



## *ASEAN Food Security Information System*



# **ASEAN Early Warning Information**

## **No. 23 September 2019**

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



## ASEAN Rice Situation in 2019

### Production

ASEAN paddy production in 2019 (crop year 2018/19) was estimated to be 202.12 million tons, an increase of 4.27 million tons or 2.16 percent compared to 2018 (crop year 2017/18) due to the increase in planted area. Most of the producing countries expected an increase in production except Myanmar, the Philippines, Thailand and Vietnam (Table 1 - 4, Figure 1 - 4).

For **Brunei**, the estimated production was 0.0026 million tons, an increase in production came from the increase in planted area and yield. The increase in planted area came from favorable weather together with government policy. The increase in yield was due to the farmers used more fertilizer, used more improved varieties, and better taking care of the rice crop as well as favorable weather.

For **Cambodia**, the estimated production was 10.89 million tons, an increase in production is attributed to the increase in planted area and yield. The increase in planted area came from favorable weather and government policy. The increase in yield was due to the favorable weather and farmers used more improved varieties.

For **Indonesia**, the estimated production was 61.45 million tons, an increase in production came from the increase in planted area which was due to favorable weather together with government policy.

For **Lao PDR**, the estimated production was 4.40 million tons, an increase in production came from the increase in planted area and yield. The increase in planted area came from government policy. The increase in yield was due to the farmers used more improved varieties and taking better care of the rice crop.

For **Malaysia**, the estimated production was 2.91 million tons, an increase in production came from the increase in yield which was due to farmers used more improved varieties and taking better care of the rice crop.

For **Myanmar**, the estimated production was 27.54 million tons, a slightly decrease in production was due to the decrease in planted area and yield. The decrease in the planted area of the first crop caused by farmers' response to the price decrease as well as unfavorable weather. The yield of the second crops has decreased due to unfavorable weather.

For **the Philippines**, the estimated production was 18.62 million tons, the decrease in production was due to the decrease in planted area and yield. The decline in yield was affected by flood from Typhoon Ompong (locally name of Typhoon Mangkhut) and Habagat (or South - West Monsoon) in wet season and by drought in dry season.

For **Thailand**, the estimated production was 32.59 million tons, a decrease in production came from the decline in yield due to unfavorable weather and drought.

For **Vietnam**, the estimated production was 43.71 million tons, the decrease in production was due to the decrease in planted area. The decrease in planted area of spring crop was due to unfavorable weather and government policy.



## Damaged Area

The damaged area of paddy in ASEAN in 2019 (crop year 2018/19) was reported to be 0.91 million hectares. Approximately 65.62 percent or 0.60 million hectares of the damaged area caused by drought which has occurred mostly in Thailand about 0.53 million hectares. The rest of damage was caused by many factors such as flood and pests (Table 5, Figure 5).

**Table 1 Paddy production in ASEAN countries, 2018 - 2020**

Unit: 1,000 Tons

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>197,854.02</b>	<b>202,119.45</b>	<b>4,265.43</b>	<b>2.16</b>	<b>203,463.36</b>	<b>1,343.90</b>	<b>0.66</b>
Brunei	2.41	2.60	0.19	7.67	3.49	0.89	34.20
Cambodia	10,518.34	10,891.74	373.40	3.55	10,438.04	-453.69	-4.17
Indonesia	57,468.84	61,448.45	3,979.61	6.92	64,776.76	3,328.31	5.42
Lao PDR	3,279.11	4,400.00	1,120.89	34.18	4,744.45	344.45	7.83
Malaysia	2,639.20	2,912.20	273.00	10.34	3,083.36	171.15	5.88
Myanmar	27,647.66	27,544.21	-103.45	-0.37	27,442.39	-101.81	-0.37
Philippines	19,420.38	18,622.25	-798.13	-4.11	18,356.50*	-265.75	-1.43
Singapore	N/A						
Thailand	32,898.90	32,586.81	-312.10	-0.95	30,543.27	-2,043.54	-6.27
Vietnam	43,979.17	43,711.20	-267.97	-0.61	44,075.10	363.90	0.83

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 2 Paddy planted area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>46,921.35</b>	<b>47,937.58</b>	<b>1,016.23</b>	<b>2.17</b>	<b>48,052.84</b>	<b>115.26</b>	<b>0.24</b>
Brunei	1.28	1.32	0.04	3.00	1.35	0.04	3.00
Cambodia	3,206.52	3,335.93	129.41	4.04	3,031.24	-304.69	-9.13
Indonesia	10,990.01	11,967.79	977.78	8.90	12,793.15	825.36	6.90
Lao PDR	948.00	1,050.00	102.01	10.76	1,061.92	11.92	1.14
Malaysia	699.98	684.42	-15.56	-2.22	683.86	-0.56	-0.08
Myanmar	7,256.29	7,228.27	-28.02	-0.39	7,201.58	-26.69	-0.37
Philippines	4,843.92	4,741.26	-102.66	-2.12	4,690.06*	-51.20	-1.08
Singapore	N/A						
Thailand	11,406.05	11,428.71	22.66	0.20	11,013.86	-414.85	-3.63
Vietnam	7,569.31	7,499.90	-69.41	-0.92	7,575.82	75.92	1.01

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.



**Table 3 Paddy harvested area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>46,037.01</b>	<b>47,065.50</b>	<b>1,028.49</b>	<b>2.23</b>	<b>47,185.98</b>	<b>120.48</b>	<b>0.26</b>
Brunei	1.16	1.20	0.03	3.00	1.23	0.04	3.00
Cambodia	3,189.49	3,248.06	58.58	1.84	3,025.29	-222.77	-6.86
Indonesia	10,990.01	11,967.79	977.78	8.90	12,793.15	825.36	6.90
Lao PDR	854.61	1,050.00	195.40	22.86	1,061.92	11.92	1.14
Malaysia	699.86	682.01	-17.85	-2.55	681.46	-0.56	-0.08
Myanmar	7,168.97	7,149.64	-19.33	-0.27	7,129.85	-19.79	-0.28
Philippines	4,843.92	4,741.26	-102.66	-2.12	4,690.06*	-51.20	-1.08
Singapore	N/A						
Thailand	10,719.70	10,725.65	5.95	0.06	10,227.22	-498.43	-4.65
Vietnam	7,569.31	7,499.90	-69.41	-0.92	7,575.82	75.92	1.01

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 4 Paddy yield in ASEAN countries, 2018 - 2020**

Unit: Tons/Hectare

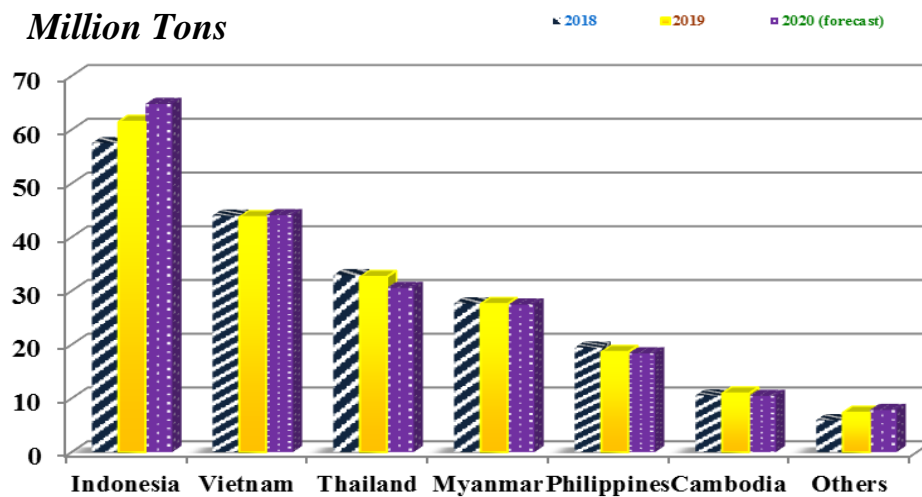
Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>4.30</b>	<b>4.29</b>	<b>-0.01</b>	<b>-0.23</b>	<b>4.31</b>	<b>0.02</b>	<b>0.47</b>
Brunei	2.08	2.17	0.09	4.33	2.83	0.66	30.41
Cambodia	3.30	3.35	0.05	1.52	3.45	0.10	2.99
Indonesia	5.23	5.13	-0.10	-1.91	5.06	-0.07	-1.36
Lao PDR	3.84	4.19	0.35	9.11	4.47	0.28	6.68
Malaysia	3.77	4.27	0.50	13.26	4.52	0.25	5.85
Myanmar	3.86	3.85	-0.01	-0.26	3.85	0.00	0.00
Philippines	4.01	3.93	-0.08	-2.00	3.91*	-0.02	-0.51
Singapore	N/A						
Thailand	3.07	3.04	-0.03	-0.98	2.99	-0.05	-1.64
Vietnam	5.81	5.83	0.02	0.34	5.82	-0.01	-0.17

