



ASEAN FOOD SECURITY INFORMATION SYSTEM (AFSIS)

Report on Early Warning Information
No.20 Mar 2018



AFSIS

ASEAN Food Security Information System



ASEAN Rice Situation in 2017

Production

ASEAN paddy production in 2017 (crop year 2016/17) was estimated to be 219.77 million tons, an increase of 7.91 million tons or 3.73 percent compare to 2016 (crop year 2015/16) (211.86 million tons) was due to the increase in planted area and yield. Most of the producing countries expected an increase in production except Myanmar, and Vietnam. (Table 1 – 4, Figure 1 – 4).

For **Brunei**, an increase in production came from the increase in planted area.

For **Cambodia**, the estimate production was 9.95 million tons, an increase in production came from the increase in both area and yield.

For **Indonesia**, the estimate production was 81.57 million tons, an increase in production came from the increase in planted area.

For **Lao PDR**, the estimate production was 4.34 million tons, an increase in production came from the increase in area.

For **Malaysia**, the estimate production was 2.90 million tons, an increase in production came from the increase in yield.

For **Myanmar**, the estimate production was 27.26 million tons, a decrease in production came from the decrease in planted area and yield.

For **the Philippines**, the estimate production was 18.55 million tons, an increase in production derived from the increase in planted area and yield.

For **Thailand**, the estimate production was 31.86 million tons, an increase in production came from the increase in planted area and yield.

In **Vietnam**, the estimate production was 43.34 million tons, a decrease in production came from the decrease in area and yield.

Damaged Area

The damaged area of paddy in ASEAN in 2017 (crop year 2016/17) was reported to be 0.57 million hectares. 78.43 percent or 0.45 million hectares of the damaged area caused by flood. The damage has occurred the most in Thailand about 0.30 million hectares. The damage was caused by many factors such as the drought, and pests (Table 5, Figure 5).

Table 1 Paddy production in ASEAN countries, 2016-2018

Unit: 1,000 Tons

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	211,855.06	219,765.05	7,910.00	3.73	222,025.46	2,260.41	1.03
Brunei	2.44	2.51	0.07	3.00	2.76	0.25	9.86
Cambodia	9,335.28	9,952.27	616.99	6.61	10,515.42	563.15	5.66
Indonesia	79,354.07	81,568.70	2,214.63	2.79	83,263.21	1,694.51	2.08
Lao PDR	4,148.80	4,339.47	190.67	4.60	4,502.58	163.10	3.76
Malaysia	2,738.97	2,901.90	162.93	5.95	3,064.83	162.93	5.61
Myanmar	27,763.57	27,255.44	-508.13	-1.83	29,491.20	2,235.76	8.20
Philippines	17,473.17	18,549.55	1,076.38	6.16	19,355.05	805.50	4.34
Singapore	-	-	-	-	-	-	-
Thailand	27,421.01	31,857.19	4,436.18	16.18	32,240.43	383.24	1.20
Vietnam	43,617.75	43,338.03	-279.72	-0.64	39,590.00	-3,748.03	-8.65

Table 2 Paddy planted area in ASEAN countries, 2016-2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	49,574.75	51,192.26	1,617.51	3.26	51,090.52	-101.74	-0.20
Brunei	1.53	1.58	0.05	3.00	1.58	0.00	0.00
Cambodia	3,051.41	3,118.10	66.69	2.19	3,206.52	88.42	2.84
Indonesia	15,180.30	15,627.36	447.07	2.95	15,457.27	-170.09	-1.09
Lao PDR	976.49	1,017.49	41.00	4.20	1,037.89	20.40	2.00
Malaysia	688.77	688.28	-0.49	-0.07	687.78	-0.50	-0.07
Myanmar	7,211.89	7,161.28	-50.61	-0.70	7,427.65	266.37	3.72
Philippines	4,561.23	4,758.83	197.60	4.33	4,857.67	98.85	2.08
Singapore	-	-	-	-	-	-	-
Thailand	10,112.19	11,056.32	944.14	9.34	11,395.16	338.84	3.06
Vietnam	7,790.94	7,763.02	-27.92	-0.36	7,019.00	-744.02	-9.58

Table 3 Paddy harvested area in ASEAN countries, 2016-2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	48,884.12	50,618.66	1,734.54	3.55	50,383.68	-234.99	-0.46
Brunei	1.39	1.44	0.04	3.01	1.58	0.14	9.96
Cambodia	3,025.63	3,099.77	74.14	2.45	3,190.39	90.62	2.92
Indonesia	15,156.02	15,558.13	402.11	2.65	15,457.27	-100.86	-0.65
Lao PDR	973.33	1,017.49	44.16	4.54	1,037.89	20.40	2.00
Malaysia	687.82	681.39	-6.43	-0.94	680.90	-0.49	-0.07
Myanmar	7,098.16	7,063.13	-35.03	-0.49	7,377.82	314.69	4.46
Philippines	4,522.79	4,722.46	199.67	4.41	4,857.67	135.22	2.86
Singapore	-	-	-	-	-	-	-
Thailand	9,628.03	10,711.84	1,083.81	11.26	10,761.15	49.31	0.46
Vietnam	7,790.94	7,763.02	-27.92	-0.36	7,019.00	-744.02	-9.58

Note: Vietnam reported only planted area.

Table 4 Paddy yield in ASEAN countries, 2016-2018

Unit: Ton/Hectare

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	4.33	4.34	0.01	0.23	4.41	0.07	1.61
Brunei	1.75	1.75	0.00	0.00	1.75	0.00	0.00
Cambodia	3.09	3.21	0.12	3.88	3.30	0.09	2.80
Indonesia	5.24	5.24	0.00	0.00	5.39	0.15	2.86
Lao PDR	4.26	4.26	0.00	0.00	4.34	0.08	1.88
Malaysia	3.98	4.26	0.28	7.04	4.50	0.24	5.63
Myanmar	3.91	3.86	-0.05	-1.28	4.00	0.14	3.63
Philippines	3.86	3.93	0.07	1.81	3.98	0.05	1.27
Singapore	-	-	-	-	-	-	-
Thailand	2.85	2.97	0.12	4.21	3.00	0.03	1.01
Vietnam	5.60	5.58	-0.02	-0.36	5.64	0.06	1.08

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

Table 5 Paddy damaged area in ASEAN by cause of damage, 2017

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Other	Unspecified	Total
ASEAN	449,862	43,155	30,523	13,712	36,344	0	573,596
Brunei	50	13	50	29			143
Cambodia	3,089	15,225	17				18,331
Indonesia	46,434	19,554	1,625	1,624			69,237
Lao PDR							0
Malaysia	344	688	4,127	1,725			6,883
Myanmar	97,588		404		160		98,152
Philippines			186		36,184		36,370
Singapore							0
Thailand	302,357	7,675	24,114	10,334			344,480
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

