



# ASEAN Early Warning Information



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## Rice Situation in ASEAN

### Production

Paddy production in ASEAN for 2010 (crop year 2009/10) was estimated at 199.85 million tons, an increase of 3.75 million tons which is about 1.91 percent from 196.10 million tons in 2009. The increase in production was attributed to the increase in both area and yield. However, the increase in yield was very small. All countries, except the Philippines, the estimated paddy production has increased as compared with the previous year. In terms of quantity, Indonesia has increased the most and followed by Vietnam, Thailand and Cambodia respectively. But in terms of percentage change, the highest value was found in Brunei (Table 1, Figure 1). The reduction in paddy production in the Philippines was almost half of a million tons which is about one – fourth of the average annual import of the country. The decrease in production was due to the decrease in area as a result of the El Nino effect. The average yield, however, has increased due to the increase in yield of the second crop which has recovered from the previous year damage caused by typhoon Onday and Pepeng.

For 2011 (crop year 2010/11), paddy production in ASEAN is forecast to be 202.79 million tons, up 1.47 percent from previous year (Table 1, Figure 1). All countries, except Thailand, are forecast to increase in production. The highest increase is expected in Indonesia, the Philippines, Vietnam and Cambodia respectively. The decrease in production in Thailand is expected due to the reduction in planted area of major (wet season) crop even though the area of the second (dry season) crop has increased. The decrease in area of the major crop is due to the drought while the increase in the area of the second crop is due to the positive price response of the farmers. The average yield of paddy in Thailand is also decrease due to the flood during the major crop season which cannot compensate by the increase in yield of the second crop.

## **Harvested Area**

Paddy harvested area in ASEAN in 2010 (crop year 2009/10) was estimated at 48.51 million hectares, up from 47.78 million hectares in 2009, which is about 1.54 percent from previous year (Table 3, Figure 3). On the country by country basis, the change in harvested area is mixed. The countries that estimated to increase in harvested area were Brunei, Cambodia, Indonesia, Thailand and Vietnam. On the other hand, Lao PDR, Malaysia, Myanmar and the Philippines were estimated to decrease in harvested area. The main reason for decreasing in harvested area was due to the damage caused by drought.

The harvested area in 2011 is forecast to increase a little from 48.51 million hectares to 48.69 million hectares which is about 0.37 percent increase from previous year. Every country, except Thailand and Vietnam is forecast to increase in harvested area. For Thailand, the reduction in harvested area is forecast due to the drought.

## **Yield**

The average paddy yield in ASEAN in 2010 (crop year 2009/10) was estimated at 4.12 tons per hectare which is approximately the same as previous year. In most countries in the region, the yield has increased, except Thailand and Brunei. The decrease in yield in Thailand was due to the drought and pests (brown plant hoppers) of the first crop (major crop) as well as the pests in the second crop. For Brunei, the reduction in yield was due to the unfavorable weather (Table 4, Figure 4).

The average yield in ASEAN in 2011 (crop year 2010/11) is forecast to be 4.16 tons per hectare, up from 4.12 tons per hectare in 2010. All countries, except Thailand and Lao PDR, the yield is expected to increase. The reduction in yield in Thailand is mainly due to the flood during harvested period of the major crop. For Lao PDR, the decrease in yield is due to the drought.

## **Damaged Area**

The estimated paddy damaged area in 2010 (crop year 2009/10) for the whole ASEAN was 783,342 hectares. The damage caused by the pests was reported to be 365,063 hectares while the damage due to the drought and the flood were 266,030 hectares and 149,895 hectares respectively. For the flood, Indonesia and Cambodia were affected the most. For the drought, Thailand, the Philippines, Indonesia and Lao PDR were severely affected (Table 5).

**Table 1 Paddy production in ASEAN countries, 2009-2011**

Unit: 1,000 Tons

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>196,101.99</b>	<b>199,847.00</b>	<b>3,745.02</b>	<b>1.91</b>	<b>202,793.76</b>	<b>2,946.76</b>	<b>1.47</b>
Brunei	1.37	1.65	0.28	20.22	1.93	0.28	17.10
Cambodia	7,175.47	7,585.87	410.40	5.72	8,075.85	489.98	6.46
Indonesia	64,398.89	66,411.47	2,012.59	3.13	67,307.32	895.84	1.35
Lao PDR	3,144.80	3,258.60	113.80	3.62	3,450.00	191.40	5.87
Malaysia	2,511.04	2,548.31	37.27	1.48	2,665.10	116.79	4.58
Myanmar	32,057.87	32,165.12	107.25	0.33	32,488.01	322.90	1.00
Philippines	16,266.42	15,771.72	-494.70	-3.04	16,647.37	875.65	5.55
Singapore	-	-	-	-	-	-	-
Thailand	31,650.63	32,116.06	465.43	1.47	31,597.18	-518.88	-1.62
Vietnam	38,895.50	39,988.20	1,092.70	2.81	40,561.00	572.80	1.43

**Table 2 Paddy planted area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>48,469.59</b>	<b>49,877.64</b>	<b>1,408.05</b>	<b>2.91</b>	<b>49,391.10</b>	<b>-486.54</b>	<b>-0.98</b>
Brunei	1.73	1.85	0.12	6.76	1.93	0.08	4.44
Cambodia	2,616.53	2,720.38	103.85	3.97	2,762.84	42.46	1.56
Indonesia	12,948.59	13,938.41	989.82	7.64	13,405.99	-532.42	-3.82
Lao PDR	904.28	899.97	-4.31	-0.48	925.00	25.03	2.78
Malaysia	674.93	673.75	-1.18	-0.18	683.68	9.93	1.47
Myanmar	8,094.30	8,066.65	-27.65	-0.34	8,107.90	41.24	0.51
Philippines	4,617.18	4,427.84	-189.34	-4.10	4,395.40	-32.44	-0.73
Singapore	-	-	-	-	-	-	-
Thailand	11,171.96	11,635.19	463.23	4.15	11,600.37	-34.82	-0.30
Vietnam	7,440.10	7,513.60	73.50	0.99	7,508.00	-5.60	-0.07

**Table 3 Paddy harvested area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change 2009 over 2008		2011 (2010/11)	change 2010 over 2009	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>47,775.96</b>	<b>48,513.10</b>	<b>737.14</b>	<b>1.54</b>	<b>48,691.75</b>	<b>178.65</b>	<b>0.37</b>
Brunei	1.06	1.56	0.50	46.87	1.74	0.18	11.39
Cambodia	2,613.36	2,674.60	61.24	2.34	2,743.08	68.48	2.56
Indonesia	12,883.58	13,244.18	360.61	2.80	13,258.69	14.51	0.11
Lao PDR	872.90	856.80	-16.10	-1.84	925.00	68.20	7.96
Malaysia	671.49	668.64	-2.85	-0.42	678.23	9.58	1.43
Myanmar	8,077.61	8,058.15	-19.46	-0.24	8,073.24	15.08	0.19
Philippines	4,532.31	4,354.16	-178.15	-3.93	4,395.40	41.24	0.95
Singapore	-	-	-	-	-	-	-
Thailand	10,683.55	11,141.39	457.85	4.29	11,108.37	-33.02	-0.30
Vietnam	7,440.10	7,513.60	73.50	0.99	7,508.00	-5.60	-0.07

Note: Vietnam reported only planted area.

