)	2018 (2017/18)	change2018 over 2017		2019 (2018/19)	change2019 over 2018	
			Quantities	(%)		Quantities	(%)
ASEAN	21.64	21.74	0.10	0.46	22.23	0.49	2.25
Brunei	-	-	-	-	-	-	-
Cambodia	21.95	22.55	0.60	2.73	22.55	0.00	0.00
Indonesia	24.65	24.39	-0.26	-1.05	25.68	1.29	5.29
Lao PDR	31.79	31.87	0.08	0.25	33.50	1.63	5.11
Malaysia	17.24	18.70	1.46	8.47	20.28	1.58	8.45
Myanmar	11.64	11.49	-0.15	-1.29	10.98	-0.51	-4.44
Philippines	11.90	11.94	0.04	0.34	11.76	-0.18	-1.51
Singapore	-	-	-	-	-	-	-
Thailand	21.87	21.71	-0.16	-0.73	22.29	0.58	2.67
Vietnam	19.76	20.38	0.62	3.14	20.33	-0.05	-0.25

Note: Yield related to harvested area excepts Vietnam which related to planted

Table 66 Cassava damaged area in ASEAN by cause of damage, 2018

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecitfy	Total
ASEAN	30,089	-	-	-	-	1,787	31,876
Brunei	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	1,051	1,051
Indonesia	35	-	-	-	-	-	35
Lao PDR	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	736	736
Myanmar	8	-	-	-	-	-	8
Philippines	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-
Thailand	30,046	-	-	-	-	-	30,046
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Table 67 Cassava balance sheet of ASEAN countries, 2017 (Cassava roots fresh)

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	9,328,962	80,387,303	15,552,530	105,268,795	47,686,620	40,942,416	16,639,759	105,268,795
Brunei				-			0	-
Cambodia	5,885,758.22	14,819,016		20,704,774	2,535,434	5,088,620	13,080,720	20,704,774
Indonesia	1,903,298	19,053,748	1,551,523	22,508,569	20,679,795	74,524	1,754,251	22,508,569
Lao PDR	376,354	2,416,040		2,792,394	1,996,211	238,293	557,890	2,792,394
Malaysia ^{1/}		44,229		44,229	22,557	21,672	0	44,229
Myanmar	15,763	426,260	640,271.00	1,082,294	1,048,960	3,736	29,598	1,082,294
Philippines		2,792,020	14,648	2,806,668	2,805,323	1,345	0	2,806,668
Singapore			1,160	1,160	1,159.03	1.19	0	1,160
Thailand	697,844	30,495,190	12,000,000	43,193,034	10,900,000	31,600,000	693,034	43,193,034
Vietnam	449,944	10,340,800	1,344,928.19	12,135,672	7,697,182	3,914,225	524,266	12,135,672

Table 68 Cassava balance sheet of ASEAN countries, 2018 (Cassava roots fresh)

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	16,639,759	77,307,907	9,371,604	103,319,269	46,502,947	34,846,538	21,969,785	103,319,269
Brunei	-			-			0	-
Cambodia	13,080,720	13,817,262		26,897,982	2,535,434	6,000,000	18,362,548	26,897,982
Indonesia ^{1/}	1,754,251	19,341,233	1,147,304	22,242,788	20,552,386	63,849	1,626,554	22,242,788
Lao PDR	557,890	2,410,000		2,967,890	2,216,650	63,287	687,953	2,967,890
Malaysia ^{1/}	-	48,652		48,652	24,812	23,840	0	48,652
Myanmar	29,598	398,745	75,341	503,684	488,171	887	14,626	503,684
Philippines ^{1/}	-	2,753,551		2,753,551	2,752,231	1,320	0	2,753,551
Singapore ^{1/}	-		1,200	1,200	1,195.40	4.60	0	1,200
Thailand	693,034	27,875,464	7,500,000	36,068,498	9,900,000	25,600,000	568,498	36,068,498
Vietnam	524,266	10,663,000	647,759	11,835,025	8,032,068	3,093,351	709,606	11,835,025

Note: ^{1/} The value is estimated by AFSIS

Table 69 Cassava balance sheet of ASEAN countries, 2019 (Cassava roots fresh)

Unit: Tons

Country	Supply				Demand			
	Beginning Stock	Production	Imports	Total	Domestic Utilization	Exports	Ending stock	Total
ASEAN	21,969,785	82,300,331	8,508,504	112,778,620	50,209,024	36,718,095	25,851,502	112,778,620
Brunei	-			-			0	-
Cambodia ^{1/}	18,362,548	13,817,262		32,179,810	2,535,434	6,000,000	23,644,376	32,179,810
Indonesia ^{1/}	1,626,554	22,980,218	1,147,304	25,754,076	24,191,371	63,849	1,498,856	25,754,076
Lao PDR	687,953	1,641,500		2,329,453	2,137,089	156,892	35,472	2,329,453
Malaysia ^{1/}	-	53,517		53,517	27,294	26,223	0	53,517
Myanmar ^{1/}	14,626	409,315		423,941	411,223	1,463	11,255	423,941
Philippines ^{1/}	-	2,786,883		2,786,883	2,785,548	1,335	0	2,786,883
Singapore ^{1/}	-		1,200	1,200	1,195	5	0	1,200
Thailand	568,498	29,974,636	6,500,000	37,043,134	10,100,000	26,900,000	43,134	37,043,134
Vietnam	709,606	10,637,000	860,000	12,206,606	8,019,869	3,568,327	618,409	12,206,606

Note: ^{1/} The value is estimated by AFSIS, n.a. = not available

Table 70 Ratio of cassava production to domestic utilization in ASEAN countries (Self-sufficiency ratio), 2017-2019

Unit: Tons

Country	2017			2018			2019		
	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)	Production	Domestic Utilization	Ratio (%)
ASEAN	80,387,303	47,686,620	168.57	77,307,907	46,502,947	166.24	82,300,331	50,209,024	163.92
Brunei									
Cambodia	14,819,016	2,535,434	584.48	13,817,262	2,535,434	544.97	13,817,262	2,535,434	544.97
Indonesia	19,053,748	20,679,795	92.14	19,341,233	20,552,386	94.11	22,980,218	24,191,371	94.99
Lao PDR	2,416,040	1,996,211	121.03	2,410,000	2,216,650	108.72	1,641,500	2,137,089	76.81
Malaysia	44,229	22,557	196.08	48,652	24,812	196.08	53,517	27,294	196.08
Myanmar	426,260	1,048,960	40.64	398,745	488,171	81.68	409,315	411,223	99.54
Philippines	2,792,020	2,805,323	99.53	2,753,551	2,752,231	100.05	2,786,883	2,785,548	100.05
Singapore	-	1,159	0.00	-	1,195	0.00	-	1,195	0.00
Thailand	30,495,190	10,900,000	279.77	27,875,464	9,900,000	281.57	29,974,636	10,100,000	296.78
Vietnam	10,340,800	7,697,182	134.35	10,663,000	8,032,068	132.76	10,637,000	8,019,869	132.63

