



ASEAN Food Security Information System

ASEAN Early Warning Information

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ASEAN Rice Situation in 2020

► Production

ASEAN paddy production in 2020 (crop year 2019/20) was estimated to be 183.89 million tons, a decrease of 8.38 million tons or 4.36 percent compared to 2019 (crop year 2018/19) due to the decrease in planted area, harvested area and yield. Most of the producing countries expected a decrease in production except Brunei, and Malaysia (Table 1 - 4, Figure 1 - 4).

For **Brunei**, the estimated production was 0.0025 million tons. An increase in production came from the increase in planted area and yield. The increase in planted area came from government policy which is the expansion of new rice farming area in Kandol. The increase in yield was due to farmers used more fertilizer, 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. A decrease in production is attributed to the decrease in planted area and yield caused by drought and flood.

For **Indonesia**, the estimated production was 50.90 million tons. The decrease in production came from the decrease in planted area and yield. While the decrease in planted area and yield was due to unfavorable weather caused by El Niño effects.

For **Lao PDR**, the estimated production was 3.50 million tons. The decrease in production came from the reduction in planted area caused by unfavorable weather. The increase in yield was because farmers took better care of the rice crop.

For **Malaysia**, the estimated production was 3.21 million tons. An increase in production came from the increase in yield which was because farmers took better care of the rice crop.

For **Myanmar**, the estimated production was 26.80 million tons. The decrease in production was due to the decrease in planted area and yield. The main reasons of the declining came from unfavorable weather and lack of water supply.

For **the Philippines**, the estimated production was 18.15 million tons, the decrease in production came from the decrease in planted area as a result of unfavorable weather.

For **Thailand**, the estimated production was 28.18 million tons, the decrease in production was due to the decrease in planted area and yield. The main reasons of the declining came from unfavorable weather and lack of water supply.

For **Vietnam**, the estimated production was 42.26 million tons. The decrease in production was due to the decrease in planted area and yield. The decrease in planted area of spring crop was due to government policy and unfavorable weather as well as the saline intrusions.

► Damaged Area

The damaged area of paddy in ASEAN in 2020 (crop year 2019/20) was reported to be 1.13 million hectares. Approximately 53.49 percent or 0.60 million hectares of the damaged area was caused by drought which mostly occurred in Thailand about 0.52 million hectares.

Besides, approximately 42.51 percent or 0.48 million hectares of the damaged area was caused by flood which mostly occurred in Thailand about 0.41 million hectares. While the rest of damage was caused by pests, diseases, and unspecified causes (Table 5, Figure 5).

Table 1 Paddy production in ASEAN countries, 2019 - 2021

Unit: 1,000 Tons

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	192,267.75	183,888.63	-8,379.12	-4.36	189,848.21	5,959.57	3.24
Brunei	2.31	2.51	0.20	8.65	2.55	0.04	1.60
Cambodia	10,891.74	10,885.73	-6.00	-0.06	11,097.88	212.15	1.95
Indonesia	52,978.75	50,903.15*	-2,075.59	-3.92	52,328.44*	1,425.29	2.80
Lao PDR	3,534.50	3,500.00	-34.50	-0.98	3,475.80*	-24.20	-0.69
Malaysia	2,873.28	3,206.88	333.60	11.61	3,243.99*	37.11	1.16
Myanmar	27,573.41	26,798.31	-775.11	-2.81	27,259.22*	460.91	1.72
Philippines	18,622.25	18,153.28*	-468.98	-2.52	18,639.12*	485.85	2.68
Singapore	N/A						
Thailand	32,348.11	28,181.73	-4,166.39	-12.88	31,759.20	3,577.48	12.69
Vietnam	43,443.40	42,257.05	-1,186.35	-2.73	42,042.00	-215.05	-0.51

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

Table 2 Paddy planted area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	46,089.20	44,687.83	-1,401.37	-3.04	45,586.06	898.23	2.01
Brunei	1.26	1.29	0.04	3.00	1.33	0.04	3.00
Cambodia	3,335.93	3,328.85	-7.08	-0.21	3,389.94	61.09	1.84
Indonesia	10,290.70	9,974.53*	-316.17	-3.07	10,174.02*	199.49	2.00
Lao PDR	966.61	940.00	-26.61	-2.75	932.85*	-7.15	-0.76
Malaysia	700.27	700.57	0.30	0.04	700.74*	0.17	0.02
Myanmar	7,228.27	7,117.32	-110.96	-1.54	7,188.49*	71.17	1.00
Philippines	4,741.26*	4,630.80*	-110.46	-2.33	4,723.42*	92.62	2.00
Singapore	N/A						
Thailand	11,356.19	10,651.84	-704.35	-6.20	11,247.28*	595.44	5.59
Vietnam	7,468.70	7,342.63	-126.07	-1.69	7,228.00	-114.63	-1.56

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

Table 3 Paddy harvested area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	45,212.56	43,609.73	-1,602.83	-3.55	44,813.07	1,203.34	2.76
Brunei	1.14	1.18	0.03	3.00	1.21	0.04	3.00
Cambodia	3,248.06	3,263.77	15.71	0.48	3,371.41	107.63	3.30
Indonesia	10,290.70	9,974.53*	-316.17	-3.07	10,174.02*	199.49	2.00
Lao PDR	966.61	940.00	-26.61	-2.75	932.85*	-7.15	-0.76
Malaysia	698.67	698.98	0.30	0.04	699.14*	0.17	0.02
Myanmar	7,149.46	7,035.34	-114.13	-1.60	7,105.69*	70.35	1.00
Philippines	4,741.26	4,630.80*	-110.46	-2.33	4,723.42*	92.62	2.00
Singapore	N/A						
Thailand	10,647.94	9,722.50	-925.44	-8.69	10,577.32*	854.83	8.79
Vietnam	7,468.70	7,342.63	-126.07	-1.69	7,228.00	-114.63	-1.56

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

Table 4 Paddy yield in ASEAN countries, 2019 - 2021

Unit: Tons/Hectare

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	4.25	4.22	-0.03	-0.71	4.24	0.02	0.47
Brunei	2.02	2.13	0.11	5.45	2.10	-0.03	-1.41
Cambodia	3.35	3.34	-0.01	-0.30	3.29	-0.05	-1.50
Indonesia	5.15	5.10*	-0.05	-0.97	5.14*	0.04	0.78
Lao PDR	3.66	3.72	0.06	1.64	3.73*	0.01	0.27
Malaysia	4.11	4.59	0.48	11.68	4.64*	0.05	1.09
Myanmar	3.86	3.81	-0.05	-1.30	3.84*	0.03	0.79
Philippines	3.93	3.92*	-0.01	-0.25	3.95*	0.03	0.77
Singapore	N/A						
Thailand	3.04	2.90	-0.14	-4.61	3.00*	0.10	3.45
Vietnam	5.82	5.76	-0.06	-1.03	5.82	0.06	1.04

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, 2020

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Other	Unspecified	Total
ASEAN	480,435	604,507	3,120	975		41,070	1,130,107
Brunei	26	27	29	35			118
Cambodia	15,577	49,495					65,072
Indonesia	N/A						
Lao PDR	N/A						
Malaysia			657	940			1,597
Myanmar	31,195	37,281	2,433	-	-	11,070	81,979
Philippines	N/A						
Singapore	N/A						
Thailand	411,637	517,704					929,341
Vietnam	22,000					30,000	52,000