**Table 4 Paddy yield in ASEAN countries, 2009-2011**

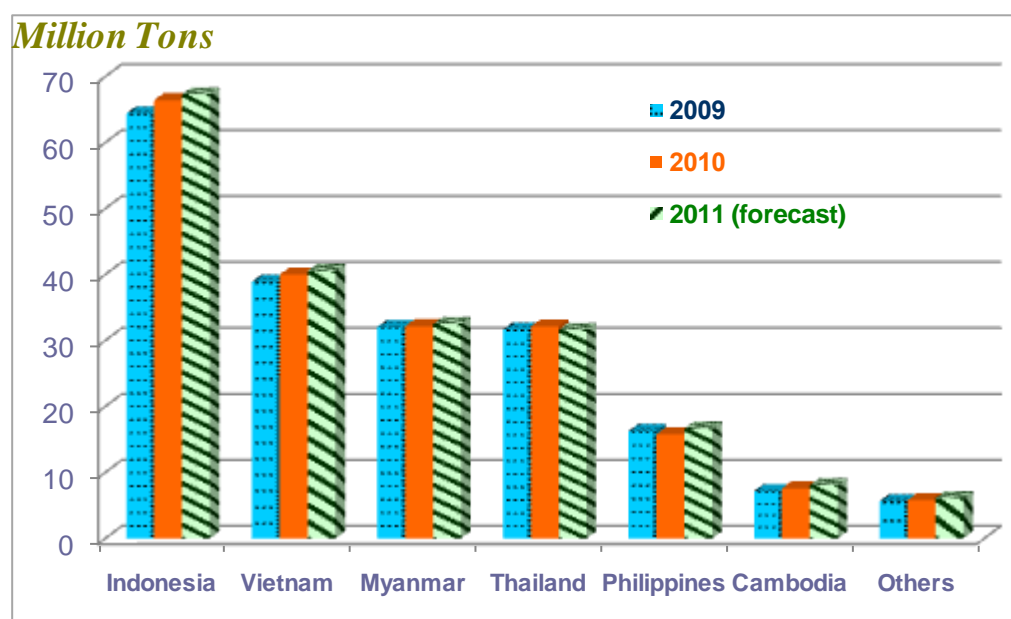
Unit: Ton/Hectare

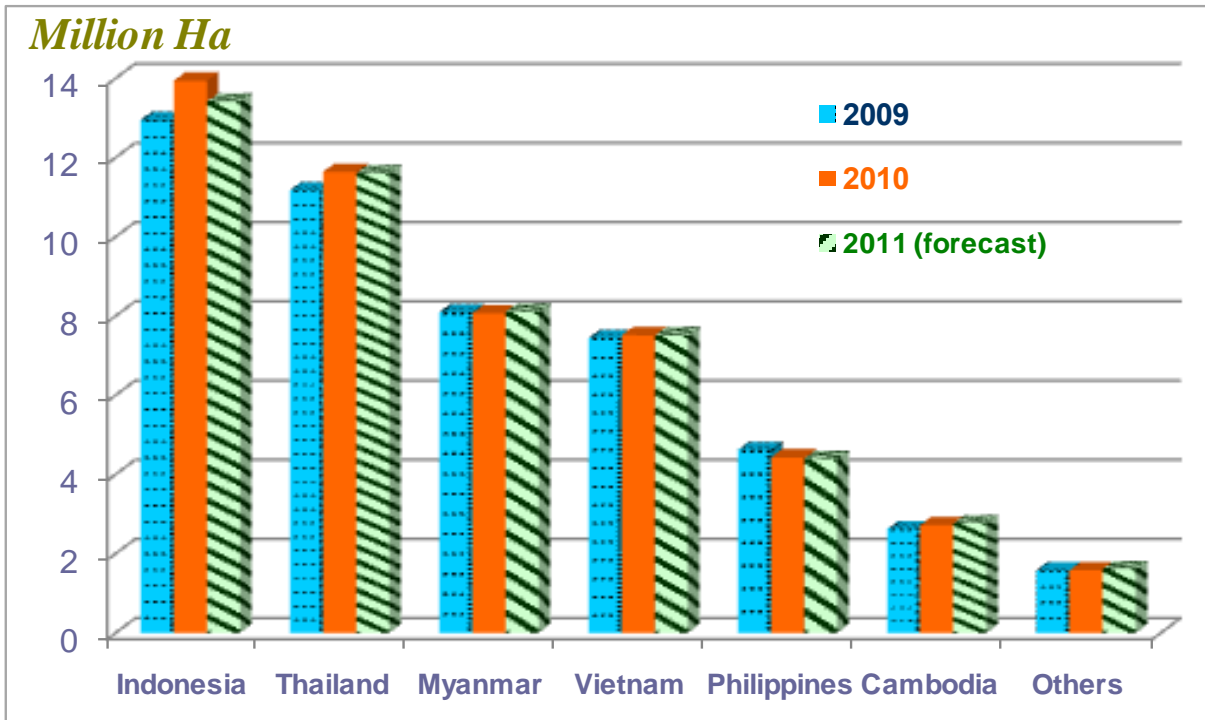
Country	2009 (2008/09)	2010 (2009/10)	change 2009 over 2008		2011 (2010/11)	change 2010 over 2009	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>4.10</b>	<b>4.12</b>	<b>0.02</b>	<b>0.49</b>	<b>4.16</b>	<b>0.04</b>	<b>0.97</b>
Brunei	1.29	1.06	-0.23	-17.83	1.11	0.05	4.72
Cambodia	2.75	2.84	0.09	3.27	2.94	0.10	3.52
Indonesia	5.00	5.01	0.01	1.20	5.08	0.07	1.40
Lao PDR	3.60	3.80	0.20	5.56	3.73	-0.07	-1.84
Malaysia	3.74	3.81	0.07	1.87	3.93	0.12	3.15
Myanmar	3.97	3.99	0.02	0.50	4.02	0.03	0.75
Philippines	3.59	3.62	0.03	0.84	3.79	0.17	4.70
Singapore	-	-	-	-	-	-	-
Thailand	2.96	2.88	-0.08	-2.70	2.84	-0.04	-1.39
Vietnam	5.23	5.32	0.09	1.72	5.40	0.08	1.50

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

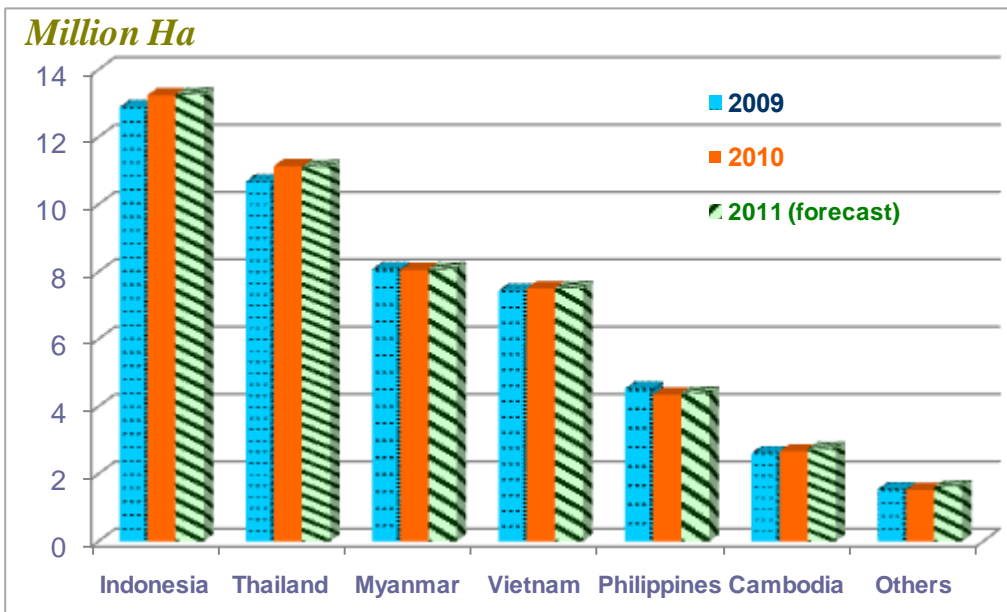
**Table 5 Paddy damaged area in ASEAN by cause of damage, 2010**

Country	Cause of Damage (Hectares)					Total
	Flood	Drought	Pests	Diseases	Others	
<b>ASEAN</b>	<b>149,895</b>	<b>266,030</b>	<b>365,063</b>	<b>827</b>	<b>1,528</b>	<b>783,342</b>
Brunei	51	164	44	32	-	290
Cambodia	40,027	5,681	69	-	-	45,777
Indonesia	66,107	41,912	5,766	0	0	113,785
Lao PDR	11,553	28,588	2,264	n.a.	-	42,405
Malaysia	1,058	885	2,366	795	-	5,104
Myanmar	5,862	1,111	-	-	1,528	8,501
Philippines	14,502	59,179	0	0	0	73,681
Singapore	-	-	-	-	-	-
Thailand	10,735	128,510	354,554	0	0	493,799
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

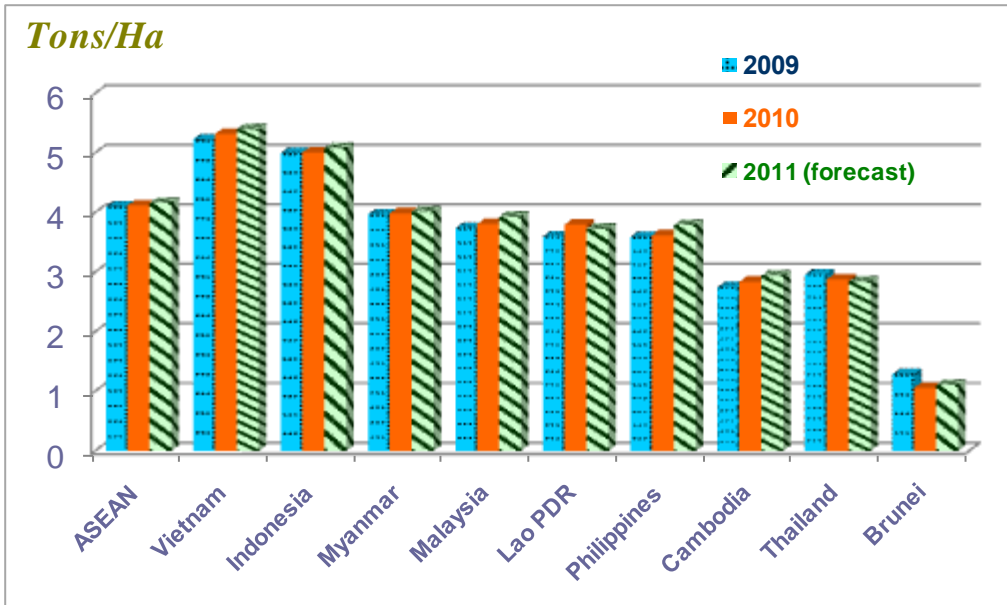
**Figure 1 Paddy production of selected countries in ASEAN, 2009-2011**



**Figure 2 Paddy planted area of selected countries in ASEAN, 2009-2011**



**Figure 3 Paddy harvested area of selected countries in ASEAN, 2009-2011**



**Figure 4 Paddy yield of countries in ASEAN, 2009-2011**

## **Maize Situation in ASEAN**

### **Production**

Maize production estimate for the whole ASEAN in 2010 (crop year 2009/10) was 36.66 million tons which is about the same as previous year. Considering country by country, however, Cambodia, the Philippines and Thailand the production has decreased while the rest of the countries in the region, the production has increased. The decrease in production in those countries was mainly due to the drought (Table 6, Figure 5).

For 2011 (crop year 2010/11), maize production is forecast to be 37.27 million tons which is about 1.66 percent higher than 2010. All countries, except Indonesia is forecast to increase in production. The reduction in production in Indonesia is due to the decrease in harvested area of the first and the second crops even though the harvested area of the third crop is forecast to increase (Table 6, Figure 5).

### **Harvested Area**

Harvested area of maize in ASEAN in 2010 (crop year 2009/10) was estimated at 9.63 million hectares, down from 9.78 million hectares in previous year which is about 1.55 percent. On the country by country basis, Cambodia, Indonesia and the Philippines were the countries that had the reduction in harvested area while the rest of the countries in the region, the harvested area has increased (Table 8, Figure 7). In Cambodia, the harvested area has decreased due to the shortage of water while the reduction in Indonesia because of the decrease in price and in the Philippines was affected by El Niño phenomenon.