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

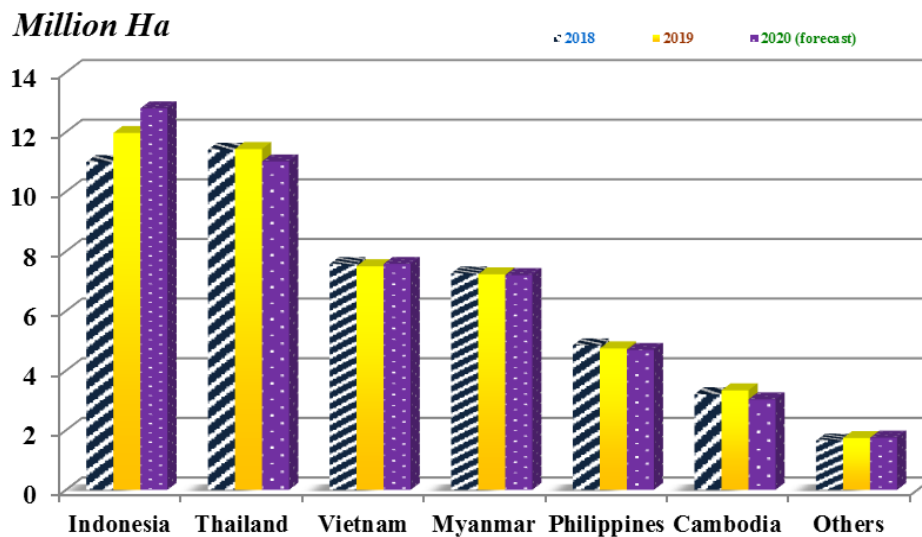
**Table 5 Paddy damaged area in ASEAN by cause of damage, 2019**

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Other	Unspecified	Total
<b>ASEAN</b>	<b>240,083</b>	<b>598,006</b>	<b>70,336</b>	<b>24</b>	<b>2,402</b>	<b>481</b>	<b>911,333</b>
Brunei		71	24	24			120
Cambodia	65,959	61,226	1				127,186
Indonesia	N/A						
Lao PDR	N/A						
Malaysia					2,402	2,402	4,804
Myanmar	68,665	9,414	5			481	78,565
Philippines	N/A						
Singapore	N/A						
Thailand	105,459	527,295	70,306				703,060
Vietnam	N/A						

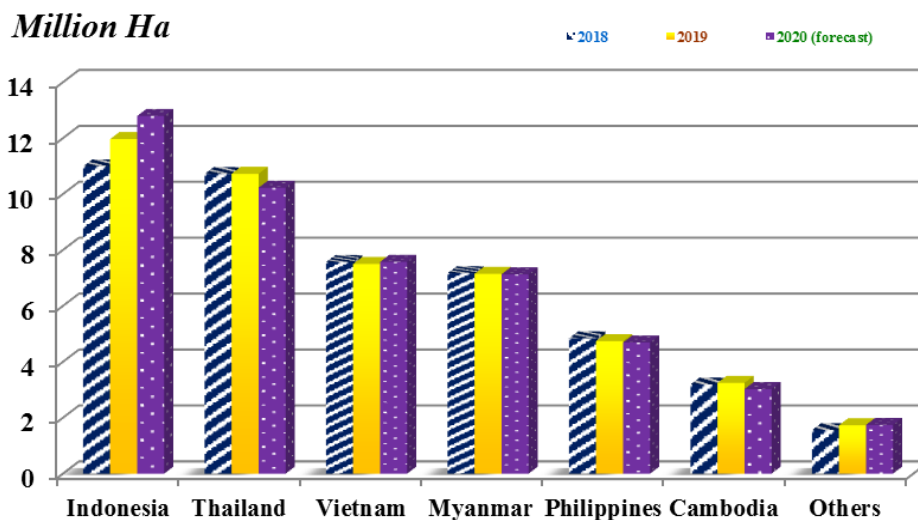




**Figure 1 Paddy production of selected countries in ASEAN, 2018 - 2020**



**Figure 2 Paddy planted area of selected countries in ASEAN, 2018 - 2020**



**Figure 3 Paddy harvested area of selected countries in ASEAN, 2018 - 2020**



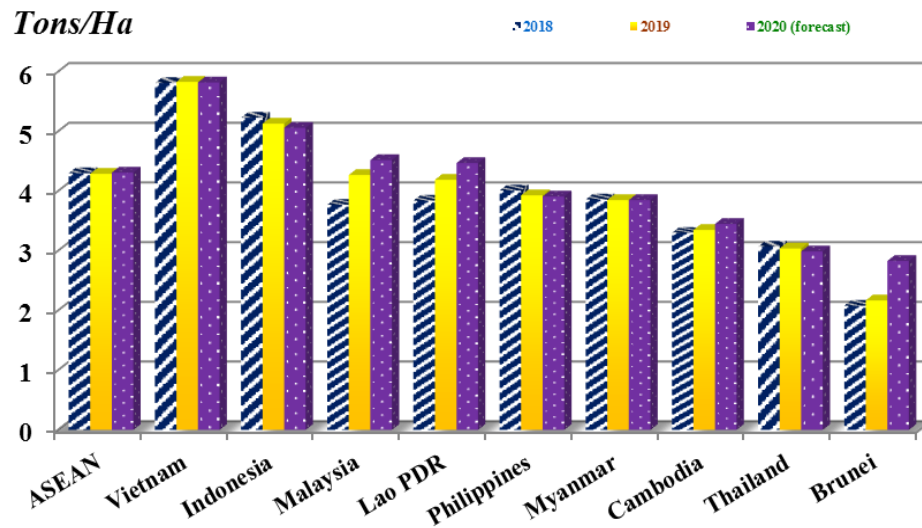


Figure 4 Paddy yield of countries in ASEAN, 2018 - 2020

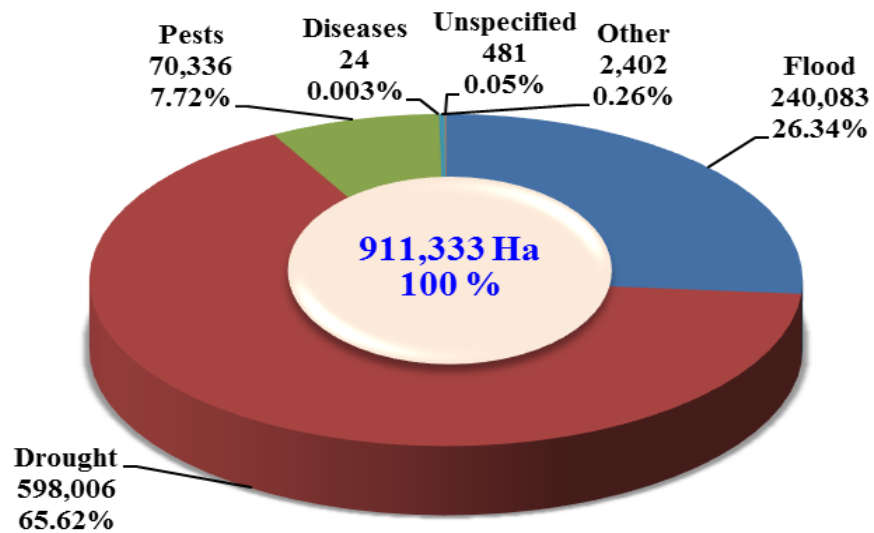


Figure 5 Paddy damaged area in ASEAN by cause of damage, 2019 (crop year 2018/19)

## ASEAN Maize Situation in 2019

### Production

The maize production in ASEAN in 2019 (crop year 2018/19) was reported to be 51.49 million tons, decrease from 51.79 million tons in 2018 (crop year 2017/18) about 0.58 percent or 0.30 million tons. The decrease in production occurred in Indonesia (approximately 0.11 percent or 0.03 million tons), the Philippines (approximately 4.65 percent or 0.37 million tons), Thailand (approximately 5.19 percent or 0.26 million tons), and Vietnam (approximately 1.31 percent or 0.06 million tons). On the other hand, Cambodia, Lao PDR and Myanmar reported an increase in maize's production (Table 6 - 9, Figure 6 - 9).

For **Cambodia**, the production in 2019 was expected to be 1.30 million tons. An increase in production is attributed to the increase in planted area and yield. The increase in planted area came from favorable weather together with government policy. The increase in yield was due to the farmers used more improved varieties as well as favorable weather.

For **Indonesia**, the production in 2019 was expected to be 30.01 million tons. A decrease in production is attributed to the decrease in planted area, which mainly caused by farmers changed to grow other food crop commodities.

For **Lao PDR**, the production in 2019 was expected to be 1.01 million tons. A significantly increase in production is attributed to the increase in planted area and yield. The increase in planted area came from the government policy. The increase in yield took place because farmers used more improved varieties and taking better care.

For **Myanmar**, the production in 2019 was expected to be 1.98 million tons. An increase in production is attributed to the increase in planted area, which caused by farmers' response to increasing price.

For the **Philippines**, the production in 2019 was expected to be 7.61 million tons. A decrease in production is attributed to the decrease in planted area and yield, which was affected by Habagat (or South - West Monsoon) and Typhoon Ompong (locally name of Typhoon Mangkhut).

For **Thailand**, the production in 2019 was expected to be 4.73 million tons. A decrease in production is attributed to the decrease in harvested area and yield, which caused by drought, pests and diseases.

For **Vietnam**, the production in 2019 was expected to be 4.84 million tons. A decrease in production is attributed to the decrease in planted area, which caused by farmers' response to falling price and lack of labor force.

### Damaged Area

The damaged area of maize in 2019 was reported to be 41,689 hectares. The largest damaged area of 26,804 hectares caused by pests which occurred in 2 countries namely, Thailand (26,465 hectares) and Myanmar (339 hectares). The total flood area of 7,846 hectares was found in Cambodia (6,999 hectares) and Myanmar (847 hectares), respectively. While, the damage areas caused by drought (3,639 hectares) and diseases (2,977 hectares) were found in Thailand (Table 10, Figure 10).