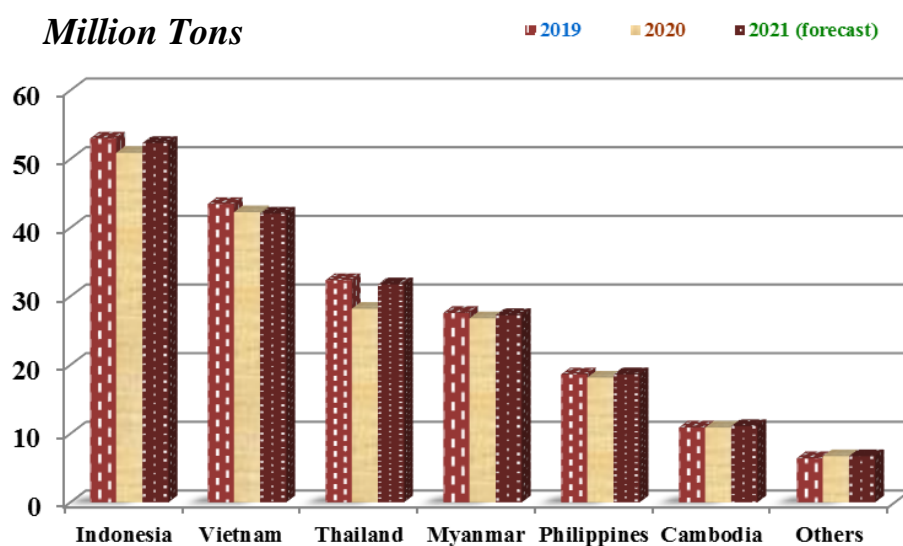


Figure 1 Paddy production of selected countries in ASEAN, 2019 - 2021

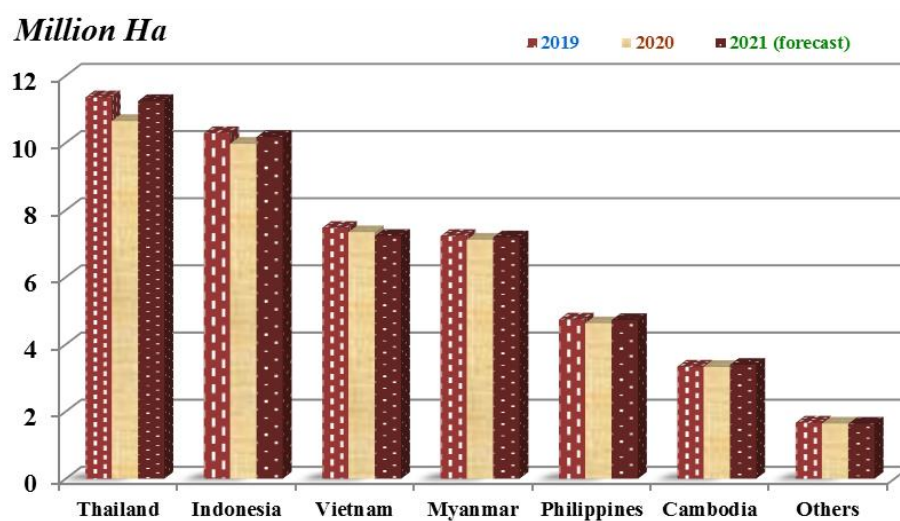


Figure 2 Paddy planted area of selected countries in ASEAN, 2019 - 2021

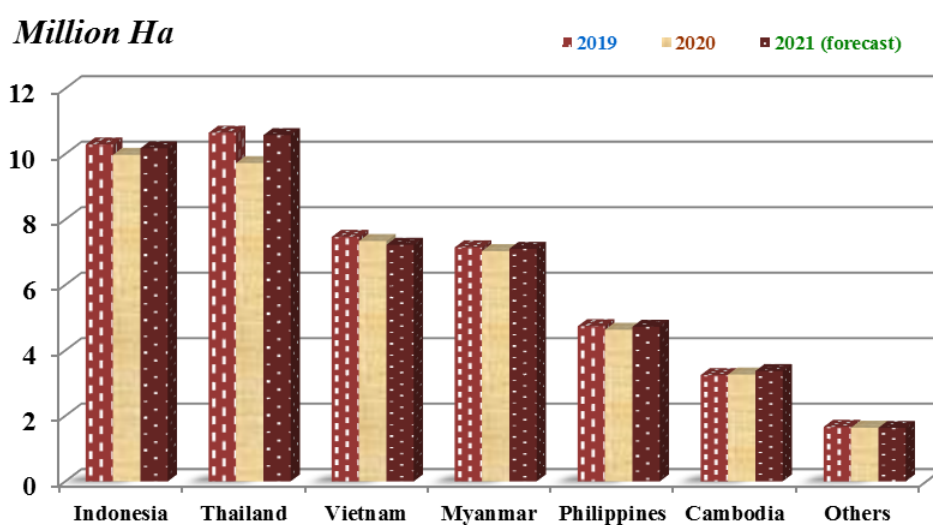


Figure 3 Paddy harvested area of selected countries in ASEAN, 2019 - 2021

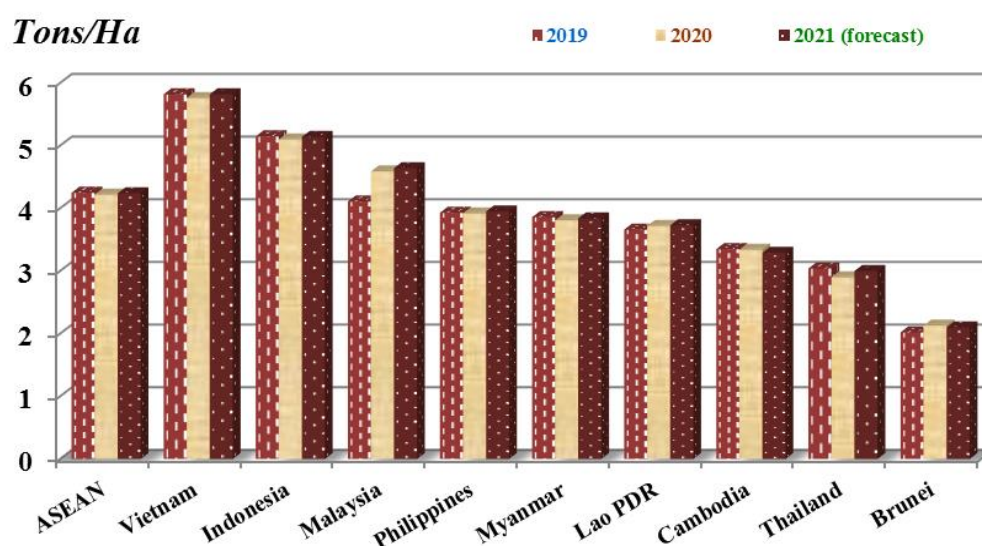


Figure 4 Paddy yield of countries in ASEAN, 2019 - 2021

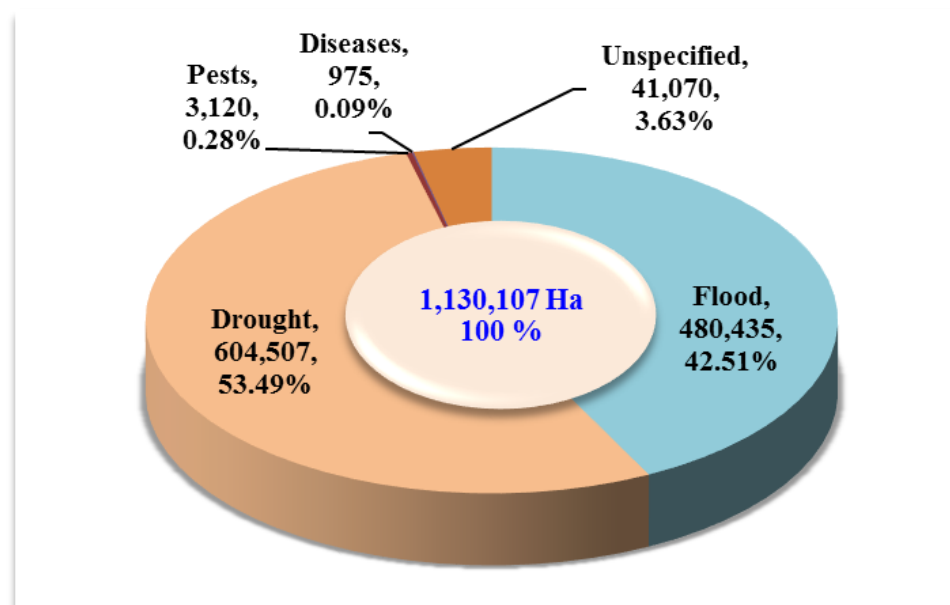


Figure 5 Paddy damaged area in ASEAN by cause of damage, 2020 (crop year 2019/20)

ASEAN Maize Situation in 2020

► *Production*

The maize production in ASEAN in 2020 (crop year 2019/20) was reported to be 44.91 million tons, decreasing from 45.08 million tons in 2019 (crop year 2018/19) about 0.36 percent or 0.16 million tons. The decrease in production occurred in Cambodia (approximately 24.44 percent or 0.32 million tons), Lao PDR (approximately 19.31 percent or 0.15 million tons), Myanmar (approximately 1.18 percent or 0.02 million tons), Thailand (approximately 5.97 percent or 0.29 million tons), and Vietnam (approximately 3.48 percent or 0.17 million tons). On the other hand, Indonesia and the Philippines reported an increase in maize's production (Table 6 - 9, Figure 6 - 9).

For **Cambodia**, the production in 2020 was expected to be 0.99 million tons. The decrease in production was attributed to the decrease in planted area and yield. The decrease in planted area came from unfavorable weather. While, the decrease in yield came from drought and flood.

For **Indonesia**, the production in 2020 was expected to be 24.27 million tons. An increase in production was attributed to the increase in planted area and yield, which mainly caused by government policy.

For **Lao PDR**, the production in 2020 was expected to be 6.11 million tons. A decrease in production was attributed to the decrease in planted area and yield. The decrease in planted area came from the government policy. The decrease in yield came from drought.

For **Myanmar**, the production in 2020 was expected to be 1.96 million tons. A decrease in production was attributed to the decrease in planted area and yield, which caused by farmers' response to decreasing price and government policy.

For the **Philippines**, the production in 2020 was expected to be 7.97 million tons. An increase in production is attributed to the increase in planted area and yield, as a result of favorable weather.

For **Thailand**, the production in 2020 was expected to be 4.53 million tons. A decrease in production was attributed to the decrease in harvested area and yield, which caused by drought and pests.

For **Vietnam**, the production in 2020 was expected to be 4.59 million tons. A decrease in production was attributed to the decrease in planted area, which caused by government policy.

► *Damaged Area*

The damaged area of maize in 2020 was reported to be 131,226 hectares. The largest damaged area of 92,349 hectares caused by pests which mostly occurred in Thailand. The total flood area of 18,417 hectares was found in Cambodia (14,579 hectares) and Myanmar (3,838 hectares), respectively. While, the damage areas caused by drought (17,590 hectares) was found in Thailand and others (2,790 hectares) was found in Thailand and Myanmar (Table 10, Figure 10).