Table 71 Ratio of cassava beginning stock to domestic utilization in ASEAN countries (Food security ratio), 2017-2019

Unit: Tons

Country	2017			2018			2019		
	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)	Beginning Stock	Domestic Utilization	Ratio (%)
ASEAN	9,328,962	47,686,620	19.56	16,639,759	46,502,947	35.78	21,969,785	50,209,024	43.76
Brunei									
Cambodia	5,885,758	2,535,434	232.14	13,080,720	2,535,434	515.92	18,362,548	2,535,434	724.24
Indonesia	1,903,298	20,679,795	9.20	1,754,251	20,552,386	8.54	1,626,554	24,191,371	6.72
Lao PDR	376,354	1,996,211	18.85	557,890	2,216,650	25.17	687,953	2,137,089	32.19
Malaysia	-	22,557	0.00	-	24,812	0.00	-	27,294	-
Myanmar	15,763	1,048,960	1.50	29,598	488,171	6.06	14,626	411,223	3.56
Philippines	-	2,805,323	0.00	-	2,752,231	0.00	-	2,785,548	-
Singapore	-	1,159	0.00	-	1,195	0.00	-	1,195	-
Thailand	697,844	10,900,000	6.40	693,034	9,900,000	7.00	568,498	10,100,000	5.63
Vietnam	449,944	7,697,182	5.85	524,266	8,032,068	6.53	709,606	8,019,869	8.85

Table 72 Quantity and Value of Cassava Export by Countries of Destination in 2018

Quantity: Tons Values: US\$

Exporting Country	Country of Destination													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei														
Cambodia														
Indonesia													544	213,200
Lao PDR														
Malaysia														
Myanmar									192	67,400				
Philippines														
Singapore					2	1			0	1				
Thailand	955	120,323	355	86,578	697,808	86,338,616	6,447	720,978	550,799	61,673,668	7,616	948,542	202,559	22,791,244
Vietnam														

Exporting Country	Country of Destination						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei							0	0			0	0
Cambodia							0	0			0	0
Indonesia					116	334,237	660	547,437	5,738	4,444,446	6,399	4,991,883
Lao PDR					63,287	14,273,200	63,287	14,273,200			63,287	14,273,200
Malaysia		100,960					0	100,960			0	100,960
Myanmar							192	67,400	695	29,000	887	96,400
Philippines							0	0	123	120,534	123	120,534
Singapore							2	2			2	2
Thailand	111,920	11,756,427			52,111	8,424,994	1,630,572	192,861,370	10,613,521	1,181,541,093	12,244,092	1,374,402,463
Vietnam							0	0			0	0

Remark: The data in this table is obtained from national focal points of member.

Table 73 Quantity and Value of Cassava Import by Countries of Origin in 2018

Quantity: Tons Values: US\$

Importing Country	Country of Origin													
	Brunei		Cambodia		Indonesia		Lao PDR		Malaysia		Myanmar		Philippines	
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei														
Cambodia														
Indonesia														
Lao PDR														
Malaysia						38,407								
Myanmar														
Philippines														
Singapore					2.00	322			554	137,006				
Thailand			843,179	56,820,447	882	131,093	745,555	51,485,643	144	91,280	17	2,880	16	4,831
Vietnam														

Importing Country	Country of Origin						Total within ASEAN		Total outside ASEAN		Total	
	Singapore		Thailand		Vietnam							
	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values	Quantity	Values
Brunei							-	0			-	0
Cambodia							0	0			0	0
Indonesia			169,690	85,429,226	21,785	10,093,208	191,475	95,522,434	379	161,648	191,854	95,684,082
Lao PDR							0	0			0	0
Malaysia				8,313		89,569	0	136,290		2,913,355	0	3,049,645
Myanmar			75,338	199,337.65			75,338	199,338	3	4,999	75,341	204,336
Philippines							0	0			0	0
Singapore			-	334			556	137,662	1	1,512	557	139,174
Thailand	12.87	6,012			633	48,306	1,590,439	108,590,492	28,491	9,845,009	1,618,930	118,435,501
Vietnam							0	0			0	0

Remark: The data in this table is obtained from national focal points of member

Table 74 FOB Price of Cassava in selected ASEAN countries

Unit: US\$/Ton

Country	Product	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Cambodia	pellets	2017	564	592	539	571	547	605	590	590	580	501	494	496	556
	Shredded	2017	193	195	185	195	190	179	198	205	174	210	260	263	204
Indonesia	Flour	2017	451	508	561	519	625	540	585	515	264	280	290	556	474
		2018	564	628	612	1,095	899	726	844						767
Malaysia	Not specified	2017						691	498		825				671
Myanmar		2017	347	174	345		345	345		41	41	159			225
		2018		354		266			333						318
Thailand	Starch	2017	314	319	321	326	325	330	328	327	325	329	361	379	332
		2018	415	434	468	494	524	526	494	479	472				478
	Pellets	2017	178	-	205	206	-	212	167	158	166	209	175	241	192
		2018	236	263	258	221	265	291	259	262	253				257
	Shredded	2017	172	165	162	163	159	161	161	165	166	169	186	186	168
		2018	213	216	221	230	239	236	235	227	236				228

Table 75 CIF Price of Cassava in selected ASEAN countries

Unit: US\$/Ton

Country	Product	Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average
Indonesia	Flour	2017	303	313	319	325	330	335	339	335	327	334	342	350	329
		2018	419	432	465	495	536	564	555						495
Malaysia	Not specified	2017	397	433	367	385	390	400	365	385	390	379	376	385	388
Singapore	Not specified	2017	259	252	255	230	226	223	231	239	241	234	240	227	238
		2018	251	247	246	253	253	250							250