**Table 6 Maize production in ASEAN countries, 2018 - 2020**

Unit: 1,000 Tons

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>51,786.66</b>	<b>51,488.75</b>	<b>-297.91</b>	<b>-0.58</b>	<b>51,288.50</b>	<b>-200.24</b>	<b>-0.39</b>
Brunei	N/A						
Cambodia	1,231.47	1,303.75	72.29	5.87	959.22	-344.53	-26.43
Indonesia	30,043.22	30,009.36	-33.85	-0.11	29,729.83	-279.54	-0.93
Lao PDR	723.63	1,006.94	283.31	39.15	1,363.35*	356.41	35.40
Malaysia	N/A						
Myanmar	1,909.64	1,984.50	74.86	3.92	1,989.25	4.75	0.24
Philippines	7,979.67	7,608.46	-371.21	-4.65	7,245.45*	-363.01	-4.77
Singapore	N/A						
Thailand	4,993.14	4,734.13	-259.01	-5.19	5,161.48	427.35	9.03
Vietnam	4,905.90	4,841.61	-64.29	-1.31	4,839.93	-1.68	-0.03

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 7 Maize planted area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>11,311.75</b>	<b>11,235.68</b>	<b>-76.06</b>	<b>-0.67</b>	<b>11,096.97</b>	<b>-138.71</b>	<b>-1.23</b>
Brunei	N/A						
Cambodia	227.34	234.98	7.64	3.36	237.84	2.86	1.22
Indonesia	5,737.70	5,706.29	-31.42	-0.55	5,657.92	-48.37	-0.85
Lao PDR	134.16	185.56	51.41	38.32	220.43*	34.87	18.79
Malaysia	N/A						
Myanmar	504.47	520.85	16.38	3.25	523.38	2.53	0.49
Philippines	2,570.04	2,479.03	-91.01	-3.54	2,367.10*	-111.93	-4.52
Singapore	N/A						
Thailand	1,099.04	1,101.15	2.11	0.19	1,092.55	-8.60	-0.78
Vietnam	1,039.00	1,007.83	-31.17	-3.00	997.75	-10.08	-1.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 8 Maize harvested area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>11,306.59</b>	<b>11,193.99</b>	<b>-112.59</b>	<b>-1.00</b>	<b>11,089.53</b>	<b>-104.46</b>	<b>-0.93</b>
Brunei	N/A						
Cambodia	226.88	227.98	1.09	0.48	237.84	9.86	4.33
Indonesia	5,737.70	5,706.29	-31.42	-0.55	5,657.92	-48.37	-0.85
Lao PDR	134.16	185.56	51.41	38.32	220.43*	34.87	18.79
Malaysia	N/A						
Myanmar	500.32	519.24	18.91	3.78	519.39	0.15	0.03
Philippines	2,570.04	2,479.03	-91.01	-3.54	2,367.10*	-111.93	-4.52
Singapore	N/A						
Thailand	1,098.48	1,068.07	-30.41	-2.77	1,089.10	21.03	1.97
Vietnam	1,039.00	1,007.83	-31.17	-3.00	997.75	-10.08	-1.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 9 Maize yield in ASEAN countries, 2018 - 2020**

Unit: Tons/Hectare

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>4.58</b>	<b>4.60</b>	<b>0.02</b>	<b>0.44</b>	<b>4.62</b>	<b>0.02</b>	<b>0.43</b>
Brunei	N/A						
Cambodia	5.43	5.72	0.29	5.34	4.03	-1.69	-29.55
Indonesia	5.24	5.26	0.02	0.38	5.25	-0.01	-0.19
Lao PDR	5.39	5.43	0.04	0.74	6.18*	0.75	13.81
Malaysia	N/A						
Myanmar	3.82	3.82	0.00	0.00	3.83	0.01	0.26
Philippines	3.10	3.07	-0.03	-0.97	3.06*	-0.01	-0.33
Singapore	N/A						
Thailand	4.55	4.43	-0.12	-2.64	4.74	0.31	7.00
Vietnam	4.72	4.80	0.08	1.69	4.85	0.05	1.04

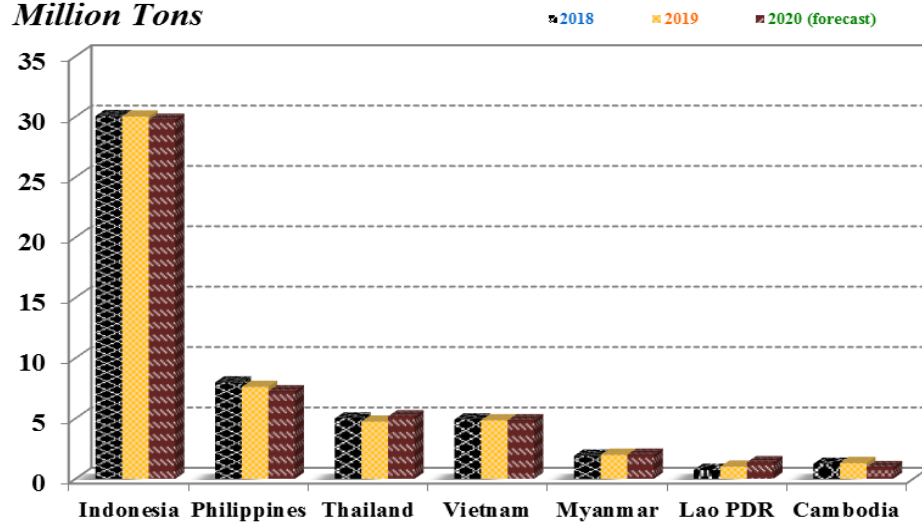
Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 10 Maize damaged area in ASEAN by cause of damage, 2019**

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Unspecified	Others	Total
<b>ASEAN</b>	<b>7,846</b>	<b>3,639</b>	<b>26,804</b>	<b>2,977</b>		<b>423</b>	<b>41,689</b>
Brunei							
Cambodia	6,999						6,999
Indonesia							
Lao PDR							
Malaysia							
Myanmar	847		339			423	1,609
Philippines							
Singapore							
Thailand		3,639	26,465	2,977			33,081
Vietnam							

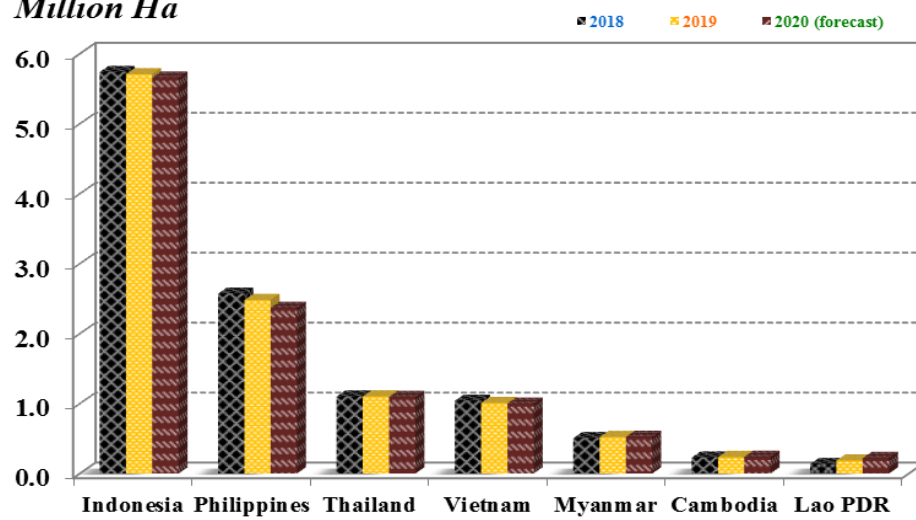


*Million Tons*



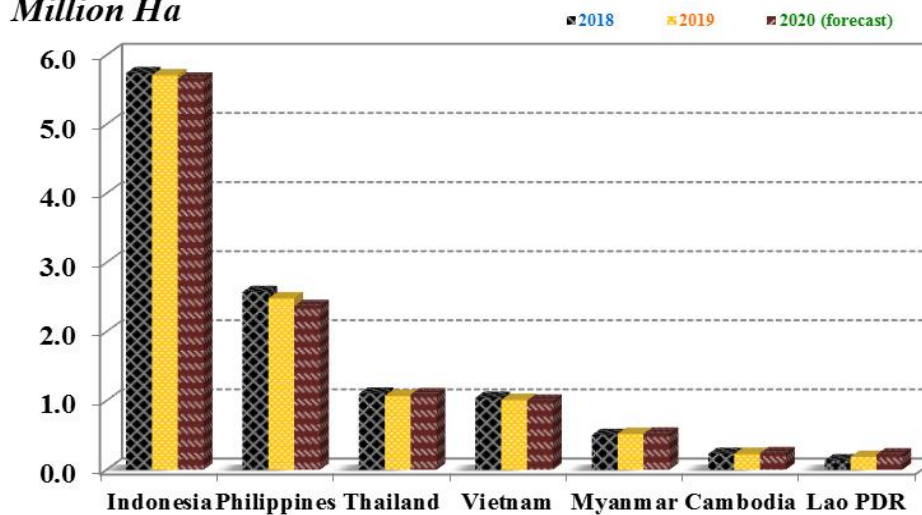
**Figure 6 Maize production of selected countries in ASEAN, 2018 - 2020**