Table 6 Maize production in ASEAN countries, 2019 - 2021

Unit: 1,000 Tons

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	45,076.24	44,913.87	-162.38	-0.36	45,452.71	538.85	1.20
Brunei	N/A						
Cambodia	1,303.75	985.11	-318.64	-24.44	1,004.82	19.70	2.00
Indonesia	23,853.66	24,272.80*	419.14	1.76	24,879.62*	606.82	2.50
Lao PDR	756.76	610.60	-146.16	-19.31	625.33*	14.73	2.41
Malaysia	N/A						
Myanmar	1,984.50	1,961.05	-23.45	-1.18	2,000.27*	39.22	2.00
Philippines	7,608.46	7,968.05	359.59	4.73	7,904.27*	-63.78	-0.80
Singapore	N/A						
Thailand	4,812.42	4,525.15	-287.26	-5.97	4,466.42*	-58.73	-1.30
Vietnam	4,756.70	4,591.10	-165.60	-3.48	4,572.00	-19.10	-0.42

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

Table 7 Maize planted area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	9,908.68	10,112.36	203.68	2.06	10,119.94	7.58	0.07
Brunei	N/A						
Cambodia	234.98	225.98	-8.99	-3.83	230.50	4.52	2.00
Indonesia	4,494.75	4,544.33*	49.57	1.10	4,635.21*	90.89	2.00
Lao PDR	132.16	124.70	-7.46	-5.64	122.51*	-2.19	-1.76
Malaysia	N/A						
Myanmar	520.85	519.64	-1.20	-0.23	530.04*	10.39	2.00
Philippines	2,480.03*	2,513.47*	33.44	1.35	2,520.54*	7.07	0.28
Singapore	N/A						
Thailand	1,055.01	1,111.34	56.32	5.34	1,127.64*	16.31	1.47
Vietnam	990.90	957.30	-33.60	-3.39	953.50	-3.80	-0.40

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

Table 8 Maize harvested area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	9,896.49	9,865.54	-30.95	-0.31	10,000.13	134.59	1.36
Brunei	N/A						
Cambodia	227.98	211.41	-16.57	-7.27	230.50	19.10	9.03
Indonesia	4,494.75	4,544.33*	49.57	1.10	4,635.21*	90.89	2.00
Lao PDR	132.16	124.70	-7.46	-5.64	122.51*	-2.19	-1.76
Malaysia	N/A						
Myanmar	519.24	515.72	-3.51	-0.68	523.81*	8.09	1.57
Philippines	2,480.03	2,513.47	33.44	1.35	2,520.54*	7.07	0.28
Singapore	N/A						
Thailand	1,051.43	998.61	-52.82	-5.02	1,014.05*	15.44	1.55
Vietnam	990.90	957.30	-33.60	-3.39	953.50	-3.80	-0.40

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

Table 9 Maize yield in ASEAN countries, 2019 - 2021

Unit: Tons/Hectare

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	4.55	4.55	0.00	0.00	4.55	0.00	0.00
Brunei	N/A						
Cambodia	5.72	4.66	-1.06	-18.53	4.36	-0.30	-6.44
Indonesia	5.31	5.34*	0.03	0.56	5.37*	0.03	0.56
Lao PDR	5.73	4.90	-0.83	-14.49	5.10*	0.20	4.08
Malaysia	N/A						
Myanmar	3.82	3.80	-0.02	-0.52	3.82*	0.02	0.53
Philippines	3.07	3.17*	0.10	3.26	3.14*	-0.03	-0.95
Singapore	N/A						
Thailand	4.58	4.53	-0.05	-1.09	4.40*	-0.13	-2.87
Vietnam	4.80	4.80	0.00	0.00	4.79	-0.01	-0.21

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, 2020

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Unspecified	Others	Total
ASEAN	18,417	17,590	92,349			2,870	131,226
Brunei	N/A						
Cambodia	14,579						14,579
Indonesia	N/A						
Lao PDR	N/A						
Malaysia	N/A						
Myanmar	3,838		2			80	3,920
Philippines	N/A						
Singapore	N/A						
Thailand		17,590	92,347			2,790	112,727
Vietnam	N/A						