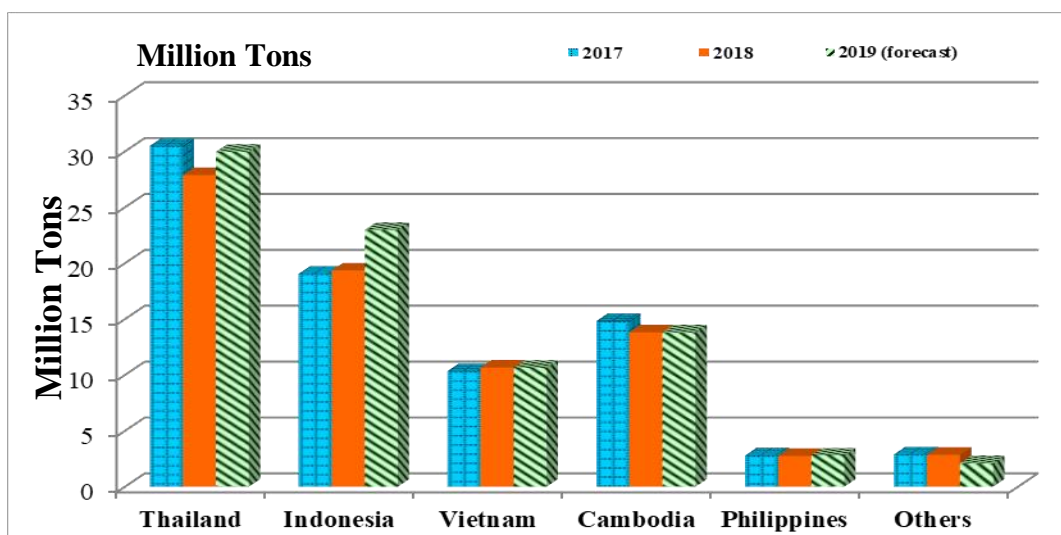


Figure 62 Cassava production of selected countries in ASEAN, 2017-2019

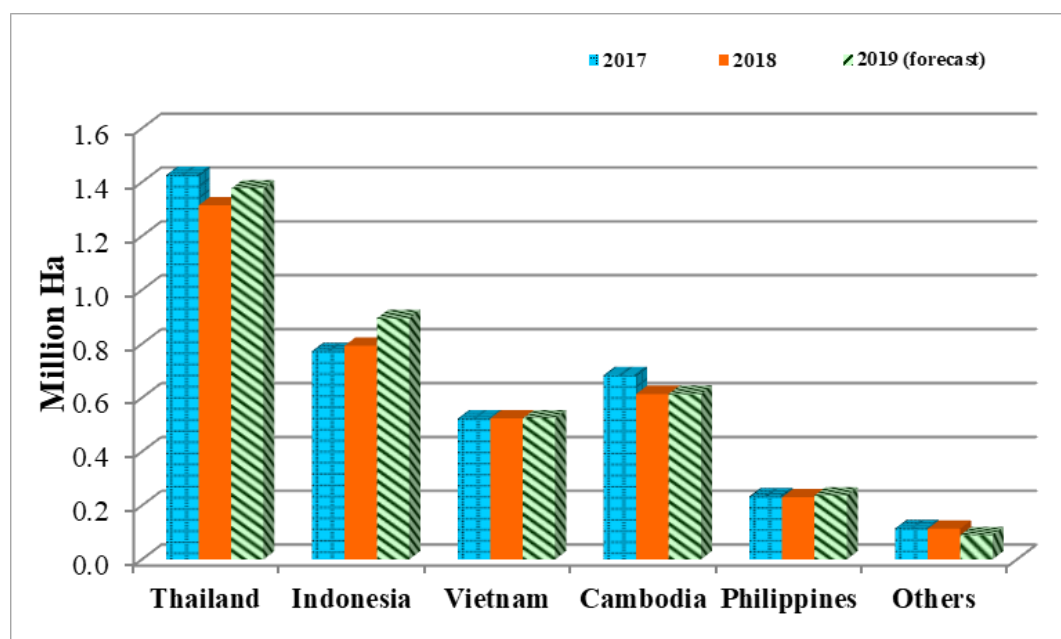


Figure 63 Cassava planted area of selected countries in ASEAN, 2017-2019

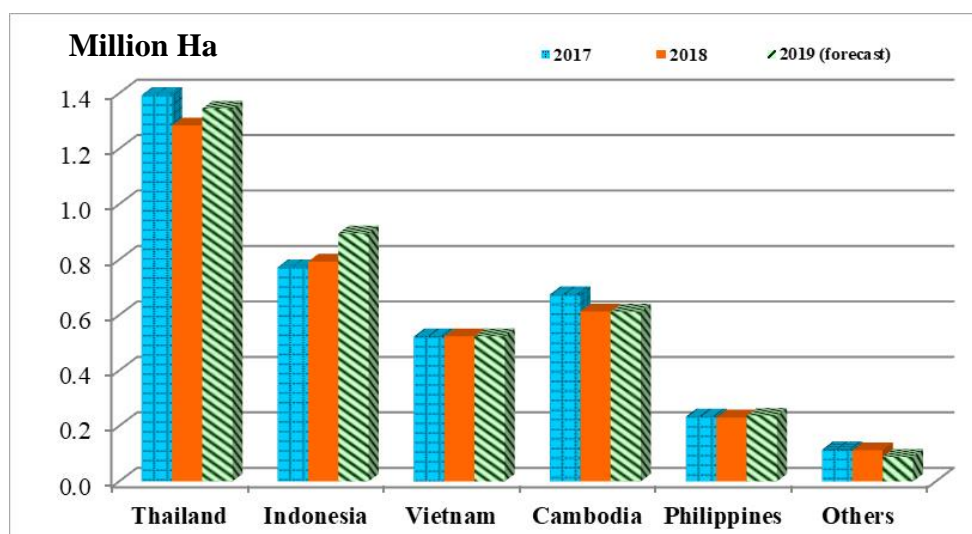


Figure 64 Cassava harvested area of selected countries in ASEAN, 2017-2019

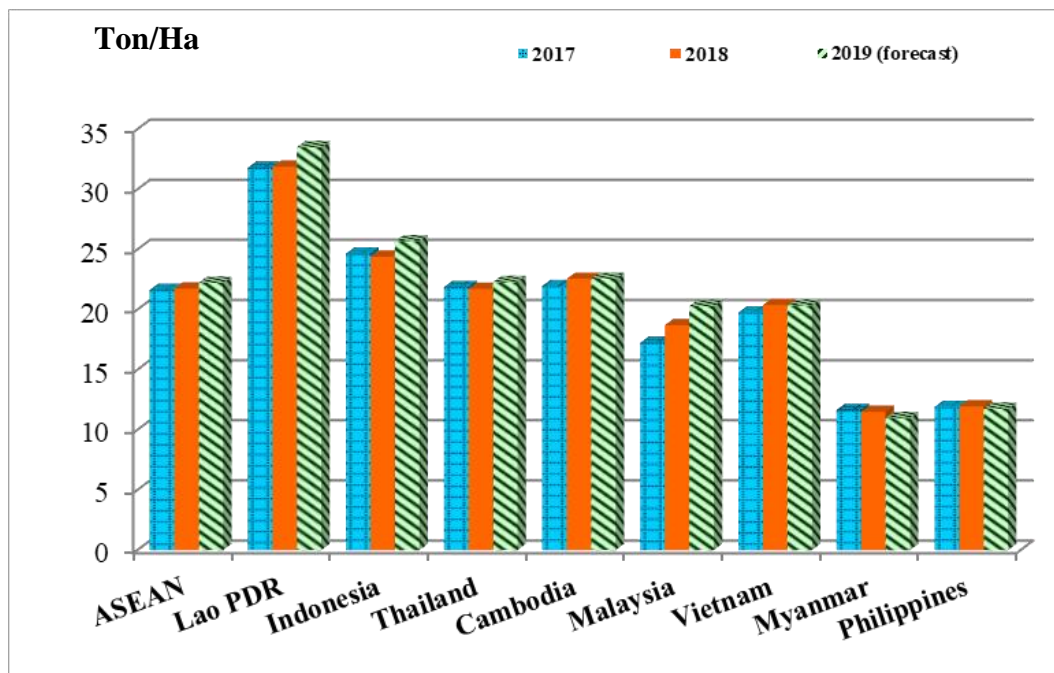


Figure 65 Cassava yield of countries in ASEAN, 2017-2019

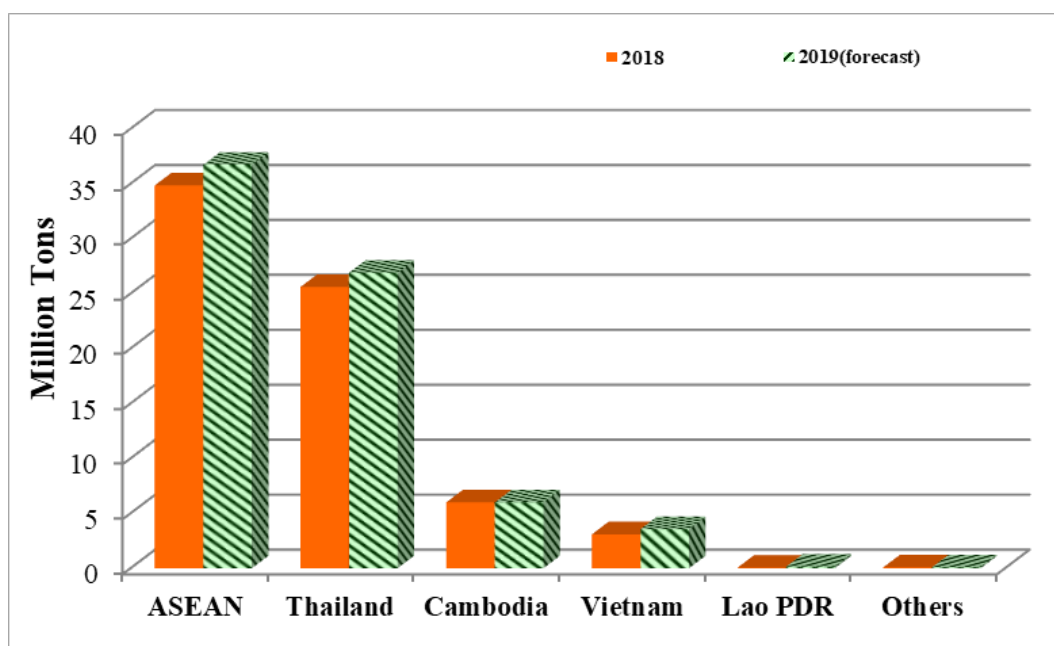


Figure 66 Amount of cassava export (million tons) of selected countries in ASEAN in 2018-2019