*Million Ha*



**Figure 7 Maize planted area of selected countries in ASEAN, 2018 - 2020**

*Million Ha*



**Figure 8 Maize harvested area of selected countries in ASEAN, 2018 - 2020**

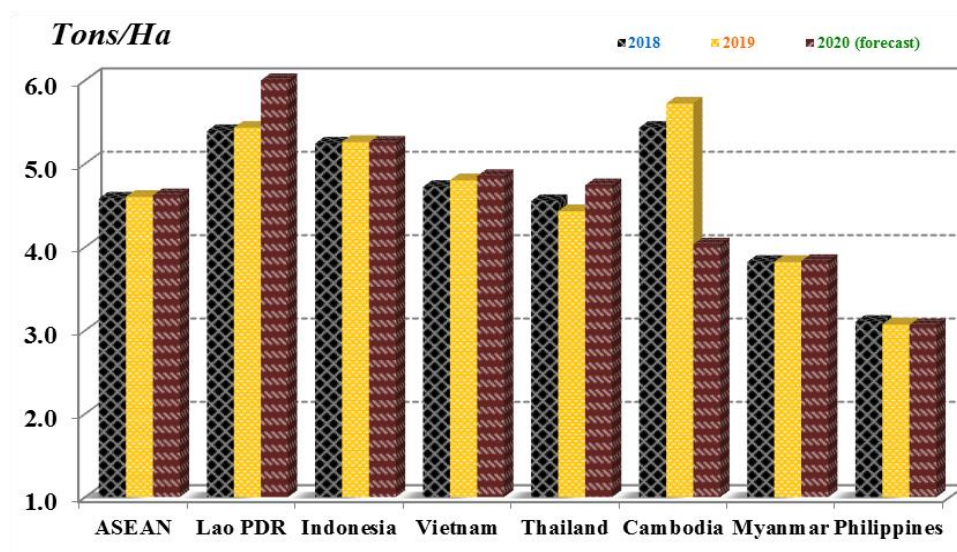


Figure 9 Maize yield of countries in ASEAN, 2018 - 2020

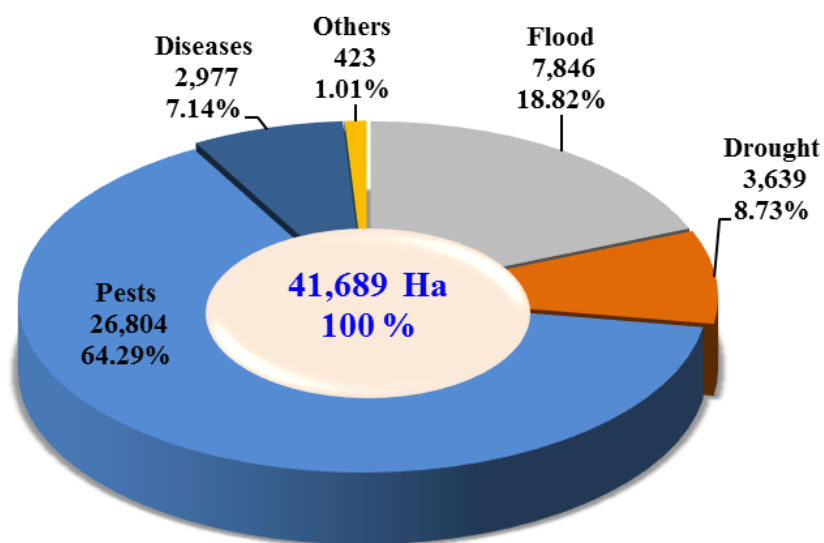


Figure 10 Maize damaged area in ASEAN by cause of damage, 2019 (crop year 2018/19)



## ASEAN Sugarcane Situation in 2019

### Production

The sugarcane production in ASEAN in 2019 (crop year 2018/19) was reported to be 219.22 million tons, which decreased 1.61 million tons from 220.83 million tons in 2018 (approximately 0.73 percent), caused by the decrease of production in Cambodia, the Philippines, Thailand, and Vietnam (Table 11 - 14, Figure 11 - 14).

For **Cambodia**, sugarcane production decreased from 0.69 million tons in 2018 to 0.67 million tons in 2019 which came from the decrease of harvested area and yield caused by flood.

For **Indonesia** an increase of sugarcane production was reported from 31.86 million tons in 2018 to 35.90 million tons in 2019 which is attributed to the increase in planted area and yield. The expansion of planted area came from government policy. The increase in yield was due to the favorable weather.

For **Lao PDR**, the sugarcane production of 2019 increased about 74.85 percent (0.83 million tons increase) compare to 2018, due to the significantly increased in planted area and yield. The increase in planted area came from farmers' response to price increase and government policy. The increase in yield was due to farmers taking better care.

For production in **Myanmar**, it was estimated to increase due to the significantly increase in planted area by favorable weather. However, yield has slightly decreased due to flood and wild elephants destroyed the crop.

For **the Philippines**, the sugarcane production was reported to be decrease from 23.88 million tons in 2018 to 21.36 million tons in 2019. The decrease in its production came from the decrease in both planted area and yield.

For **Thailand**, the sugarcane production was decrease from 135.07 million tons in 2018 to 131 million tons in 2019. The reduction in its production came from the declining in yield caused by drought.

For **Vietnam**, the production was reported to be decrease from 17.84 million tons in 2018 to 16.95 million tons in 2019. The decrease in its production due to the decrease in planted area caused by unfavorable weather and farmers' response to price decrease.

### Damaged Area

The sugarcane damaged area in ASEAN in 2019 was reported to be 5,675 hectares of which, around 4,835 hectares occurred in Indonesia, while the rest caused by flood which occurred in Cambodia and Myanmar (Table 15, Figure 15).

**Table 11 Sugarcane production in ASEAN countries, 2018 - 2020**

Unit: 1,000 Tons

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>220,830.67</b>	<b>219,223.44</b>	<b>-1,607.23</b>	<b>-0.73</b>	<b>213,201.65</b>	<b>-6,021.79</b>	<b>-2.75</b>
Brunei	N/A						
Cambodia	691.91	673.83	-18.08	-2.61	687.30	13.48	2.00
Indonesia	31,864.01	35,902.70	4,038.69	12.67	33,627.87	-2,274.82	-6.34
Lao PDR	1,109.36	1,939.68	830.32	74.85	2,430.00	490.32	25.28
Malaysia	N/A						
Myanmar	10,370.04	11,397.18	1,027.14	9.90	11,830.28	433.09	3.80
Philippines	23,881.56	21,359.88	-2,521.67	-10.56	19,104.28*	-2,255.60	-10.56
Singapore	N/A						
Thailand	135,073.80	131,002.17	-4,071.63	-3.01	128,912.89	-2,089.29	-1.59
Vietnam	17,840.00	16,948.00	-892.00	-5.00	16,609.04	-338.96	-2.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 12 Sugarcane planted area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>3,106.66</b>	<b>3,161.33</b>	<b>54.67</b>	<b>1.76</b>	<b>3,011.54</b>	<b>-149.79</b>	<b>-4.74</b>
Brunei	N/A						
Cambodia	20.10	20.31	0.20	1.02	20.71	0.41	2.00
Indonesia	417.58	453.24	35.66	8.54	457.48	4.24	0.94
Lao PDR	22.20	32.16	9.97	44.90	40.00	7.84	24.38
Malaysia	N/A						
Myanmar	166.36	180.07	13.70	8.24	186.55	6.48	3.60
Philippines	421.82	385.49	-36.32	-8.61	352.30*	-33.19	-8.61
Singapore	N/A						
Thailand	1,790.21	1,835.09	44.88	2.51	1,707.17	-127.92	-6.97
Vietnam	268.40	254.98	-13.42	-5.00	247.33	-7.65	-3.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 13 Sugarcane harvested area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>3,099.32</b>	<b>3,155.66</b>	<b>56.33</b>	<b>1.82</b>	<b>3,004.55</b>	<b>-151.11</b>	<b>-4.79</b>
Brunei	N/A						
Cambodia	20.02	19.57	-0.44	-2.20	20.37	0.79	4.04
Indonesia	413.43	448.40	34.97	8.46	450.94	2.54	0.57
Lao PDR	22.20	32.16	9.97	44.90	40.00	7.84	24.38
Malaysia	N/A						
Myanmar	163.25	179.96	16.71	10.23	186.44	6.48	3.60
Philippines	421.82	385.49	-36.32	-8.61	352.30*	-33.19	-8.61
Singapore	N/A						
Thailand	1,790.21	1,835.09	44.88	2.51	1,707.17	-127.92	-6.97
Vietnam	268.40	254.98	-13.42	-5.00	247.33	-7.65	-3.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.