Million Tons

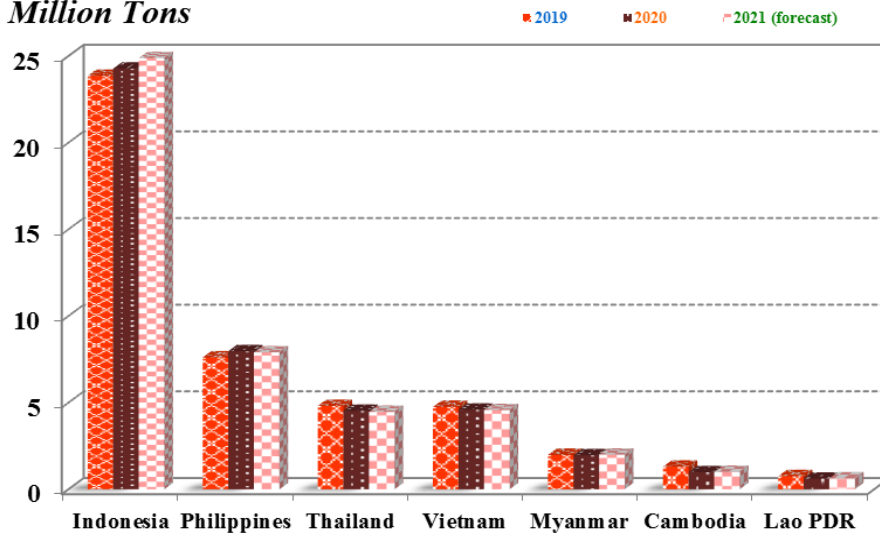


Figure 6 Maize production of selected countries in ASEAN, 2019 - 2021

Million Ha

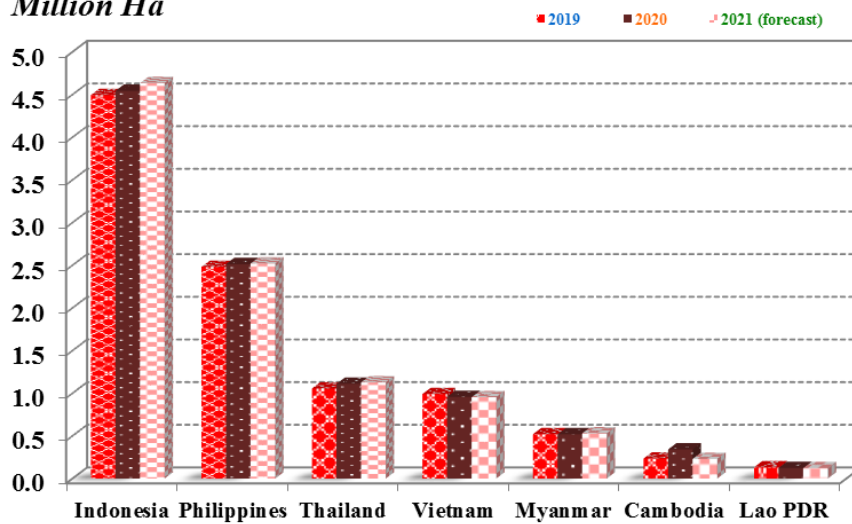


Figure 7 Maize planted area of selected countries in ASEAN, 2019 - 2021

Million Ha

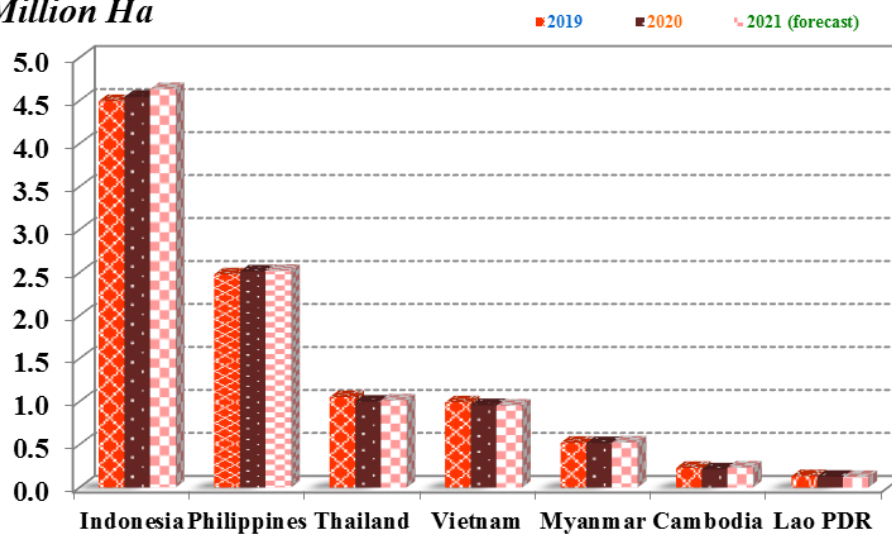


Figure 8 Maize harvested area of selected countries in ASEAN, 2019 - 2021

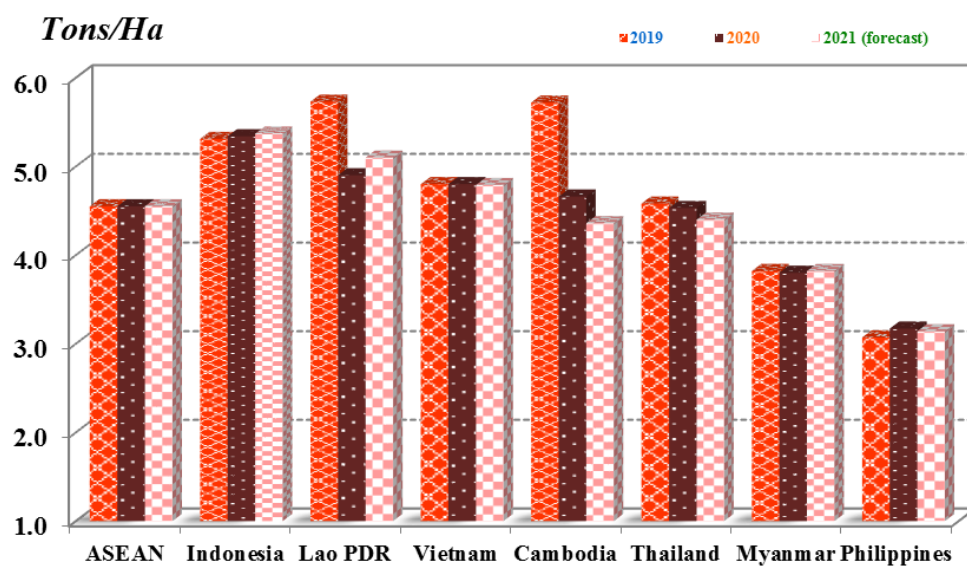


Figure 9 Maize yield of countries in ASEAN, 2019 - 2021

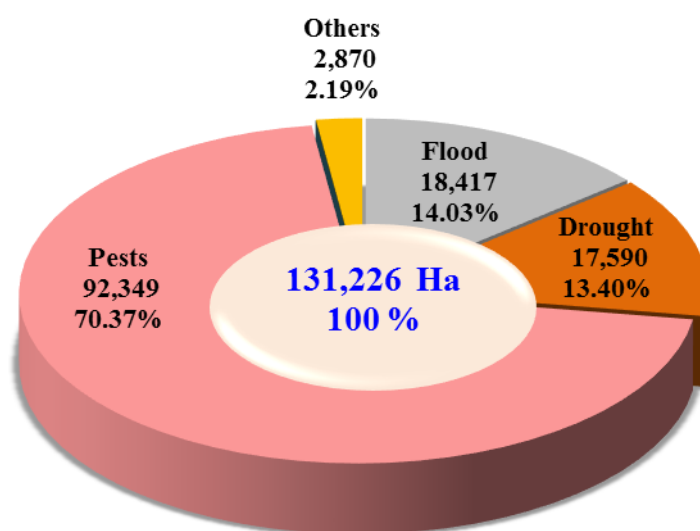


Figure 10 Maize damaged area in ASEAN by cause of damage, 2020 (crop year 2019/20)

ASEAN Sugarcane Situation in 2020

► *Production*

The sugarcane production in ASEAN in 2020 (crop year 2019/20) was reported to be 198.93 million tons, which decreased 18.42 million tons from 217.35 million tons in 2019 (approximately 8.48 percent), caused by the decrease of production in Lao PDR, the Philippines, Thailand, and Vietnam (Table 11 - 14, Figure 11 - 14).

For **Cambodia**, sugarcane production was reported to be increased from 0.62 million tons in 2019 to 0.69 million tons in 2020 which was attributed to the increase in planted area and harvested area.

For **Indonesia**, an increase of sugarcane production was reported from 35.90 million tons in 2019 to 38.15 million tons in 2020 which was 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 better taking care of the sugarcane crop from farmers.

For **Lao PDR**, the sugarcane production of 2020 decreased about 0.56 million tons (or 30.71 percent) compare to 2019, due to the significant decrease in yield. The yield decreased because farmers used less fertilizer.

For production in **Myanmar**, the sugarcane production was reported to increase from 11.40 million tons in 2019 to 11.68 million tons in 2020 which was attributed to the increase in planted area and yield. The main reason came from farmers' response to price increase.

For **the Philippines**, the sugarcane production was reported to decrease from 21.36 million tons in 2019 to 20.68 million tons in 2020. The decrease in its production came from the decrease in planted area and yield.

For **Thailand**, the sugarcane production was decrease from 131 million tons in 2019 to 111.52 million tons in 2020. It was estimated to decrease due to the significant decrease in yield resulting from drought.

For **Vietnam**, the production was reported to decrease from 15.27 million tons in 2019 to 14.96 million tons in 2020. The decrease in its production was due to the decrease in planted area caused by farmers' response to price decrease.

► *Damaged Area*

The sugarcane damaged area in ASEAN in 2020 was reported to be 5,889 hectares. The unspecified cause of damaged area was occurred in Indonesia (5,288 hectares) and Cambodia (349 hectares). While the rest of damages area caused by flood was occurred in Myanmar (Table 15, Figure 15).

Table 11 Sugarcane production in ASEAN countries, 2019 - 2021

Unit: 1,000 Tons

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	217,353.42	198,929.34	-18,424.08	-8.48	218,247.71	19,318.37	9.71
Brunei	N/A						
Cambodia	618.31	687.30	68.99	11.16	725.65*	38.34	5.58
Indonesia	35,902.70	38,146.61*	2,243.92	6.25	39,405.45*	1,258.84	3.30
Lao PDR	1,807.47	1,252.42	-555.05	-30.71	1,502.90*	250.48	20.00
Malaysia	N/A						
Myanmar	11,397.18	11,683.85	286.66	2.52	11,894.15*	210.31	1.80
Philippines	21,359.88	20,676.37*	-683.52	-3.20	20,366.22*	-310.15	-1.50
Singapore	N/A						
Thailand	131,002.17	111,522.40	-19,479.77	-14.87	129,692.15*	18,169.75	16.29
Vietnam	15,265.70	14,960.39	-305.31	-2.00	14,661.18	-299.21	-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, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	3,134.16	3,160.01	25.85	0.82	3,192.26	32.25	1.02
Brunei	N/A						
Cambodia	17.02	20.71	3.70	21.73	21.54*	0.83	4.00
Indonesia	453.24	466.25*	13.01	2.87	481.17*	14.92	3.20
Lao PDR	30.16	33.06	2.90	9.62	33.56*	0.50	1.50
Malaysia	N/A						
Myanmar	180.07	182.44	2.38	1.32	184.23*	1.79	0.98
Philippines	384.99*	377.29*	-7.70	-2.00	375.40*	-1.89	-0.50
Singapore	N/A						
Thailand	1,835.09*	1,856.00*	20.91	1.14	1,878.83*	22.83	1.23
Vietnam	233.60	224.26	-9.34	-4.00	217.53	-6.73	-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, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	3,129.22	3,154.12	24.90	0.80	3,185.01	30.89	0.98
Brunei	N/A						
Cambodia	17.02	20.37	3.35	19.68	21.08*	0.71	3.50
Indonesia	448.40	460.96*	12.56	2.80	474.79*	13.83	3.00
Lao PDR	30.16	33.06	2.90	9.62	33.56*	0.50	1.50
Malaysia	N/A						
Myanmar	179.96	182.19	2.23	1.24	183.83*	1.64	0.90
Philippines	384.99	377.29*	-7.70	-2.00	375.40*	-1.89	-0.50
Singapore	N/A						
Thailand	1,835.09	1,856.00	20.91	1.14	1,878.83*	22.83	1.23
Vietnam	233.60	224.26	-9.34	-4.00	217.53	-6.73	-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, 2019 - 2021

Unit: Tons/Hectare

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	69.46	63.07	-6.39	-9.20	68.52	5.45	8.64
Brunei	N/A						
Cambodia	36.34	33.75	-2.59	-7.13	34.43*	0.68	2.01
Indonesia	80.07	82.76*	2.69	3.36	83.00*	0.24	0.29
Lao PDR	59.93	37.88	-22.05	-36.79	44.79*	6.91	18.24
Malaysia	N/A						
Myanmar	63.33	64.13	0.80	1.26	64.70*	0.57	0.89
Philippines	55.48	54.80*	-0.68	-1.23	54.25*	-0.55	-1.00
Singapore	N/A						
Thailand	71.39	60.09	-11.30	-15.83	69.03*	8.94	14.88
Vietnam	65.35	66.71	1.36	2.08	67.40	0.69	1.03

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, 2020

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
ASEAN	252					5,637	5,889
Brunei	N/A						
Cambodia						349	349
Indonesia						5,288	5,288
Lao PDR.	N/A						
Malaysia	N/A						
Myanmar	252						252
Philippines	N/A						
Singapore	N/A						
Thailand	N/A						
Vietnam	N/A						

