



ASEAN FOOD SECURITY INFORMATION SYSTEM (AFSIS)

Report on Early Warning Information No.17 Sept 2016



AFSIS

ASEAN Food Security Information System



ASEAN Rice Situation in 2016

Production

The estimation of ASEAN paddy production in 2016 (crop year 2015/2016) was about 211 million tons, slightly decrease about 2 percent (4.56 million tons) compare to the last year. The decrease was due to the decline in planted area and yield. (Table 1 – 4, figure 1 – 4).

For **Brunei**, the decrease in production about 20 percent caused by the decrease in yield.

For **Cambodia**, the production was slightly increase of 0.12 percent compare to previous year. The increase cause by the increasing in yield.

For **Indonesia**, the increase in production of 2.50 percent came from the increase in plantation area.

For **Lao PDR**, the increase in production of 3.75 percent came from the increase in area. No damaged area reported.

For **Malaysia**, the increase in production of 7.84 percent derived from the increase in plantation area and yield.

For **Myanmar**, the decrease in production of 1.66 percent compare to the previous year came from the decrease in harvested area and yield.

For **the Philippines**, the decrease in production of 7.54 percent compare to the previous year derived from the decrease in plantation area and yield.

For **Thailand**, the decrease in production of 11.16 percent compare to the previous year derived from the decrease in plantation area and yield.

In **Vietnam**, the slight decrease in production of 3.19 percent compare to the previous year derived from the decrease in area and yield.

Damaged Area

Total damaged area of paddy in ASEAN in 2016 (crop year 2015/16) was reported to be about 0.70 million hectares of which 0.51 million hectares or about 73.7 percent caused by the drought. The damage has occurred the most in Thailand, which equals to 0.44 million hectares or about 85.27 percent of the whole ASEAN. The damage was caused by many factors such as the drought, flood and pests (Table 5, figure 5).

Table 1 Paddy production in ASEAN countries, 2015-2017

Unit: 1,000 Tons

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	215,912.16	211,348.09	-4,564.06	-2.11	221,228.39	9,880.29	4.67
Brunei	3.05	2.44	-0.62	-20.16	2.51	0.07	3.00
Cambodia	9,324.42	9,335.28	10.87	0.12	8,973.31	-361.97	-3.88
Indonesia	75,361.25	77,245.27	1,884.02	2.50	79,370.27	2,125.00	2.75
Lao PDR	4,048.19	4,200.00	151.82	3.75	4,339.47	139.47	3.32
Malaysia	3,238.22	3,492.08	253.85	7.84	3,692.57	200.49	5.74
Myanmar	28,193.08	27,724.59	-468.48	-1.66	30,637.01	2,912.42	10.50
Philippines	18,911.48	17,485.51	-1,425.97	-7.54	18,798.81	1,313.30	7.51
Singapore	-	-	-	-	-	-	-
Thailand	31,616.88	28,088.23	-3,528.65	-11.16	31,982.59	3,894.36	13.86
Vietnam	45,215.60	43,774.70	-1,440.90	-3.19	43,431.85	-342.85	-0.78

Table 2 Paddy planted area in ASEAN countries, 2015-2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	50,090.25	49,139.52	-950.73	-1.90	50,298.84	1,159.32	2.36
Brunei	1.43	1.53	0.10	6.98	1.58	0.05	3.00
Cambodia	3,055.51	3,051.41	-4.10	-0.13	2,903.80	-147.61	-4.84
Indonesia	14,512.63	14,545.18	32.56	0.22	14,767.14	221.96	1.53
Lao PDR	984.93	1,020.50	35.57	3.61	1,017.49	-3.01	-0.29
Malaysia	706.68	715.30	8.62	1.22	730.15	14.84	2.08
Myanmar	7,172.14	7,211.89	39.75	0.55	7,518.20	306.31	4.25
Philippines	4,741.81	4,561.23	-180.59	-3.81	4,666.16	104.93	2.30
Singapore	-	-	-	-	-	-	-
Thailand	11,080.22	10,259.88	-820.34	-7.40	10,905.33	645.45	6.29
Vietnam	7,834.90	7,772.60	-62.30	-0.80	7,789.00	16.40	0.21

Table 3 Paddy harvested area in ASEAN countries, 2015-2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	49,167.22	48,441.83	-725.39	-1.48	50,018.76	1,576.93	3.26
Brunei	1.30	1.39	0.09	6.98	1.44	0.04	3.01
Cambodia	3,028.84	3,025.63	-3.21	-0.11	2,901.30	-124.33	-4.11
Indonesia	14,115.48	14,512.47	396.99	2.81	14,767.14	254.67	1.75
Lao PDR	965.15	1,020.50	55.35	5.73	1,017.49	-3.01	-0.29
Malaysia	699.62	708.15	8.53	1.22	722.84	14.70	2.08
Myanmar	7,152.52	7,101.11	-51.41	-0.72	7,518.20	417.09	5.87
Philippines	4,704.49	4,526.99	-177.50	-3.77	4,666.16	139.17	3.07
Singapore	-	-	-	-	-	-	-
Thailand	10,664.92	9,772.99	-891.93	-8.36	10,635.19	862.20	8.82
Vietnam	7,834.90	7,772.60	-62.30	-0.80	7,789.00	16.40	0.21

Note: Vietnam reported only planted area.

Table 4 Paddy yield in ASEAN countries, 2015-2017

Unit: Ton/Hectare

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	4.39	4.36	-0.03	-0.68	4.42	0.06	1.38
Brunei	2.34	1.75	-0.59	-25.21	1.75	0.00	0.00
Cambodia	3.08	3.09	0.01	0.32	3.09	0.00	0.00
Indonesia	5.34	5.32	-0.02	-0.37	5.37	0.05	0.94
Lao PDR	4.19	4.12	-0.07	-1.67	4.26	0.14	3.40
Malaysia	4.63	4.93	0.30	6.48	5.11	0.18	3.65
Myanmar	3.94	3.90	-0.04	-1.02	4.08	0.18	4.62
Philippines	4.02	3.86	-0.16	-3.98	4.03	0.17	4.40
Singapore	-	-	-	-	-	-	-
Thailand	2.96	2.87	-0.09	-3.04	3.01	0.14	4.88
Vietnam	5.77	5.63	-0.14	-2.43	5.58	-0.05	-0.89

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

Table 5 Paddy damaged area in ASEAN by cause of damage, 2016

Country	Cause of Damage (Hectares)						Total
	Flood	Drought	Pests	Diseases	Other	Unspecified	
ASEAN	115,120	513,904	39,237	16,388	681	12,366	697,695
Brunei	16	75	22	26	-	-	139
Cambodia	-	25,782	-	-	-	-	25,782
Indonesia	4,909	27,290	516	-	-	-	32,714
Lao PDR	-	-	-	-	-	-	-
Malaysia	112	685	4,601	1,755	-	-	7,153
Myanmar	110,083	-	16	-	681	-	110,780
Philippines	-	21,874	-	-	-	12,366	34,240
Singapore	-	-	-	-	-	-	-
Thailand	-	438,198	34,082	14,607	-	-	486,887
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