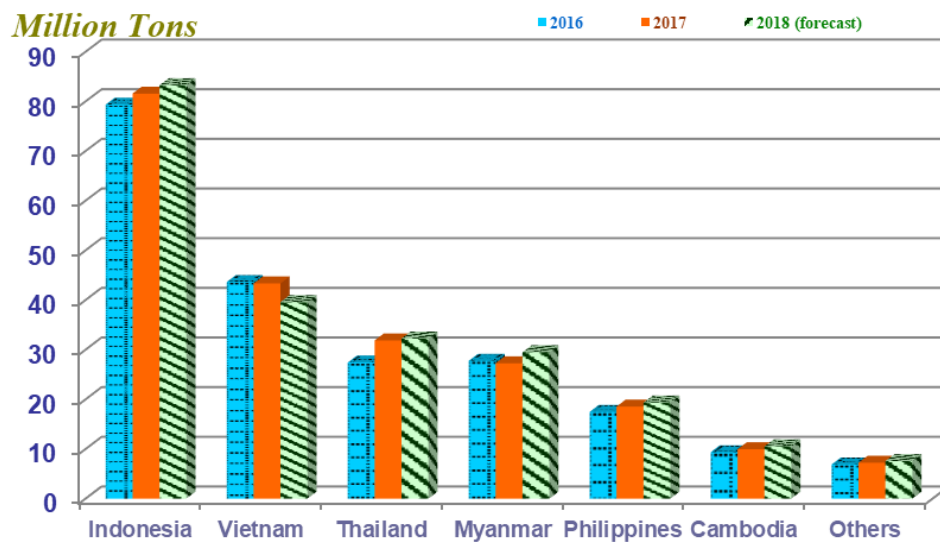


Figure 1 Paddy production of selected countries in ASEAN, 2016-2018

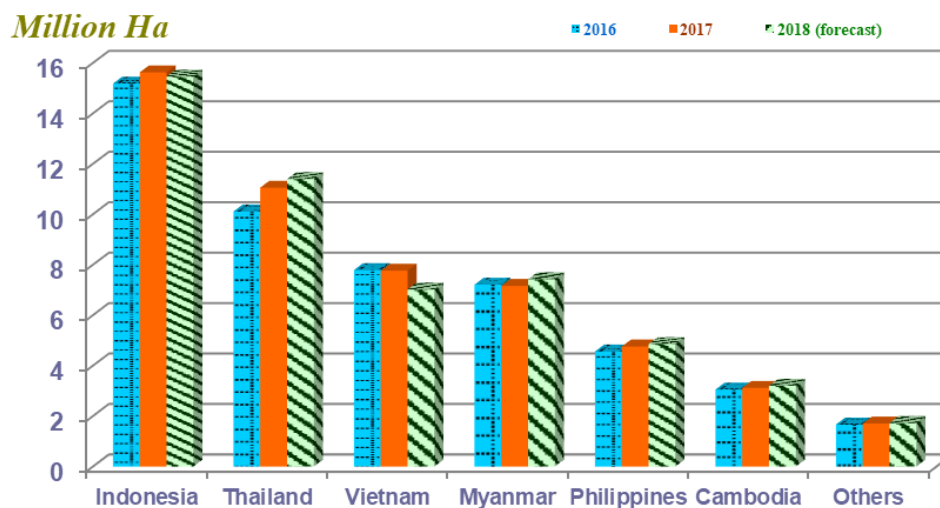


Figure 2 Paddy planted area of selected countries in ASEAN, 2016-2018

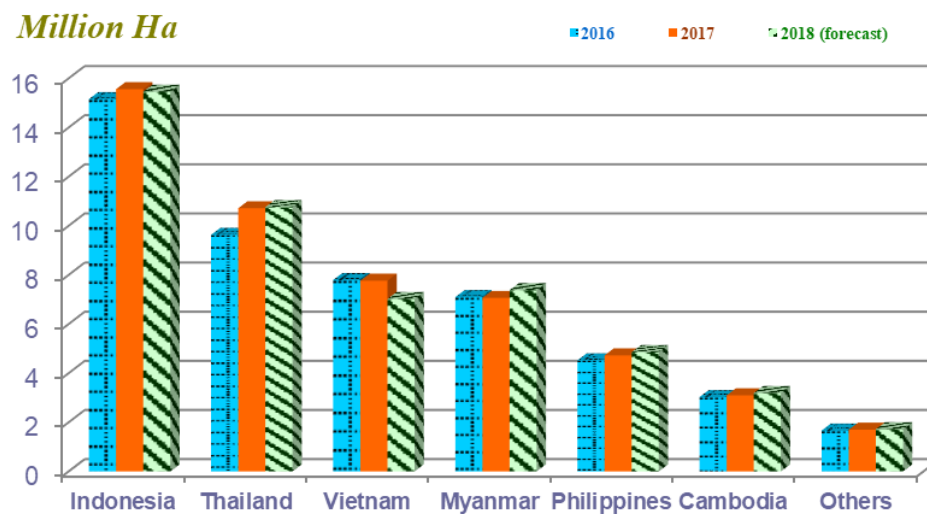


Figure 3 Paddy harvested area of selected countries in ASEAN, 2016-2018

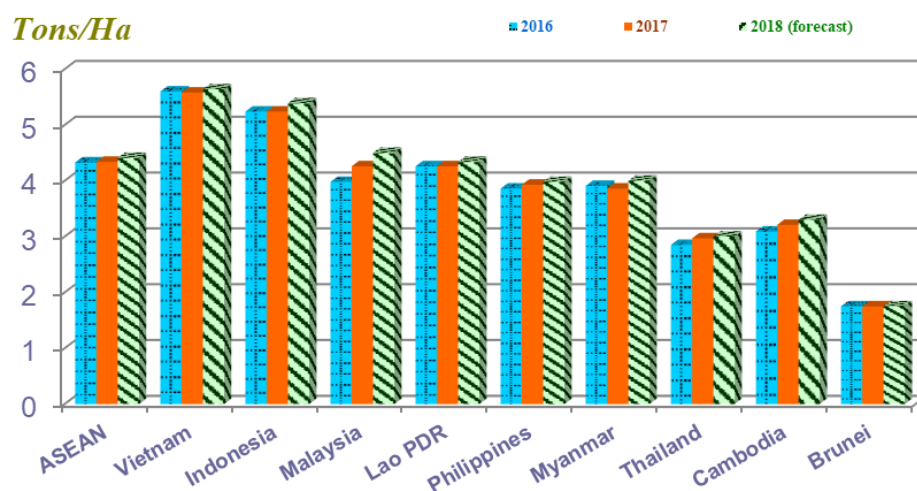


Figure 4 Paddy yield of countries in ASEAN, 2016-2018

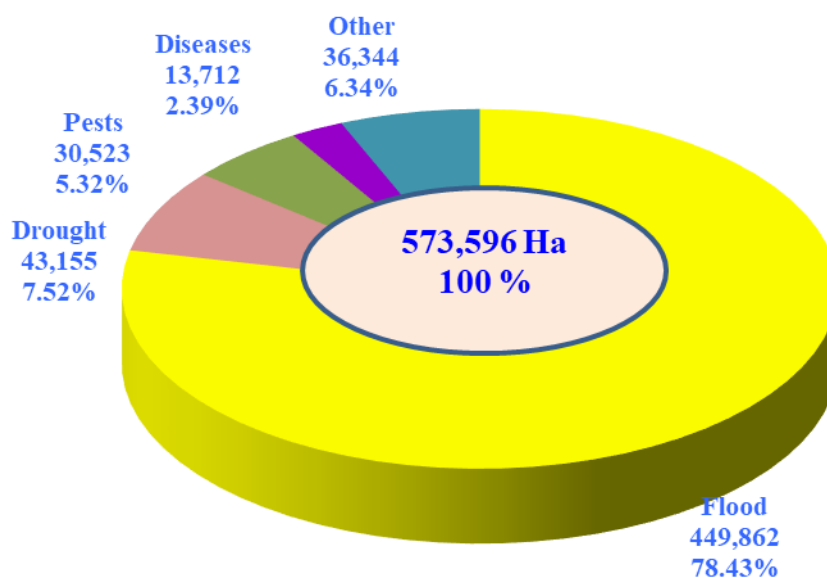


Figure 5 Paddy damaged area in ASEAN by cause of damage, 2017 (crop year 2016/17)

ASEAN Maize Situation in 2017

Production

The maize production in ASEAN in 2017 (crop year 2016/17) was reported to be 47.55 million tons, increase from 43.46 million tons in 2016 (crop year 2015/16) about 9 percent (4.09 million tons). The increase in production occurred mainly in Indonesia (approximately 12 percent or 2.84 million tons), and the Philippines (approximately 16 percent or 1.12 million tons). However, Lao PDR, and Vietnam were reported a decrease production. (Table 6 – 9, Figure 6 – 9).

For **Cambodia**, the production in 2017 was 0.66 million tons. An increase compare to previous year came from the increase in planted area and yield.

For **Indonesia**, the production in 2017 was 26.03 million tons. An increase compare to previous year came from the increase in planted area.

For **Lao PDR**, the production in 2017 was 1.23 million tons. A decrease compare to previous year came from the decrease in planted area.

For **Myanmar**, the production in 2017 was 1.83 million tons. An increase compare to previous year came from the increase in planted area and yield.

The **Philippines**, the production in 2017 was 8.09 million tons. An increase compare to previous year came from the increase in planted area and yield.

For **Thailand**, the production in 2017 was 4.60 million tons. An increase compare to previous year came from the increase in yield.

For **Vietnam**, the production in 2017 was 5.11 million tons. A decrease compare to previous year came from the decrease in planted area.

Damaged Area

The damaged area of maize in 2017 was reported to be 22,336 hectares. The total damaged area of 4,708 hectares caused by the drought which mainly occurred in Indonesia (3,956 hectares). Total flood area of 14,084 hectares was found in mainly in Thailand (5,907 hectares), Indonesia (3,146 hectares), and Cambodia (3,050 hectares). (Table 10, Figure 10)

Table 6 Maize production in ASEAN countries, 2016 – 2018

Unit: 1,000 Tons

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	43,463.88	47,551.96	4,088.08	9.41	48,131.92	579.96	1.22
Brunei	-	-	-	-	-	-	-
Cambodia	399.81	662.78	262.96	65.77	1,231.47	568.69	85.80
Indonesia	23,187.62	26,028.47	2,840.86	12.25	26,206.88	178.41	0.69
Lao PDR	1,552.36	1,229.15	-323.21	-20.82	1,183.76	-45.39	-3.69
Malaysia	-	-	-	-	-	-	-
Myanmar	1,748.86	1,830.96	82.10	4.69	1,889.78	58.82	3.21
Philippines	6,965.93	8,086.98	1,121.06	16.09	7,626.42	-460.56	-5.70
Singapore	-	-	-	-	-	-	-
Thailand	4,394.14	4,601.22	207.07	4.71	4,919.11	317.90	6.91
Vietnam	5,215.16	5,112.40	-102.76	-1.97	5,074.50	-37.90	-0.74