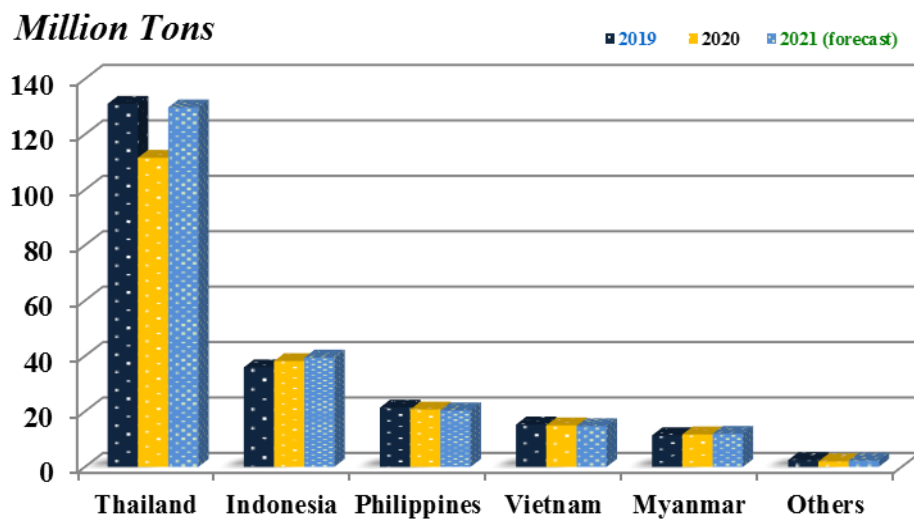


Figure 11 Sugarcane production of selected countries in ASEAN, 2019 - 2021

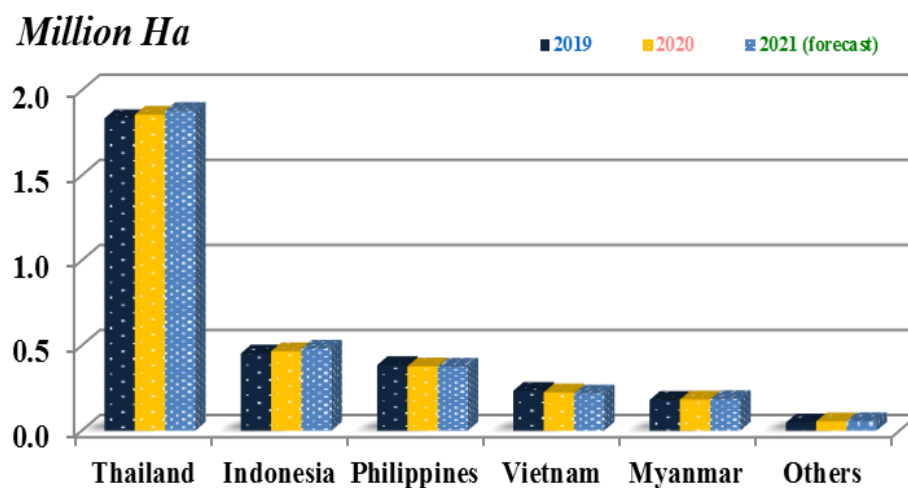


Figure 12 Sugarcane planted area of selected countries in ASEAN, 2019 - 2021

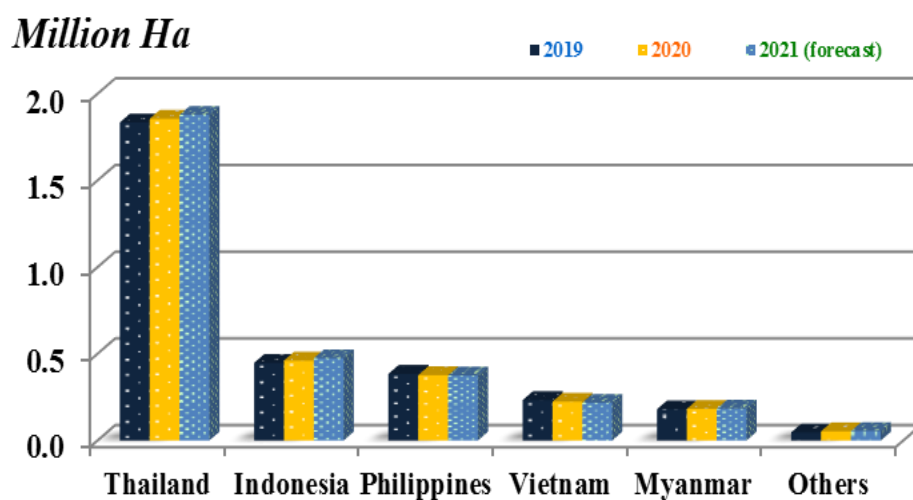


Figure 13 Sugarcane harvested area of selected countries in ASEAN, 2019 - 2021

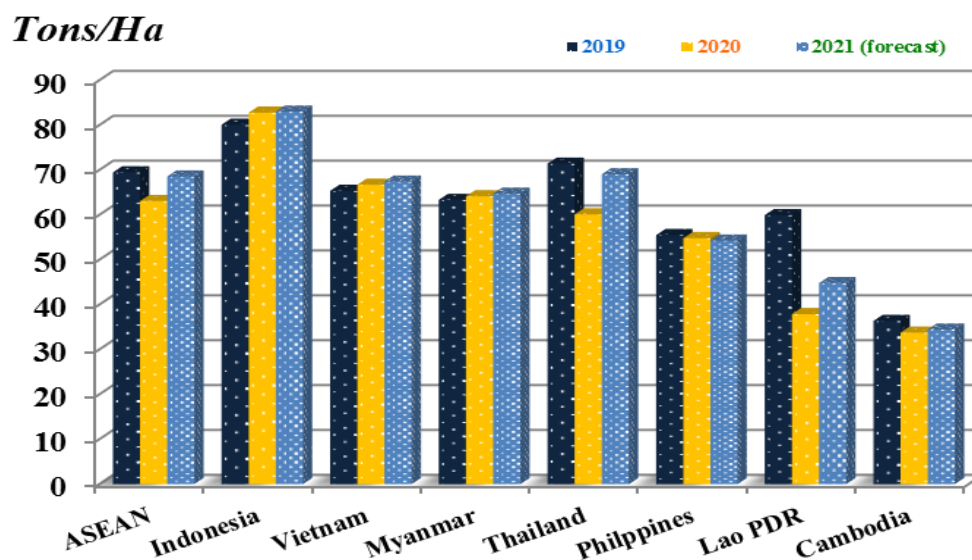


Figure 14 Sugarcane yield of selected countries in ASEAN, 2019 - 2021

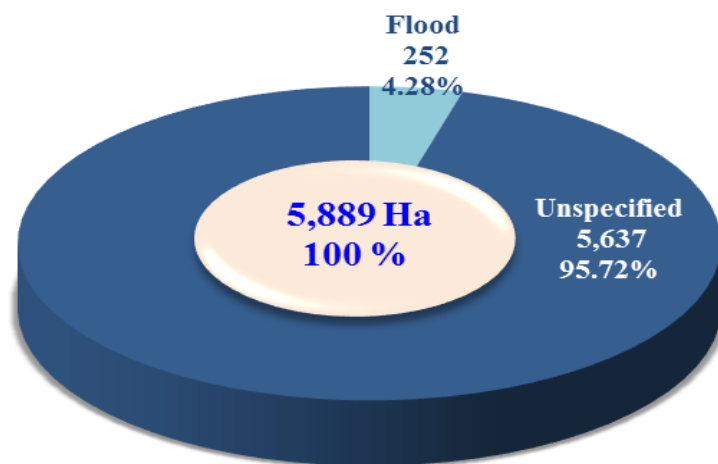


Figure 15 Sugarcane damaged area in ASEAN by cause of damage, 2020 (2019/20)

ASEAN Soybean Situation 2020

► *Production*

The soybean production in ASEAN in 2020 (crop year 2019/20) was reported to be 1.378 million tons, which increased 0.024 million tons from 1.354 million tons in 2019 (crop year 2018/19). The increase in production caused by increase of production in some countries, especially, Cambodia (Table 16 - 19, Figure 16 - 19).

For **Indonesia**, the largest producing country, reported the decrease from 0.98 million tons in 2019 to 0.96 million tons in 2020, approximately 1.54 percent. The decrease in production was due to the decrease in planted area, which came from farmers' response to price decrease, unfavorable weather together with government policy.

For **Lao PDR**, the soybean production was reported to increase from 0.0057 million tons in 2019 to 0.0062 million tons in 2020. The increase in production was due to the increase in planted area which caused by favorable weather and government policy.

For **the Philippines**, a slightly increase in production was due to the increase in yield which caused by using more fertilizer and more improved variety.

For **Cambodia**, the soybean production was reported to increase from 0.042 million tons in 2019 to 0.086 million tons in 2020. The doubling increase in production was due to the increase in planted area and yield which was affected by the increase of soybean's price, favorable weather and government policy.

For **Myanmar**, the second largest soybean producing country in ASEAN, the production was reported to decrease from 0.207 million tons in 2019 to 0.206 million tons in 2020. The production has decreased due to the reduction of the planted area which was affected by the decrease of soybean's price and unfavorable weather.

For **Thailand**, the soybean production was reported to decrease from 0.043 million tons in 2019 to 0.040 million tons in 2020. The decrease in production was due to the decrease in planted area and yield. The decrease in planted area came from unfavorable weather, high production costs and labour shortage. The decreased in yield caused by drought.