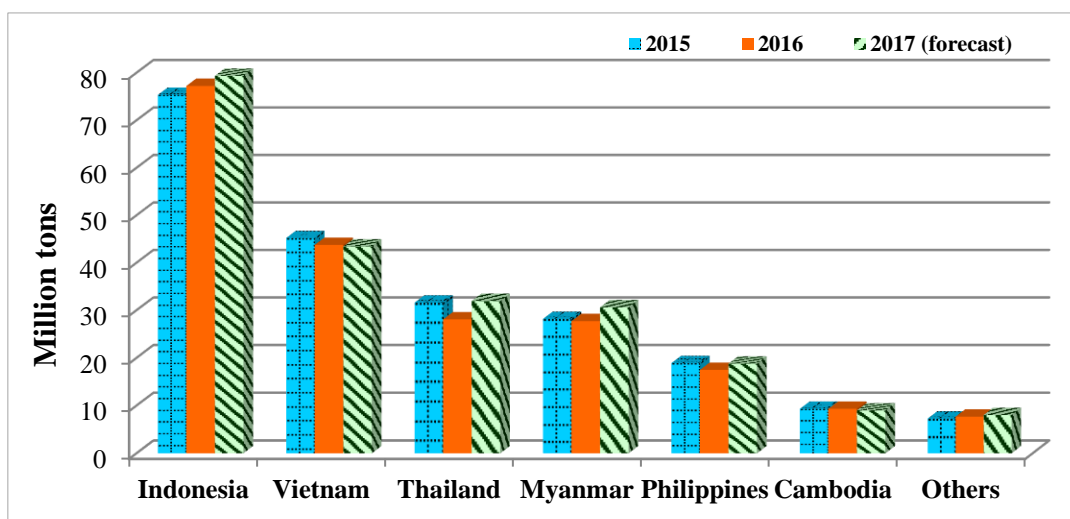


Figure 1 Paddy production of selected countries in ASEAN, 2015-2017

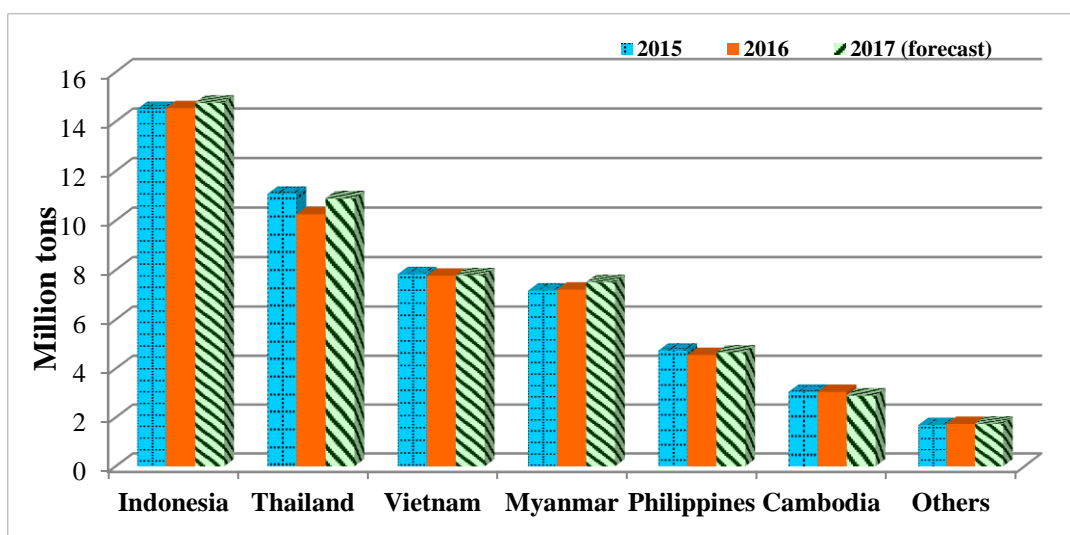


Figure 2 Paddy planted area of selected countries in ASEAN, 2015-2017

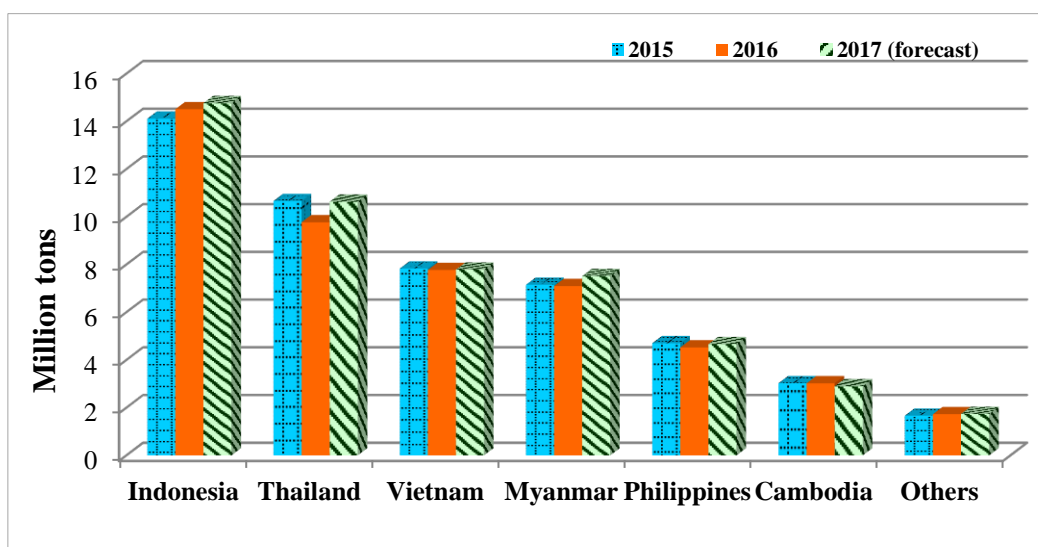


Figure 3 Paddy harvested area of selected countries in ASEAN, 2015-2017

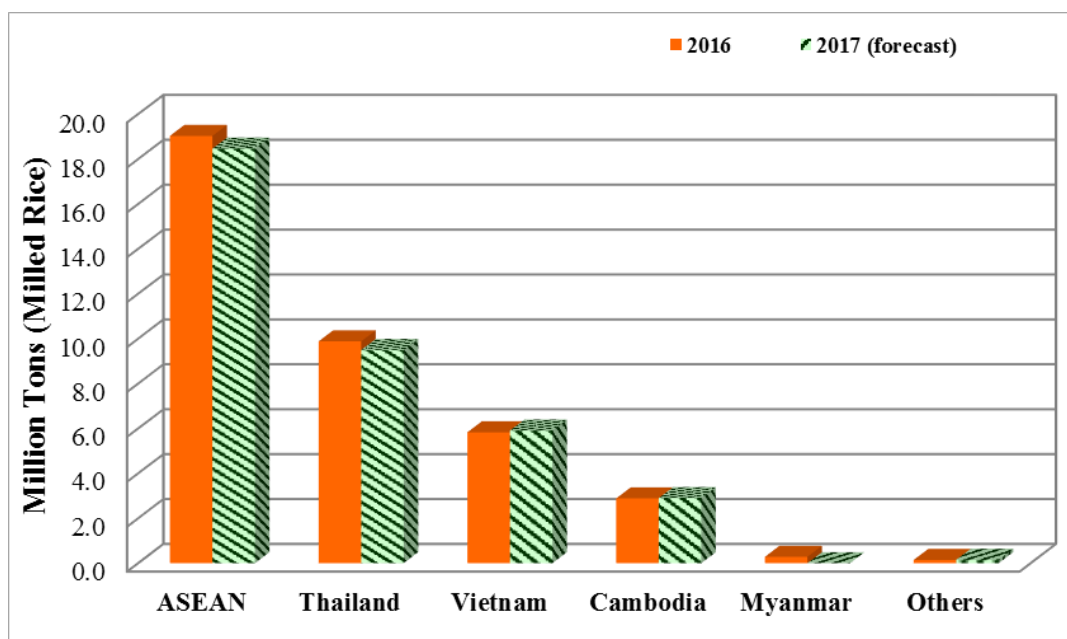


Figure 4 Paddy yield of countries in ASEAN, 2015-2017

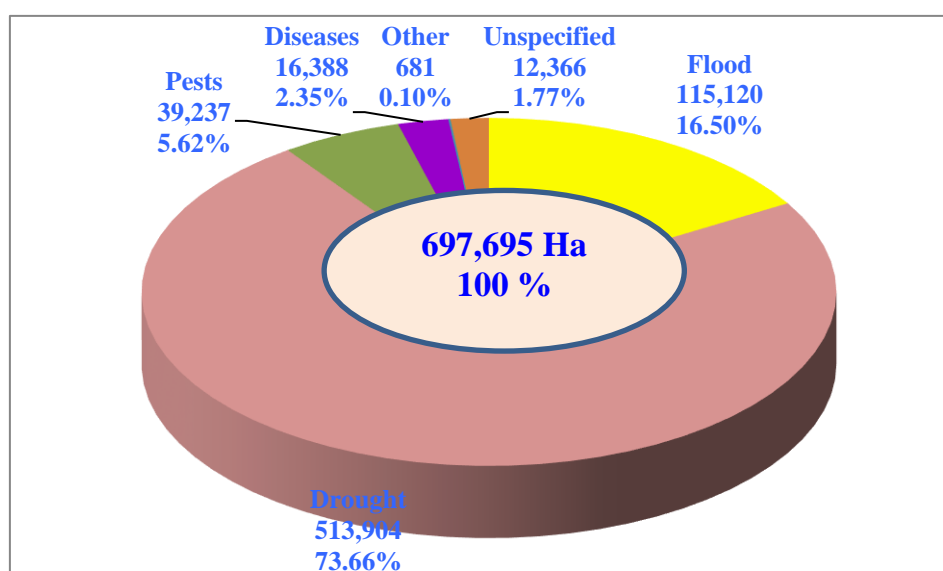


Figure 5 Paddy damaged area in ASEAN by cause of damage, 2016 (crop year 2015/16)

ASEAN Maize Situation in 2016

Production

Maize production in ASEAN in 2016 (crop year 2015/16) was estimated to be 41.88 million tons, increase from 2015 (crop year 2014/15) 1.31 million tons (3.23 percent). The overall change affected by the increase in area and yield. (Table 6 – 9, figure 6 – 9)

For **Cambodia**, the decrease in production of 0.15 million tons compare to the previous year. This cause by the decease in plantation area and yield.

For **Indonesia**, the production increase about 2 million tons from previous year resulted from the increase in plantation areas and yield.

Lao PDR's production is slightly increase compare to the last year, mostly cause by the increase in plantation area.

For **Myanmar**, a slightly increase in production of 1.64 came from the increase in plantation area.

The decrease in production in the **Philippines** cause by the decrease of plantation area and yield.

For **Thailand**, the production has decreased attributed to the decrease in planted area.

The decrease in production in **Vietnam** cause by the plantation area.

Damaged Area

The damaged area of maize in 2016 was reported to be 109,183 hectares of which 83,600 hectares caused by the drought (75.57 percent) and 9,966 hectares caused by the flood. The most affected area caused by the drought was occurred in the Philippines, and Thailand while the most affected area by flood was found in Cambodia, and Myanmar. (Table 10, figure 10)

Table 6 Maize production in ASEAN countries, 2015 – 2017

Unit: 1,000 Tons

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	40,564.46	41,875.16	1,310.70	3.23	43,486.43	1,611.26	3.85
Brunei	-	-	-	-	-	-	-
Cambodia	549.61	399.65	-149.96	-27.28	407.64	7.99	2.00
Indonesia	19,611.70	21,835.89	2,224.18	11.34	22,673.50	837.61	3.84
Lao PDR	1,110.00	1,112.78	2.78	0.25	1,229.15	116.38	10.46
Malaysia	-	-	-	-	-	-	-
Myanmar	1,720.57	1,748.86	28.29	1.64	1,721.71	-27.16	-1.55
Philippines	7,671.63	6,964.12	-707.51	-9.22	7,628.48	664.36	9.54
Singapore	-	-	-	-	-	-	-
Thailand	4,619.95	4,561.87	-58.07	-1.26	4,602.95	41.08	0.90
Vietnam	5,281.00	5,252.00	-29.00	-0.55	5,223.00	-29.00	-0.55

Table 7 Maize planted area in ASEAN countries, 2015 – 2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	9,532.67	9,627.54	94.87	1.00	9,814.09	186.55	1.94
Brunei							
Cambodia	143.52	112.57	-30.94	-21.56	114.83	2.25	2.00
Indonesia	3,810.38	4,078.04	267.66	7.02	4,107.52	29.48	0.72
Lao PDR	200.00	200.50	0.50	0.25	201.50	1.00	0.50
Malaysia							
Myanmar	459.05	471.93	12.88	2.81	467.05	-4.88	-1.03
Philippines	2,593.94	2,485.33	-108.60	-4.19	2,648.27	162.94	6.56
Singapore							
Thailand	1,146.48	1,114.16	-32.32	-2.82	1,116.92	2.76	0.25
Vietnam	1,179.30	1,165.00	-14.30	-1.21	1,158.00	-7.00	-0.60

Table 8 Maize harvested area in ASEAN countries, 2015 – 2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change		2017 (2016/17)	change	
			Quantities	(%)		Quantities	(%)
ASEAN	9,434.91	9,518.35	83.44	0.88	9,774.61	256.26	2.69
Brunei							
Cambodia	136.00	104.16	-31.84	-23.41	106.18	2.02	1.94
Indonesia	3,786.82	4,071.05	284.23	7.51	4,107.52	36.47	0.90
Lao PDR	200.00	200.50	0.50	0.25	201.50	1.00	0.50
Malaysia							
Myanmar	458.29	469.75	11.46	2.50	467.05	-2.70	-0.57
Philippines	2,561.42	2,419.19	-142.23	-5.55	2,648.27	229.09	9.47
Singapore							
Thailand	1,113.09	1,088.71	-24.39	-2.19	1,086.09	-2.62	-0.24
Vietnam	1,179.30	1,165.00	-14.30	-1.21	1,158.00	-7.00	-0.60