Table 7 Maize planted area in ASEAN countries, 2016 – 2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	9,948.10	10,707.92	759.82	7.64	10,092.27	-615.66	-5.75
Brunei	-	-	-	-	-	-	-
Cambodia	112.57	144.52	31.95	28.38	227.34	82.82	57.30
Indonesia	4,425.92	5,055.04	629.12	14.21	4,569.99	-485.05	-9.60
Lao PDR	258.91	201.50	-57.41	-22.17	212.50	11.00	5.46
Malaysia	-	-	-	-	-	-	-
Myanmar	471.93	490.17	18.24	3.87	499.27	9.10	1.86
Philippines	2,485.33	2,684.40	199.07	8.01	2,422.43	-261.97	-9.76
Singapore	-	-	-	-	-	-	-
Thailand	1,042.46	1,032.28	-10.18	-0.98	1,075.73	43.45	4.21
Vietnam	1,150.98	1,100.00	-50.97	-4.43	1,085.00	-15.00	-1.36

Table 8 Maize harvested area in ASEAN countries, 2016 – 2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	9,823.71	10,685.59	861.88	8.77	10,082.32	-603.27	-5.65
Brunei	-	-	-	-	-	-	-
Cambodia	104.16	141.44	37.28	35.80	226.88	85.44	60.41
Indonesia	4,387.58	5,047.92	660.33	15.05	4,569.99	-477.93	-9.47
Lao PDR	258.91	201.50	-57.41	-22.17	212.50	11.00	5.46
Malaysia	-	-	-	-	-	-	-
Myanmar	469.75	488.11	18.36	3.91	495.87	7.76	1.59
Philippines	2,417.50	2,681.12	263.62	10.90	2,422.43	-258.68	-9.65
Singapore	-	-	-	-	-	-	-
Thailand	1,034.84	1,025.51	-9.33	-0.90	1,069.64	44.13	4.30
Vietnam	1,150.98	1,100.00	-50.97	-4.43	1,085.00	-15.00	-1.36

Table 9 Maize Yield in ASEAN countries, 2016 – 2018

Unit: Ton/Hectare

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	4.42	4.45	0.03	0.68	4.77	0.32	7.19
Brunei	-	-	-	-	-	-	-
Cambodia	3.84	4.69	0.85	22.14	5.43	0.74	15.78
Indonesia	5.28	5.16	-0.12	-2.27	5.73	0.57	11.05
Lao PDR	6.00	6.10	0.10	1.67	5.57	-0.53	-8.69
Malaysia	-	-	-	-	-	-	-
Myanmar	3.72	3.75	0.03	0.81	3.81	0.06	1.60
Philippines	2.88	3.02	0.14	4.86	3.15	0.13	4.30
Singapore	-	-	-	-	-	-	-
Thailand	4.25	4.49	0.24	5.65	4.60	0.11	2.45
Vietnam	4.53	4.65	0.12	2.65	4.68	0.03	0.65

Table 10 Maize damaged area in ASEAN by cause of damage, 2017

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Unspecified	Others	Total
ASEAN	14,084	4,708	514	13	0	2,783	22,336
Brunei							0
Cambodia	3,050	33					3,083
Indonesia	3,146	3,956	23				7,125
Lao PDR							0
Malaysia							0
Myanmar	1,961				103	-	2,064
Philippines	21	525	23			2,717	3,285
Singapore							0
Thailand	5,907	194	468	13	131	66	6,779
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