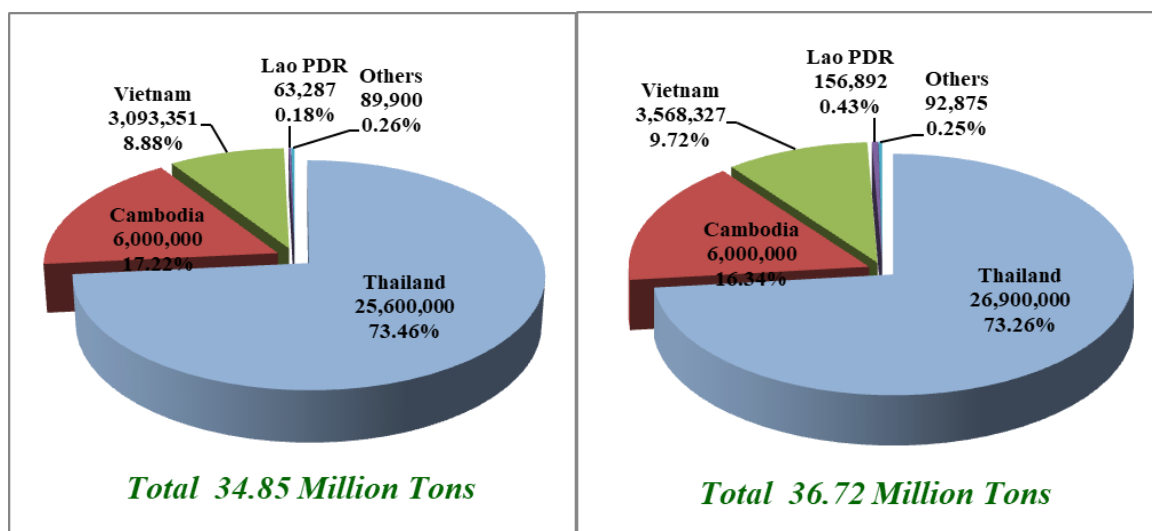


Figure 67 Share of cassava export (tons) among ASEAN countries, 2018

Figure 68 Share of cassava export (tons) among ASEAN countries, 2019

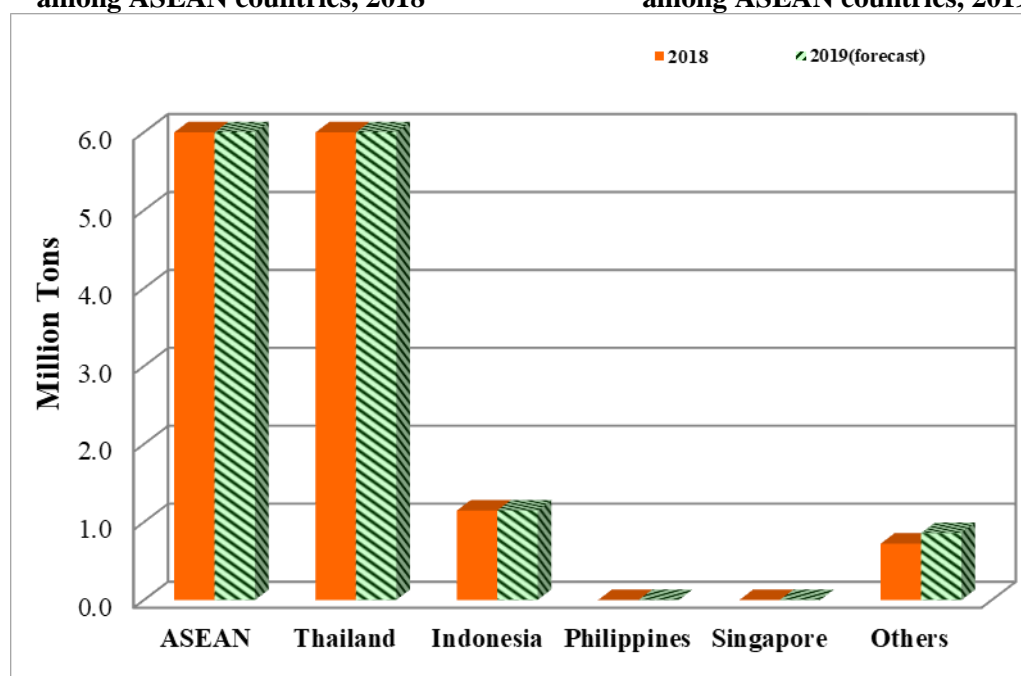


Figure 69 Amount of cassava import (million tons) by selected countries in ASEAN in 2018-2019