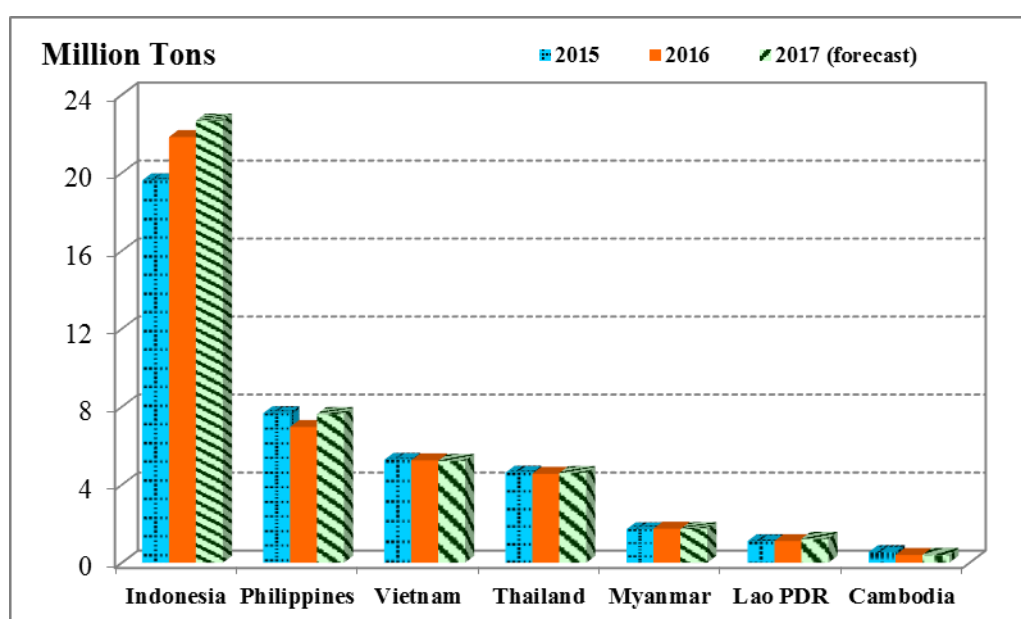
Table 9 Maize Yield in ASEAN countries, 2016 – 2017

Unit: Ton/Hectare

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	4.30	4.40	0.10	2.33	4.45	0.05	1.14
Brunei							
Cambodia	4.04	3.84	-0.20	-4.95	3.84	0.00	0.00
Indonesia	5.18	5.36	0.18	3.47	5.52	0.16	2.99
Lao PDR	5.55	5.55	0.00	0.00	6.10	0.55	9.91
Malaysia							
Myanmar	3.75	3.72	-0.03	-0.80	3.69	-0.03	-0.81
Philippines	3.00	2.88	-0.12	-4.00	2.88	0.00	0.00
Singapore							
Thailand	4.15	4.19	0.04	0.96	4.24	0.05	1.19
Vietnam	4.48	4.51	0.03	0.67	4.51	0.00	0.00

Table 10 Maize damaged area in ASEAN by cause of damage, 2016

Country	Cause of Damage (Hectares)						Total
	Flood	Drought	Pests	Diseases	Unspecified	Others	
ASEAN	9,966	83,600	2,923	2,412	-	-	109,183
Brunei							
Cambodia	5,951	2,466	-	-	-	-	8,417
Indonesia	1,836	4,909	123	121	-	-	6,989
Lao PDR	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-
Myanmar	2,179	-	-	-	-	-	2,179
Philippines	-	55,863	-	-	10,282	-	66,145
Singapore							
Thailand	-	20,362	2,800	2,291	-	-	25,453
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

**Figure 6 Maize production of selected countries in ASEAN, 2015 – 2017**

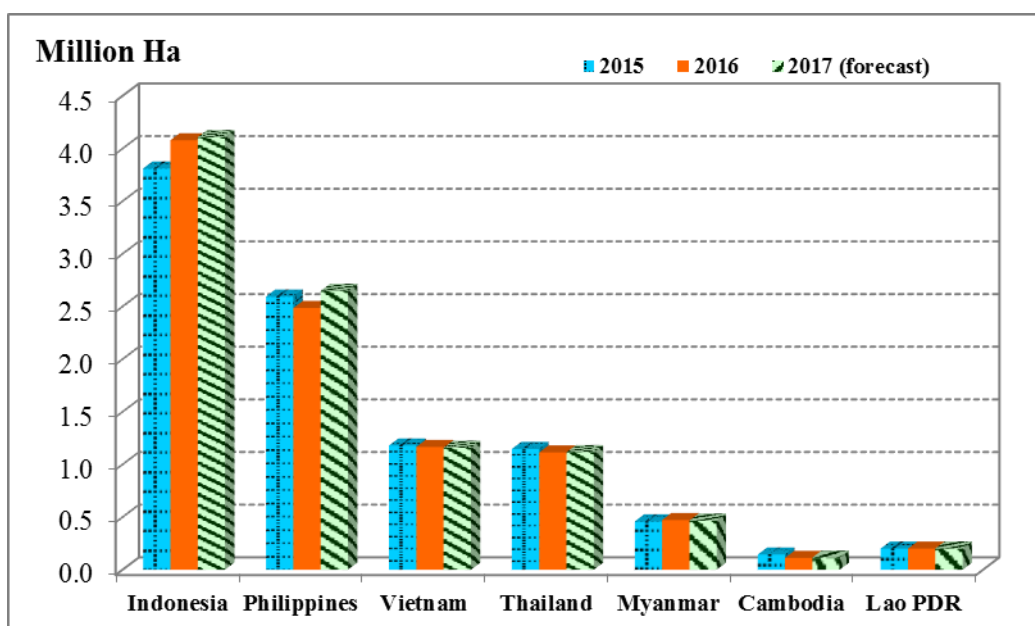


Figure 7 Maize planted area of selected countries in ASEAN, 2015 – 2017

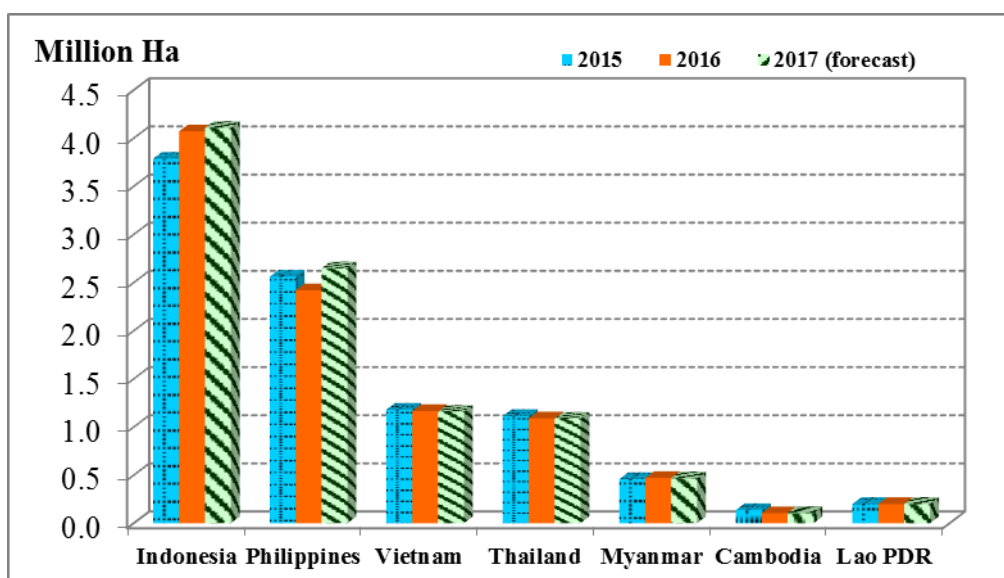


Figure 8 Maize harvested area of selected countries in ASEAN, 2015 – 2017

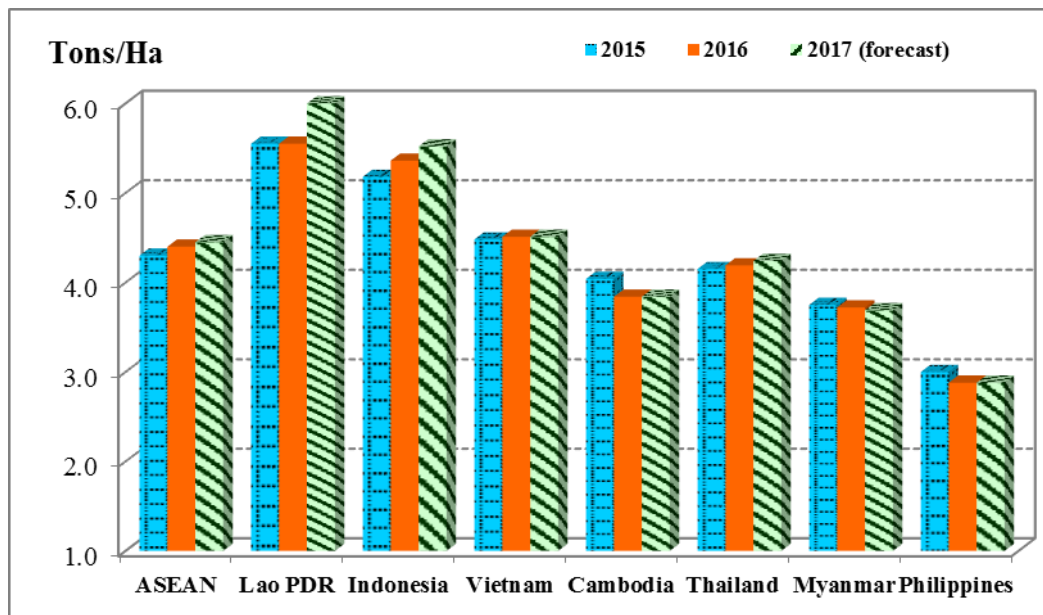


Figure 9 Maize yield of countries in ASEAN, 2015 – 2017

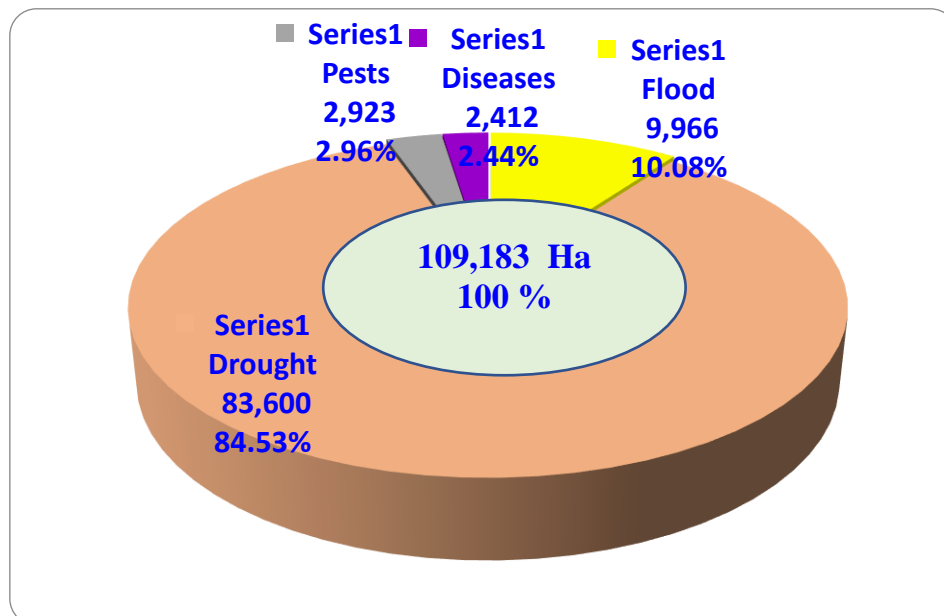


Figure 10 Maize damaged area in ASEAN by cause of damage, 2016 (crop year 2015/16)

ASEAN Sugar Situation in 2016

Production

The sugarcane production in ASEAN in 2016 (2015/16 crop year) was estimated to be 163.77 million tons, the decrease of 8.48 percent or 15.18 million tons compare to last year caused by the decreasing in planted area in most of the countries except Cambodia, Lao PDR, and Thailand. The yield was estimated to be 59.50, the decrease of 8.26 percent or 5.36 tons per hectare compare to last year (crop year 2014/15). (Table 11 – 14, Figure 11 – 14)

For **Cambodia**, the sugarcane production was estimated to be 0.72 million tons, the increase in sugarcane production of 2 percent compare to last year came from the expansion of planted area and the yield increased.