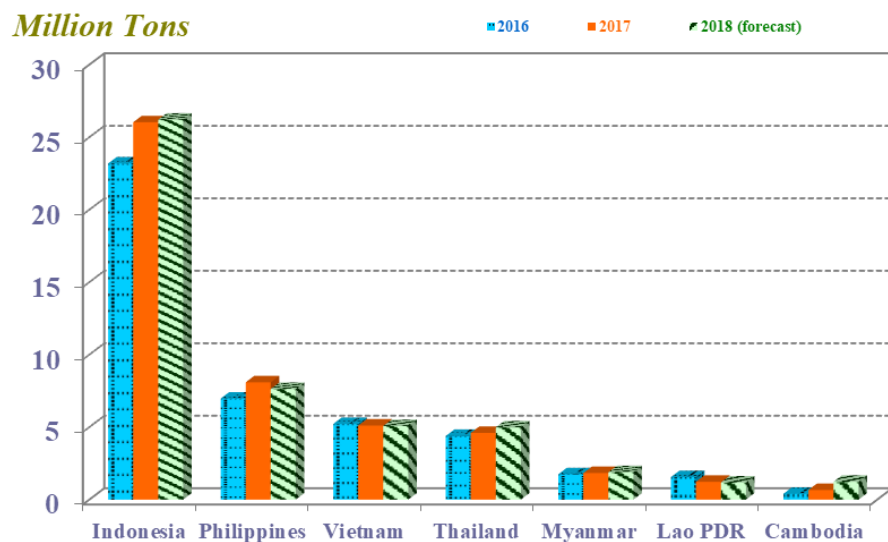


Figure 6 Maize production of selected countries in ASEAN, 2016 – 2018

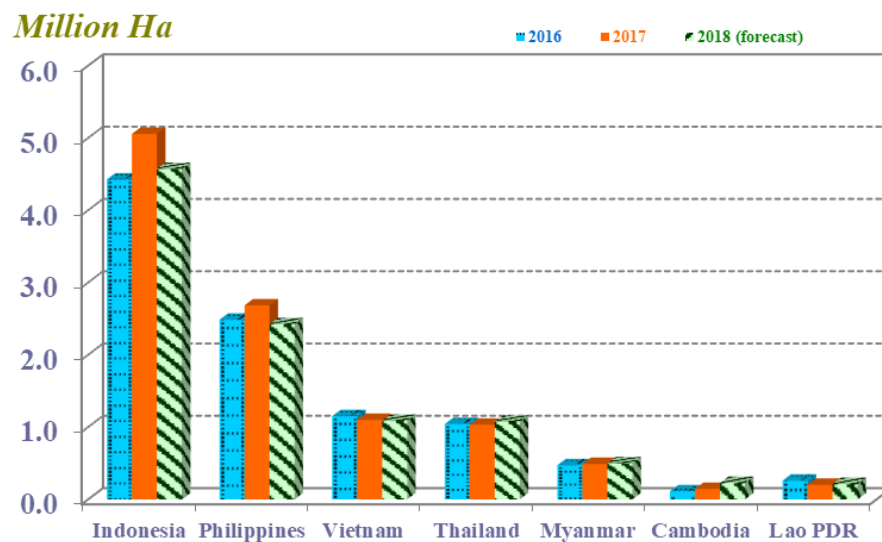


Figure 7 Maize planted area of selected countries in ASEAN, 2016 – 2018

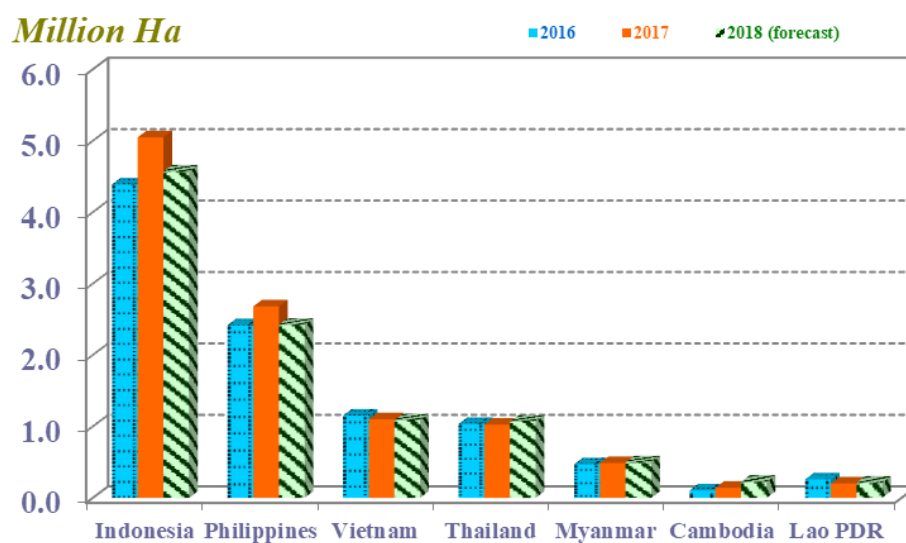


Figure 8 Maize harvested area of selected countries in ASEAN, 2016 – 2018

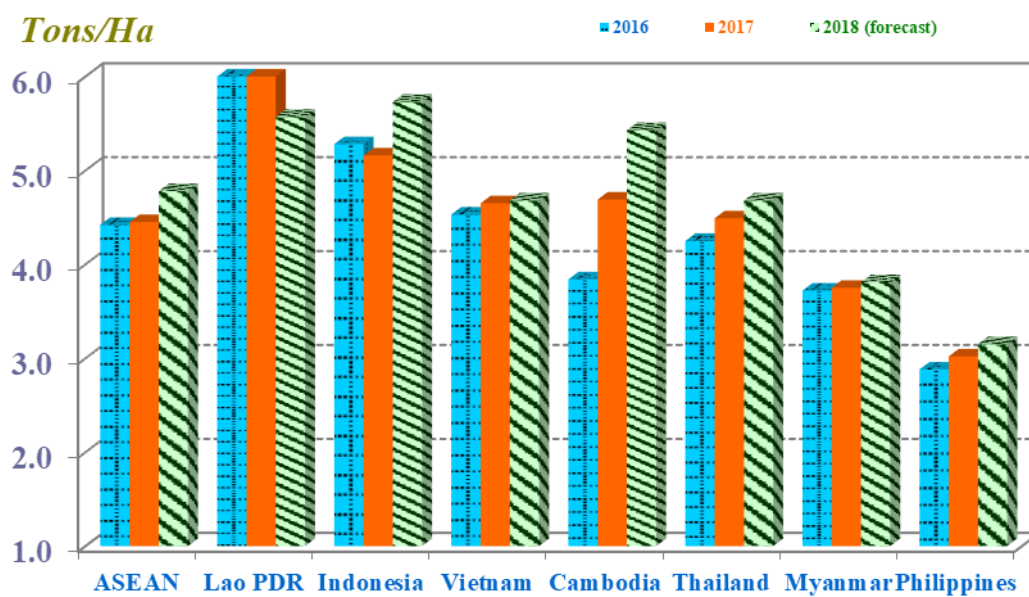


Figure 9 Maize yield of countries in ASEAN, 2016 – 2018

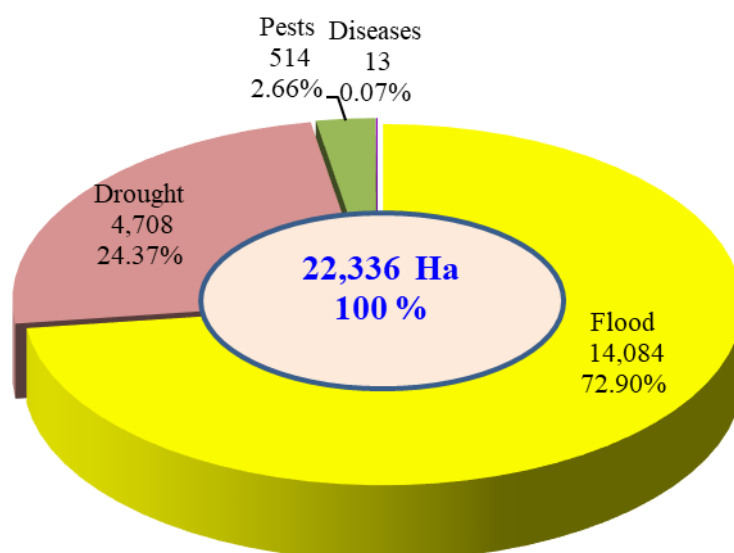


Figure 10 Maize damaged area in ASEAN by cause of damage, 2017 (crop year 2016/17)

ASEAN Sugar Situation in 2017

Production

The sugarcane production in ASEAN in 2017 (2016/17 crop year) was reported to be 167.28 million tons, an increase of 5.58 million tons from 161.71 million tons in 2016 (approximately 3 percent) came from the increase in production from most of country except Lao PDR and Thailand. (Table 11 – 14, Figure 11 – 14).

For **Cambodia**, the increase in sugarcane production from 0.71 million tons in 2016 to 0.74 million tons in 2017 caused by the expansion of planted area while the yield decreased.

Indonesia reported an increase of sugarcane production from 14.45 million tons in 2016 to 16.03 million tons in 2017. The increase was due to expand in both planted area and yield.

For **Lao PDR**, the sugarcane production of 2017 was decrease about 4 percent (0.08 million tons decrease) compare to 2016. The decrease was due to a decreasing in planted area.

In **Myanmar**, reported sugarcane production increase from 10.14 million tons in 2016 to 10.44 million tons in 2017. The increase of production caused by the expand in planted area and yield.

For **the Philippines**, the sugarcane production reported to be increase from 23.01 million tons in 2016 to 27.60 million tons in 2017. The increase in its production was due to the increase in both area and yield.

Thailand, the sugarcane production was decrease from 94.14 million tons in 2016 to 93.09 million tons in 2017. The decrease was due to the decrease in planted area which was damage by flood and drought.

In **Vietnam**, the production was reported to be increase from 17.25 million tons in 2016 to 17.45 million tons in 2017. The increase caused by the expand in planted area in responded to the price increase and farmer taking care their crop better and use more improved varieties.

Damaged Area

The sugarcane damaged area in ASEAN in 2017 was reported to be 57,893 hectares. 56,332 hectares caused by flood and drought which occurred mainly in Thailand. (Table 15, Figure 15).

Table 11 Sugarcane production in ASEAN countries, 2016-2018

Unit: 1,000 Tons

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	161,709.17	167,285.27	5,576.11	3.45	206,625.84	39,340.57	23.52
Brunei	-	-	-	-	-	-	-
Cambodia	709.10	740.94	31.83	4.49	629.32	-111.62	-15.06
Indonesia	14,448.95	16,025.03	1,576.08	10.91	16,071.71	46.68	0.29
Lao PDR	2,019.00	1,944.00	-75.00	-3.71	1,955.00	11.00	0.57
Malaysia	-	-	-	-	-	-	-
Myanmar	10,142.38	10,437.06	294.68	2.91	10,864.23	427.17	4.09
Philippines	23,005.11	27,599.78	4,594.67	19.97	24,421.79	-3,178.00	-11.51
Singapore	-	-	-	-	-	-	-
Thailand	94,138.47	93,088.46	-1,050.00	-1.12	135,073.80	41,985.34	45.10
Vietnam	17,246.15	17,450.00	203.85	1.18	17,610.00	160.00	0.92

Table 12 Sugarcane planted area in ASEAN countries, 2016-2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	2,825.37	2,818.26	-7.11	-0.25	3,214.51	396.25	14.06
Brunei	-	-	-	-	-	-	-
Cambodia	19.51	22.24	2.72	13.95	19.72	-2.52	-11.33
Indonesia	445.52	453.46	7.94	1.78	453.46	0.00	0.00
Lao PDR	36.18	32.00	-4.18	-11.55	34.00	2.00	6.25
Malaysia	-	-	-	-	-	-	-
Myanmar	161.91	164.09	2.17	1.34	176.49	12.40	7.56
Philippines	413.15	419.72	6.56	1.59	409.50	-10.21	-2.43
Singapore	-	-	-	-	-	-	-
Thailand	1,482.27	1,459.66	-22.61	-1.53	1,854.09	394.43	27.02
Vietnam	266.82	267.10	0.28	0.11	267.25	0.15	0.06

Table 13 Sugarcane harvested area in ASEAN countries, 2016-2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	2,766.72	2,760.36	-6.35	-0.23	3,142.54	382.18	13.85
Brunei	-	-	-	-	-	-	-
Cambodia	19.24	22.24	2.99	15.56	19.13	-3.10	-13.95
Indonesia	444.22	452.14	7.92	1.78	453.46	1.32	0.29
Lao PDR	36.18	32.00	-4.18	-11.55	34.00	2.00	6.25
Malaysia	-	-	-	-	-	-	-
Myanmar	161.84	163.65	1.81	1.12	176.49	12.84	7.84
Philippines	413.15	419.72	6.56	1.59	409.50	-10.21	-2.43
Singapore	-	-	-	-	-	-	-
Thailand	1,425.26	1,403.52	-21.74	-1.53	1,782.71	379.19	27.02
Vietnam	266.82	267.10	0.28	0.11	267.25	0.15	0.06

Table 14 Sugarcane yield in ASEAN countries, 2016-2018

Unit: Ton/Hectare

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	58.45	60.60	2.15	3.68	65.75	5.15	8.50
Brunei	-	-	-	-	-	-	-
Cambodia	36.85	33.32	-3.53	-9.58	32.89	-0.43	-1.29
Indonesia	32.53	35.44	2.91	8.95	35.44	0.00	0.00
Lao PDR	55.80	60.75	4.95	8.87	57.50	-3.25	-5.35
Malaysia	-	-	-	-	-	-	-
Myanmar	62.67	63.78	1.11	1.77	61.56	-2.22	-3.48
Philippines	55.68	65.76	10.08	18.10	59.64	-6.12	-9.31
Singapore	-	-	-	-	-	-	-
Thailand	66.05	66.33	0.28	0.42	75.77	9.44	14.23
Vietnam	64.64	65.33	0.69	1.07	65.89	0.56	0.86

Table 15 Sugarcane damaged area in ASEAN by cause of damage, 2017

Country	Cause of Damage (Hectares)						Total
	Flood	Drought	Pests	Diseases	Others	Unspecified	
ASEAN	25,000	31,332	-	141	103	1,317	57,893
Brunei	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	1,317	1,317
Lao PDR	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-
Myanmar	-	332	-	-	103	-	435
Philippines	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-
Thailand	25,000	31,000	-	141	-	-	56,141
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