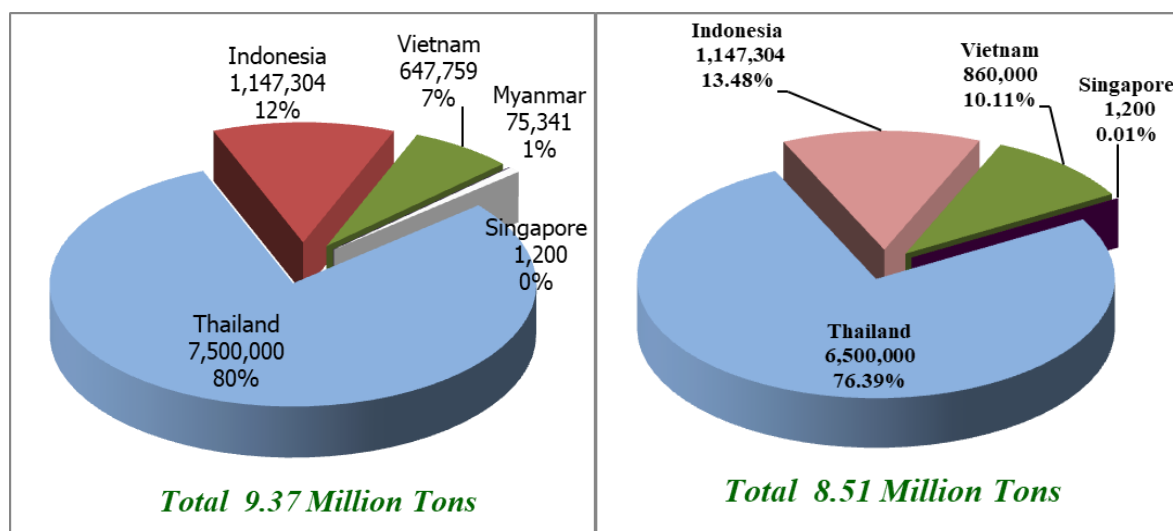


Figure 70 Share of cassava import (tons) among ASEAN countries, 2018

Figure 71 Share of cassava import (tons) among ASEAN countries, 2019

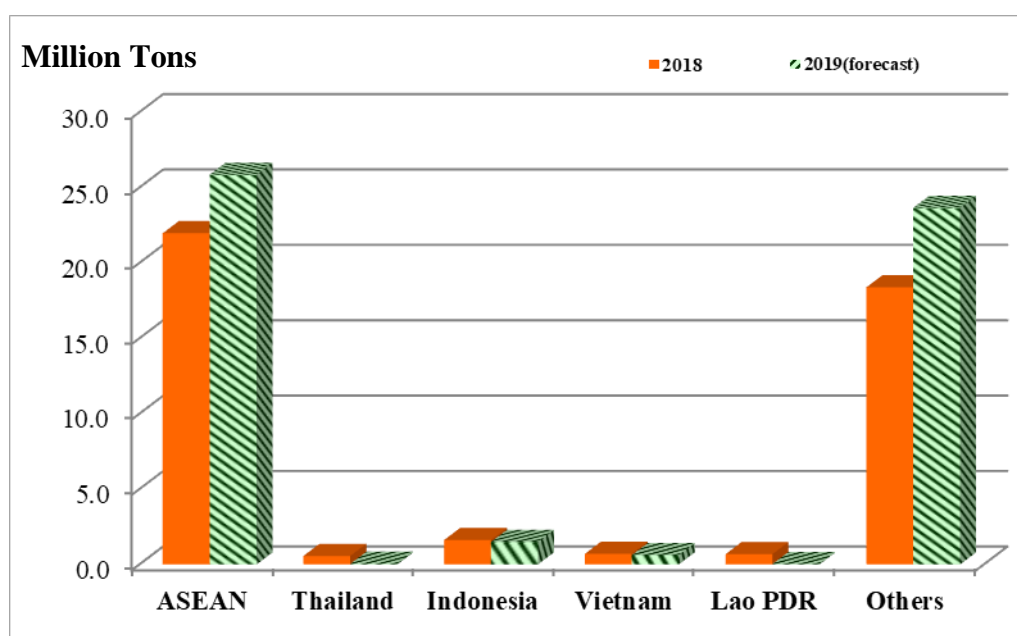


Figure 72 Amount of ending stock of cassava in ASEAN countries in 2018-2019

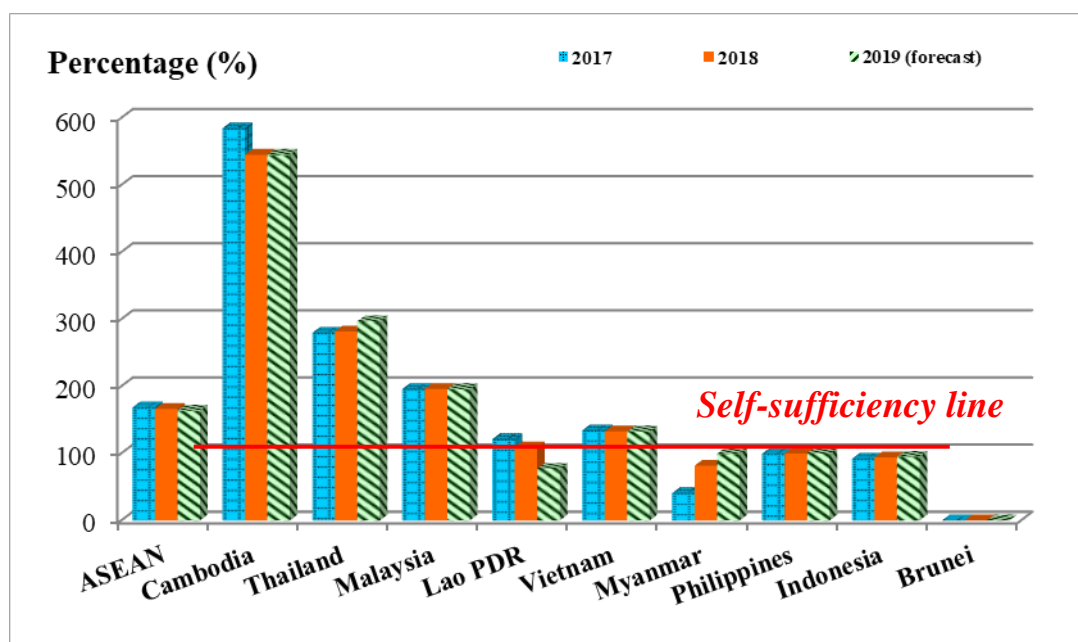