For **Indonesia**, the production was estimated to be 14.45 million tons, the decrease of 1.79 million tons compare to last year caused by the decrease in planted area and yield.

For **Lao PDR**, the estimated production was 1.82 million tons. A slightly increase production due to the favorable weather and farmer used more fertilizer.

In **Myanmar**, the estimated production of 10.14 million tons decreased from last year caused by the decrease in planted area. However, the yield is estimated to increase.

For **the Philippines**, the production was estimated to be increase from 22.65 million tons in 2015 (crop year 2014/15) to 23.00 million tons in 2016. The increase in production was due to the increase in yield.

For **Thailand**, the largest sugar producing country in the region, the production estimated to be 94.13 million tons, a decrease of 12.19 million tons compare to last year was due to the decrease in yield which was damage by drought.

The production **in Vietnam** was estimated to be 19.50 million tons, the decrease of 0.65 million tons compare to last year was due to the decrease in planted area.

Damaged Area

The sugar damaged area in ASEAN in 2016 was reported to be 58,656 hectares. The majority of the damage caused by drought about 95 percent (55,515 hectares), which was occurred in Thailand. (Table 15, Figure 15).

Table 11 Sugarcane production in ASEAN countries, 2015-2017

Unit: 1,000 Tons

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	178,957.52	163,773.85	-15,183.66	-8.48	177,554.18	13,780.33	8.41
Brunei	-	-	-	-	-	-	-
Cambodia	709.18	723.36	14.18	2.00	737.83	14.47	2.00
Indonesia	16,236.58	14,448.95	-1,787.63	-11.01	16,025.03	1,576.08	10.91
Lao PDR	1,749.75	1,821.00	71.25	4.07	1,944.00	123.00	6.75
Malaysia	-	-	-	-	-	-	-
Myanmar	11,128.42	10,142.38	-986.03	-8.86	10,827.71	685.33	6.76
Philippines	22,654.01	22,996.89	342.89	1.51	24,064.06	1,067.16	4.64
Singapore	-	-	-	-	-	-	-
Thailand	106,327.79	94,138.47	-12,189.32	-11.46	105,154.00	11,015.54	11.70
Vietnam	20,151.80	19,502.80	-648.99	-3.22	18,801.56	-701.24	-3.60

Table 12 Sugarcane planted area in ASEAN countries, 2015-2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	2,826.40	2,811.15	-15.25	-0.54	2,864.98	53.82	1.91
Brunei	-	-	-	-	-	-	-
Cambodia	19.51	19.90	0.39	2.00	20.20	0.30	1.50
Indonesia	454.17	445.52	-8.65	-1.90	453.46	7.94	1.78
Lao PDR	28.85	30.00	1.15	3.99	32.00	2.00	6.67
Malaysia	-	-	-	-	-	-	-
Myanmar	180.86	161.91	-18.95	-10.48	172.99	11.08	6.84
Philippines	401.73	396.54	-5.18	-1.29	412.91	16.37	4.13
Singapore	-	-	-	-	-	-	-
Thailand	1,456.78	1,482.27	25.49	1.75	1,508.42	26.14	1.76
Vietnam	284.50	275.00	-9.50	-3.34	265.00	-10.00	-3.64

Table 13 Sugarcane harvested area in ASEAN countries, 2015-2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	2,759.04	2,752.50	-6.54	-0.24	2,805.36	52.87	1.92
Brunei	-	-	-	-	-	-	-
Cambodia	19.24	19.63	0.38	2.00	19.92	0.29	1.50
Indonesia	445.65	444.22	-1.43	-0.32	452.14	7.92	1.78
Lao PDR	28.85	30.00	1.15	3.99	32.00	2.00	6.67
Malaysia	-	-	-	-	-	-	-
Myanmar	178.32	161.84	-16.48	-9.24	172.99	11.15	6.89
Philippines	401.73	396.54	-5.18	-1.29	412.91	16.37	4.13
Singapore	-	-	-	-	-	-	-
Thailand	1,400.75	1,425.26	24.51	1.75	1,450.40	25.14	1.76
Vietnam	284.50	275.00	-9.50	-3.34	265.00	-10.00	-3.64

Table 14 Sugarcane yield in ASEAN countries, 2015-2017

Unit: Ton/Hectare

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	64.86	59.50	-5.36	-8.26	63.29	3.79	6.37
Brunei	-	-	-	-	-	-	-
Cambodia	36.85	36.86	0.01	0.03	37.04	0.18	0.49
Indonesia	36.43	32.53	-3.90	-10.71	35.44	2.91	8.95
Lao PDR	60.65	60.70	0.05	0.08	60.75	0.05	0.08
Malaysia	-	-	-	-	-	-	-
Myanmar	62.41	62.67	0.26	0.42	62.59	-0.08	-0.13
Philippines	56.39	57.99	1.60	2.84	58.28	0.29	0.50
Singapore	-	-	-	-	-	-	-
Thailand	75.91	66.05	-9.86	-12.99	72.50	6.45	9.77
Vietnam	70.83	70.92	0.09	0.13	70.95	0.03	0.04

Table 15 Sugarcane damaged area in ASEAN by cause of damage, 2016

Country	Cause of Damage (Hectares)						
	Flood	Drought	Pests	Diseases	Others	Unspecified	Total
ASEAN	277	55,515	850	700	14	1,300	58,656
Brunei	-	-	-	-	-	-	-
Cambodia	277	-	-	-	-	-	277
Indonesia	-	-	-	-	-	1,300	1,300
Lao PDR	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-
Myanmar	-	55	-	-	14	-	69
Philippines	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-
Thailand	-	55,460	850	700	-	-	57,010
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