**Table 14 Sugarcane yield in ASEAN countries, 2018 - 2020**

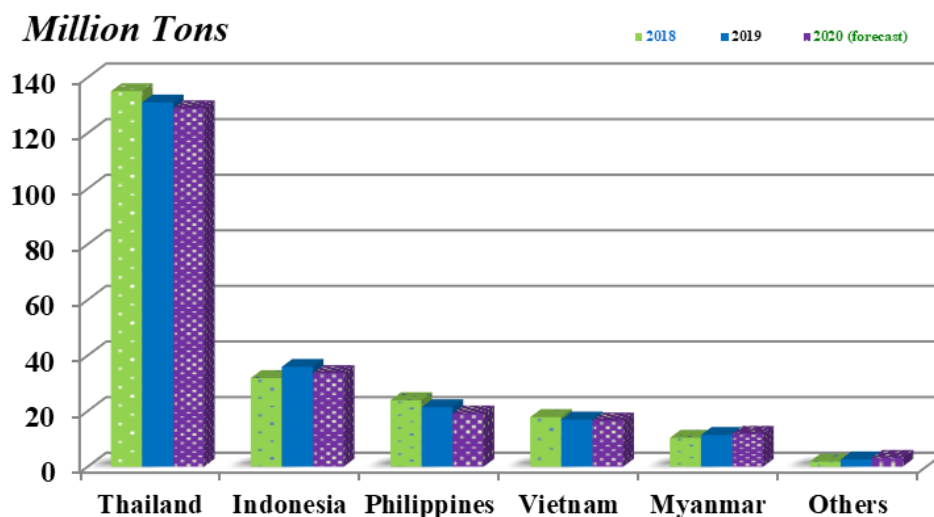
Unit: Tons/Hectare

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>71.25</b>	<b>69.47</b>	<b>-1.78</b>	<b>-2.50</b>	<b>70.96</b>	<b>1.49</b>	<b>2.14</b>
Brunei	N/A						
Cambodia	34.57	34.42	-0.15	-0.43	33.75	-0.67	-1.95
Indonesia	77.07	80.07	3.00	3.89	74.57	-5.50	-6.87
Lao PDR	49.98	60.31	10.33	20.67	60.75	0.44	0.73
Malaysia	N/A						
Myanmar	63.52	63.33	-0.19	-0.30	63.45	0.12	0.19
Philippines	56.62	55.41	-1.21	-2.14	54.23*	-1.18	-2.13
Singapore	N/A						
Thailand	75.45	71.39	-4.06	-5.38	75.51	4.12	5.77
Vietnam	66.47	66.47	0.00	0.00	67.15	0.68	1.02

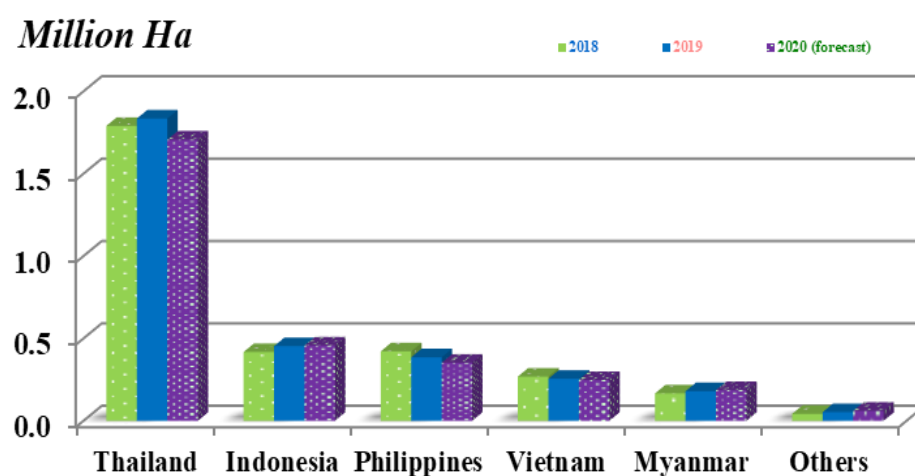
Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 15 Sugarcane damaged area in ASEAN by cause of damage, 2019**

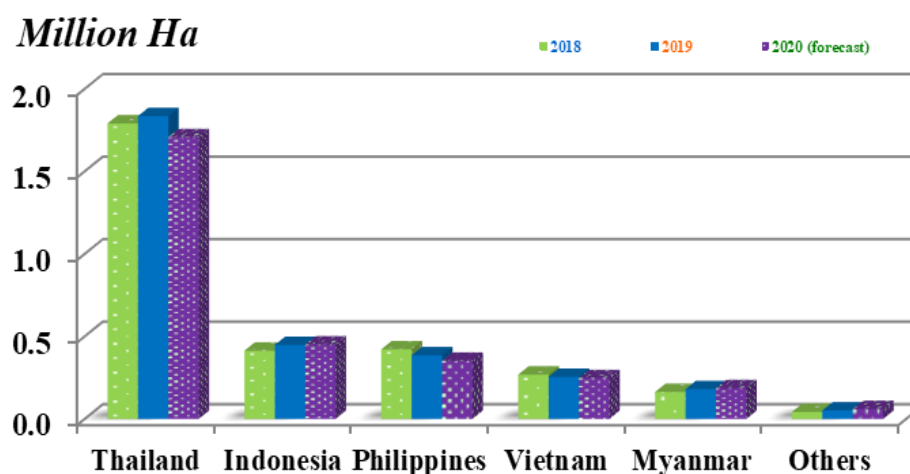
Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
<b>ASEAN</b>	<b>789</b>					<b>4,886</b>	<b>5,675</b>
Brunei	N/A						
Cambodia	734						734
Indonesia					4,835		4,835
Lao PDR.	N/A						
Malaysia	N/A						
Myanmar	55					51	106
Philippines	N/A						
Singapore	N/A						
Thailand	N/A						
Vietnam	N/A						



**Figure 11 Sugarcane production of selected countries in ASEAN, 2018 - 2020**

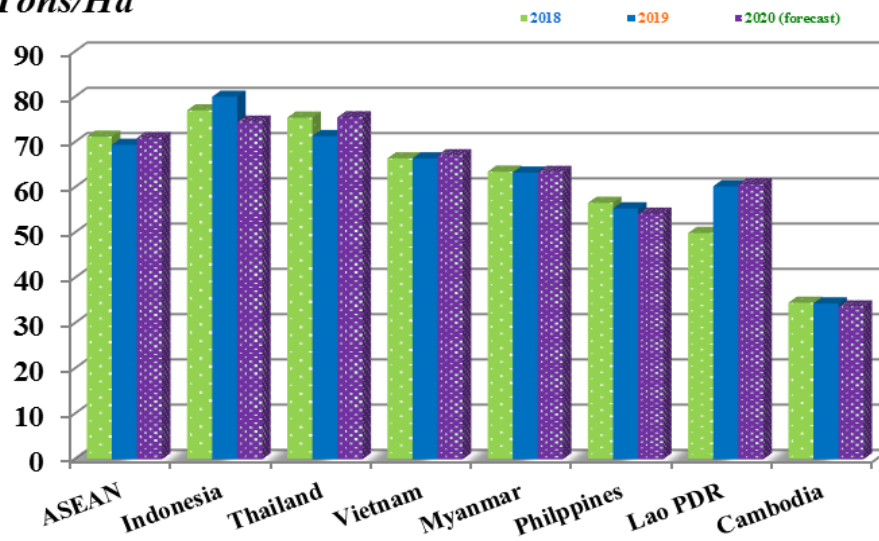


**Figure 12 Sugarcane planted area of selected countries in ASEAN, 2018 - 2020**

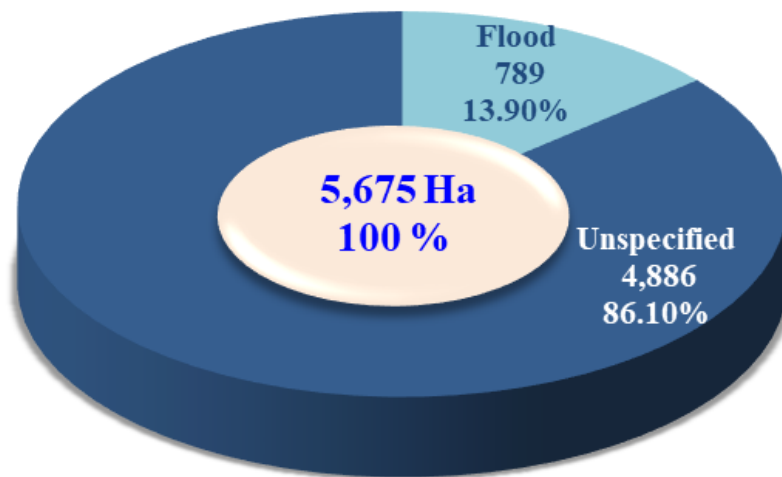


**Figure 13 Sugarcane harvested area of selected countries in ASEAN, 2018 - 2020**

*Tons/Ha*



**Figure 14 Sugarcane yield of selected countries in ASEAN, 2018 - 2020**



**Figure 15 Sugarcane damaged area in ASEAN by cause of damage, 2019 (2018/19)**

## ASEAN Soybean Situation 2019

### Production

The soybean production in ASEAN in 2019 (crop year 2018/19) was reported to be 1.97 million tons, which increased 0.56 million tons from 1.42 million tons in 2018 (crop year 2017/18). The increase in production caused by the increase of production in 3 countries which were Indonesia, Lao PDR and the Philippines (Table 16 - 19, Figure 16 - 19).

For **Indonesia**, the largest producing country, reported an increase to as high as 1.56 million tons, increased approximately 58.66 percent from 0.98 million tons in 2018. The increase in production was due to the increase in planted area and yield. The increase in planted area came from farmers' response to price increase, favorable weather together with government policy. The increase in yield occurred because farmers used more fertilizer, used more improved varieties, and better taking care of soybean crop as well as favorable weather.

For **Lao PDR**, the soybean production was reported to be increase from 0.008 million tons in 2018 to 0.01 million tons in 2019. The increase in production was due to the increase in planted area which caused by government policy.

**The Philippines**, the increase in production was due to the increase in yield which occurred because farmers used more fertilizer and better taking care of soybean crop.