For 2011 (crop year 2010/11) the harvested area in ASEAN is forecast to be 9.63 million hectares, a decrease of about 1,710 hectares from previous year. The decrease in harvested area is forecast only in Indonesia and Thailand, two of the major producing countries in the region. However, for the Philippines, the second largest maize producing countries in the region, the harvested area is forecast to increase (Table 8, Figure 7).



## Yield

The average yield of maize in ASEAN in 2010 (crop year 2009/10) was estimated at 3.81 tons per hectare, an increase of about 0.06 ton or 1.60 percent which is very little as compared with the previous year (Table 9, Figure 8). However, some countries namely, Cambodia, the Philippines and Thailand the reduction in the yield were reported. The decrease in yield in these countries were mainly due to the drought (Table 9, Figure 8).

For 2011, the forecasted maize yield for the whole ASEAN is 3.87 tons per hectare, up from 3.81 tons per hectare in 2010. The reasons for increasing the yield is forecast are due to use of more new improved varieties and use more fertilizer as well as favorable weather (Table 9, Figure 8).

## Damaged area

The total damaged area of maize in the region in 2010 was estimated to be 138,402 hectares. Most of the damaged area has occurred in the Philippines due to the drought (Table 10).

**Table 6 Maize production in ASEAN countries, 2009-2011**

Unit: 1,000 Tons

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>36,665.52</b>	<b>36,664.49</b>	<b>-1.03</b>	<b>0.00</b>	<b>37,274.55</b>	<b>610.06</b>	<b>1.66</b>
Brunei	-	-	-	-	-	-	-
Cambodia	924.03	713.83	-210.20	-22.75	867.00	153.17	21.46
Indonesia	17,629.75	18,364.43	734.68	4.17	17,925.47	-438.96	-2.39
Lao PDR	848.77	925.47	76.70	9.04	1,004.50	79.04	8.54
Malaysia	-	-	-	-	-	-	-
Myanmar	1,184.95	1,225.89	40.93	3.45	1,344.83	118.94	9.70
Philippines	7,034.03	6,376.80	-657.24	-9.34	6,960.30	583.51	9.15
Singapore	-	-	-	-	-	-	-
Thailand	4,612.18	4,451.28	-160.90	-3.49	4,479.45	28.17	0.63
Vietnam	4,431.80	4,606.80	175.00	3.95	4,693.00	86.20	1.87

**Table 7 Maize Planted area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change <i>2010 over 2009</i>		2011 (2010/11)	change <i>2011 over 2010</i>	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>9,847.53</b>	<b>9,765.72</b>	<b>-81.81</b>	<b>-0.83</b>	<b>10,111.67</b>	<b>345.95</b>	<b>3.54</b>
Brunei	-	-	-	-	-	-	-
Cambodia	221.29	201.55	-19.74	-8.92	229.00	27.45	13.62
Indonesia	4,172.19	4,171.90	-0.29	-0.01	4,530.22	358.33	8.59
Lao PDR	175.97	184.59	8.62	4.90	205.00	20.42	11.06
Malaysia	-	-	-	-	-	-	-
Myanmar	355.14	362.81	7.67	2.16	389.40	26.59	7.33
Philippines	2,701.09	2,580.09	-121.00	-4.48	2,528.13	-51.96	-2.01
Singapore	-	-	-	-	-	-	-
Thailand	1,135.05	1,137.90	2.85	0.25	1,097.92	-39.98	-3.51
Vietnam	1,086.80	1,126.90	40.10	3.69	1,132.00	5.10	0.45

**Table 8 Maize harvested area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change <i>2010 over 2009</i>		2011 (2010/11)	change <i>2011 over 2010</i>	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>9,778.99</b>	<b>9,627.32</b>	<b>-151.67</b>	<b>-1.55</b>	<b>9,625.61</b>	<b>-1.71</b>	<b>-0.02</b>
Brunei	-	-	-	-	-	-	-
Cambodia	212.96	177.93	-35.03	-16.45	209.00	31.07	17.46
Indonesia	4,160.66	4,143.25	-17.41	-0.42	4,068.78	-74.47	-1.80
Lao PDR	175.97	184.59	8.62	4.90	205.00	20.42	11.06
Malaysia	-	-	-	-	-	-	-
Myanmar	354.74	362.81	8.07	2.27	389.03	26.23	7.23
Philippines	2,683.89	2,499.04	-184.85	-6.89	2,528.13	29.09	1.16
Singapore	-	-	-	-	-	-	-
Thailand	1,103.96	1,132.81	28.85	2.61	1,093.67	-39.14	-3.45
Vietnam	1,086.80	1,126.90	40.10	3.69	1,132.00	5.10	0.45

**Table 9 Maize Yield in ASEAN countries, 2009-2011**

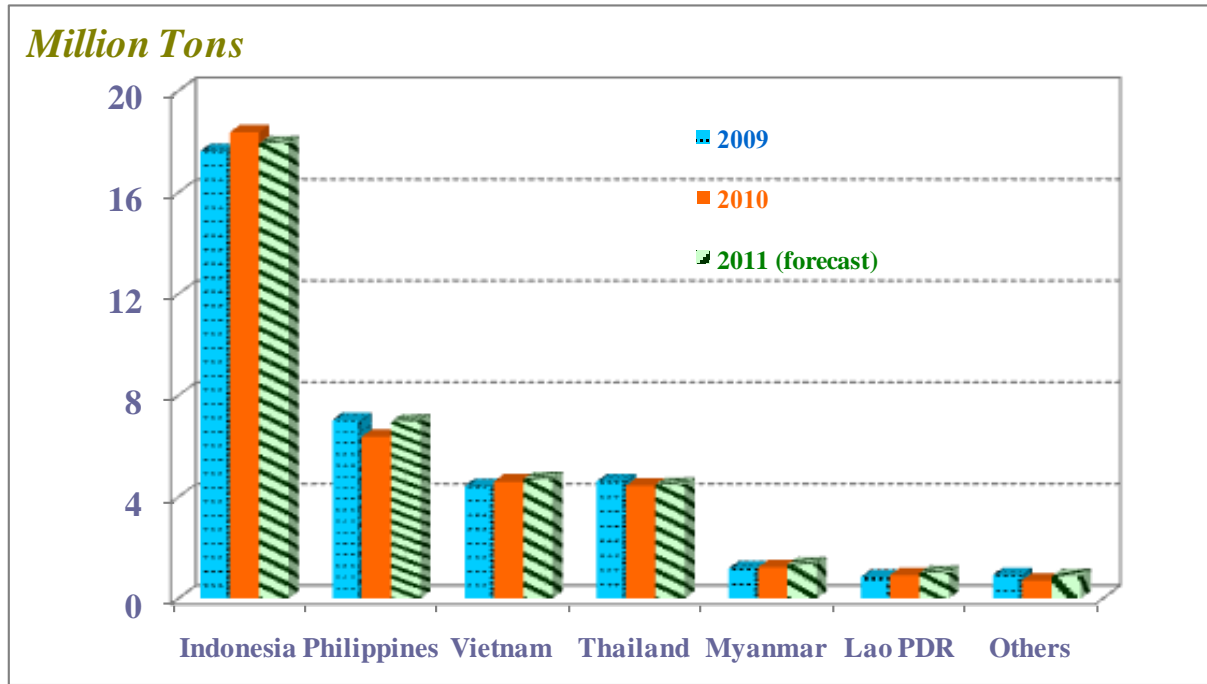
Unit: Ton/Hectare

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>3.75</b>	<b>3.81</b>	<b>0.06</b>	<b>1.60</b>	<b>3.87</b>	<b>0.06</b>	<b>1.57</b>
Brunei	-	-	-	-	-	-	-
Cambodia	4.34	4.01	-0.33	-7.60	4.15	0.14	3.49
Indonesia	4.24	4.43	0.19	4.48	4.41	-0.02	-0.45
Lao PDR	4.82	5.01	0.19	3.94	4.90	-0.11	-2.20
Malaysia	-	-	-	-	-	-	-
Myanmar	3.34	3.38	0.04	1.20	3.46	0.08	2.37
Philippines	2.62	2.55	-0.07	-2.67	2.75	0.20	7.84
Singapore	-	-	-	-	-	-	-
Thailand	4.18	3.93	-0.25	-5.98	4.10	0.17	4.33
Vietnam	4.08	4.09	0.01	0.25	4.15	0.06	1.47

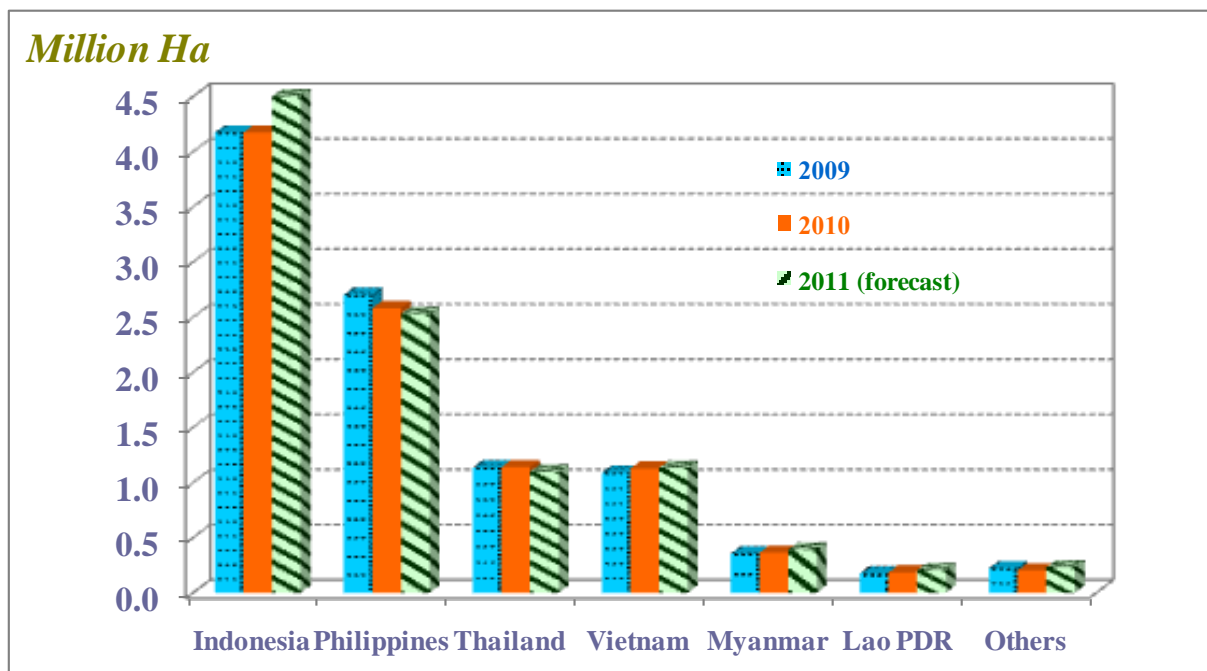
**Table 10 Maize damaged area in ASEAN by cause of damage, 2010**