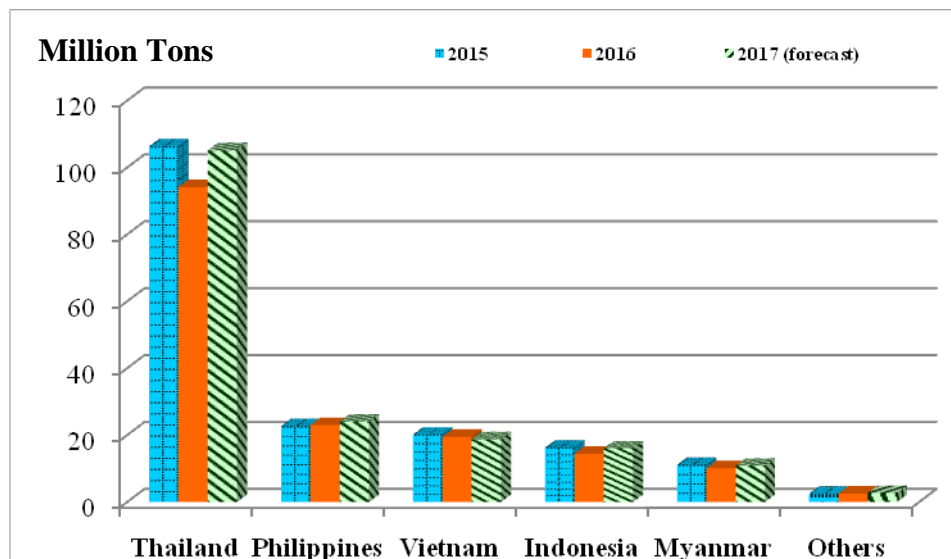


Figure 11 Sugarcane production of selected countries in ASEAN, 2015-2017

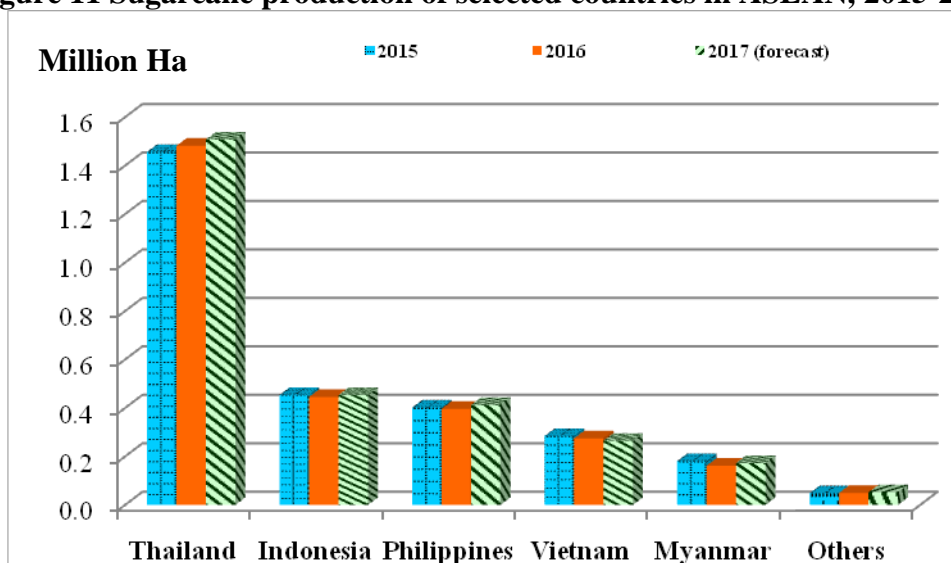


Figure 12 Sugarcane planted area of selected countries in ASEAN, 2015-2017

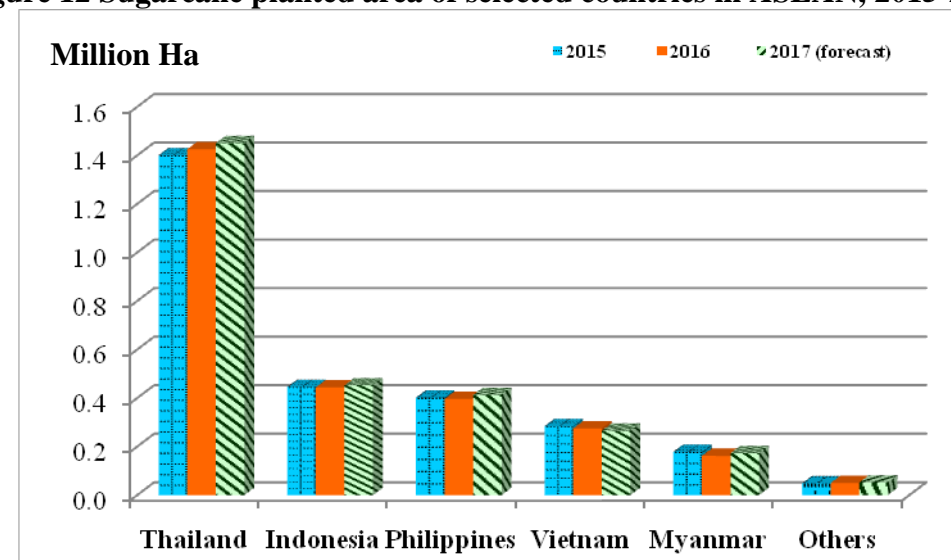


Figure 13 Sugarcane harvested area of selected countries in ASEAN, 2015-2017

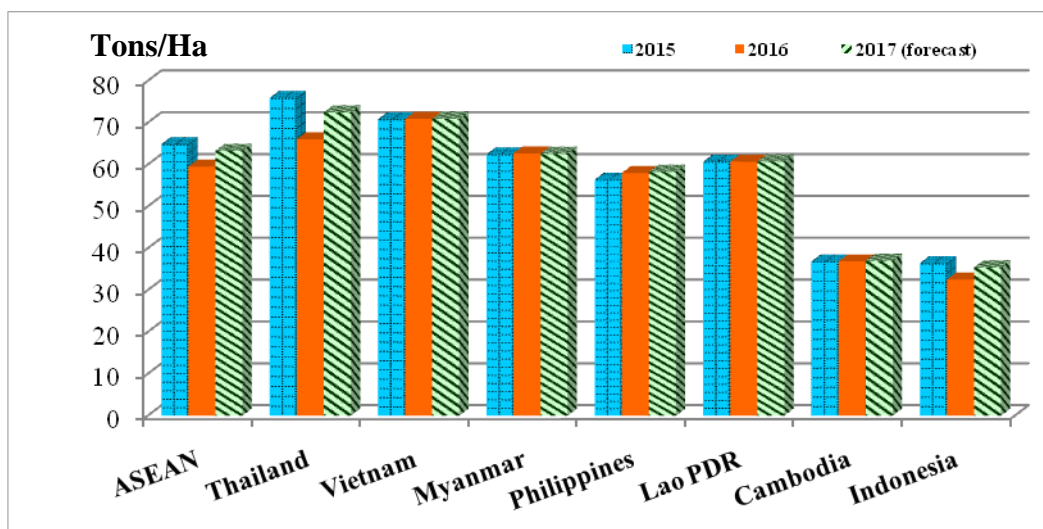


Figure 14 Sugarcane yield of selected countries in ASEAN, 2015-2017

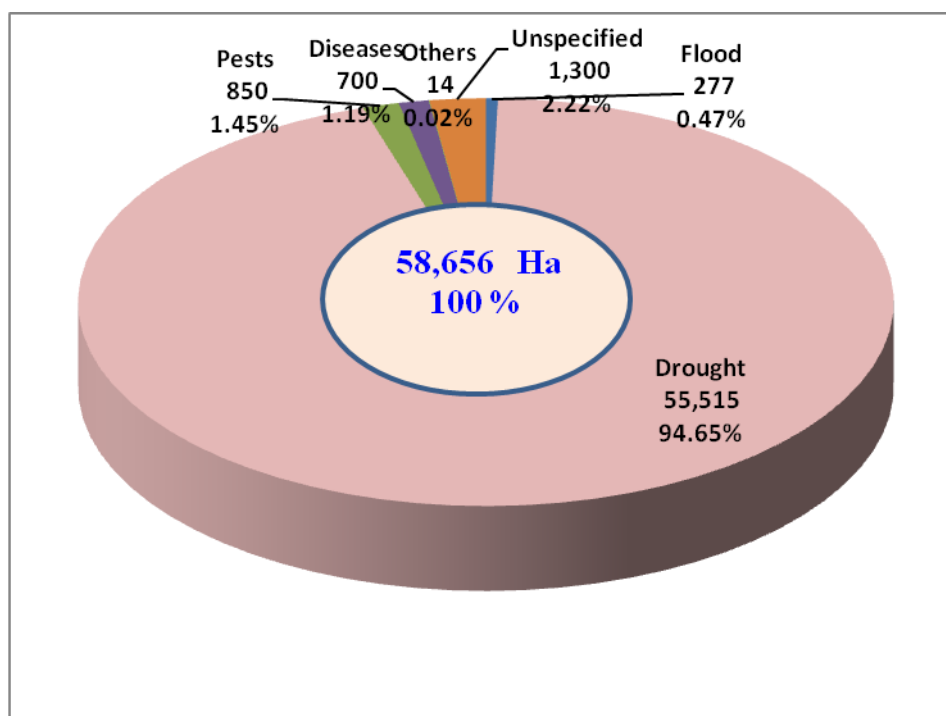


Figure 15 Sugarcane damaged area in ASEAN by cause of damage, 2016 (crop year 2015/16)

ASEAN Soybean Situation 2016

Production

Soybean production of ASEAN in 2016 (crop year 2015/16) was estimated to be 1.5 billion tons. A slightly decrease of 0.008 million tons or less than 1 percent compare to the previous year cause by the decrease in planted area and yield. Although the total production was decreased, Indonesia, Cambodia, and Lao PDR had increase in their production. (Table 16 – 20, figure 16 – 20)

Cambodia, a slightly increase in production was due to the increase in area.

For **Indonesia**, the estimated production was increase due to the plantation area.

For **Lao PDR**, the increase in production cause by the increase in plantation area.

For **Myanmar**, the second largest soybean producing country in ASEAN, the production has slightly decreased due to the reduction of the planted and yield.

The **Philippines's** production was estimated to be decreased about 20 percent.

For **Thailand**, the production was decrease due to the decreasing in plantation area.

For **Vietnam**, the production was estimated to be reduced affected by the decrease in plantation area.

Damaged Area

The total damaged area of soybean in the ASEAN in 2016 was reported to be 3,746 hectares. The major cause of damage was the flood which constituted about 76 percent of overall damage area, the majority of flooded area consist of 2,688 hectares in Indonesia and 164 hectares in Myanmar. Draught was also reported to be the important cause of damage in Indonesia and Thailand (227 hectares, and 509 hectares respectively). (Table 20, Figure 20).

Table 16 Soybean production in ASEAN countries, 2015 – 2017

Unit: 1,000 Tons

Country	2015 (2014/15)	2016 (2015/16)	change 2015 over 2014		2017 (2016/17)	change 2016 over 2015	
			Quantities	(%)		Quantities	(%)
ASEAN	1,512.03	1,504.44	-7.60	-0.50	1,534.31	29.87	1.99
Brunei	–	–	–	–	–	–	–
Cambodia	96.94	98.88	1.94	2.00	100.86	1.98	2.00
Indonesia	963.10	969.52	6.42	0.67	991.12	21.60	2.23
Lao PDR	17.63	17.94	0.31	1.76	18.10	0.16	0.87
Malaysia	–	–	–	–	–	–	–
Myanmar	228.93	222.28	-6.65	-2.90	241.12	18.84	8.48
Philippines	0.67	0.54	-0.14	-20.10	0.53	-0.01	-1.61
Singapore	–	–	–	–	–	–	–
Thailand	58.36	57.30	-1.06	-1.82	56.21	-1.10	-1.91
Vietnam	146.40	137.97	-8.43	-5.75	126.38	-11.60	-8.41

Table 17 Soybean planted area in ASEAN countries, 2015 – 2017

Unit: 1,000 Tons

Country	2015 (2014/15)	2016 (2015/16)	change 2015 over 2014		2017 (2016/17)	change 2016 over 2015	
			Quantities	(%)		Quantities	(%)
ASEAN	988.83	983.91	-4.93	-0.50	985.82	1.91	0.19
Brunei	–	–	–	–	–	–	–
Cambodia	66.82	68.16	1.34	2.00	68.84	0.68	1.00
Indonesia	620.28	625.63	5.36	0.86	626.02	0.38	0.06
Lao PDR	11.30	11.50	0.20	1.77	11.60	0.10	0.87
Malaysia	–	–	–	–	–	–	–
Myanmar	151.19	148.60	-2.59	-1.71	158.18	9.58	6.45
Philippines	0.56	0.48	-0.08	-14.16	0.48	0.00	0.00
Singapore	–	–	–	–	–	–	–
Thailand	37.88	34.53	-3.35	-8.85	33.70	-0.83	-2.40
Vietnam	100.80	95.00	-5.80	-5.75	87.00	-8.00	-8.42

Table 18 Soybean harvested area in ASEAN countries, 2015 – 2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change 2015 over 2014		2017 (2016/17)	change 2016 over 2015	
			Quantities	(%)		Quantities	(%)
ASEAN	978.96	980.16	1.20	0.12	985.20	5.04	0.51
Brunei	–	–	–	–	–	–	–
Cambodia	66.61	68.00	1.39	2.09	68.68	0.68	1.00
Indonesia	613.89	622.72	8.84	1.44	626.02	3.30	0.53
Lao PDR	11.30	11.50	0.20	1.77	11.60	0.10	0.87
Malaysia	–	–	–	–	–	–	–
Myanmar	150.80	148.44	-2.36	-1.57	158.18	9.74	6.56
Philippines	0.56	0.48	-0.08	-14.16	0.48	0.00	-0.28
Singapore	–	–	–	–	–	–	–
Thailand	35.01	34.02	-0.99	-2.82	33.24	-0.78	-2.29
Vietnam	100.80	95.00	-5.80	-5.75	87.00	-8.00	-8.42

Note: Vietnam reported only planted area.