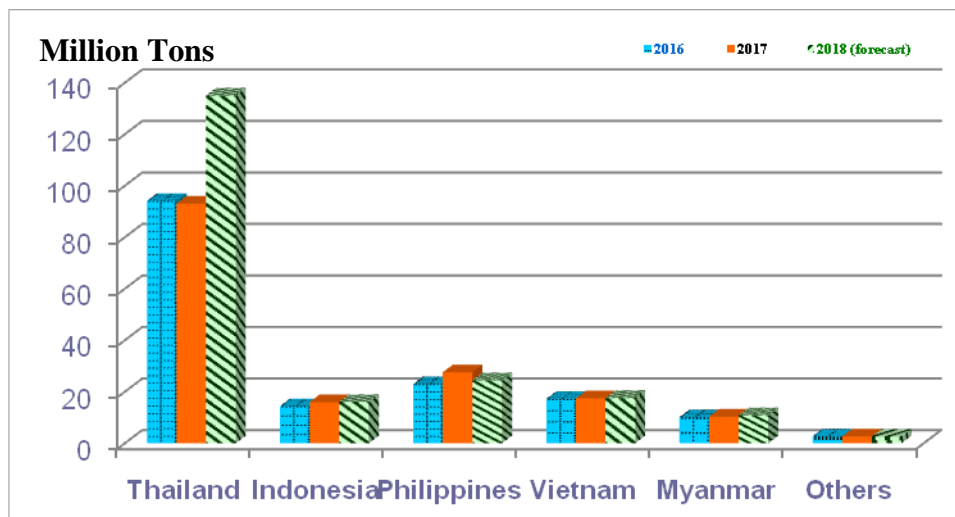


Figure 11 Sugarcane production of selected countries in ASEAN, 2016-2018

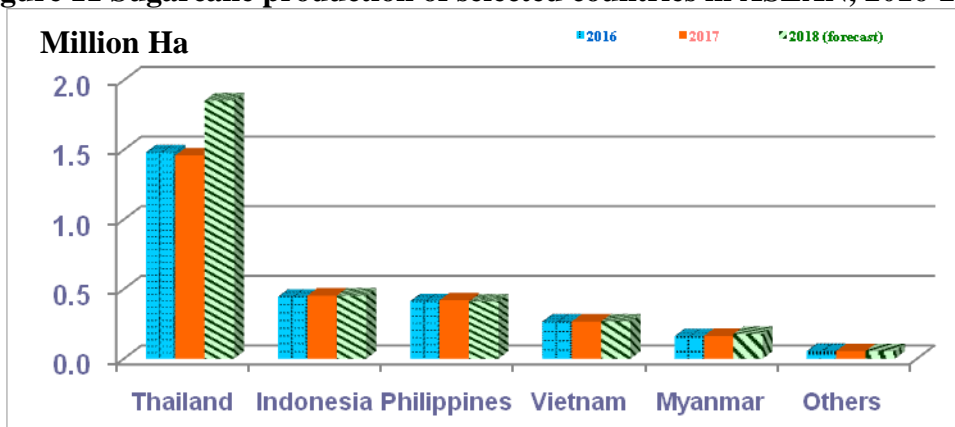


Figure 12 Sugarcane planted area of selected countries in ASEAN, 2016-2018

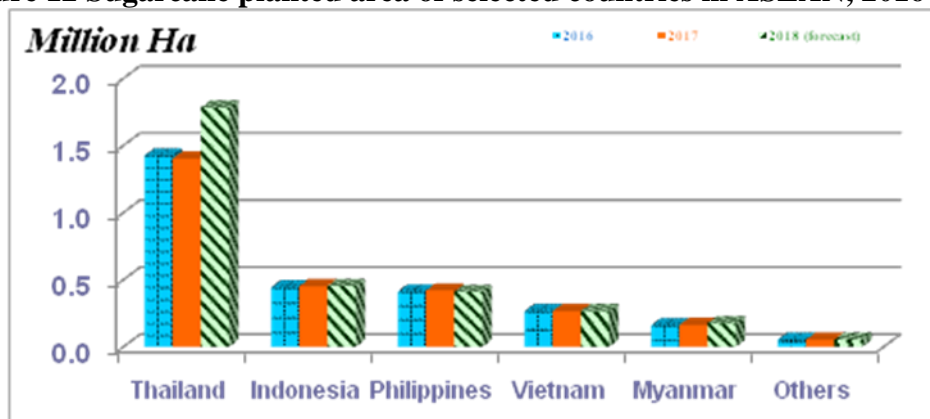


Figure 13 Sugarcane harvested area of selected countries in ASEAN, 2016-2018

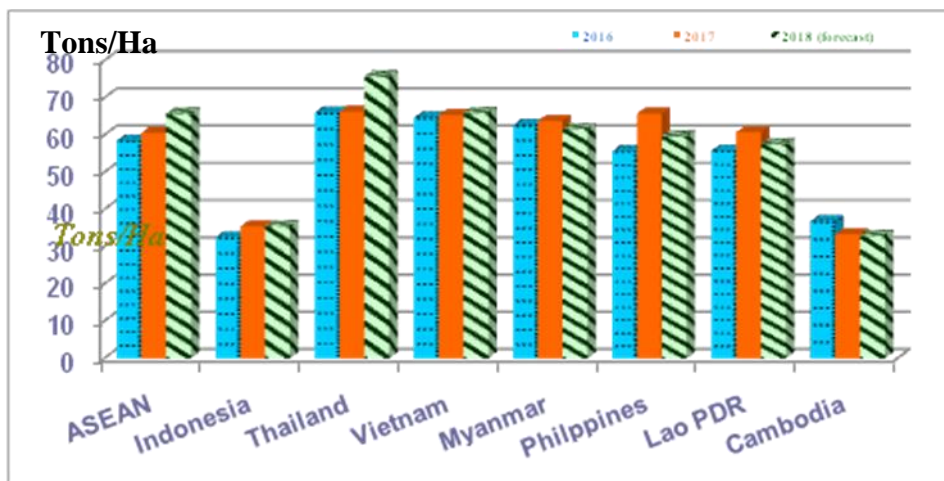


Figure 14 Sugarcane yield of selected countries in ASEAN, 2016-2018

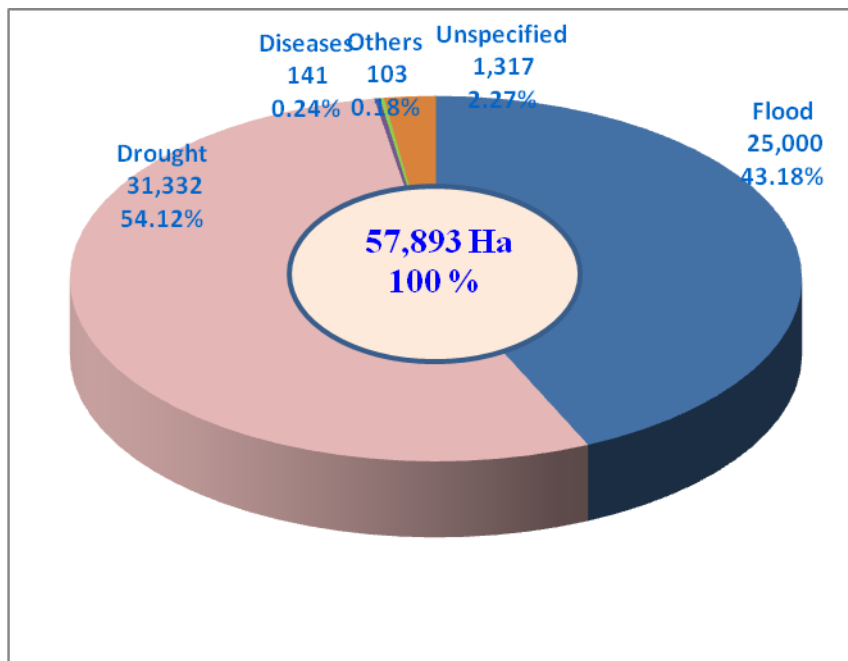


Figure 15 Sugarcane damaged area in ASEAN by cause of damage, 2017 (crop year 2016/17)

ASEAN Soybean Situation 2017

Production

The soybean production in ASEAN in 2017 (crop year 2016/ 17) reported to be 1.15 million tons, was decrease from 1.38 million tons in 2016 (crop year 2015/ 16). The decrease in production caused by the decline in most of the countries except Thailand. Indonesia, the largest producing country, reported a decrease in its production 0.18 million tons or 21.46 percent. (Table 11 – 14, Figure 11 – 14)

Cambodia, the soybean production reported to be decrease from 0.097 million tons in 2016 to 0.071 million tons in 2017. The decrease in production was due to the decrease in planted area.

Indonesia, the soybean production reported to be decrease from 0.86 million tons in 2016 to 0.68 million tons in 2017. The decrease in production was due to the decrease in planted area.

Lao PDR, the soybean production reported to be decrease from 0.0189 million tons in 2016 to 0.0181 million tons in 2017. The decrease in production was due to the decrease in planted area.

Myanmar, the soybean production reported to be decrease from 0.22 million tons in 2016 to 0.21 million tons in 2017. The decrease in production was due to the decrease in planted area.

The **Philippines**, the soybean production reported to be decrease due to the decrease in planted area and yield.

Thailand, the soybean production reported to be increase from 0.0375 million tons in 2016 to 0.0377 million tons in 2017. The increase in production was due to the increase in yield.

Vietnam, the soybean production reported to be decrease from 0.14 million tons in 2016 to 0.13 million tons in 2017. The decrease in production was due to the decrease in area.