**Cambodia**, the soybean production was reported to be decrease from 0.092 million tons in 2018 to 0.084 million tons in 2019. The decrease in production was due to the decrease in planted area and yield. The decline in planted area was affected by the decrease of soybean's price.

**Myanmar**, the second largest soybean producing country in ASEAN, the production was reported to be decrease from 0.209 million tons in 2018 to 0.207 million tons in 2019. 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 and unfavorable weather. The yield has decreased because farmers used less fertilizer.

**Thailand**, the soybean production was reported to be decrease from 0.0423 million tons in 2018 to 0.0418 million tons in 2019. The decrease in production was due to the decrease in planted area which caused by the farmers' response to price decrease and unfavorable weather.

**Vietnam**, the soybean production was reported to be decrease from 0.081 million tons in 2018 to 0.073 million tons in 2019. The main reason caused by the farmers' response to price decrease.

### Damaged Area

The damaged area of soybean in ASEAN in 2019 (crop year 2018/19) was reported to be 429 hectares. About 74.13 percent or 318 hectares of the damaged area caused by flood and about 25.87 percent or 111 hectares of the damaged area caused by drought. Most of the damage was occur in Cambodia, Myanmar, and Thailand (Table 20, Figure 20).



**Table 16 Soybean production in ASEAN countries, 2018 - 2020**

Unit: 1,000 Tons

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/2020)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>1,415.85</b>	<b>1,974.86</b>	<b>559.01</b>	<b>39.48</b>	<b>1,341.55</b>	<b>-633.30</b>	<b>-32.07</b>
Brunei	N/A						
Cambodia	91.77	84.18	-7.59	-8.27	85.86	1.68	2.00
Indonesia	982.60	1,559.00	576.41	58.66	908.29	-650.71	-41.74
Lao PDR	8.32	9.64	1.33	15.94	22.53*	12.89	133.68
Malaysia	N/A						
Myanmar	209.47	206.96	-2.51	-1.20	204.59	-2.37	-1.15
Philippines	0.64	0.66	0.01	2.06	0.67*	0.01	2.09
Singapore	N/A						
Thailand	42.26	41.81	-0.46	-1.08	42.91	1.10	2.64
Vietnam	80.80	72.61	-8.19	-10.13	76.71	4.09	5.64

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 17 Soybean planted area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Tons

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/2020)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>949.51</b>	<b>1,275.40</b>	<b>325.89</b>	<b>34.32</b>	<b>822.16</b>	<b>-453.25</b>	<b>-35.54</b>
Brunei	N/A						
Cambodia	46.05	44.88	-1.17	-2.54	45.78	0.90	2.00
Indonesia	680.87	1,013.44	332.57	48.85	553.34	-460.10	-45.40
Lao PDR	4.73	5.63	0.90	18.92	14.74*	9.12	162.13
Malaysia	N/A						
Myanmar	139.80	139.15	-0.65	-0.46	139.03	-0.12	-0.09
Philippines	0.54	0.46	-0.08	-14.83	0.43*	0.00	0.00
Singapore	N/A						
Thailand	24.41	24.02	-0.40	-1.63	23.42	-0.59	-2.47
Vietnam	53.10	47.82	-5.28	-9.95	45.41	-2.41	-5.04

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 18 Soybean harvested area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/2020)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>948.50</b>	<b>1,274.97</b>	<b>326.47</b>	<b>34.42</b>	<b>821.86</b>	<b>-453.11</b>	<b>-35.54</b>
Brunei	N/A						
Cambodia	45.75	44.72	-1.03	-2.25	45.61	0.89	1.98
Indonesia	680.37	1,013.44	333.07	48.95	553.34	-460.10	-45.40
Lao PDR	4.73	5.63	0.90	18.92	14.74*	9.12	162.13
Malaysia	N/A						
Myanmar	139.74	138.99	-0.75	-0.54	138.95	-0.04	-0.03
Philippines	0.54	0.46	-0.08	-14.83	0.43*	-0.03	-7.00
Singapore	N/A						
Thailand	24.26	23.91	-0.36	-1.48	23.38	-0.53	-2.22
Vietnam	53.10	47.82	-5.28	-9.95	45.41	-2.41	-5.04

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 19 Soybean yield in ASEAN countries, 2018 - 2020**

Unit: Tons/Hectare

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/2020)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>1.49</b>	<b>1.55</b>	<b>0.06</b>	<b>3.77</b>	<b>1.63</b>	<b>0.08</b>	<b>5.38</b>
Brunei	N/A						
Cambodia	2.01	1.88	-0.13	-6.47	1.88	0.00	0.14
Indonesia	1.44	1.54	0.09	6.52	1.64	0.10	6.71
Lao PDR	1.76	1.71	-0.05	-2.84	1.53*	-0.18	-10.66
Malaysia	N/A						
Myanmar	1.50	1.49	-0.01	-0.67	1.47	-0.02	-1.18
Philippines	1.18	1.42	0.23	19.83	1.56*	0.14	9.78
Singapore	N/A						
Thailand	1.74	1.75	0.01	0.40	1.84	0.09	4.97
Vietnam	1.52	1.52	0.00	-0.21	1.69	0.17	11.24

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 20 Soybean damaged area in ASEAN by cause of damage, 2019**

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
<b>ASEAN</b>	<b>318</b>	<b>111</b>					<b>429</b>
Brunei	N/A						
Cambodia	157						157
Indonesia	N/A						
Lao PDR	N/A						
Malaysia	N/A						
Myanmar	161						161
Philippines	N/A						
Singapore	N/A						
Thailand		111					111
Vietnam	N/A						