For **Vietnam**, the soybean production was reported to be decrease from 0.076 million tons in 2019 to 0.075 million tons in 2020. The main reason caused by the reduction of planted area.

► *Damaged Area*

The damaged area of soybean in ASEAN in 2020 (crop year 2019/20) was reported to be 247 hectares. About 71.26 percent or 176 hectares of the damaged area caused by flood and about 27.94 percent or 69 hectares of the damaged area caused by drought. Most of the damage was occurred in Cambodia, Thailand, and Myanmar, respectively (Table 20, Figure 20).

Table 16 Soybean production in ASEAN countries, 2019 - 2021

Unit: 1,000 Tons

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/2021)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	1,354.09	1,378.19	24.10	1.78	1,353.35	-24.84	-1.80
Brunei	N/A						
Cambodia	42.07	85.86	43.79	104.08	88.87*	3.01	3.50
Indonesia	979.23	964.13	-15.10	-1.54	935.20*	-28.92	-3.00
Lao PDR	5.72	6.22	0.50	8.78	6.19*	-0.03	-0.46
Malaysia	N/A						
Myanmar	206.96	205.92	-1.04	-0.50	208.18*	2.27	1.10
Philippines	0.66	0.66*	0.00	0.54	0.67*	0.01	0.84
Singapore	N/A						
Thailand	43.55	40.42	-3.13	-7.19	39.91*	-0.51	-1.25
Vietnam	75.90	74.98	-0.92	-1.21	74.33	-0.65	-0.87

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

Table 17 Soybean planted area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/2021)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	892.66	890.34	-2.31	-0.26	880.41	-9.94	-1.12
Brunei	N/A						
Cambodia	26.08	45.78	19.70	75.55	47.84*	2.06	4.50
Indonesia	650.74	631.25	-19.49	-2.99	618.62*	-12.62	-2.00
Lao PDR	2.03	2.60	0.57	28.08	2.65*	0.05	1.79
Malaysia	N/A						
Myanmar	139.15	137.49	-1.67	-1.20	138.86*	1.37	1.00
Philippines	0.46	0.46*	0.00	-1.01	0.45*	0.00	0.00
Singapore	N/A						
Thailand	24.70	23.87	-0.83	-3.34	23.57*	-0.30	-1.25
Vietnam	49.50	48.90	-0.60	-1.21	48.41	-0.49	-1.00

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

Table 18 Soybean harvested area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/2021)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	891.91	890.10	-1.81	-0.20	880.02	-10.08	-1.13
Brunei	N/A						
Cambodia	25.72	45.61	19.89	77.31	47.52*	1.92	4.20
Indonesia	650.74	631.25	-19.49	-2.99	618.62*	-12.62	-2.00
Lao PDR	2.03	2.60	0.57	28.08	2.65*	0.05	1.79
Malaysia	N/A						
Myanmar	138.99	137.48	-1.51	-1.09	138.85*	1.37	1.00
Philippines	0.46	0.46*	0.00		0.45*	0.00	-1.00
Singapore	N/A						
Thailand	24.47	23.80	-0.66	-2.71	23.51*	-0.30	-1.25
Vietnam	49.50	48.90	-0.60	-1.21	48.41	-0.49	-1.00

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

Table 19 Soybean yield in ASEAN countries, 2019 - 2021

Unit: Tons/Hectare

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/2021)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	1.52	1.55	0.03	1.99	1.54	-0.01	-0.68
Brunei	N/A						
Cambodia	1.64	1.88	0.24	14.63	1.87*	-0.01	-0.54
Indonesia	1.50	1.53	0.02	1.50	1.51*	-0.02	-1.02
Lao PDR	2.82	2.39	-0.43	-15.25	2.34*	-0.05	-2.12
Malaysia	N/A						
Myanmar	1.49	1.50	0.01	0.67	1.50*	0.00	-0.05
Philippines	1.42	1.44*	0.02	1.56	1.47*	0.03	1.86
Singapore	N/A						
Thailand	1.78	1.70	-0.08	-4.60	1.70*	0.00	0.00
Vietnam	1.53	1.53	0.00	0.00	1.54	0.00	0.13

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, 2020

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
ASEAN	176	69				2	247
Brunei	N/A						
Cambodia	169						169
Indonesia	N/A						
Lao PDR	N/A						
Malaysia	N/A						
Myanmar	7					2	9
Philippines	N/A						
Singapore	N/A						
Thailand		69					69
Vietnam	N/A						