Country	Cause of Damage (Hectares)					
	Flood	Drought	Pests	Diseases	Others	Total
<b>ASEAN</b>	<b>13,977</b>	<b>120,526</b>	<b>112</b>	<b>0</b>	<b>3,787</b>	<b>138,402</b>
Brunei	-	-	-	-	-	-
Cambodia	-	23,617	-	-	-	23,617
Indonesia	10,058	14,692	112	-	3,787	28,649
Lao PDR	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-
Myanmar	-	-	-	-	-	-
Philippines	130	80,918	-	-	-	81,048
Singapore	-	-	-	-	-	-
Thailand	3,789	1,299	-	-	-	5,088
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

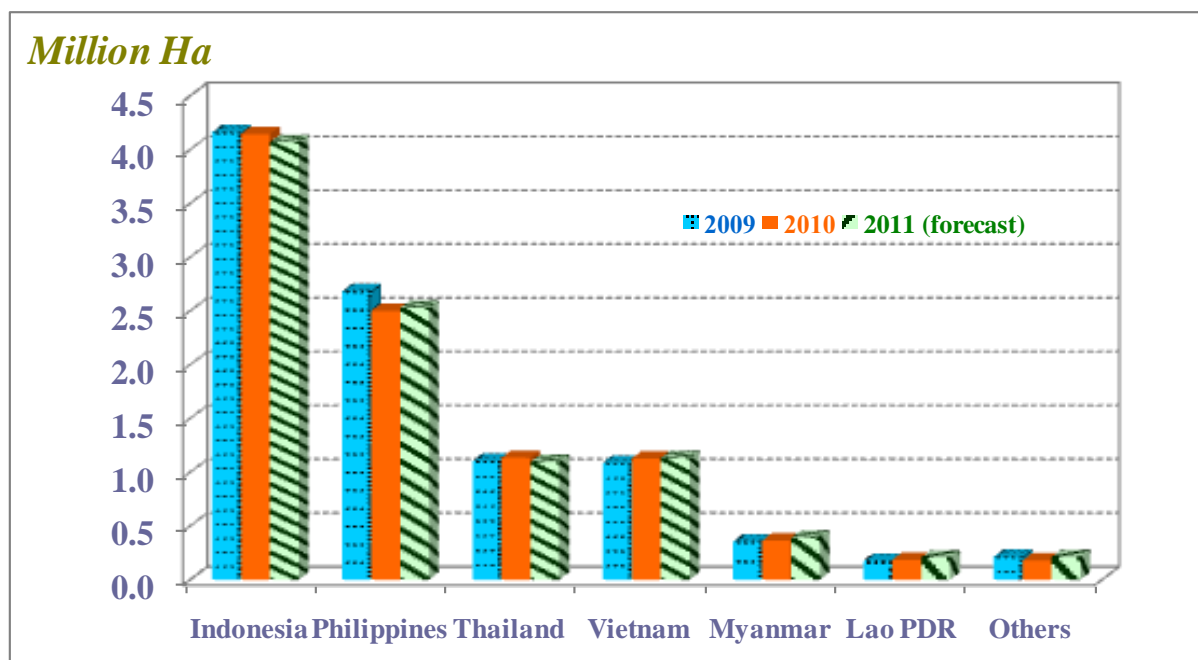
Note : Damaged area that Indonesia reported not equal to planted area minus harvested area



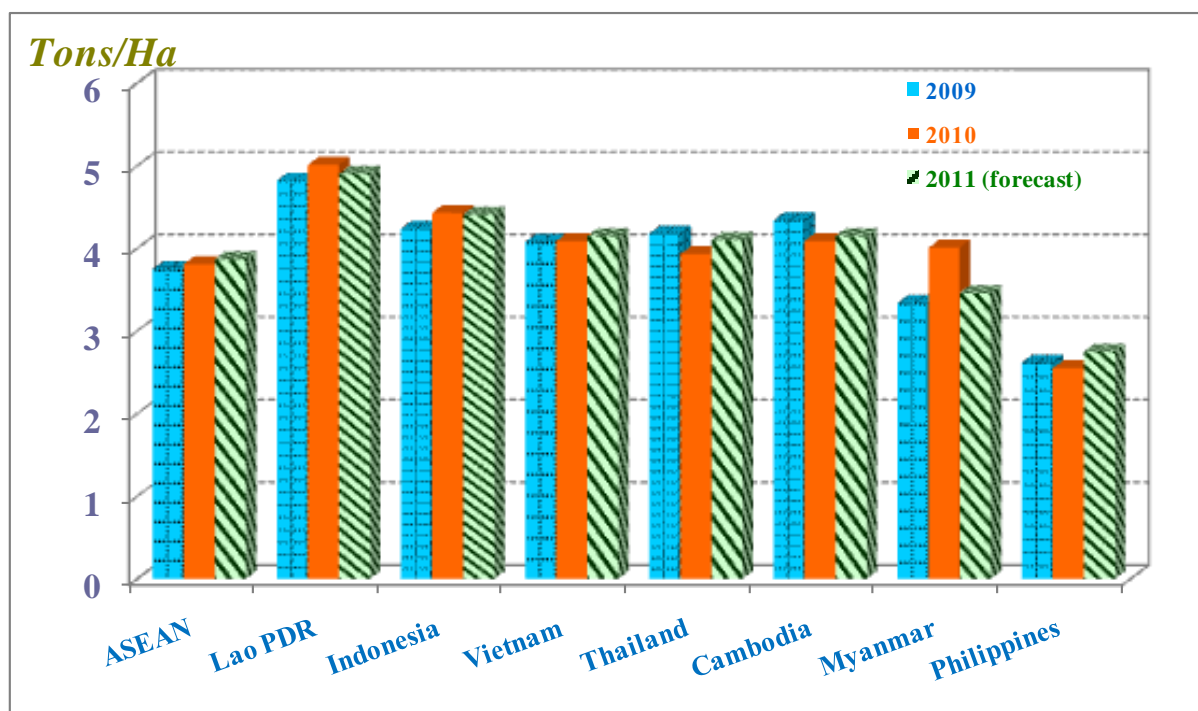
**Figure 5 Maize production of selected countries in ASEAN, 2009-2011**



**Figure 6 Maize planted area of selected countries in ASEAN, 2009-2011**



**Figure 7 Maize harvested area of selected countries in ASEAN, 2009-2011**



**Figure 8 Maize yield of countries in ASEAN, 2009-2011**

## **Sugarcane Situation in ASEAN**

### **Production**

Sugarcane production in ASEAN in 2010 (2009/2010 crop year) was estimated at 132.11 million tons, down 2.33 million tons or 1.73 percent from the previous year. The main reduction came from the Philippines which had a reduction of about 4.75 million tons which is about 20.73 percent of the previous year production (Table 11, Figure 9). However, the reduction of the sugarcane production in the Philippines was compensated, in part, by the increase in production in other countries especially in Thailand. The decrease in production in the Philippines was due to the reduction in both harvested area and yield.

In 2011 (crop year 2010/11), sugarcane production in ASEAN is forecast to increase to 137.25 million tons, up about 5.14 million tons from previous year (Table 11, Figure 9). The expansion of the production in the region is mainly due to the increase in Thailand and Indonesia. However, for the Philippines, the production is expected to reduce further from 18.18 million tons in 2010 to 17.01 million tons in 2011 due to the reduction in yield.

### **Harvested area**

Harvested area of sugarcane in ASEAN in 2010 (crop year 2009/10) was estimated to be 2.26 million hectares which is about the same as previous year. However, in some countries, namely, Lao PDR, Myanmar and the Philippines, the estimated harvested area has decreased. For the rest of the countries in the region, the harvested area has increased. The decrease in harvested area in the Philippines was due to the inadequate water during growing season. (Table 13, Figure 11)

For 2011, the harvested area of sugarcane in the whole ASEAN is forecast to be 2.38 million hectares, up 124,270 hectares from the previous year. The increase is forecast in Cambodia, Lao PDR, Indonesia, Philippines and Thailand. On the other hand, the harvested area of the remaining countries is forecast to decrease. The increase in harvested area in these countries was due to the positive response of the farmers to the increase in sugarcane price. (Table 13, Figure 11)

## Yield

Average sugarcane yield in the ASEAN in 2010 was 58.57 tons per hectare down from 59.60 tons per hectare which is about 1.03 tons or 1.73 percent less than the previous year. The reduction in yield has occurred in Cambodia, Indonesia, the Philippines and Thailand. For other countries, the yield has increased. The reduction in yield in these countries was mainly due to the drought (Table 14, Figure 12).

The forecasted yield in ASEAN for 2011 is 57.68 tons per hectare, down 1.52 percent from 2010. The decrease in yield is forecast in Indonesia, Lao PDR, the Philippines and Vietnam which caused mainly by the drought.