Figure 73 Ratio of cassava production to domestic utilization in ASEAN countries, 2017-2019

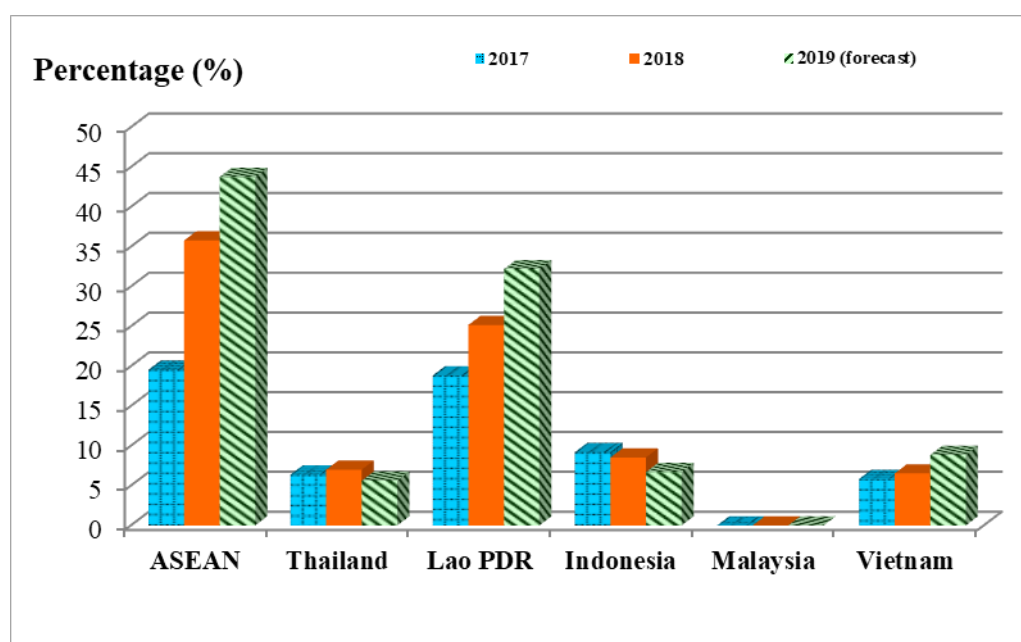


Figure 74 Ratio of cassava beginning stock to domestic utilization in ASEAN countries, 2017-2019

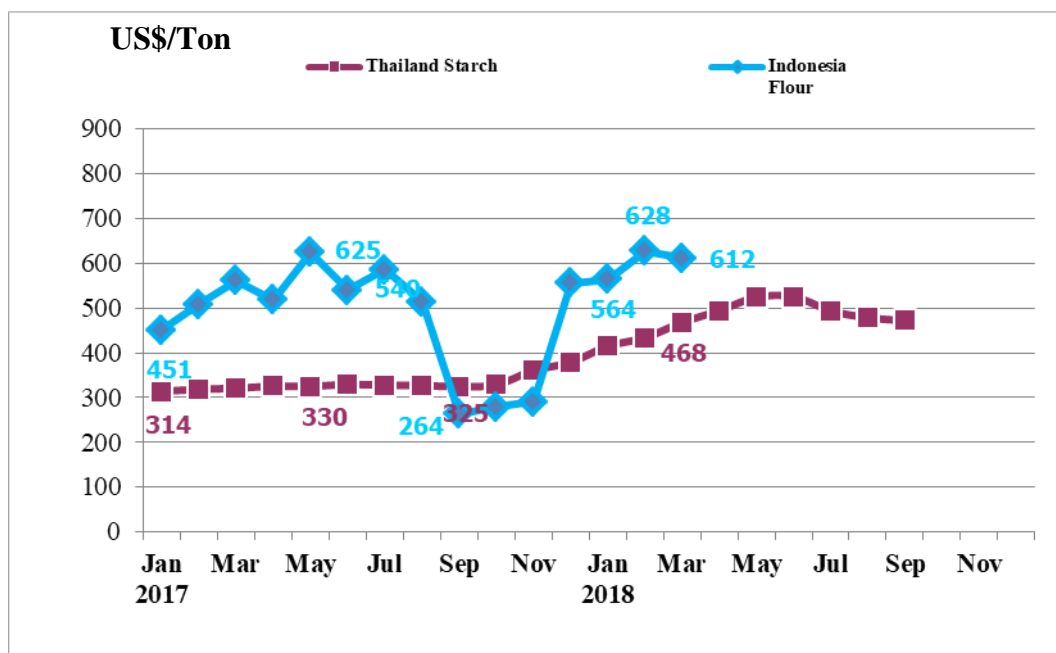


Figure 75 FOB price (US\$/Ton) of cassava flour of selected countries in ASEAN in 2017-2018