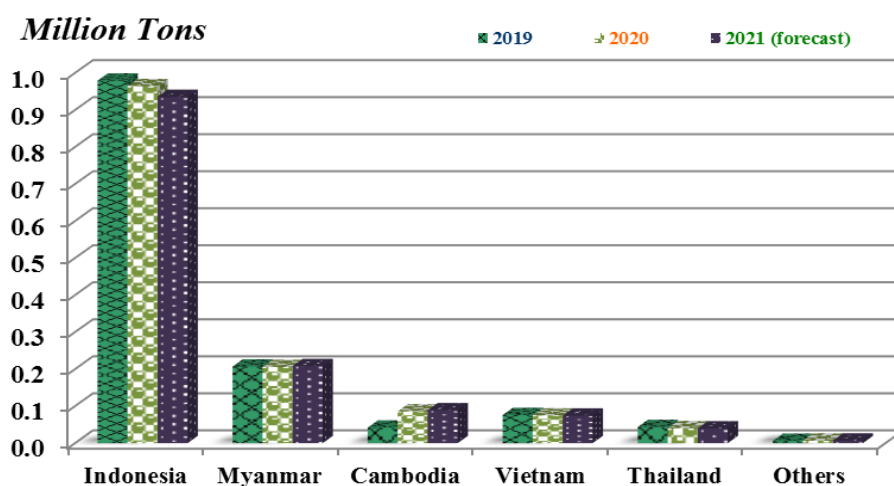


Figure 16 Soybean production of selected countries in ASEAN, 2019 - 2021

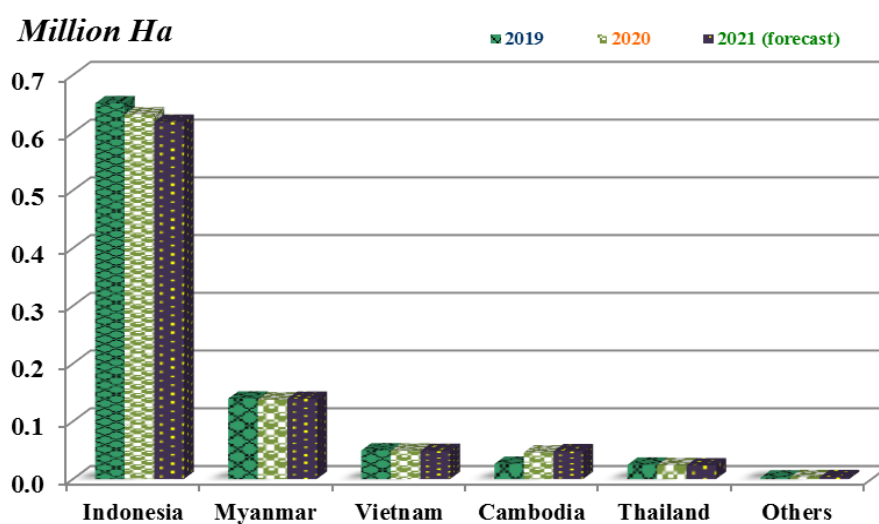


Figure 17 Soybean planted area of selected countries in ASEAN, 2019 - 2021

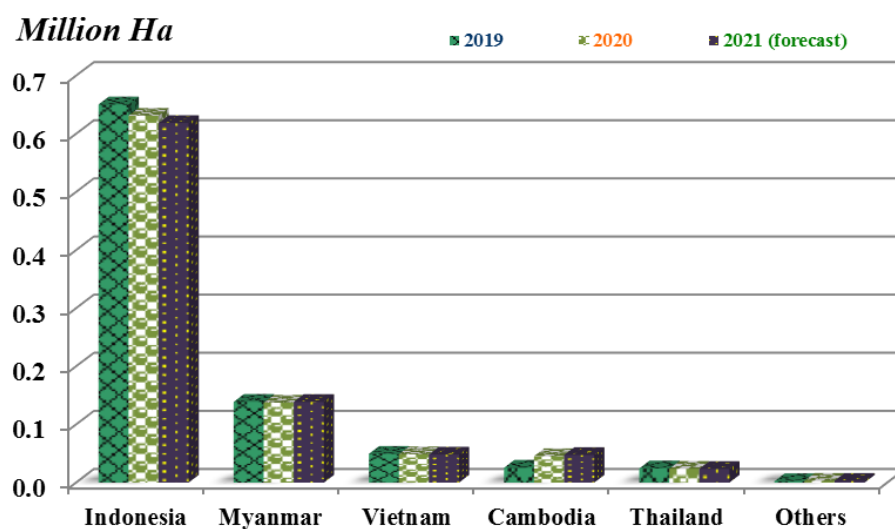


Figure 18 Soybean harvested area of selected countries in ASEAN, 2019 - 2021

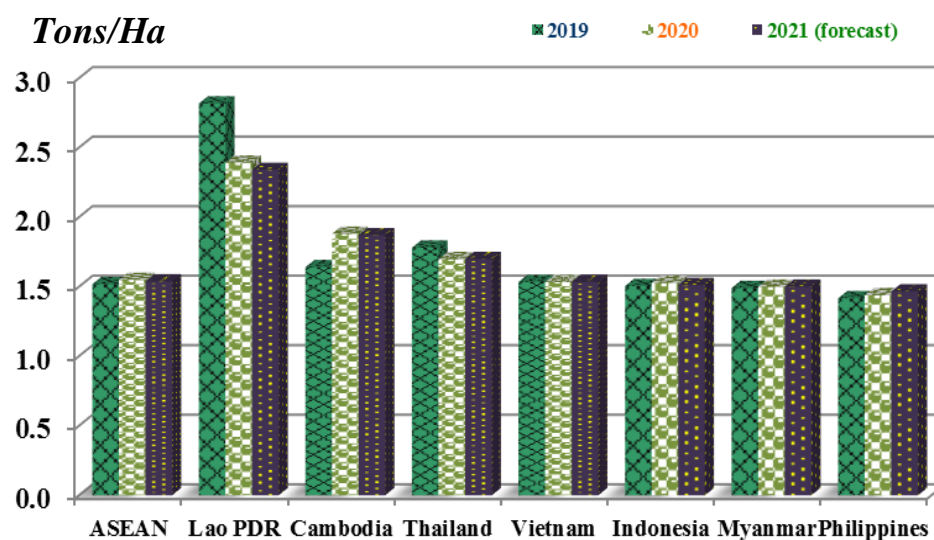


Figure 19 Soybean yield of countries in ASEAN, 2019 - 2021

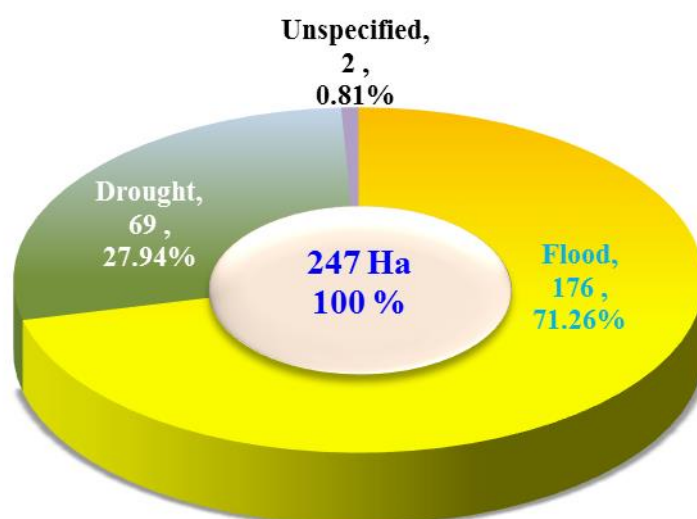


Figure 20 Soybean damaged area in ASEAN by cause of damage, 2020 (crop year 2019/20)

ASEAN Cassava Situation in 2020

► Production

The estimated cassava production (root fresh) in ASEAN in 2020 (crop year 2019/20) increased about 2.74 percent or 2.24 million tons compared to previous year (from 81.76 million tons in 2019 to 84.00 million tons in 2020). The increase in production found in 6 countries, which were Brunei, Cambodia, Indonesia, Lao PDR, Malaysia, and Myanmar (Table 21 - 24, Figure 21 - 24).

For the countries reported the most increase in production, **Lao PDR**, the production was reported to increase about 80.93 percent or 2.53 million tons (from 3.13 million tons in 2019 to 5.66 million tons in 2020). The increase in production came from the increase in planted area caused by the favorable weather and government policy. The yield increased as a result of favorable weather and better caring of crops from farmers.

For **Indonesia**, the production was reported to increase about 6.58 percent or 1.35 million tons (from 20.57 million tons in 2019 to 21.93 million tons in 2020). The increase in production came from the increase in planted area and yield due to favorable weather and government policy.

For **Cambodia**, the production was reported to increase about 2.00 percent or 0.28 million tons (from 13.80 million tons in 2019 to 14.08 million tons in 2020). The increase in production came from the increase in planted area.

For **Myanmar**, the production was reported to increase about 1.11 percent or 0.0044 million tons (from 0.395 million tons in 2019 to 0.399 million tons in 2020). The increase in production came from the increase yield because farmers took better care of the crop.

For **Malaysia**, the production was reported to increase about 5 percent or 0.0019 million tons (from 0.0385 million tons in 2019 to 0.0404 million tons in 2020). The increase in

production came from the increased in planted area and yield caused by the farmers' response to price increase.

For **Brunei**, the production was reported to increase about 5 percent or 14.82 tons from 296.35 tons in 2019 to 311.16 tons in 2020.

The countries reported the decrease in production, **Thailand**, the production was reported to decrease about 5.10 percent or 1.59 million tons (from 31.08 million tons in 2019 to 29.49 million tons in 2020). The decrease in production came from the decrease in yield caused by the drought, diseases (Cassava mosaic disease) and lack of cassava roots varieties.

For **Vietnam**, the decrease in production was approximately 3 percent or 0.30 million tons (from 10.10 million tons in 2019 to 9.80 million tons in 2020). The decrease in production came from decrease in planted area and yield. The decreasing in planted area resulted from the farmer' response to price decrease and unfavorable weather. While, the decreasing in yield caused by drought and diseases.

For the **Philippines**, the decrease in production was approximately 1.57 percent or 0.04 million tons (from 2.63 million tons in 2019 to 2.59 million tons in 2020). The decrease in production came from the decrease in planted area.

► Damaged Area

The cassava damaged area in 2020 in the ASEAN was reported to be 56,409 hectares. The damaged area, which was only occurred in Thailand, was caused by drought (36,322 hectares or 64.39 percent) and diseases (19,558 or 34.67 percent). While, the rest of unspecified cause of damaged area (528 hectare or 0.94 percent) was happened in Malaysia (Table 25, Figure 25).

Table 21 Cassava production in ASEAN countries, 2019 - 2021

Unit: 1,000 Tons

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	81,759.87	83,996.52	2,236.65	2.74	86,008.68	2,012.16	2.40
Brunei	0.296	0.311	0.0148	5.00	0.327	0.02	5.00
Cambodia	13,804.34	14,080.43	276.09	2.00	14,362.04	281.61	2.00
Indonesia	20,574.58	21,928.60	1,354.02	6.58	22,441.19	512.59	2.34
Lao PDR	3,127.59	5,658.87	2,531.28	80.93	5,964.45	305.58	5.40
Malaysia	38.50	40.42	1.92	5.00	42.44	2.02	5.00
Myanmar	394.61	399.00	4.39	1.11	398.20	-0.80	-0.20
Philippines	2,634.09	2,592.83	-41.26	-1.57	2,579.60	-13.23	-0.51
Singapore	N/A						
Thailand	31,079.97	29,493.34	-1,586.63	-5.10	30,613.77	1,120.43	3.80
Vietnam	10,105.90	9,802.72	-303.18	-3.00	9,606.67	-196.05	-2.00

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

Table 22 Cassava planted area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	3,800.40	3,961.36	160.96	4.24	4,016.24	54.88	1.39
Brunei	N/A						
Cambodia	637.99	658.65	20.66	3.24	679.98	21.33	3.24
Indonesia	870.95	914.24	43.29	4.97	932.53	18.28	2.00
Lao PDR	101.20	172.10	70.90	70.06	180.71	8.61	5.00
Malaysia	2.48	2.56	0.07	3.00	2.63	0.08	3.00
Myanmar	33.37	33.07	-0.31	-0.91	32.90	-0.17	-0.50
Philippines	223.15	217.53	-5.62	-2.52	214.83	-2.70	-1.24
Singapore	N/A						
Thailand	1,411.75	1,454.10	42.35	3.00	1,468.64	14.54	1.00
Vietnam	519.50	509.11	-10.39	-2.00	504.02	-5.09	-1.00

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

Table 23 Cassava harvested area in ASEAN countries, 2019 - 2021

Unit: 1,000 Hectares

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	3,774.82	3,904.95	130.13	3.45	3,942.26	37.31	0.96
Brunei	N/A						
Cambodia	637.99	658.65	20.66	3.24	679.98	21.33	3.24
Indonesia	870.95	914.24	43.29	4.97	932.53	18.28	2.00
Lao PDR	101.20	172.10	70.90	70.06	180.71	8.61	5.00
Malaysia	2.00	2.03	0.03	1.40	2.09	0.06	3.00
Myanmar	33.37	33.07	-0.31	-0.91	32.90	-0.17	-0.50
Philippines	223.15	217.53	-5.62	-2.52	214.83	-2.70	-1.24
Singapore	N/A						
Thailand	1,386.66	1,398.22	11.56	0.83	1,395.21	-3.01	-0.22
Vietnam	519.50	509.11	-10.39	-2.00	504.02	-5.09	-1.00