## Damaged area

The estimate damages area for sugarcane in the whole ASEAN in 2010 was 50,535 hectares. The damaged area was reported about 16,045 hectares in Thailand, of which 10,445 hectares were caused by the drought and 5,600 hectares was due to the pests. In Indonesia, the damaged area was 32,056 hectares but did not specify the cause of the damage. (Table 15)

**Table 11 Sugarcane production in ASEAN countries, 2009-2011**

Unit: 1,000 Tons

Country	2009 (2008/09)	2010 (2009/10)	change <i>2010 over 2009</i>		2011 (2010/11)	change <i>2011 over 2010</i>	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>134,433.94</b>	<b>132,107.96</b>	<b>-2,325.98</b>	<b>-1.73</b>	<b>137,251.21</b>	<b>5,143.25</b>	<b>3.89</b>
Brunei	-	-	-	-	-	-	-
Cambodia	350.16	314.11	-36.05	-10.29	334.00	19.89	6.33
Indonesia	18,523.50	18,597.18	73.68	0.40	19,630.02	1,032.84	5.55
Lao PDR	819.74	701.52	-118.22	-14.42	1,452.50	750.98	107.05
Malaysia	-	-	-	-	-	-	-
Myanmar	9,744.22	9,561.98	-182.24	-1.87	9,228.59	-333.39	-3.49
Philippines	22,932.82	18,178.57	-4,754.25	-20.73	17,009.78	-1,168.79	-6.43
Singapore	-	-	-	-	-	-	-
Thailand	66,816.45	68,807.80	1,991.35	2.98	74,070.17	5,262.36	7.65
Vietnam	15,247.06	15,946.80	699.74	4.59	15,526.15	-420.65	-2.64

**Table 12 Sugarcane planted area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>2,298.85</b>	<b>2,305.93</b>	<b>7.08</b>	<b>0.31</b>	<b>2,403.71</b>	<b>97.77</b>	<b>4.24</b>
Brunei	-	-	-	-	-	-	-
Cambodia	13.53	15.62	2.09	15.42	15.90	0.29	1.83
Indonesia <sup>1/</sup>	473.84	478.21	4.37	0.92	475.81	-2.39	-0.50
Lao PDR	18.43	13.28	-5.16	-27.98	35.00	21.73	163.65
Malaysia	-	-	-	-	-	-	-
Myanmar	165.27	160.12	-5.15	-3.12	151.51	-8.61	-5.38
Philippines	404.04	362.83	-41.20	-10.20	381.90	19.07	5.25
Singapore	-	-	-	-	-	-	-
Thailand	963.65	1,009.58	45.94	4.77	1,079.08	69.50	6.88
Vietnam	260.10	266.30	6.20	2.38	264.50	-1.80	-0.68

**Table 13 Sugarcane harvested area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>2,255.68</b>	<b>2,255.40</b>	<b>-0.28</b>	<b>-0.01</b>	<b>2,379.67</b>	<b>124.27</b>	<b>5.51</b>
Brunei	-	-	-	-	-	-	-
Cambodia	13.48	15.62	2.13	15.81	15.90	0.29	1.83
Indonesia	443.83	446.15	2.32	0.52	473.92	27.77	6.23
Lao PDR	18.43	13.28	-5.16	-27.98	30.00	16.73	125.99
Malaysia	-	-	-	-	-	-	-
Myanmar	161.78	157.69	-4.10	-2.53	151.51	-6.17	-3.92
Philippines	404.04	362.83	-41.20	-10.20	381.90	19.07	5.25
Singapore	-	-	-	-	-	-	-
Thailand	954.01	993.54	39.53	4.14	1,061.93	68.40	6.88
Vietnam	260.10	266.30	6.20	2.38	264.50	-1.80	-0.68

Note: 1/ data in 2011 estimated by AFSIS



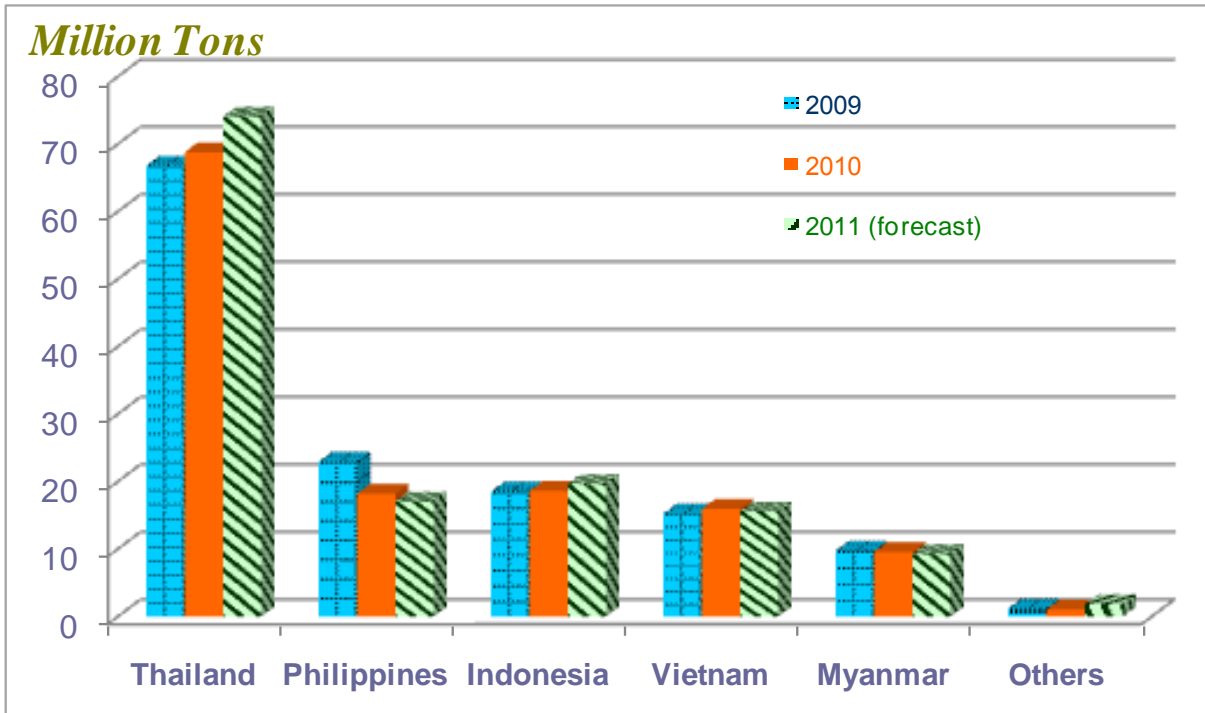
**Table 14 Sugarcane yield in ASEAN countries, 2009-2011**

Unit: Ton/Hectare

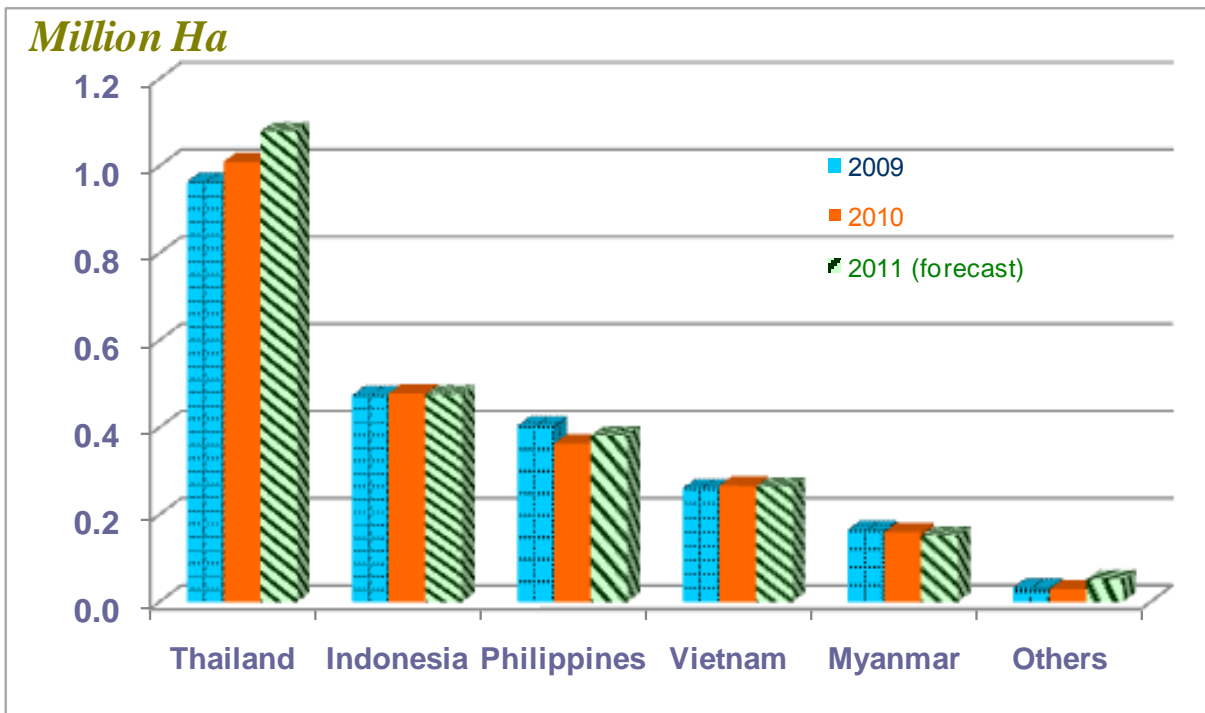
Country	2009 (2008/09)	2010 (2009/10)	change 2009 over 2008		2011 (2010/11)	change 2010 over 2009	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>59.60</b>	<b>58.57</b>	<b>-1.03</b>	<b>-1.73</b>	<b>57.68</b>	<b>-0.89</b>	<b>-1.52</b>
Brunei	-	-	-	-	-	-	-
Cambodia	25.97	20.12	-5.85	-22.53	21.01	0.89	4.42
Indonesia	41.74	41.68	-0.06	-0.14	41.42	-0.26	-0.62
Lao PDR	44.47	52.85	8.38	18.84	48.42	-4.43	-8.38
Malaysia	-	-	-	-	-	-	-
Myanmar	60.23	60.64	0.41	0.68	60.91	0.27	0.45
Philippines	56.76	50.10	-6.66	-11.73	44.54	-5.56	-11.10
Singapore	-	-	-	-	-	-	-
Thailand	70.04	69.26	-0.78	-1.11	69.75	0.49	0.71
Vietnam	58.62	59.88	1.26	2.15	58.70	-1.18	-1.97