Table 19 Soybean yield in ASEAN countries, 2015 – 2017

Unit: Ton/Hectare

Country	2015 (2014/14)	2016 (2015/15)	change 2015 over 2014		2017 (2016/16)	change 2016 over 2015	
			Quantities	(%)		Quantities	(%)
ASEAN	1.54	1.53	-0.01	-0.62	1.56	0.02	1.46
Brunei	–	–	–	–	–	–	–
Cambodia	1.46	1.45	-0.01	-0.09	1.47	0.01	0.99
Indonesia	1.57	1.56	-0.01	-0.76	1.58	0.03	1.69
Lao PDR	1.56	1.56	0.00	-0.01	1.56	0.00	0.00
Malaysia	–	–	–	–	–	–	–
Myanmar	1.52	1.50	-0.02	-1.36	1.52	0.03	1.80
Philippines	1.21	1.13	-0.08	-6.92	1.11	-0.02	-1.34
Singapore	–	–	–	–	–	–	–
Thailand	1.67	1.68	0.02	1.04	1.69	0.01	0.39
Vietnam	1.45	1.45	0.00	0.00	1.45	0.00	0.02

Table 20 Soybean damaged area in ASEAN by cause of damage, 2016

Country	Cause of Damage (Hectares)						Total
	Flood	Drought	Pests	Diseases	Others	Unspecify	
ASEAN	2,852	733	—	—	—	160	3,746
Brunei	—	—	—	—	—	—	—
Cambodia	—	—	—	—	—	160	160
Indonesia	2,688	224	—	—	—	—	2,912
Lao PDR	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—
Myanmar	164	—	—	—	—	—	164
Philippines	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—
Thailand	—	509	—	—	—	—	509
Vietnam	—	—	—	—	—	—	—

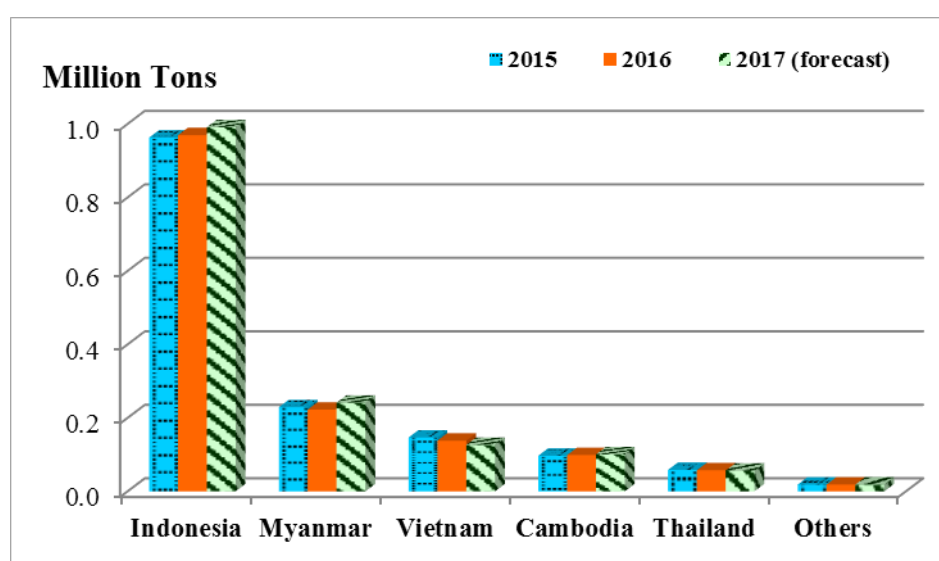


Figure 16 Soybean production of selected countries in ASEAN, 2015 – 2017

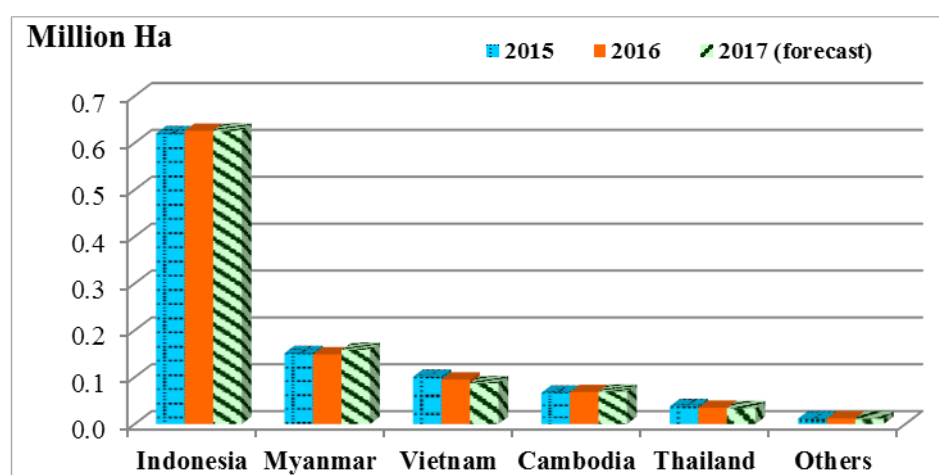


Figure 17 Soybean planted area of selected countries in ASEAN, 2015 – 2017

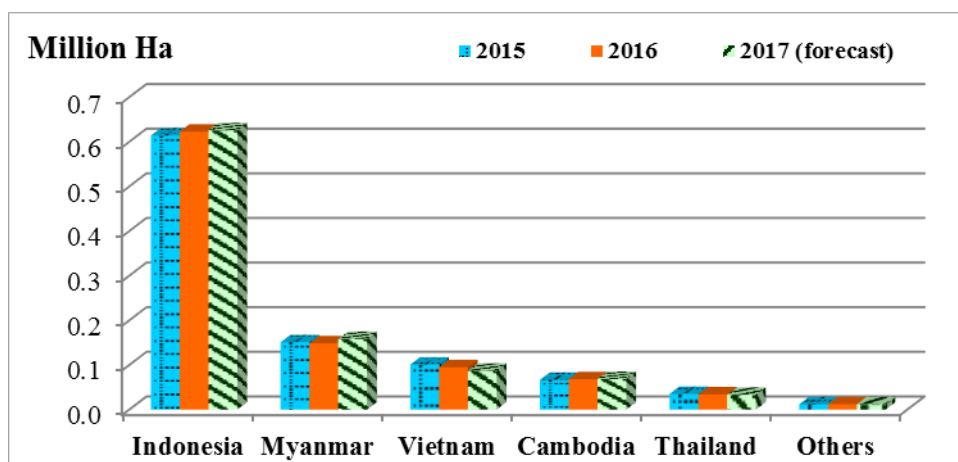


Figure 18 Soybean harvested area of selected countries in ASEAN, 2015 – 2017

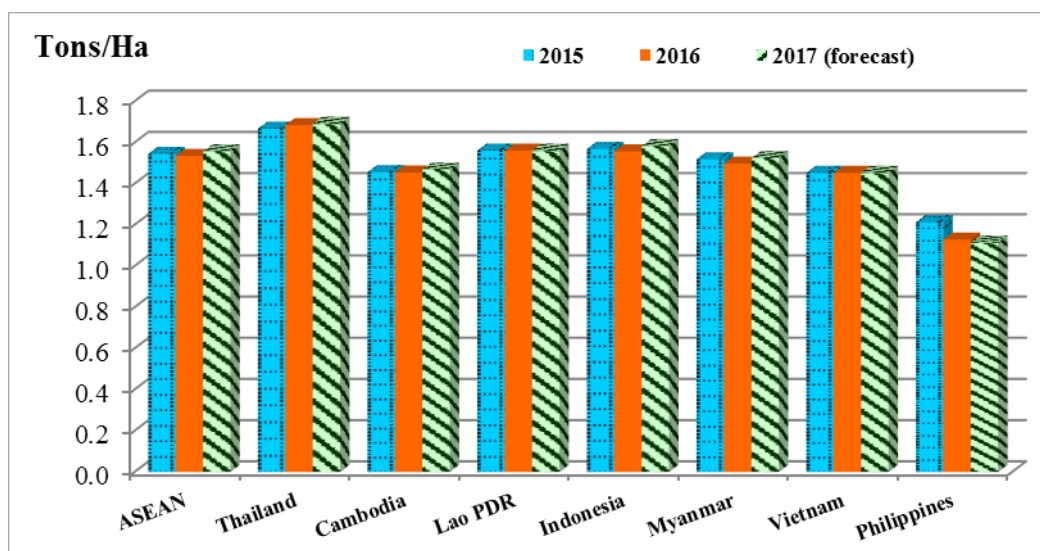


Figure 19 Soybean yield of countries in ASEAN, 2015 – 2017

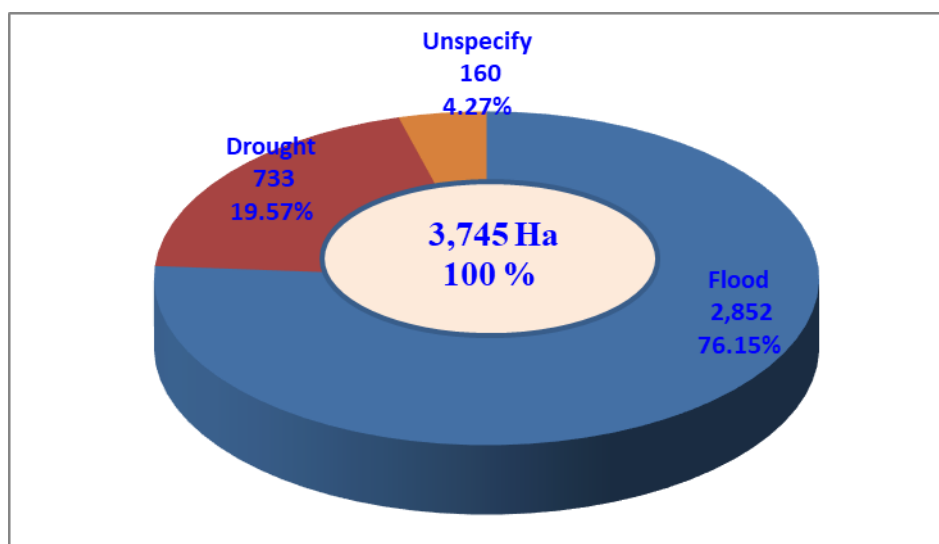


Figure 20 Soybean damaged area in ASEAN by cause of damage, 2016 (crop year 2015/16)

ASEAN Cassava Situation in 2016

Production

The cassava production (root fresh) in ASEAN in 2016 (crop year 2015/16) was estimated to be 85.92 million tons, an increase of 4.04 million tons or about 5 percent compare to last year. The increase has occurred in every producing country except Lao PDR, Myanmar, and Thailand. (Table 21 – 24, Figure 21 – 24).

For **Cambodia**, the estimate production was 85.92 million tons, an increase in production compare to last year came from the expansion of planted area and the increase in yield.

For **Indonesia**, the estimate production was 26.75 million tons, an increase of 4.96 million tons or 22.75 percent compare to last year was due to the favorable weather and special assistant from the government

For **Lao PDR**, the estimate production was 1.53 million tons, a decrease in production compare to last year came from the decrease in planted area and yield.

In **Malaysia**, the estimate production was 0.07 million tons, a slightly increase came from the increase in both area and yield.

For **Myanmar**, the estimate production was 0.46 million tons, a decrease in production of 5.04 percent compare to last year was due to the decline in planted area and the decrease in yield.

In the **Philippines**, the estimate production was 2.75 million tons, an increase in production of 0.12 million tons compare to last year came from the increase in planted area and yield.

In **Thailand**, the estimate production was 30.56 million tons, a decrease in production of 1.80 million tons compare to last year was due to drought, and flood.

In **Vietnam**, the estimate production was 10.58 million tons, an increase in production of 0.13 million tons came from the expansion in planted area and yield increase.