Damaged Area

The damaged area of soybean in ASEAN in 2017 (crop year 2016/17) was reported to be 285 hectares. 60.97 percent or 174 hectares of the damaged area caused by flood located in Myanmar. Furthermore, 37.28 percent or 106 hectares of the damaged area caused by drought located in Thailand. Table (20, Figure 20)

Table 16 Soybean production in ASEAN countries, 2016 – 2018

Unit: 1,000 Tons

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	1,380.51	1,149.14	-231.37	-16.76	1,439.90	290.75	25.30
Brunei	-	-	-	-	-	-	-
Cambodia	97.24	70.80	-26.44	-27.19	73.29	2.48	3.51
Indonesia	859.65	675.17	-184.49	-21.46	935.19	260.03	38.51
Lao PDR	18.85	18.10	-0.75	-3.98	18.54	0.45	2.46
Malaysia	-	-	-	-	-	-	-
Myanmar	222.28	214.83	-7.45	-3.35	236.06	21.23	9.88
Philippines	0.62	0.59	-0.03	-5.35	0.54	-0.05	-8.67
Singapore	-	-	-	-	-	-	-
Thailand	37.47	37.72	0.24	0.65	37.46	-0.25	-0.67
Vietnam	144.39	131.94	-12.45	-8.63	138.81	6.87	5.21

Table 17 Soybean planted area in ASEAN countries, 2016 – 2018

Unit: 1,000 Tons

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	926.98	749.27	-177.71	-19.17	861.13	111.86	14.93
Brunei	-	-	-	-	-	-	-
Cambodia	66.82	42.66	-24.17	-36.16	41.95	-0.71	-1.66
Indonesia	583.38	446.01	-137.37	-23.55	544.31	98.30	22.04
Lao PDR	12.07	11.60	-0.47	-3.89	11.80	0.20	1.72
Malaysia	-	-	-	-	-	-	-
Myanmar	148.60	143.18	-5.42	-3.65	154.75	11.57	8.08
Philippines	0.52	0.51	-0.01	-2.03	0.49	0.00	0.00
Singapore	-	-	-	-	-	-	-
Thailand	21.69	21.36	-0.33	-1.51	20.83	-0.53	-2.49
Vietnam	93.90	83.95	-9.95	-10.60	87.00	3.05	3.63

Table 18 Soybean harvested area in ASEAN countries, 2016 – 2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	920.10	748.98	-171.11	-18.60	861.04	112.05	14.96
Brunei	-	-	-	-	-	-	-
Cambodia	66.61	42.65	-23.95	-35.96	41.94	-0.71	-1.67
Indonesia	576.99	446.01	-130.98	-22.70	544.31	98.30	22.04
Lao PDR	12.07	11.60	-0.47	-3.89	11.80	0.20	1.72
Malaysia	-	-	-	-	-	-	-
Myanmar	148.44	143.01	-5.43	-3.66	154.75	11.74	8.21
Philippines	0.52	0.51	-0.01	-2.03	0.49	-0.02	-3.74
Singapore	-	-	-	-	-	-	-
Thailand	21.58	21.25	-0.32	-1.49	20.75	-0.50	-2.38
Vietnam	93.90	83.95	-9.95	-10.60	87.00	3.05	3.63

Note: Vietnam reported only planted area.

Table 19 Soybean yield in ASEAN countries, 2016 – 2018

Unit: Ton/Hectare

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	1.50	1.53	0.03	2.26	1.67	0.14	9.00
Brunei	-	-	-	-	-	-	-
Cambodia	1.46	1.66	0.20	13.70	1.75	0.09	5.27
Indonesia	1.49	1.51	0.02	1.60	1.72	0.20	13.50
Lao PDR	1.56	1.56	0.00	0.00	1.57	0.01	0.73
Malaysia	-	-	-	-	-	-	-
Myanmar	1.50	1.50	0.00	0.00	1.53	0.03	1.70
Philippines	1.20	1.16	-0.04	-3.39	1.10	-0.06	-5.12
Singapore	-	-	-	-	-	-	-
Thailand	1.74	1.77	0.04	2.18	1.81	0.03	1.74
Vietnam	1.54	1.57	0.03	2.21	1.60	0.02	1.52

Table 20 Soybean damaged area in ASEAN by cause of damage, 2017

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
ASEAN	174	106	0	0	0	5	285
Brunei							0
Cambodia						5	5
Indonesia							0
Lao PDR							0
Malaysia							0
Myanmar	174						174
Philippines							0
Singapore							0
Thailand		106					106
Vietnam							0