**Table 15 Sugarcane damaged area in ASEAN by cause of damage, 2010**

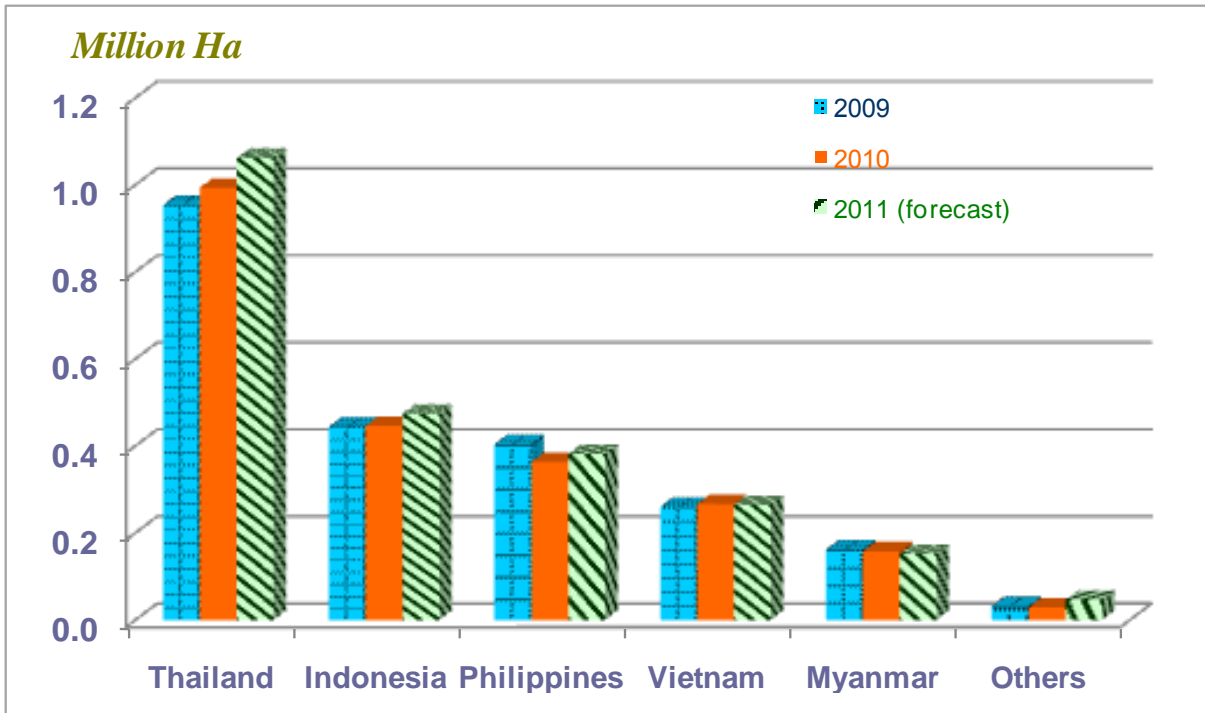
Country	Cause of Damage (Hectares)						Total
	Flood	Drought	Pests	Diseases	Others	Not specify	
<b>ASEAN</b>	-	<b>10,445</b>	<b>5,600</b>	-	<b>2,434</b>	<b>32,056</b>	<b>50,535</b>
Brunei	-	-	-	-	-	-	-
Cambodia	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	32,056	32,056
Lao PDR.	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-
Myanmar	-	-	-	-	2,434	-	2,434
Philippines	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-
Thailand	-	10,445	5,600	-	-	-	16,045
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	-	n.a.



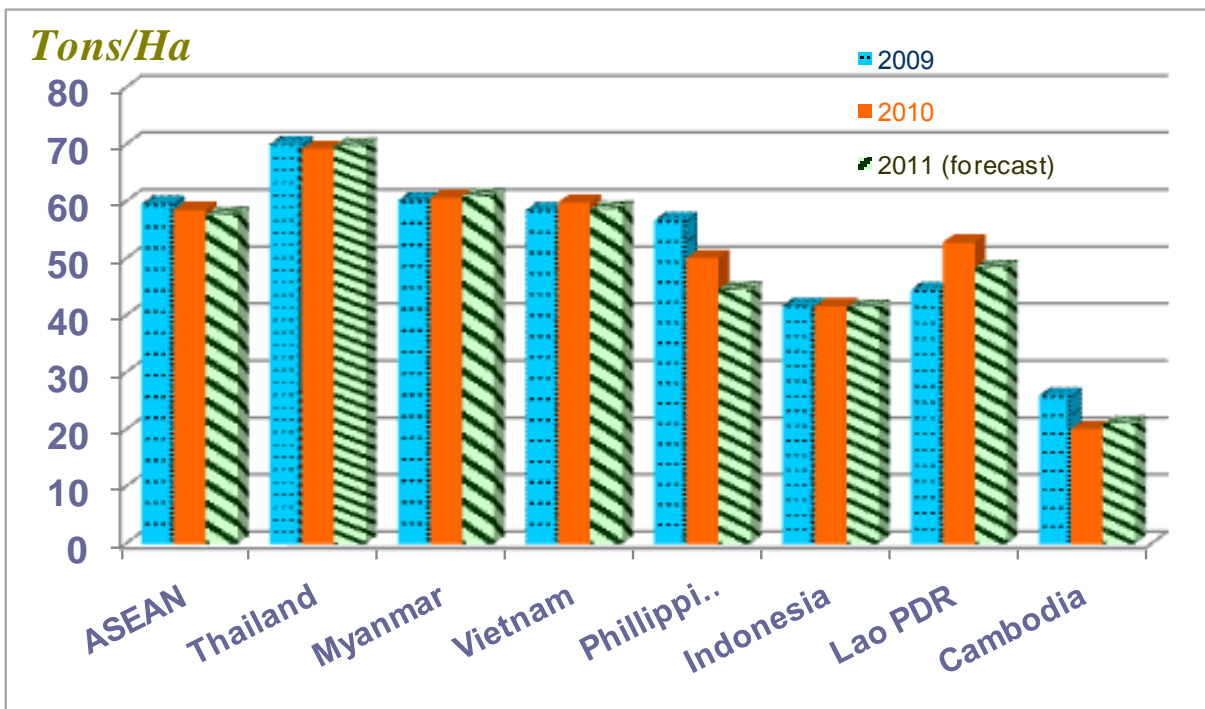
**Figure 9 Sugarcane production of selected countries in ASEAN, 2009-2011**



**Figure 10 Sugarcane planted area of selected countries in ASEAN, 2009-2011**



**Figure 11 Sugarcane harvested area of selected countries in ASEAN, 2009-2011**



**Figure 12 Sugarcane yield of selected countries in ASEAN, 2009-2011**

## **Soybean Situation in ASEAN**

### **Production**

In 2010 (crop year 2009/10), the estimated soybean production in ASEAN was 1.82 million tons, an increase of 0.05 million tons as compared with 1.76 million tons in 2009. When considered country by country, it was found that Indonesia, Thailand and the Philippines, the production has decreased. The reduction in production in Indonesia, the biggest soybeans producing country in ASEAN was due to the reduction in area planted area.

For 2011 (crop year 2010/11), the soybean production is forecast to be 1.88 million tons, up 0.07 ton which is about 3.77 percent from the previous year. All countries in the region are forecast to have an increase in soybean production (Table 16, Figure 13).

### **Harvested area**

Harvested area of soybeans in ASEAN in 2010 was estimated at 1.25 million hectares which is about the same as previous year. However, the decrease in harvested area has occurred in Indonesia, the Philippines and Thailand while the increase has occurred in other countries. For Indonesia and Thailand, the reduction in harvested area were due to the increase in price of the competing crops while in the Philippines, the decrease in area was due to the unfavorable weather in the second crop.

For 2011, the harvested area of soybeans in ASEAN is forecast to be 1.27 million hectares, an increase of about 0.02 million hectares which is about 1.58 percent as compared with 2010. Only Myanmar and Thailand that the harvested areas are forecast to be less than the previous year (Table 18, Figure 15)

### **Yield**

The estimated soybean yield in the ASEAN in 2010 was 1.45 tons per hectare, compared with 1.41 tons per hectare in 2009. All countries in the region were estimated to have an increase in yield for this period.

For 2011, the average yield of soybeans in ASEAN is forecast to be 1.48 tons per hectare, an increase of about 2.16 percent as compared with 2010. Similar to the year 2010, every country is expected to have a better yield for 2011 (Table 19, Figure 16).

## Damaged area

The total damaged area of soybeans in 2010 was estimated at 5,797 hectares. The major damaged area has occurred in Thailand and Cambodia which caused by the drought. The flood was also reported in Indonesia (Table 20).