Damaged Area

The cassava damaged area in 2016 in the ASEAN was reported to be 92,362 hectares. The majority of the damaged area caused by drought 94.27 percent or 87,069 hectares had occurred in Thailand. Furthermore, Cambodia also reported a damaged area of 4,567 hectares which is caused by pests. (Table 25, Figure 25)

Table 21 Cassava production in ASEAN countries, 2015-2017

Unit: 1,000 Tons

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	81,884.10	85,921.52	4,037.42	4.93	87,373.29	1,451.77	1.69
Brunei	0.17	0.17	0.01	3.00	0.18	0.01	3.00
Cambodia	11,943.20	13,222.25	1,279.04	10.71	13,386.69	164.44	1.24
Indonesia	21,790.96	26,749.01	4,958.06	22.75	26,918.63	169.61	0.63
Lao PDR	2,158.71	1,527.20	-631.51	-29.25	1,557.75	30.55	2.00
Malaysia	67.71	74.48	6.77	10.00	81.93	7.45	10.00
Myanmar	484.91	460.48	-24.43	-5.04	764.40	303.92	66.00
Philippines	2,628.01	2,751.85	123.84	4.71	2,822.97	71.12	2.58
Singapore							
Thailand	32,357.74	30,557.86	-1,799.88	-5.56	31,187.28	629.42	2.06
Vietnam	10,452.70	10,578.22	125.52	1.20	10,653.47	75.25	0.71

Table 22 Cassava planted area in ASEAN countries, 2015-2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change 2016 over 2015		2017 (2016/17)	change 2017 over 2016	
			Quantities	(%)		Quantities	(%)
ASEAN	3,849.86	4,023.32	173.45	4.51	3,996.67	-26.65	-0.66
Brunei	-	-	-	-	-	-	-
Cambodia	521.46	531.89	10.43	2.00	542.42	10.54	1.98
Indonesia	949.25	1,108.56	159.31	16.78	1,102.20	-6.36	-0.57
Lao PDR	74.15	46.00	-28.15	-37.97	46.50	0.50	1.09
Malaysia	4.03	4.19	0.16	4.02	4.36	0.17	3.98
Myanmar	37.20	36.24	-0.96	-2.58	48.34	12.11	33.42
Philippines	219.52	223.20	3.69	1.68	224.47	1.26	0.57
Singapore	-	-	-	-	-	-	-
Thailand	1,491.15	1,514.24	23.08	1.55	1,466.38	-47.86	-3.16
Vietnam	553.10	559.00	5.90	1.07	562.00	3.00	0.54

Table 23 Cassava harvested area in ASEAN countries, 2015-2017

Unit: 1,000 Hectares

Country	2015 (2014/15)	2016 (2015/16)	change		2017 (2016/17)	change	
			Quantities	(%)		Quantities	(%)
ASEAN	3,785.74	3,930.95	145.21	3.84	3,906.95	-24.00	-0.61
Brunei	-	-	-		-	-	
Cambodia	515.29	527.32	12.03	2.33	537.87	10.55	2.00
Indonesia	949.25	1,108.56	159.31	16.78	1,102.20	-6.36	-0.57
Lao PDR	74.15	46.00	-28.15	-37.97	46.50	0.50	1.09
Malaysia	3.42	3.47	0.05	1.40	3.51	0.05	1.38
Myanmar	37.20	36.24	-0.96	-2.58	48.34	12.11	33.42
Philippines	219.52	223.20	3.69	1.68	224.47	1.26	0.57
Singapore	-	-	-		-	-	
Thailand	1,433.82	1,427.17	-6.65	-0.46	1,382.06	-45.11	-3.16
Vietnam	553.10	559.00	5.90	1.07	562.00	3.00	0.54

Note: Vietnam reported only planted area.

Table 24 Cassava yield in ASEAN countries, 2015-2017

Unit: Ton/Hectare

Country	2015 (2014/15)	2016 (2015/16)	change		2017 (2016/17)	change	
			Quantities	(%)		Quantities	(%)
ASEAN	21.63	21.86	0.23	1.06	22.36	0.50	2.29
Brunei	-	-	-		-	-	
Cambodia	23.18	25.07	1.89	8.15	24.89	-0.18	-0.72
Indonesia	22.96	24.13	1.17	5.10	24.42	0.29	1.20
Lao PDR	29.11	33.20	4.09	14.05	33.50	0.30	0.90
Malaysia	19.81	21.49	1.68	8.48	23.32	1.83	8.52
Myanmar	13.04	12.71	-0.33	-2.53	15.81	3.10	24.39
Philippines	11.97	12.33	0.36	3.01	12.58	0.25	2.03
Singapore	-	-	-		-	-	
Thailand	22.57	21.41	-1.16	-5.14	22.57	1.16	5.42
Vietnam	18.90	18.92	0.02	0.11	18.96	0.04	0.21

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

Table 25 Cassava damaged area in ASEAN by cause of damage, 2016

Country	Cause of Damage (Hectares)						Total
	Flood	Drought	Pests	Disease	Others	Unspecitfy	
ASEAN		87,069	4,567	-	-	726	92,362
Brunei	-	-	-	-	-	-	-
Cambodia		-	4,567	-	-	-	4,567
Indonesia		-	-	-	-	-	-
Lao PDR	-	-	-	-		-	-
Malaysia	-		-	-	-	726	726
Myanmar	-	-	-	-	-	-	-
Philippine	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-
Thailand	-	87,069	-	-	-	-	87,069
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

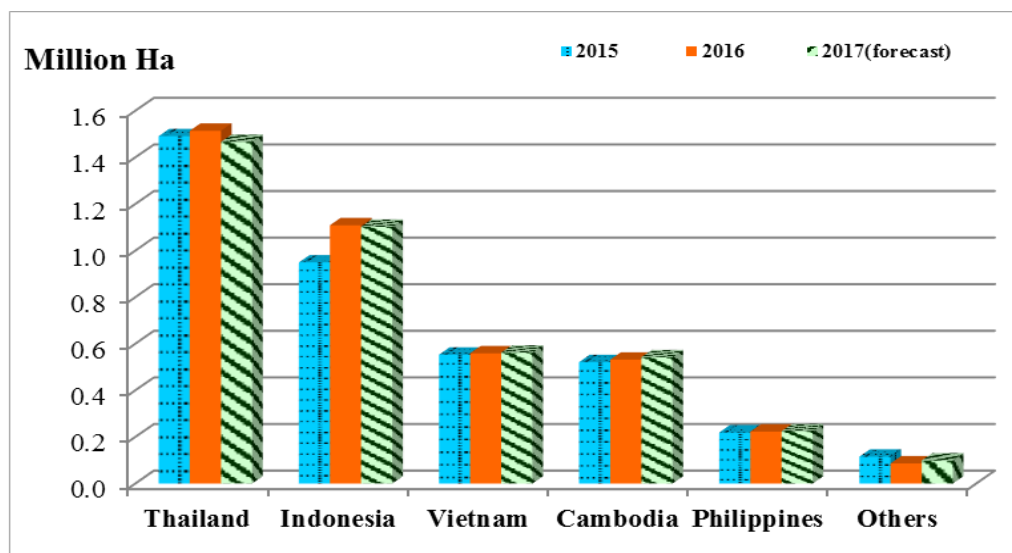
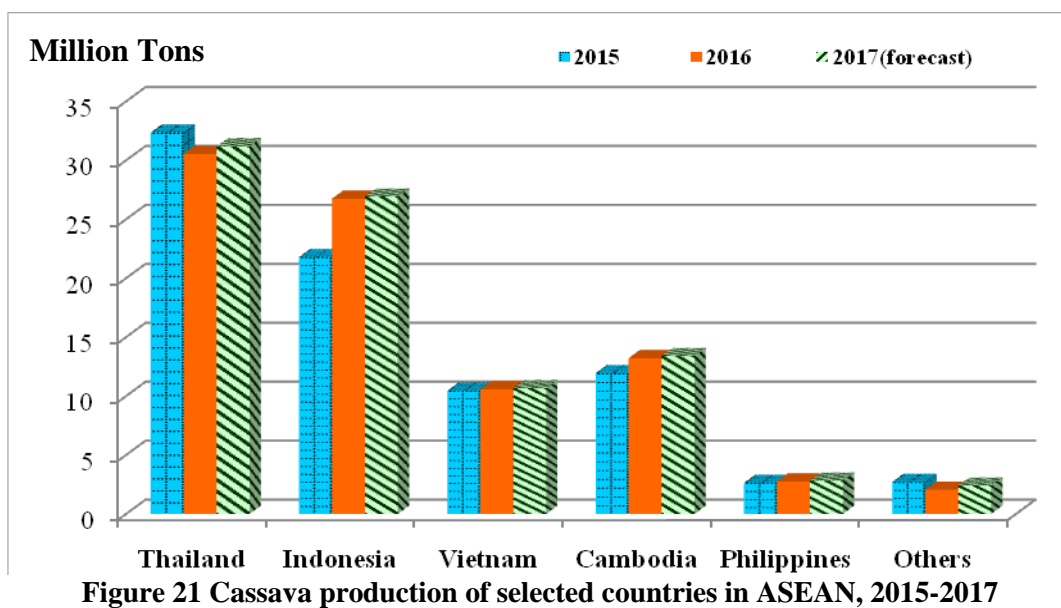