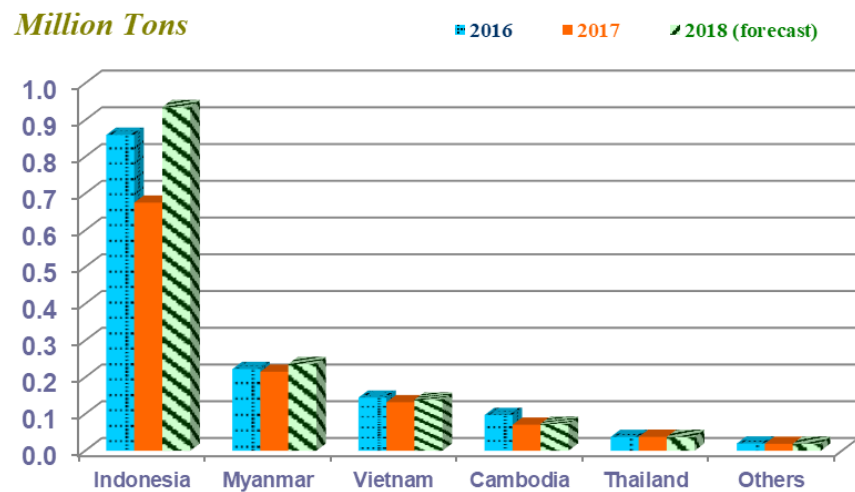


Figure 16 Soybean production of selected countries in ASEAN, 2016 – 2018

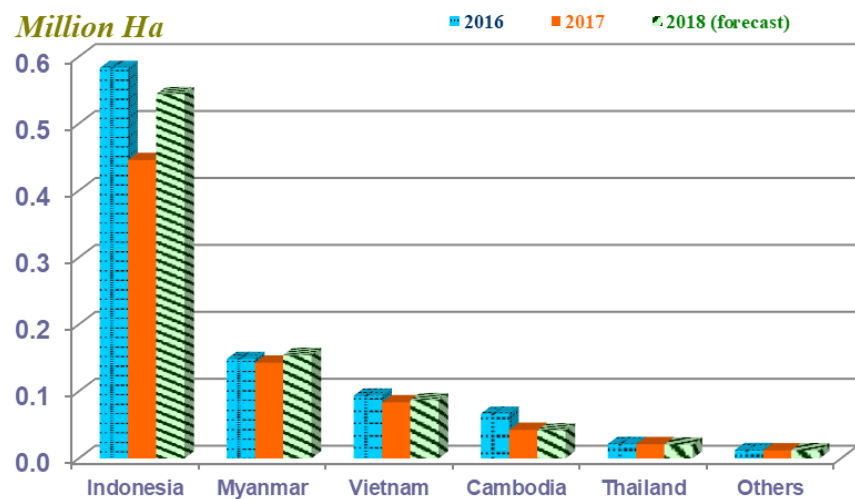


Figure 17 Soybean planted area of selected countries in ASEAN, 2016 – 2018

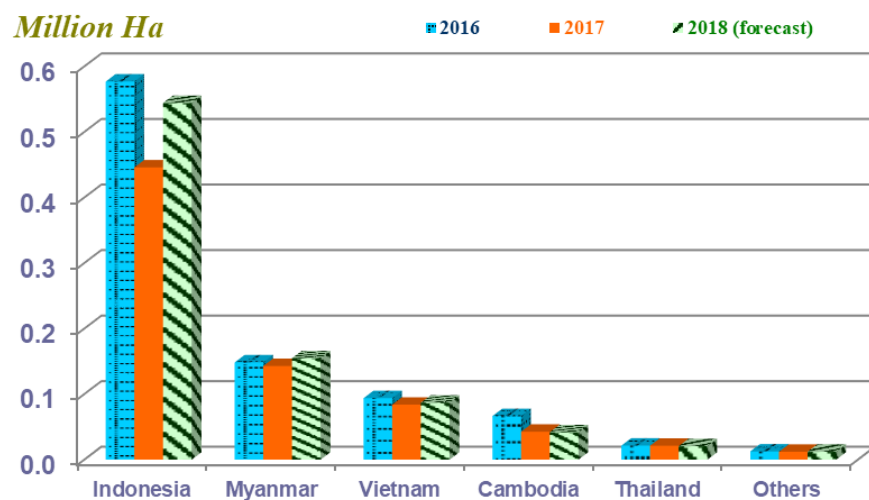


Figure 18 Soybean harvested area of selected countries in ASEAN, 2016 – 2018

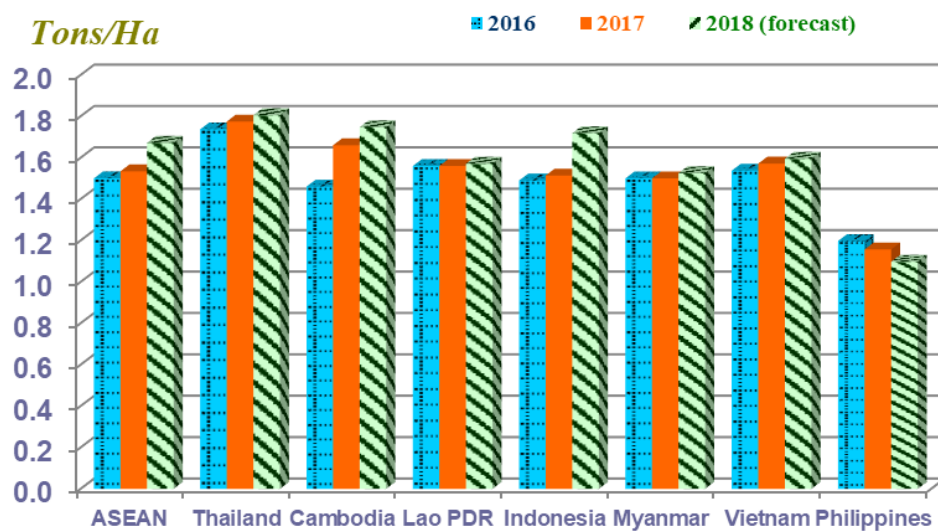


Figure 19 Soybean yield of countries in ASEAN, 2016 – 2018

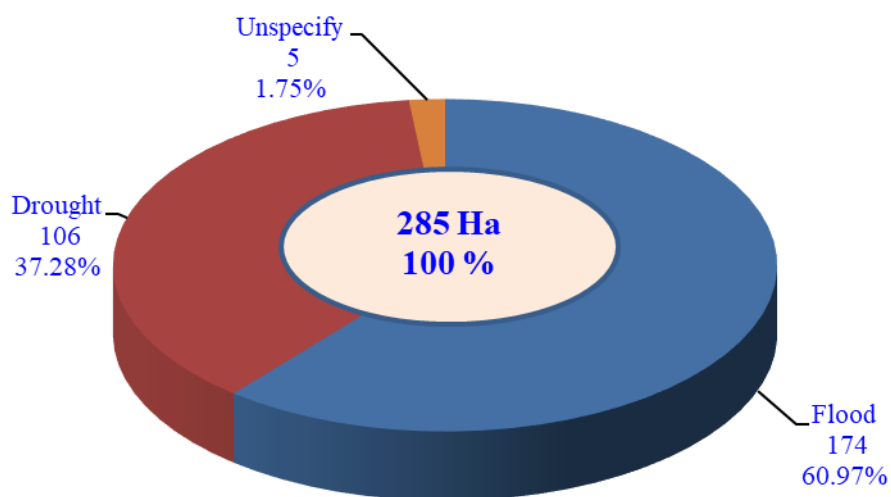


Figure 20 Soybean damaged area in ASEAN by cause of damage, 2017 (crop year 2016/17)

ASEAN Cassava Situation in 2017

Production

The estimated cassava production (root fresh) in ASEAN in 2017 (crop year 2016/17) decreased about 1 percent or 0.84 million tons compare to previous year (from 81.31 million tons in 2016 to 80.47 million tons in 2017). The decrease in production found in 4 countries, Indonesia, Lao PDR, Myanmar, and Thailand. While the other producing country reported the production increase in 2017. (Table 21 – 24, Figure 21 – 24)

For the producing countries reported a decrease in production, **Indonesia** reported a decrease of 6 percent or 1.22 million tons (from 20.26 million tons in 2016 to 19.05 million tons in 2017). The cause of production decrease was due to the decline in planted area and yield.

Lao PDR reported a decrease in production of 35.36 percent or 0.85 million tons (from 2.41 million tons in 2016 to 1.56 million tons in 2017). The decrease due to the decline in planted area by unfavorable weather.

For **Myanmar**, the production reported to be decreased about 7 percent or 0.03 million tons (from 0.46 million tons in 2016 to 0.43 million tons in 2017). The decrease in production caused by the decline in yield while the planted area is increase.

For **Thailand**, the production reported to be decreased 2.14 percent or 0.67 million tons (from 31.16 million tons in 2016 to 30.45 million tons in 2017). The decrease in production was due to drought.

For the producing countries reported an increase in production, **Cambodia**, reported the increase of 11.43 percent or 1.52 million tons (from 13.30 million tons in 2016 to 14.82 million tons in 2017). The increase in production came from the expansion of planted area while the yield is decrease.

In **Malaysia**, the increase in production of 10 percent or 0.006 million tons, compare 2017 production to previous year, the main reason came from the increase in both area and yield.

In the **Philippines**, the increase in production of 2.18 percent or 0.059 million tons (from 2.73 million tons in 2016 to 2.79 million tons in 2017). The increase in its production cause by the increase in planted area while yield was decrease.

In **Vietnam**, the increase in production of 3.09 percent or 0.34 million tons (from 10.93 million tons in 2016 to 11.26 million tons in 2017) came from the expansion in planted area and the yield has increase.

Damaged Area

The cassava damaged area in 2017 in the ASEAN was reported to be 48,204 hectares. Most of the damaged area caused by draught about 80 percent (38,685 hectares) that occurred in Thailand. (Table 25, Figure 25)

Table 21 Cassava production in ASEAN countries, 2016–2018

Unit: 1,000 Tons

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	81,310.90	80,466.50	-844.40	-1.04	80,668.49	201.99	0.25
Brunei	0.17	0.18	0.01	3.00	0.18	0.00	0.00
Cambodia	13,299.52	14,819.02	1,519.49	11.43	13,817.26	-1,001.75	-6.76
Indonesia	20,260.68	19,045.61	-1,215.07	-6.00	23,123.47	4,077.87	21.41
Lao PDR	2,410.00	1,557.75	-852.25	-35.36	1,606.08	48.33	3.10
Malaysia	61.16	67.28	6.12	10.00	74.00	6.73	10.00
Myanmar	460.48	426.26	-34.22	-7.43	504.53	78.27	18.36
Philippines	2,732.57	2,792.02	59.45	2.18	2,893.03	101.01	3.62
Singapore	-	-	-		-	-	
Thailand	31,161.10	30,495.19	-665.91	-2.14	27,239.93	-3,255.26	-10.67
Vietnam	10,925.21	11,263.20	337.99	3.09	11,410.00	146.80	1.30

Table 22 Cassava planted area in ASEAN countries, 2016–2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	3,799.37	3,787.77	-11.60	-0.31	3,686.05	-101.72	-2.69
Brunei	-	-	-	-	-	-	-
Cambodia	573.62	684.07	110.45	19.25	613.91	-70.16	-10.26
Indonesia	822.74	778.66	-44.08	-5.36	920.99	142.33	18.28
Lao PDR	75.81	46.50	-29.31	-38.66	47.80	1.30	2.80
Malaysia	3.55	3.69	0.14	4.00	3.84	0.15	4.00
Myanmar	36.24	36.69	0.45	1.24	38.57	1.88	5.13
Philippines	226.29	233.06	6.77	2.99	233.94	0.88	0.38
Singapore	-	-	-	-	-	-	-
Thailand	1,490.40	1,433.00	-57.40	-3.85	1,253.00	-180.00	-12.56
Vietnam	570.71	572.10	1.39	0.24	574.00	1.90	0.33

Table 23 Cassava harvested area in ASEAN countries, 2016–2018

Unit: 1,000 Hectares

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	3,731.79	3,739.57	7.77	0.21	3,690.43	-49.14	-1.31
Brunei	-	-	-	-	-	-	-
Cambodia	546.41	675.13	128.72	23.56	612.86	-62.27	-9.22
Indonesia	822.74	778.66	-44.08	-5.36	920.99	142.33	18.28
Lao PDR	75.81	46.50	-29.31	-38.66	47.80	1.30	2.80
Malaysia	3.15	3.19	0.04	1.40	3.24	0.04	1.40
Myanmar	36.24	36.61	0.38	1.03	38.56	1.95	5.32
Philippines	226.29	233.06	6.77	2.99	233.94	0.88	0.38
Singapore	-	-	-	-	-	-	-
Thailand	1,450.44	1,394.32	-56.13	-3.87	1,259.03	-135.28	-9.70
Vietnam	570.71	572.10	1.39	0.24	574.00	1.90	0.33

Note: Vietnam reported only planted area.