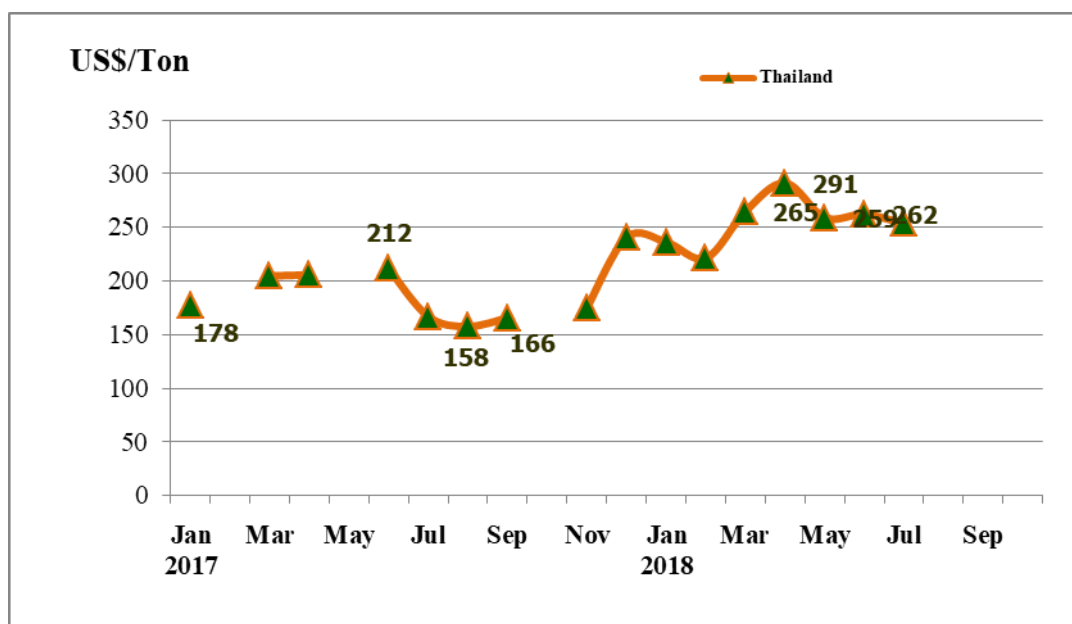


Figure 76 FOB price (US\$/Ton) of cassava pellets of selected countries in ASEAN in 2017-2018

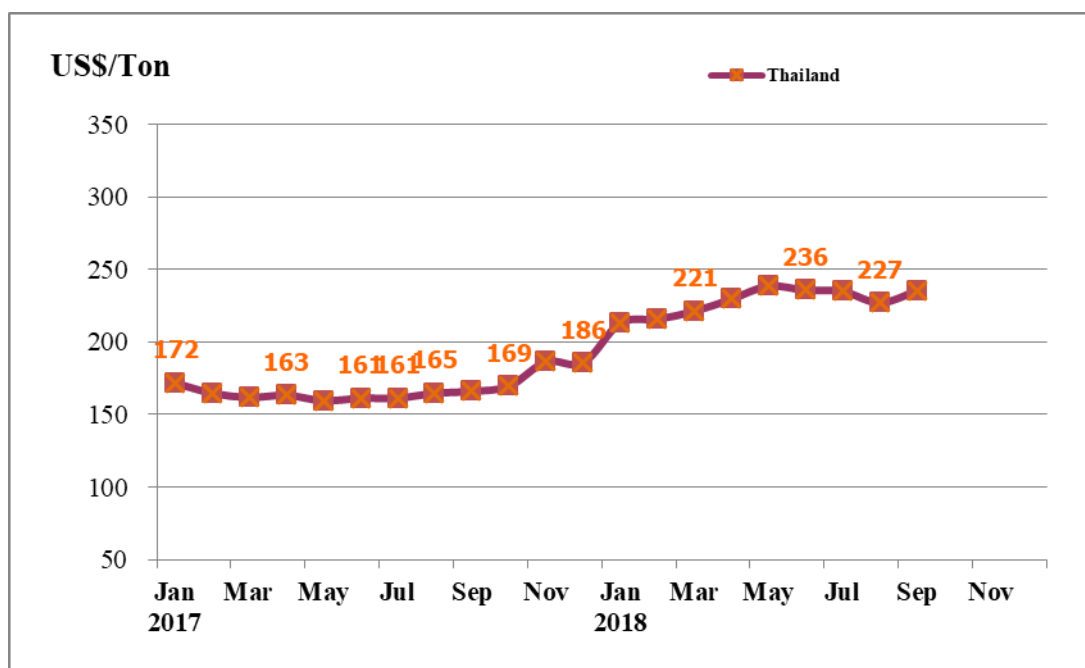


Figure 77 FOB price (US\$/Ton) of cassava shredded of selected countries in ASEAN in 2017-2018

Explanatory Notes Production of Paddy for 2018

Brunei:

- Wet season refers to the crop harvested during January to June 2018.
- Dry season refers to the crop harvested during July to December 2018.

Cambodia:

- Wet season refers to the crop harvested during August to December 2017.
- Dry season refers to the crop harvested during January to March 2018.

Indonesia:

- Wet season refers to the crop harvested during January to April and September to December 2018.
- Dry season refers to the crop harvested during May to August 2018.

Lao PDR:

- Wet season refers to the crop harvested during September 2017 to January 2018.
- Dry season refers to the crop harvested during February to May 2018.

Malaysia:

- Wet season refers to the crop harvested during December 2017 to June 2018.
- Dry season refers to the crop harvested during July to November 2018.

Myanmar:

- Wet season refers to the crop harvested during September 2017 to January 2018.
- Dry season refers to the crop harvested during January to August 2018.

Philippines:

- Wet season refers to the crop harvested during August to December 2017.
- Dry season refers to the crop harvested during January to June 2018.

Thailand:

- Wet season refers to the crop harvested during August 2017 to April 2018.
- Dry season refers to the crop harvested during February to May 2018.

Vietnam:

Spring-season

- North refers to the crop harvested during June to July 2018.
- South refers to the crop harvested during March to May 2018.

Autumn-season

- North refers to the crop harvested during August to September 2018.
- South refers to the crop harvested during July to September 2018.

Winter-season

- North refers to the crop harvested during October to November 2018.
- South refers to the crop harvested during October 2018 to January 2018.