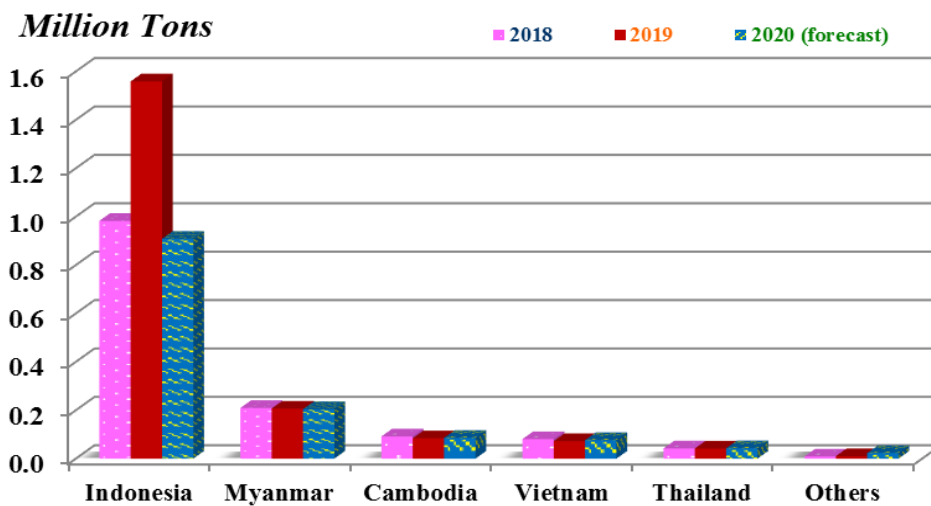


Figure 16 Soybean production of selected countries in ASEAN, 2018 - 2020

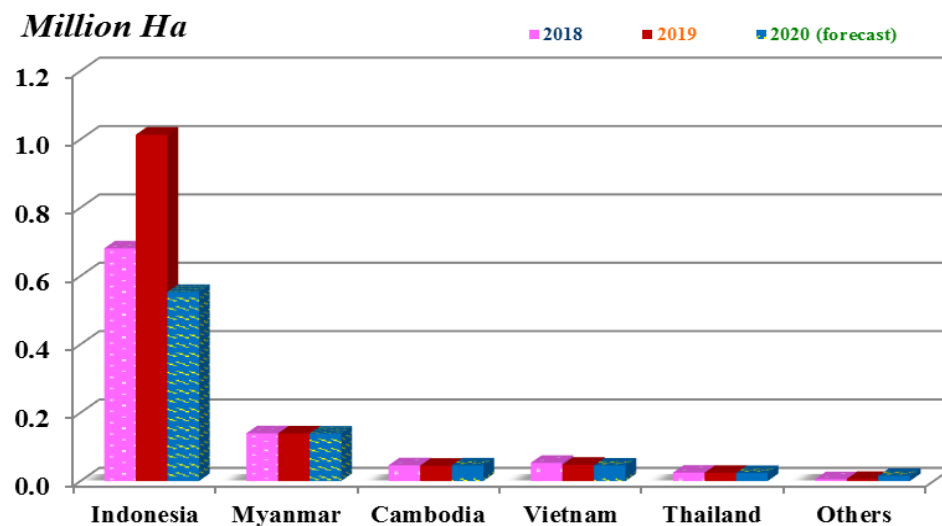


Figure 17 Soybean planted area of selected countries in ASEAN, 2018 - 2020

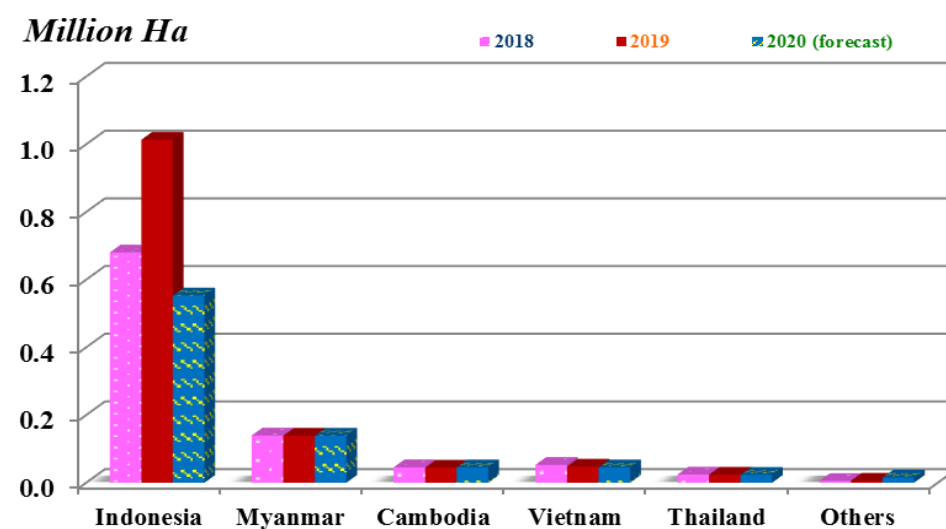


Figure 18 Soybean harvested area of selected countries in ASEAN, 2018 - 2020

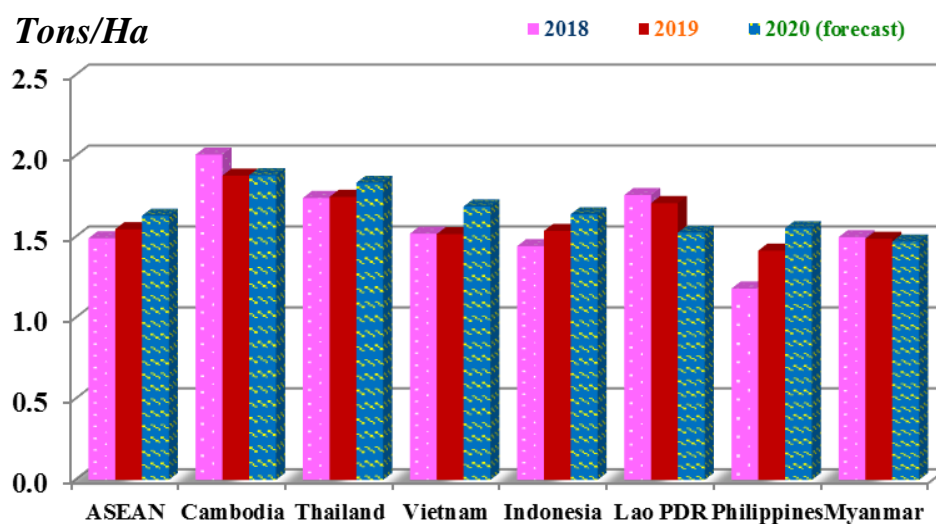


Figure 19 Soybean yield of countries in ASEAN, 2018 - 2020

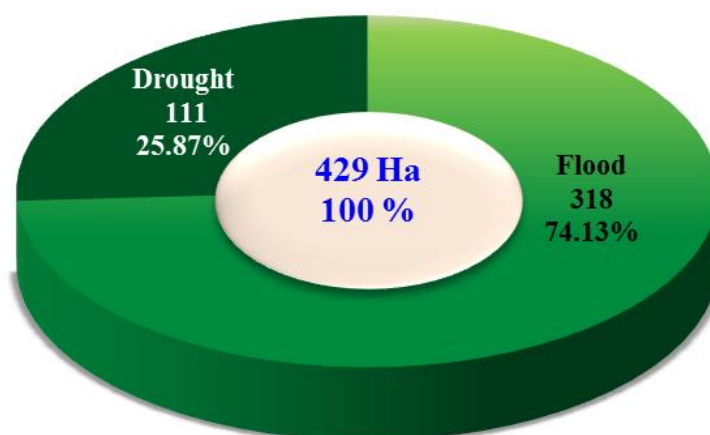


Figure 20 Soybean damaged area in ASEAN by cause of damage, 2019 (crop year 2018/19)



## ASEAN Cassava Situation in 2019

### Production

The estimated cassava production (root fresh) in ASEAN in 2019 (crop year 2018/19) increased about 5 percent or 3.97 million tons compare to previous year (from 78.91 million tons in 2018 to 82.88 million tons in 2019). The increased in production found in 5 countries, which were Indonesia, Thailand, Cambodia, Malaysia and Brunei. (Table 21 - 24, Figure 21 - 24).

For the countries reported of the most increase in production, **Indonesia**, the production reported to be increased about 20.40 percent or 3.94 million tons (from 19.34 million tons in 2018 to 23.29 million tons in 2019). The increase in production was due to the increase in planted area by favorable weather and special assistant.

For **Thailand**, the production reported to be increased about 5.54 percent or 1.63 million tons (from 29.37 million tons in 2018 to 30.99 million tons in 2019). The increase in production came from the increase in planted area due to the farmers' response to price increase. The increase in yield caused by the favorable weather. Although some planted area was flooded, it was comparatively small when considering nationwide.

For **Cambodia**, the production reported to be increased about 0.39 percent or 0.05 million tons (from 13.75 million tons in 2018 to 13.80 million tons in 2019). The increase in production came from the increase in yield caused by the farmers' response to price increase, favorable weather and government policy.

For **Malaysia**, the production reported to be increased about 10 percent or 0.004 million tons (from 0.035 million tons in 2018 to 0.039 million tons in 2019). The increase in production came from the increased in planted area caused by the farmers' response to price increase. The yield has increased due to farmers used more improved variety and more fertilizer.

For **Brunei**, the production reported to be increased about 5 percent or 10 tons from 210 tons in 2018 to 220 tons in 2019.

The countries reported of decrease in production, **Lao PDR**, the production reported to be decreased in production of 31.24 percent or 1.04 million tons (from 3.32 million tons in 2018 to 2.29 million tons in 2019). The decreases in production came from the decreased in planted area which caused by the farmers' response to price decrease.

For **Vietnam**, the decrease in production of 5 percent or 0.50 million tons (from 9.94 million tons in 2018 to 9.44 million tons in 2019). The decreases in production came from decrease in planted area due to the farmer' response to price decrease and unfavorable weather by effect of flood and typhoon.

For the **Philippines**, the decrease in production of 4.34 percent or 0.12 million tons (from 2.75 million tons in 2018 to 2.63 million tons in 2019). The decrease in production caused by the decline in planted area and in yield caused by drought.

For **Myanmar**, reported a decrease of about 1.04 percent or 0.004 million tons (from 0.40 million tons in 2018 to 0.39 million tons in 2019). The decrease in production came from decrease in planted area caused by the farmers' response to price decrease.

## Damaged Area

The cassava damaged area in 2019 in the ASEAN was reported to be 31,619 hectares. The damage area was caused by flood which most of damage area occurred in Thailand (30,204 hectares or 65.52 percent) and the rest happened in Cambodia (1,415 hectare or 4.48 percent) (Table 25, Figure 25).

**Table 21 Cassava production in ASEAN countries, 2018 - 2020**

Unit: 1,000 Tons

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>78,911.29</b>	<b>82,881.60</b>	<b>3,970.31</b>	<b>5.03</b>	<b>83,523.30</b>	<b>641.70</b>	<b>0.77</b>
Brunei	0.21	0.22	0.01	5.00	0.23	0.01	5.00
Cambodia	13,750.08	13,804.34	54.27	0.39	14,080.43	276.09	2.00
Indonesia	19,341.23	23,286.19	3,944.96	20.40	23,712.61	426.42	1.83
Lao PDR	3,324.29	2,285.72	-1,038.58	-31.24	1,500.00	-785.72	-34.38
Malaysia	35.00	38.50	3.50	10.00	40.42	1.92	5.00
Myanmar	398.75	394.61	-4.13	-1.04	398.70	4.09	1.04
Philippines	2,753.55	2,634.09	-119.46	-4.34	2,590.14*	-43.95	-1.67
Singapore	N/A						
Thailand	29,368.19	30,994.94	1,626.75	5.54	31,474.48	479.54	1.55
Vietnam	9,940.00	9,443.00	-497.00	-5.00	9,726.29	283.29	3.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 22 Cassava planted area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>3,710.09</b>	<b>3,854.24</b>	<b>144.15</b>	<b>3.89</b>	<b>3,833.51</b>	<b>-20.73</b>	<b>-0.54</b>
Brunei	N/A						
Cambodia	652.24	645.73	-6.50	-1.00	658.65	12.92	2.00
Indonesia	792.95	963.74	170.79	21.54	943.39	-20.36	-2.11
Lao PDR	101.10	71.20	-29.90	-29.57	49.00	-22.20	-31.18
Malaysia	2.39	2.48	0.10	4.00	2.56	0.07	3.00
Myanmar	34.71	33.37	-1.34	-3.86	34.66	1.29	3.86
Philippines	231.62	223.19	-8.43	-3.64	215.62*	-7.57	-3.39
Singapore	N/A						
Thailand	1,379.89	1,425.07	45.19	3.27	1,425.51	0.44	0.03
Vietnam	515.20	489.44	-25.76	-5.00	504.12	14.68	3.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 23 Cassava harvested area in ASEAN countries, 2018 - 2020**