**Table 16 Soybean production in ASEAN countries, 2009-2011**

Unit: 1,000 Tons

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>1,763.73</b>	<b>1,815.42</b>	51.69	<b>2.93</b>	<b>1,883.81</b>	<b>68.39</b>	<b>3.77</b>
Brunei	-	-	-	-	-	-	-
Cambodia	137.28	165.60	28.32	20.63	192.00	26.40	15.94
Indonesia	974.51	908.11	-66.40	-6.81	934.00	25.89	2.85
Lao PDR	10.60	13.86	3.26	30.77	25.75	11.90	85.85
Malaysia	-	-	-	-	-	-	-
Myanmar	240.05	253.68	13.63	5.68	255.41	1.73	0.68
Philippines	0.84	0.83	-0.01	-1.43	0.84	0.00	1.08
Singapore	-	-	-	-	-	-	-
Thailand	186.85	176.44	-10.41	-5.57	176.66	0.21	0.12
Vietnam	213.60	296.90	83.30	39.00	299.15	2.25	0.76

**Table 17 Soybean planted area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>1,261.56</b>	<b>1,256.53</b>	<b>-5.03</b>	<b>-0.40</b>	<b>1,278.11</b>	<b>21.58</b>	<b>1.72</b>
Brunei	-	-	-	-	-	-	-
Cambodia	96.39	105.07	8.68	9.00	114.00	8.93	8.50
Indonesia	724.74	662.95	-61.79	-8.53	669.80	6.85	1.03
Lao PDR	8.49	8.94	0.46	5.36	16.50	7.56	84.56
Malaysia	-	-	-	-	-	-	-
Myanmar	166.48	170.90	4.42	2.65	168.96	-1.94	-1.14
Philippines	0.63	0.61	-0.02	-2.40	0.61	0.00	0.00
Singapore	-	-	-	-	-	-	-
Thailand	118.74	110.26	-8.48	-7.14	109.23	-1.02	-0.93
Vietnam	146.10	197.80	51.70	35.39	199.00	1.20	0.61

**Table 18 Soybean harvested area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change <i>2009 over 2008</i>		2011 (2010/11)	change <i>2010 over 2009</i>	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>1,253.96</b>	<b>1,250.55</b>	<b>-3.41</b>	<b>-0.27</b>	<b>1,270.26</b>	<b>19.71</b>	<b>1.58</b>
Brunei	-	-	-	-	-	-	-
Cambodia	94.37	103.65	9.28	9.83	113.00	9.35	9.02
Indonesia	722.79	661.71	-61.08	-8.45	666.70	4.99	0.75
Lao PDR	8.49	8.94	0.46	5.36	16.50	7.56	84.56
Malaysia	-	-	-	-	-	-	-
Myanmar	166.48	170.90	4.42	2.65	168.96	-1.94	-1.14
Philippines	0.63	0.61	-0.02	-2.40	0.61	0.00	0.49
Singapore	-	-	-	-	-	-	-
Thailand	115.10	106.94	-8.16	-7.09	105.48	-1.46	-1.36
Vietnam	146.10	197.80	51.70	35.39	199.00	1.20	0.61

Note: Vietnam reported only planted area.

**Table 19 Soybean yield in ASEAN countries, 2009 - 2011**

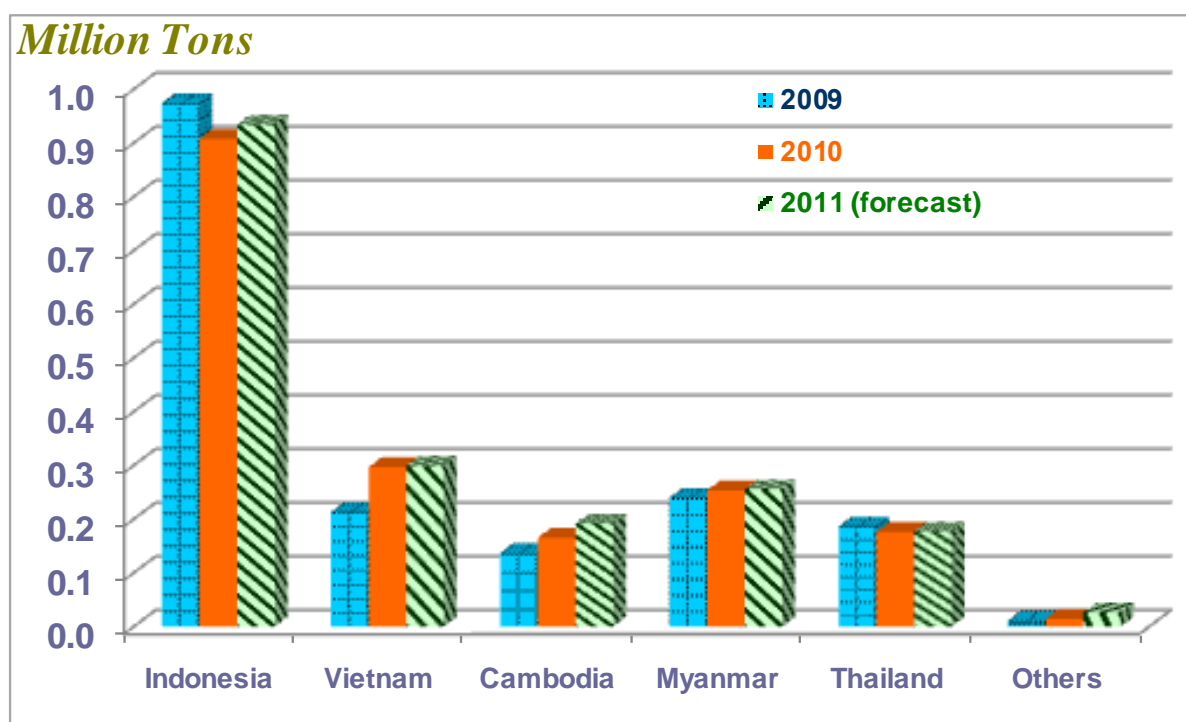
Unit: Ton/Hectare

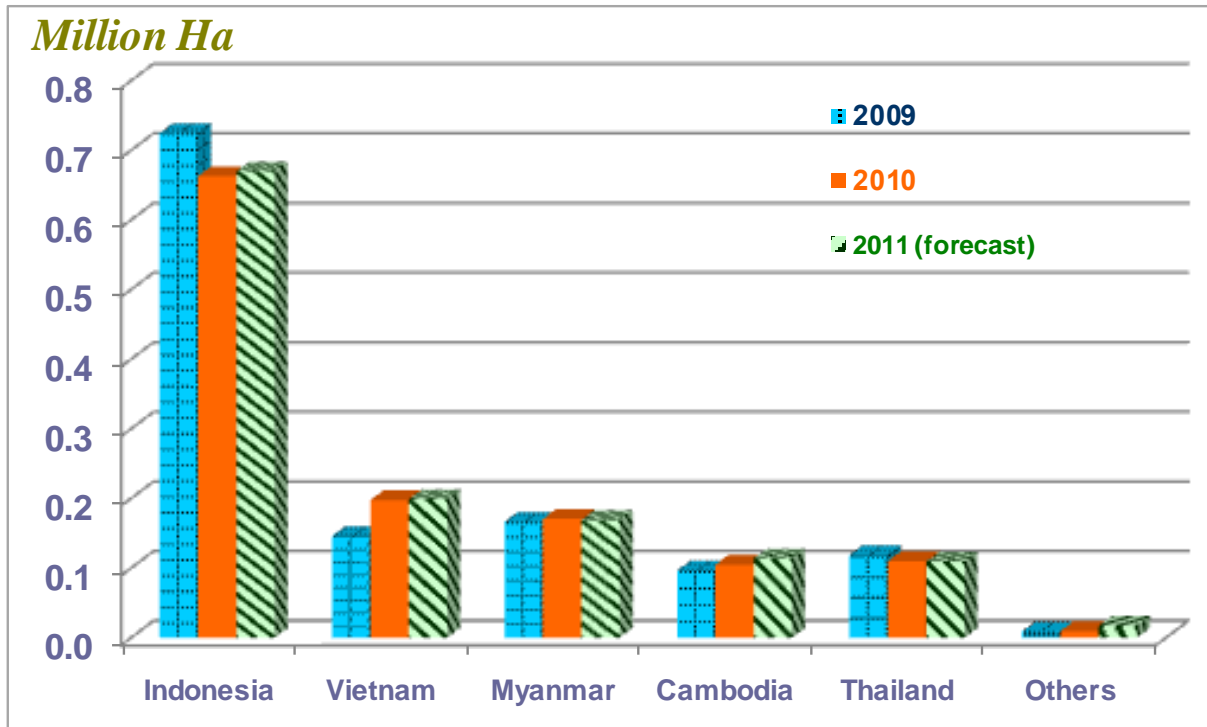
Country	2009 (2008/09)	2010 (2009/10)	change <i>2009 over 2008</i>		2011 (2010/11)	change <i>2010 over 2009</i>	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>1.407</b>	<b>1.452</b>	<b>0.05</b>	<b>3.21</b>	<b>1.483</b>	<b>0.030</b>	<b>2.16</b>
Brunei	-	-	-	-	-	-	-
Cambodia	1.455	1.598	0.14	9.83	1.699	0.100	6.35
Indonesia	1.348	1.372	0.02	1.79	1.401	0.030	2.08
Lao PDR	1.249	1.550	0.30	24.11	1.561	0.010	0.70
Malaysia	-	-	-	-	-	-	-
Myanmar	1.442	1.484	0.04	2.95	1.512	0.030	1.84
Philippines	1.345	1.358	0.01	0.99	1.366	0.010	0.59
Singapore	-	-	-	-	-	-	-
Thailand	1.623	1.650	0.03	1.64	1.675	0.020	1.50
Vietnam	1.462	1.501	0.04	2.67	1.503	0.000	0.15