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

Table 24 Cassava yield in ASEAN countries, 2019 - 2021

Unit: Tons/Hectare

Country	2019 (2018/19)	2020 (2019/20)	Change 2020 over 2019		2021 (2020/21)	Change 2021 over 2020	
			Quantities	(%)		Quantities	(%)
ASEAN	21.66	21.51	-0.15	-0.69	21.82	0.31	1.44
Brunei	N/A						
Cambodia	21.64	21.38	-0.26	-1.20	21.12	-0.26	-1.22
Indonesia	23.62	23.99	0.37	1.57	24.06	0.07	0.29
Lao PDR	30.91	32.88	1.97	6.37	33.01	0.13	0.40
Malaysia	19.26	19.94	0.68	3.53	20.33	0.39	1.96
Myanmar	11.82	12.07	0.25	2.12	12.10	0.03	0.25
Philippines	11.80	11.92	0.12	1.02	12.01	0.09	0.76
Singapore	N/A						
Thailand	22.41	21.09	-1.32	-5.89	21.94	0.85	4.03
Vietnam	19.45	19.25	-0.20	-1.03	19.06	-0.19	-0.99

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, 2020

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecitfy	Total
ASEAN		36,322		19,558		528	56,409
Brunei	N/A						
Cambodia	N/A						
Indonesia	N/A						
Lao PDR	N/A						
Malaysia						528	528
Myanmar	N/A						
Philippines	N/A						
Singapore	N/A						
Thailand		36,322		19,558			55,880
Vietnam	N/A						

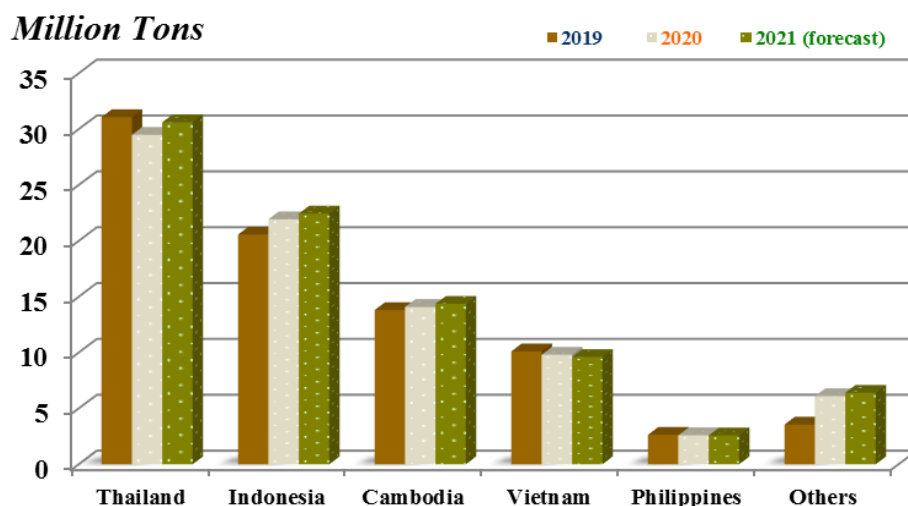


Figure 21 Cassava production of selected countries in ASEAN, 2019 - 2021

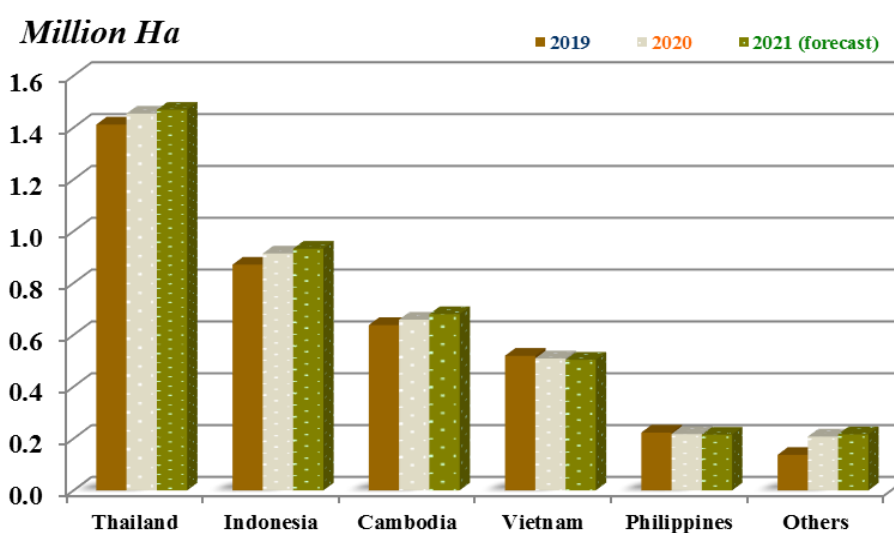


Figure 22 Cassava planted area of selected countries in ASEAN, 2019 – 2021

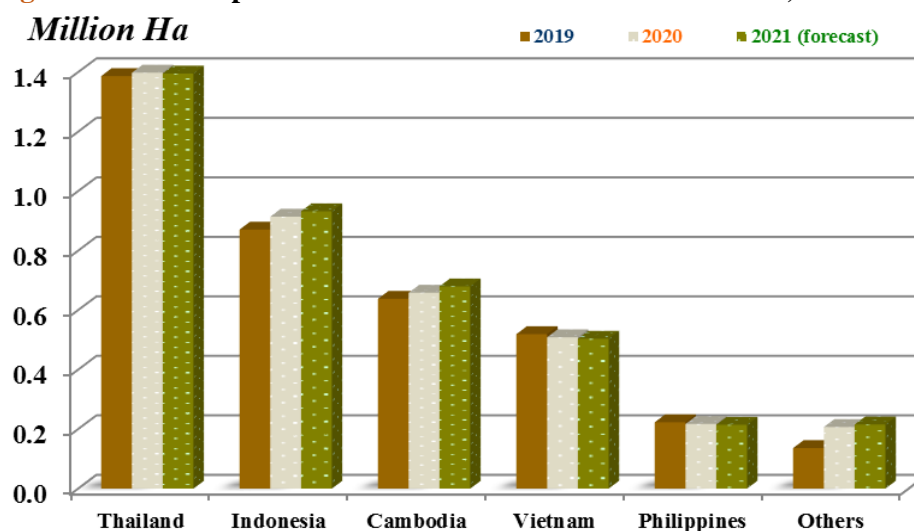


Figure 23 Cassava harvested area of selected countries in ASEAN, 2019 - 2021

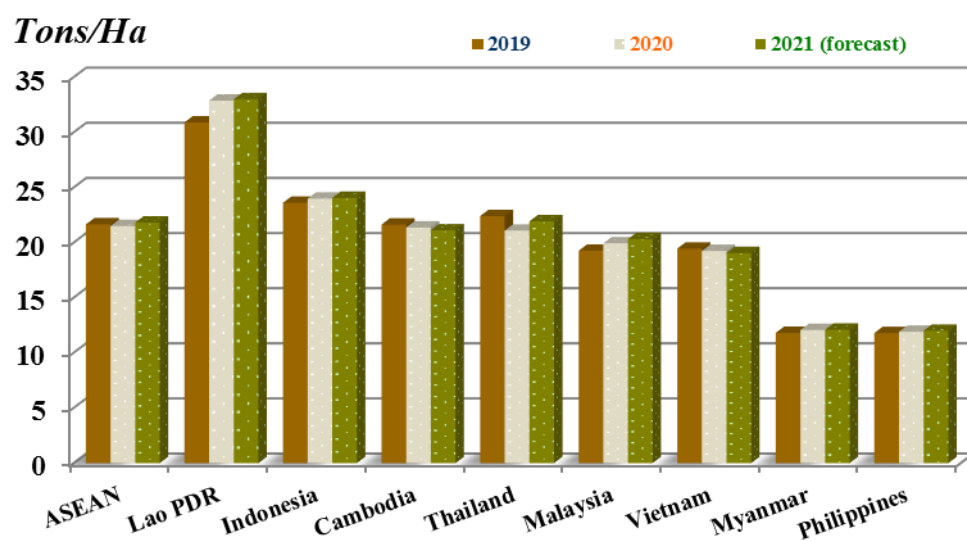


Figure 24 Cassava yield of countries in ASEAN, 2019 - 2021

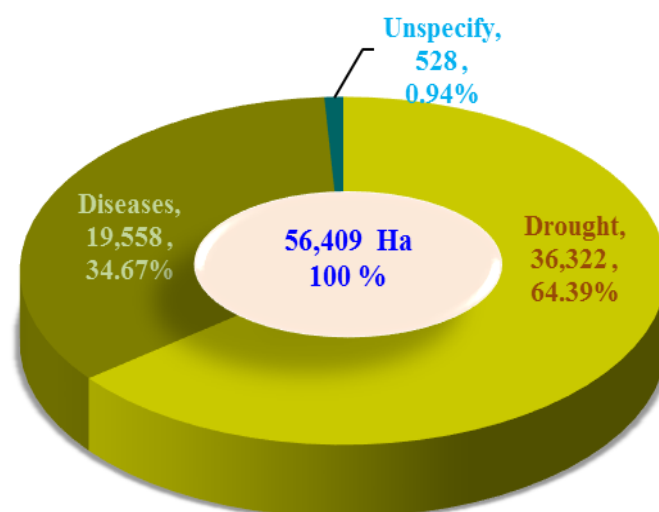


Figure 25 Soybean damaged area in ASEAN by cause of damage, 2020 (2019/20)