Unit: 1,000 Hectares

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>3,660.43</b>	<b>3,822.13</b>	<b>161.70</b>	<b>4.42</b>	<b>3,831.53</b>	<b>9.40</b>	<b>0.25</b>
Brunei	N/A						
Cambodia	650.51	644.32	-6.19	-0.95	657.21	12.89	2.00
Indonesia	792.95	963.74	170.79	21.54	943.39	-20.36	-2.11
Lao PDR	101.10	71.20	-29.90	-29.57	49.00	-22.20	-31.18
Malaysia	1.97	2.00	0.03	1.40	2.03	0.03	1.40
Myanmar	34.70	33.37	-1.33	-3.84	34.66	1.29	3.86
Philippines	231.62	223.19	-8.43	-3.64	215.62*	-7.57	-3.39
Singapore	N/A						
Thailand	1,332.38	1,394.87	62.49	4.69	1,425.51	30.64	2.20
Vietnam	515.20	489.44	-25.76	-5.00	504.12	14.68	3.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 24 Cassava yield in ASEAN countries, 2018 - 2020**

Unit: Tons/Hectare

Country	2018 (2017/18)	2019 (2018/19)	Change 2019 over 2018		2020 (2019/20)	Change 2020 over 2019	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>21.56</b>	<b>21.68</b>	<b>0.12</b>	<b>0.56</b>	<b>21.80</b>	<b>0.12</b>	<b>0.55</b>
Brunei	N/A						
Cambodia	21.14	21.42	0.28	1.32	21.42	0.00	0.00
Indonesia	24.39	24.16	-0.23	-0.94	25.14	0.98	4.06
Lao PDR	32.88	32.10	-0.78	-2.37	30.61	-1.49	-4.64
Malaysia	17.75	19.26	1.51	8.51	19.94	0.68	3.53
Myanmar	11.49	11.82	0.33	2.87	11.50	-0.32	-2.71
Philippines	11.89	11.80	-0.09	-0.76	12.01*	0.21	1.78
Singapore	N/A						
Thailand	22.04	22.22	0.18	0.82	22.08	-0.14	-0.63
Vietnam	19.29	19.29	0.00	0.00	19.29	0.00	0.00

Remark: \* The value is estimated by AFSIS Secretariat. N/A refers to data is not available.

**Table 25 Cassava damaged area in ASEAN by cause of damage, 2019**

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
<b>ASEAN</b>	<b>31,619</b>						<b>31,619</b>
Brunei	N/A						
Cambodia	1,415						<b>1,415</b>
Indonesia	N/A						
Lao PDR	N/A						
Malaysia	N/A						
Myanmar	N/A						
Philippines	N/A						
Singapore	N/A						
Thailand	30,204						<b>30,204</b>
Vietnam	N/A						

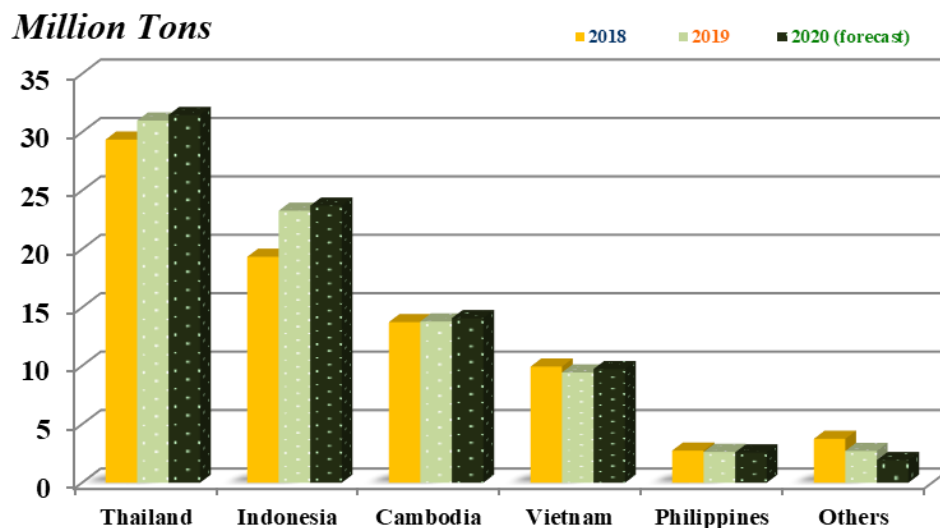


Figure 21 Cassava production of selected countries in ASEAN, 2018 - 2020

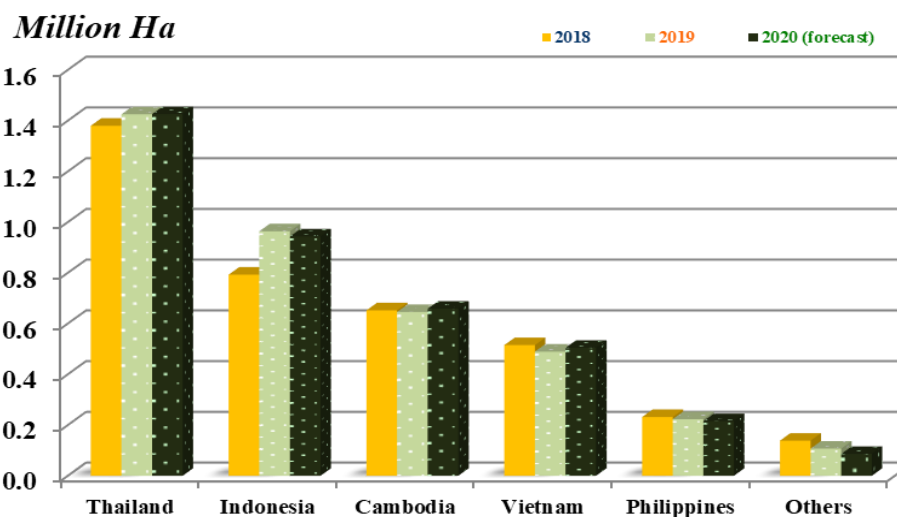


Figure 22 Cassava planted area of selected countries in ASEAN, 2018 - 2020

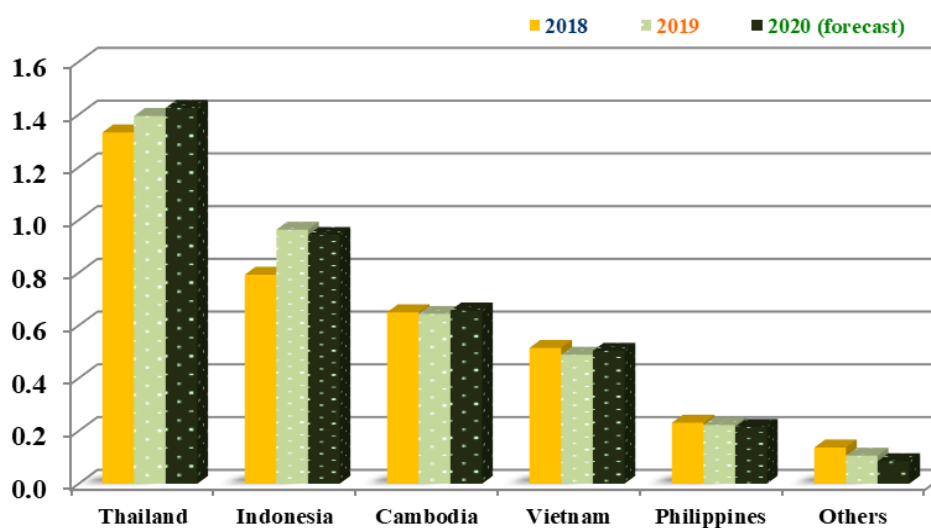


Figure 23 Cassava harvested area of selected countries in ASEAN, 2018 - 2020



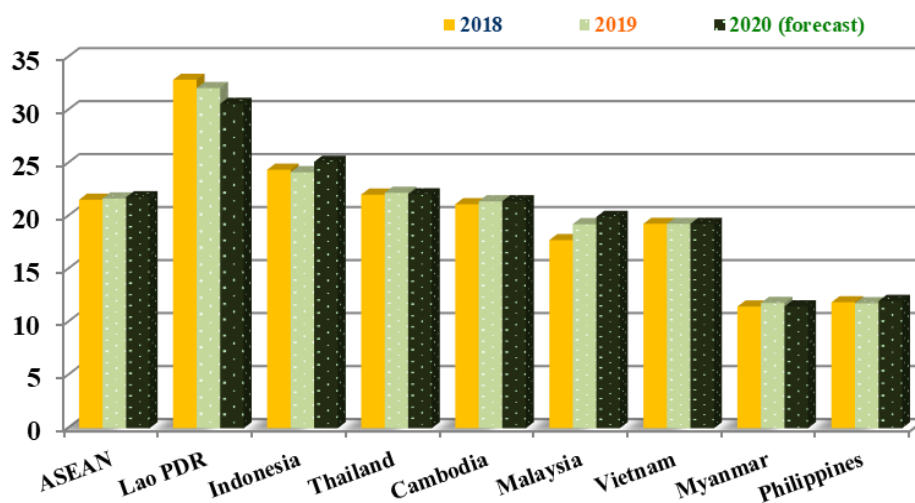


Figure 24 Cassava yield of countries in ASEAN, 2018 - 2020



Figure 25 Soybean damaged area in ASEAN by cause of damage, 2019 (2018/19)





AFSIS Secretariat  
Office of Agricultural Economics,  
Phahonyothin Road, Jatujak,  
Bangkok 10900, Thailand



(+66)2 940 7468



[www.aptfsis.org](http://www.aptfsis.org)



[aptfsis@gmail.com](mailto:aptfsis@gmail.com)