Figure 22 Cassava planted area of selected countries in ASEAN, 2015-2017

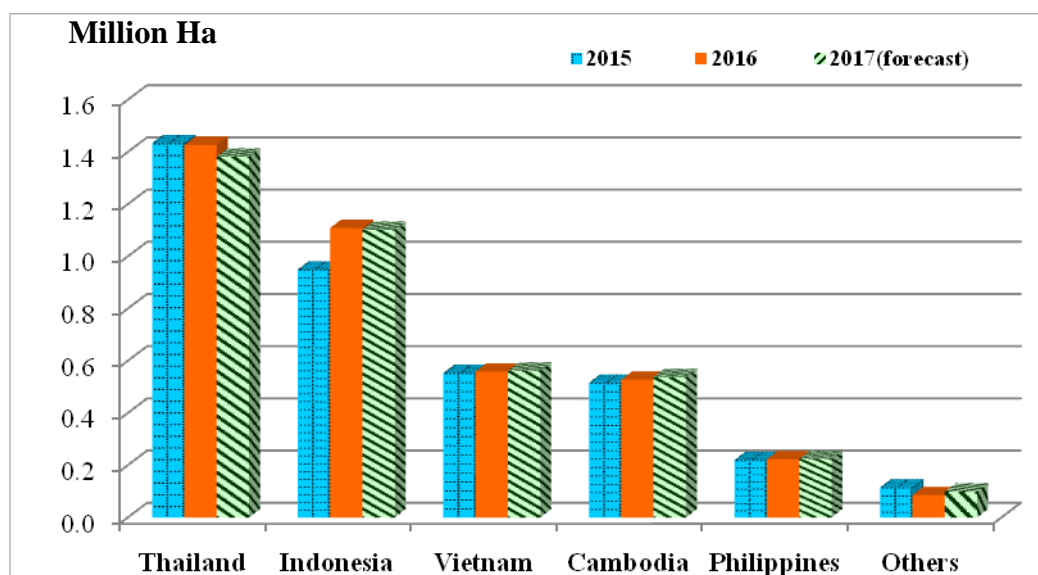


Figure 23 Cassava harvested area of selected countries in ASEAN, 2015-2017

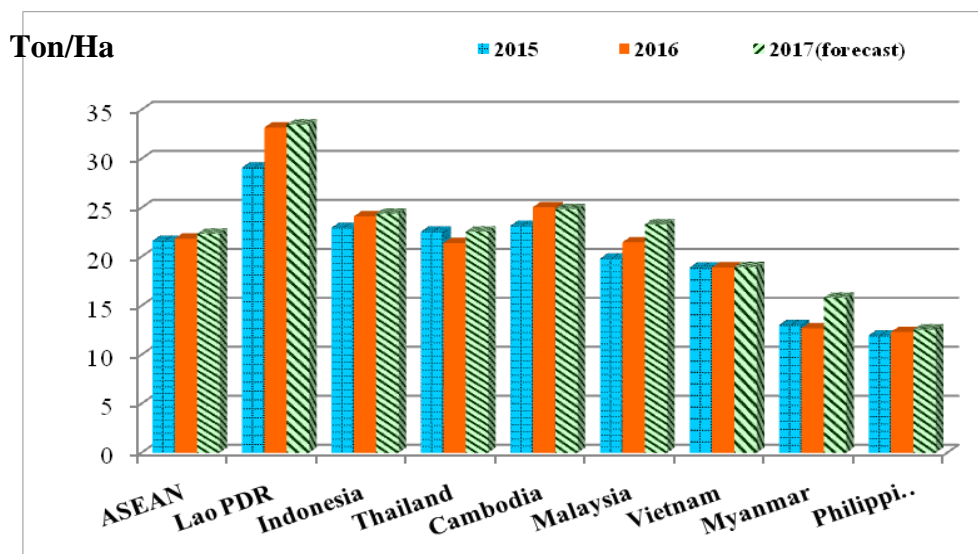


Figure 24 Cassava yield of countries in ASEAN, 2015-2017

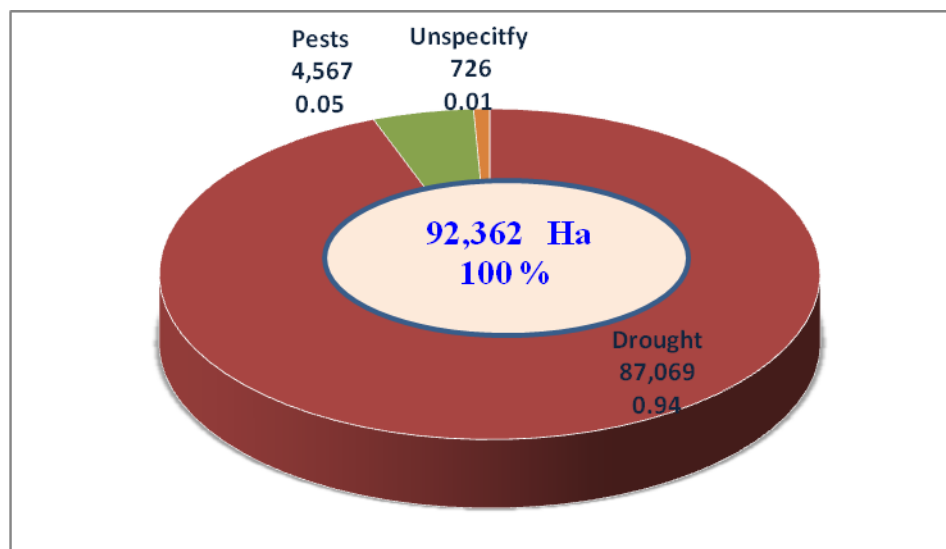


Figure 25 Cassava damaged area in ASEAN by cause of damage, 2016 (crop year 2015/16)

Explanatory Notes
Production of Paddy for 2016

Brunei:

- Wet season refers to the crop harvested during January to June 2016.
- Dry season refers to the crop harvested during July to December 2016.

Cambodia:

- Wet season refers to the crop harvested during August to December 2015.
- Dry season refers to the crop harvested during January to March 2016.

Indonesia:

- Wet season refers to the crop harvested during January to April and September to December 2016.
- Dry season refers to the crop harvested during May to August 2016.

Lao PDR:

- Wet season refers to the crop harvested during September 2015 to January 2016.
- Dry season refers to the crop harvested during February to May 2016.

Malaysia:

- Wet season refers to the crop harvested during December 2015 to June 2016.
- Dry season refers to the crop harvested during July to November 2016.

Myanmar:

- Wet season refers to the crop harvested during September 2015 to January 2016.
- Dry season refers to the crop harvested during January to August 2016.

Philippines:

- Wet season refers to the crop harvested during August to December 2015.
- Dry season refers to the crop harvested during January to June 2016.

Thailand:

- Wet season refers to the crop harvested during August 2015 to April 2016.
- Dry season refers to the crop harvested during February to May 2016.

Vietnam:

Spring-season

- North refers to the crop harvested during June to July 2016.
- South refers to the crop harvested during March to May 2016.

Autumn-season

- North refers to the crop harvested during August to September 2016.
- South refers to the crop harvested during July to September 2016.

Winter-season

- North refers to the crop harvested during October to November 2016.
- South refers to the crop harvested during October 2016 to January 2017.

Production of Maize for 2016

Cambodia:

- Wet season refers to the crop harvested during August to October 2016.
- Dry season refers to the crop harvested during February to March 2016.

Indonesia:

- 1st crop harvested during January to April 2016.
- 2nd crop harvested during May to August 2016.
- 3rd crop harvested during September to December 2016.

Lao PDR:

- Wet season refers to the crop harvested during June to July 2016.
- Dry season refers to the crop harvested during September to December 2016.

Myanmar:

- Wet season refers to the crop harvested during August to November 2015.
- Dry season refers to the crop harvested during January to March 2016.

Philippines:

- Wet season refers to the crop harvested during July to December 2016.
- Dry season refers to the crop harvested during January to June 2016.

Thailand:

- Wet season refers to the crop harvested during June 2016 to February 2017.
- Dry season refers to the crop harvested during February to May 2016.

Vietnam:

- 1st crop harvested during January to March 2016.
- 2nd crop harvested during April to September 2016.
- 3rd crop harvested during July 2016 to January 2017.

Production of Sugarcane for 2016

Cambodia:

- The crop harvested during October to December 2016.

Indonesia:

- The crop harvested during January to December 2016.

Lao PDR:

- The crop harvested during December 2015 to June 2016.

Myanmar:

- The crop harvested during October 2015 to March 2016.

Philippines:

- The crop harvested during October 2015 to June 2016.

Thailand:

- The crop harvested during November 2015 to May 2016.

Vietnam:

- The crop harvested during November 2015 to May 2016.

Production of Soybeans for 2016

Cambodia:

- The crop harvested during November to December 2016.

Indonesia:

- 1st crop harvested during January to April 2016.
- 2nd crop harvested during May to August 2016.
- 3rd crop harvested during September to December 2016.

Lao PDR:

- Wet season refers to the crop harvested during September to October 2016.
- Dry season refers to the crop harvested during January to March 2016.

Myanmar:

- Wet season refers to the crop harvested during August to December 2015.
- Dry season refers to the crop harvested during January to March 2016.

Philippines:

- Wet season refers to the crop harvested during July to December 2016.
- Dry season refers to the crop harvested during January to June 2016.

Thailand:

- Wet season refers to the crop harvested during August to December 2016.
- Dry season refers to the crop harvested during January to May 2016.

Vietnam:

- Wet season refers to the crop harvested during February to May 2016.
- Dry season refers to the crop harvested during August to November 2016.

Production of Cassava for 2016

Cambodia:

- The crop harvested during half November to December 2016.

Indonesia:

- 1st crop harvested during January to April 2016.
- 2nd crop harvested during May to August 2016.
- 3rd crop harvested during September to December 2016.

Lao PDR:

- The crop harvested during December 2015 to February 2016.

Malaysia:

- The crop harvested during October 2015 to December 2016.

Myanmar:

- The crop harvested during November 2015 to February 2016.

Philippines:

- 1st crop harvested during January to June 2016.
- 2nd crop harvested during July to December 2016.

Thailand:

- The crop harvested during October 2015 to September 2016.

Vietnam:

- North refers to the crop harvested during February to March 2016.
- South refers to the crop harvested during September to October 2016.

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

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

nil: Small amount

Milling Rate of Rice (2016)

Unit: Tons

Country	Paddy	Rice
ASEAN	1	0.61
Brunei	1	0.65
Cambodia	1	0.54
Indonesia	1	0.56
Lao PDR	1	0.60
Malaysia	1	0.63
Myanmar	1	0.63
Philippines	1	0.68
Thailand	1	0.66
Vietnam	1	0.65

Extraction rate of Sugar (2016)

Unit: Tons

Country	Sugarcane	Sugar
ASEAN	1,000	105.24
Cambodia	1,000	100.00
Indonesia	1,000	153.85
Lao PDR	1,000	200.00
Myanmar	1,000	80.00
Philippines	1,000	95.88
Thailand	1,000	103.95
Vietnam	1,000	90.91

ANNEX 1

Rice crop calendar (harvested months) for crop year 2015/16 (2016) in ACO-16 report

Country		2015					2016												2017	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Brunei	Wet season						←→													
	Dry season												←→							
Cambodia	Wet season	←→																		
	Dry season						←→													
Indonesia	Wet season						←→								←→					
	Dry season										←→									
Lao PDR	Wet season		←→																	
	Dry season						←→													
Malaysia	Wet season						←→													
	Dry season											←→								
Myanmar	Wet season		←→																	
	Dry season						←→													
Philippines	Wet season	←→																		
	Dry season						←→													
Thailand	Wet season	←→																		
	Dry season						←→													
Vietnam	Spring							←→ South				←→ North								
	Autumn												←→ North							
	Winter													←→ South						

ANNEX 2

Maize crop calendar (harvested months) for crop year 2015/16 (2016) in ACO-16 report

Country	Crop	2015					2016												2017	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Cambodia	Wet season																			
	Dry season																			
Indonesia	1st																			
	2nd																			
	3rd																			
Lao PDR	Wet season																			
	Dry season																			
Myanmar	Wet season																			
	Dry season																			
Philippines	Wet season																			
	Dry season																			
Thailand	Wet season																			
	Dry season																			
Vietnam	1st																			
	2nd																			
	3rd																			















ANNEX 3

Sugarcane crop calendar (harvested months) for crop year 2015/16 (2016) in ACO-16 report

Country	Crop	2015				2016											
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cambodia																	
Indonesia																	
Lao PDR																	
Myanmar																	
Philippines																	
Thailand																	
Vietnam																	

ANNEX 4

Soybean crop calendar (harvested months) for crop year 2015/16 (2016) in ACO-16 report

Country	Crop	2015					2016											
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cambodia																		
Indonesia	1st																	
	2nd																	
	3rd																	
Lao PDR	Wet season																	
	Dry season																	
Myanmar	Wet season																	
	Dry season																	
Philippines	Wet season																	
	Dry season																	
Thailand	Wet season																	
	Dry season																	
Vietnam	Wet season																	
	Dry season																	

ANNEX 5

Cassava crop calendar(harvested months) for crop year 2015/16 (2016) in ACO-16 report

Country	Crop	2015				2016											
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cambodia																	
Indonesia	1st																
	2nd																
	3rd																
Lao PDR																	
Malaysia																	
Myanmar																	
Philippines	1st																
	2nd																
Thailand																	
Vietnam	North																
	South																