Production of Maize for 2018

Cambodia:

- Wet season refers to the crop harvested during August to October 2018.
- Dry season refers to the crop harvested during February to March 2018.

Indonesia:

- 1st crop harvested during January to April 2018.
- 2nd crop harvested during May to August 2018.
- 3rd crop harvested during September to December 2018.

Lao PDR:

- Wet season refers to the crop harvested during June to July 2018.
- Dry season refers to the crop harvested during September to December 2018.

Myanmar:

- Wet season refers to the crop harvested during August to November 2017.
- Dry season refers to the crop harvested during January to March 2018.

Philippines:

- Wet season refers to the crop harvested during July to December 2018.
- Dry season refers to the crop harvested during January to June 2018.

Thailand:

- Wet season refers to the crop harvested during June 2018 to February 2019.
- Dry season refers to the crop harvested during February to May 2018.

Vietnam:

- 1st crop harvested during January to March 2018.
- 2nd crop harvested during April to September 2018.
- 3rd crop harvested during July 2018 to January 2019.

Production of Sugarcane for 2018

Cambodia:

- The crop harvested during October to December 2018.

Indonesia:

- The crop harvested during January to December 2018.

Lao PDR:

- The crop harvested during December 2017 to June 2018.

Myanmar:

- The crop harvested during October 2017 to March 2018.

Philippines:

- The crop harvested during October 2017 to June 2018.

Thailand:

- The crop harvested during November 2017 to May 2018.

Vietnam:

- The crop harvested during November 2017 to May 2018.

Production of Soybeans for 2018

Cambodia:

- The crop harvested during November to December 2018.

Indonesia:

- 1st crop harvested during January to April 2018.
- 2nd crop harvested during May to August 2018.
- 3rd crop harvested during September to December 2018.

Lao PDR:

- Wet season refers to the crop harvested during September to October 2018.
- Dry season refers to the crop harvested during January to March 2018.

Myanmar:

- Wet season refers to the crop harvested during August to December 2017.
- Dry season refers to the crop harvested during January to March 2018.

Philippines:

- Wet season refers to the crop harvested during July to December 2018.
- Dry season refers to the crop harvested during January to June 2018.

Thailand:

- Wet season refers to the crop harvested during August to December 2018.
- Dry season refers to the crop harvested during January to May 2018.

Vietnam:

- Wet season refers to the crop harvested during February to May 2018.
- Dry season refers to the crop harvested during August to November 2018.

Production of Cassava for 2018

Cambodia:

- The crop harvested during half November to December 2018.

Indonesia:

- 1st crop harvested during January to April 2018.
- 2nd crop harvested during May to August 2018.
- 3rd crop harvested during September to December 2018.

Lao PDR:

- The crop harvested during December 2017 to February 2018.

Malaysia:

- The crop harvested during October 2017 to December 2018.

Myanmar:

- The crop harvested during November 2017 to February 2018.

Philippines:

- 1st crop harvested during January to June 2018.
- 2nd crop harvested during July to December 2018.

Thailand:

- The crop harvested during October 2017 to September 2018.

Vietnam:

- North refers to the crop harvested during February to March 2018.
- South refers to the crop harvested during September to October 2018.

Domestic Utilization, Stock, Import and Export: refer to calendar year

n.a.: The data is not available due to no collecting or reporting systems in the country yet.

nil: Small amount

Milling Rate of Rice (2018)

Unit: Tons

Country	Paddy	Rice
ASEAN	1	0.64
Cambodia	1	0.68
Indonesia	1	0.63
Lao PDR	1	0.60
Malaysia	1	0.63
Myanmar	1	0.63
Philippines	1	0.68
Thailand	1	0.66
Vietnam	1	0.65

Extraction rate of Sugar (2018)

Unit: Tons

Country	Sugarcane	Sugar
ASEAN	1,000	99.42
Cambodia	1,000	100.00
Indonesia	1,000	68.24
Lao PDR	1,000	200.00
Myanmar	1,000	80.00
Philippines	1,000	87.79
Thailand	1,000	108.90
Vietnam	1,000	100.00

ANNEX 1

Rice crop calendar (harvested months) for crop year 2017/18 (2018) in ACO No.20 report

Country		2017					2018												2019	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Brunei	Wet season						←→													
	Dry season												←→							
Cambodia	Wet season	←→																		
	Dry season						←→													
Indonesia	Wet season						←→								←→					
	Dry season										←→									
Lao PDR	Wet season		←→																	
	Dry season						←→													
Malaysia	Wet season						←→													
	Dry season												←→							
Myanmar	Wet season		←→																	
	Dry season						←→													
Philippines	Wet season	←→																		
	Dry season						←→													
Thailand	Wet season	←→																		
	Dry season							←→												
Vietnam	Spring							← South				North →								
	Autumn													← North						
	Winter															← North				
																		← South		

ANNEX 2

Maize crop calendar (harvested months) for crop year 2017/18 (2018) in ACO No.20 report

Country	Crop	2017					2018										2019			
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Cambodia	Wet season																			
	Dry season																			
Indonesia	1st																			
	2nd																			
	3rd																			
Lao PDR	Wet season																			
	Dry season																			
Myanmar	Wet season																			
	Dry season																			
Philippines	Wet season																			
	Dry season																			
Thailand	Wet season																			
	Dry season																			
Vietnam	1st																			
	2nd																			
	3rd																			

ANNEX 3

Sugarcane crop calendar (harvested months) for crop year 2017/18 (2018) in ACO No.20 report

Country	Crop	2017				2018											
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cambodia																	
Indonesia																	
Lao PDR																	
Myanmar																	
Philippines																	
Thailand																	
Vietnam																	



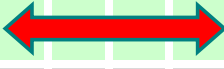





ANNEX 4

Soybean crop calendar (harvested months) for crop year 2017/18 (2018) in ACO No.20 report

Country	Crop	2017					2018											
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cambodia																		
Indonesia	1st																	
	2nd																	
	3rd																	
Lao PDR	Wet season																	
	Dry season																	
Myanmar	Wet season																	
	Dry season																	
Philippines	Wet season																	
	Dry season																	
Thailand	Wet season																	
	Dry season																	
Vietnam	Wet season																	
	Dry season																	

ANNEX 5

Cassava crop calendar(harvested months) for crop year 2017/18 (2018) in ACO No.20 report

Country	Crop	2017				2018											
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cambodia																	
Indonesia	1st																
	2nd																
	3rd																
Lao PDR																	
Malaysia																	
Myanmar																	
Philippines	1st																
	2nd																
Thailand																	
Vietnam	North																
	South													