Table 24 Cassava yield in ASEAN countries, 2016–2018

Unit: Ton/Hectare

Country	2016 (2015/16)	2017 (2016/17)	change 2017 over 2016		2018 (2017/18)	change 2018 over 2017	
			Quantities	(%)		Quantities	(%)
ASEAN	21.79	21.52	-0.27	-1.24	21.86	0.34	1.58
Brunei	-	-	-	-	-	-	-
Cambodia	24.34	21.95	-2.39	-9.82	22.55	0.60	2.73
Indonesia	24.63	24.46	-0.17	-0.69	25.11	0.65	2.66
Lao PDR	31.79	33.50	1.71	5.38	33.60	0.10	0.30
Malaysia	19.43	21.08	1.65	8.49	22.86	1.78	8.44
Myanmar	12.71	11.64	-1.07	-8.42	13.08	1.44	12.37
Philippines	12.08	11.98	-0.10	-0.83	12.37	0.39	3.26
Singapore	-	-	-	-	-	-	-
Thailand	21.48	21.87	0.39	1.82	21.64	-0.23	-1.05
Vietnam	19.14	19.69	0.55	2.87	19.88	0.19	0.96

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

Table 25 Cassava damaged area in ASEAN by cause of damage, 2017

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecitfy	Total
ASEAN	24,504	14,256	-	-	-	9,444	48,204
Brunei	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	8,944	8,944
Indonesia	-	-	-	-	-	-	-
Lao PDR	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	500	500
Myanmar	75	-	-	-	-	-	75
Philippines	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-
Thailand	24,429	14,256	-	-	-	-	38,685
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

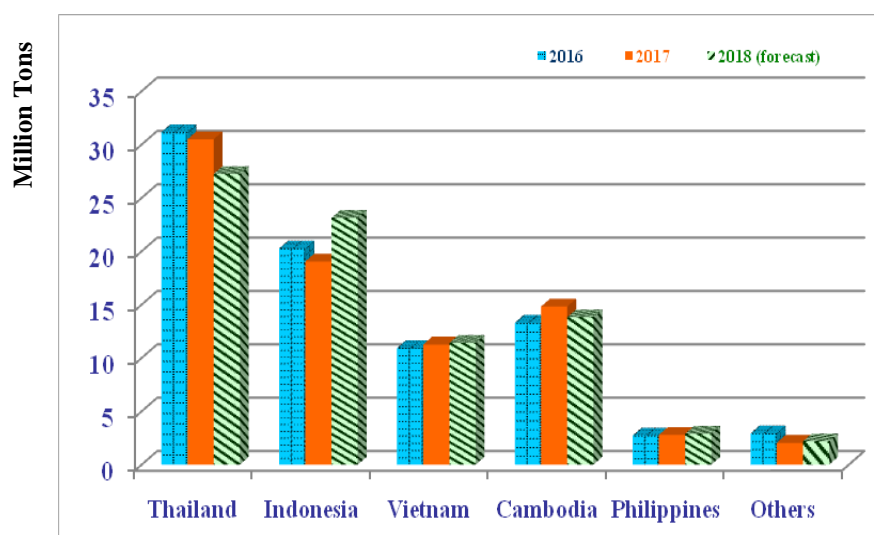


Figure 21 Cassava production of selected countries in ASEAN, 2016–2018

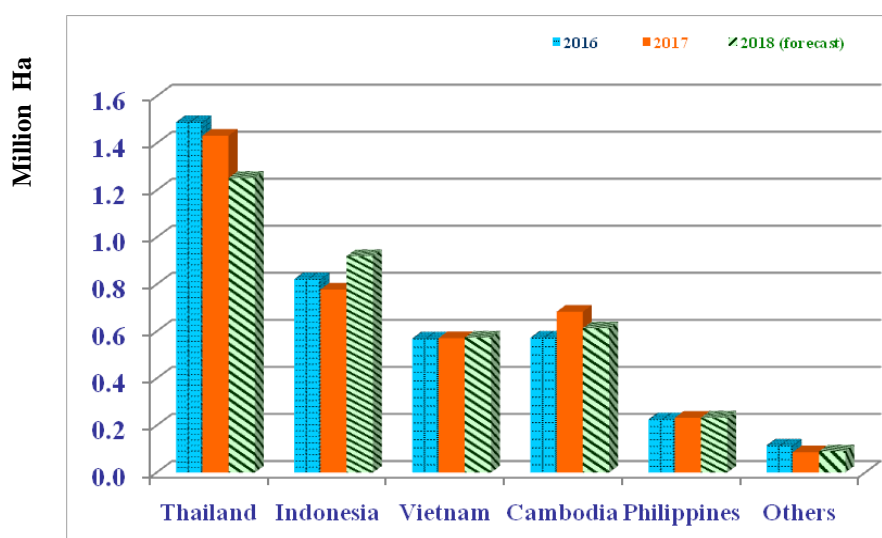


Figure 22 Cassava planted area of selected countries in ASEAN, 2016–2018

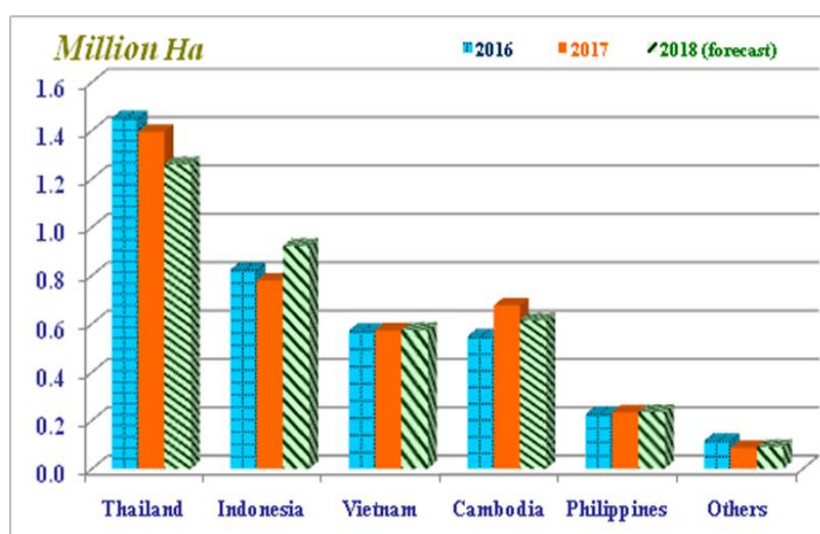


Figure 23 Cassava harvested area of selected countries in ASEAN, 2016–2018

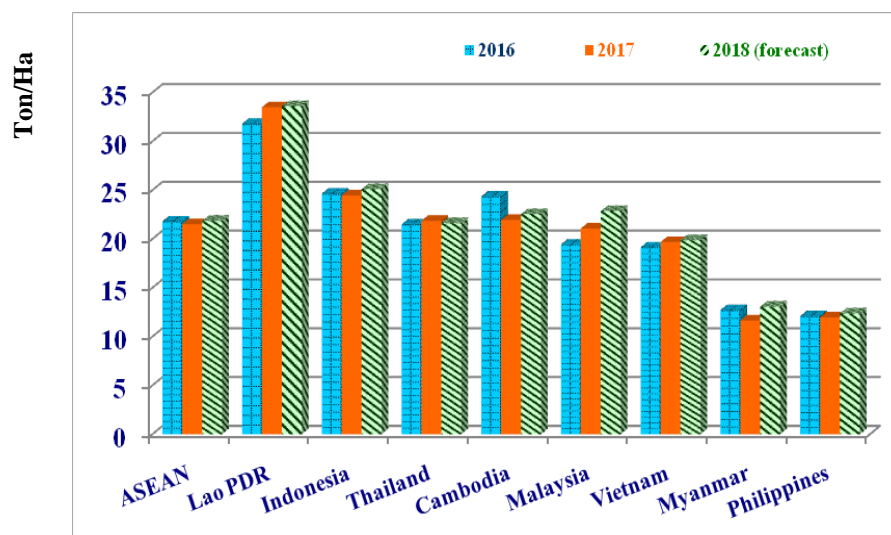


Figure 24 Cassava yield of countries in ASEAN, 2016–2018

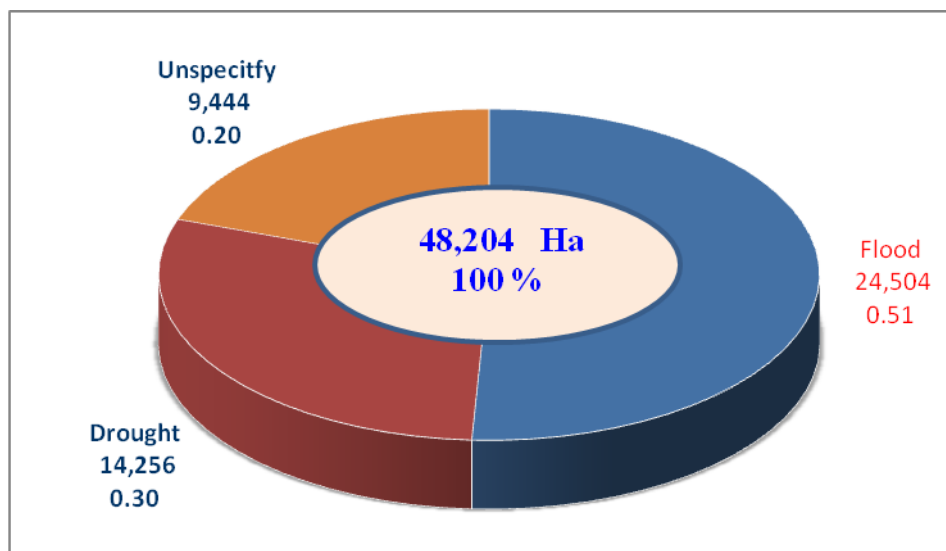


Figure 25 Soybean damaged area in ASEAN by cause of damage, 2017 (crop year 2016/17)