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

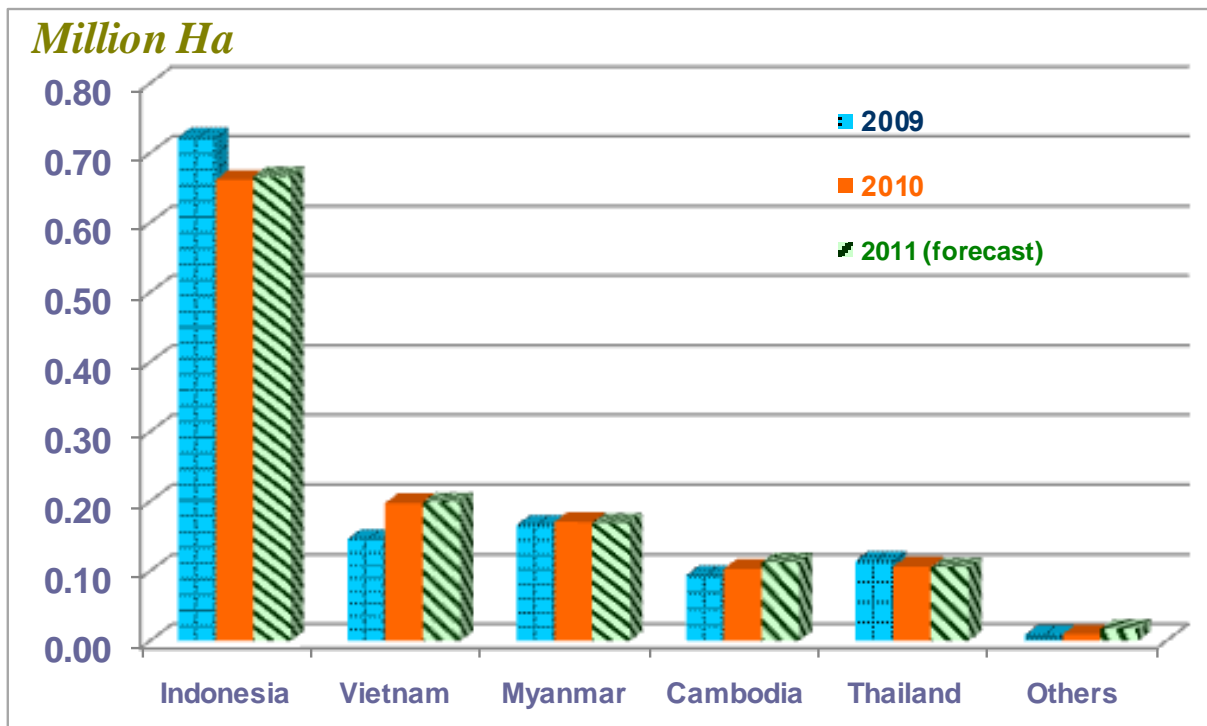
**Table 20 Soybean damaged area in ASEAN by cause of damage, 2010**

Country	Cause of Damage (Hectares)					Total
	Flood	Drought	Pests	Diseases	Others	
<b>ASEAN</b>	<b>1,021</b>	<b>4,744</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>5,797</b>
Brunei	-	-	-	-	-	-
Cambodia	-	1,416	-	-	-	1,416
Indonesia	1,021	-	32	-	-	1,053
Lao PDR	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-
Myanmar	-	-	-	-	-	-
Philippines	-	-	-	-	-	-
Singapore	-	-	-	-	-	-
Thailand	-	3,328	-	-	-	3,328
Vietnam	-	-	-	-	-	-

**Figure 13 Soybean production of selected countries in ASEAN, 2009-2011**

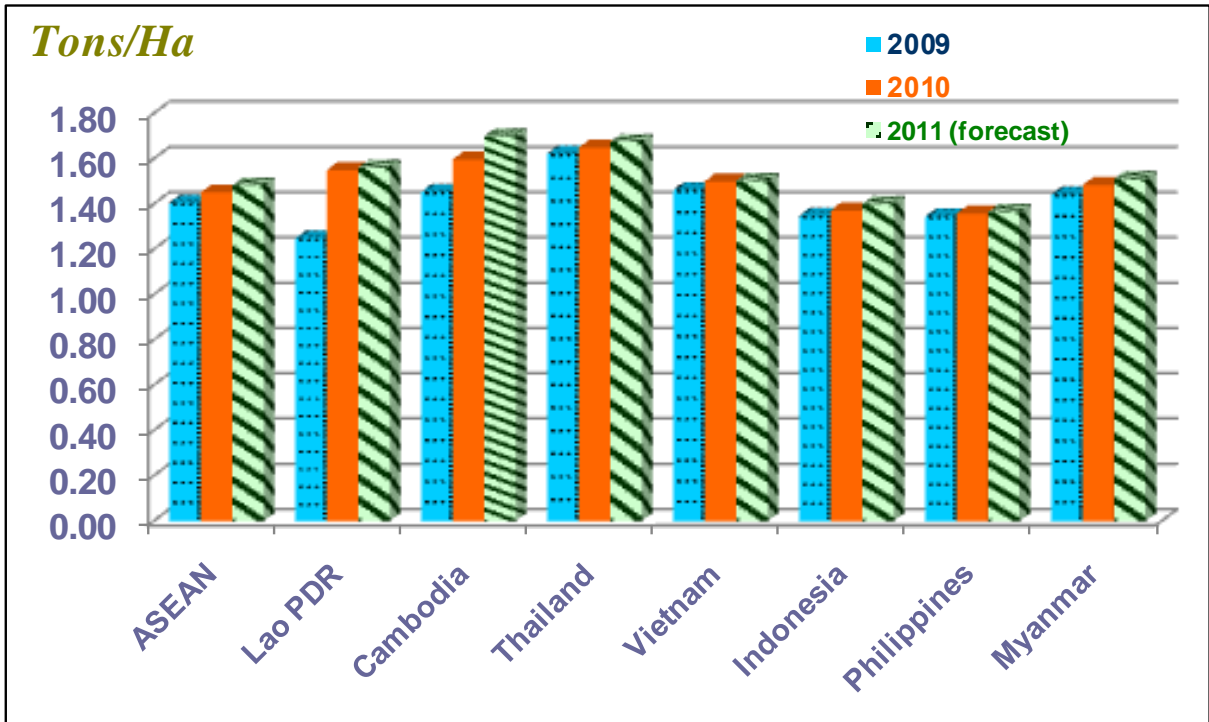


**Figure 14 Soybean planted area of selected countries in ASEAN, 2009-2011**



**Figure 15 Soybean harvested area of selected countries in ASEAN, 2009-2011**





**Figure 16 Soybean yield of selected countries in ASEAN, 2009-2011**

## **Cassava Situation in ASEAN**

### **Production**

Cassava (tapioca) production in ASEAN in 2010 (crop year 2009/10) was estimated at 61.49 million tons, a decrease of 5.29 tons which is about 7.92 percent as compared with 66.78 million tons in 2009. The major reduction in production has occurred in Thailand the biggest cassava producing country in the region, due to the reduction in harvested area. Besides Thailand, Vietnam was also estimated to have a lower production in 2010, compared with 2009 (Table 21, Figure 17)

For 2011, the cassava production in ASEAN is forecast to decrease further, from 61.49 million tons in 2010 to 59.37 million tons in 2011. The reduction in production is expected in Indonesia, Lao PDR, and Thailand. For other countries, the production is expected to be higher (Table 21, Figure 17).

### **Harvested Area**

Harvested Area of cassava in ASEAN in 2010 (crop year 2009/10) was estimated to be 9.44 million hectares, down from 10.39 million hectares which is about 9.14 percent as compared with 2009. The major reduction was mainly arised from the decrease in Thailand. The decrease in harvested area in Thailand was due to many reasons such as the increase in the price of competing crops, unfavorable weather and the damage caused by the pets (mealy bugs) (Table 23, Figure 19).

In 2011, the harvested area of cassava in ASEAN is forecast to be less than in 2010. The reduction in harvested area in the region is expected to occur mainly in Thailand due to the same reasons above.

### **Yield**

The average cassava yield in ASEAN in 2010 was estimated at 6.52 tons per hectare, compared with 6.43 tons per hectare in 2009. The reduction in yield has occurred in Cambodia, Malaysia and Thailand, while other countries the yield has increased (Table 24, Figure 20).

For 2011, the forecast cassava yield is 6.6 tons per hectare, up a little from the previous year. Only Indonesia and Lao PDR are forecast to have a lower yield in 2011 (Table 24, Figure 20).

## Damaged Area

The total damaged area of cassava in ASEAN in 2010 was estimated at 276,048 hectares. Most of the damage arised from the drought which occurred in Thailand. The other cause of damage which also occurred in Thailand was due to the pests (Table 25).

**Table 21 Cassava production in ASEAN countries, 2009-2011**

Unit: 1,000 Tons

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>66,779.72</b>	<b>61,492.09</b>	<b>-5,287.63</b>	<b>-7.92</b>	<b>59,368.65</b>	<b>-2,123.44</b>	<b>-3.45</b>
Brunei	-	-	-	-	-	-	-
Cambodia	3,497.31	3,937.25	439.94	12.58	4,200.00	262.75	6.67
Indonesia	22,039.15	23,908.46	1,869.31	8.48	22,900.21	-1,008.25	-4.22
Lao PDR	152.59	500.51	347.92	228.01	306.00	-194.51	-38.86
Malaysia	68.51	39.58	-28.93	-42.23	41.05	1.47	3.70
Myanmar	333.53	477.68	144.15	43.22	487.58	9.90	2.07
Philippines	2,043.72	2,101.27	57.56	2.82	2,172.00	70.72	3.37
Singapore	-	-	-	-	-	-	-
Thailand	30,088.02	22,005.74	-8,082.28	-26.86	20,658.62	-1,347.12	-6.12
Vietnam	8,556.90	8,521.60	-35.30	-0.41	8,603.20	81.60	0.96

**Table 22 Cassava planted area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change 2010 over 2009		2011 (2010/11)	change 2011 over 2010	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>10,682.44</b>	<b>9,714.87</b>	<b>-967.57</b>	<b>-9.06</b>	<b>9,256.37</b>	<b>-458.50</b>	<b>-4.72</b>
Brunei	-	-	-	-	-	-	-
Cambodia	160.33	190.99	30.67	19.13	195.00	4.01	2.10
Indonesia	1,175.67	1,182.60	6.94	0.59	1,168.19	-14.42	-1.22
Lao PDR	10.38	20.36	9.98	96.19	17.00	-3.36	-16.48
Malaysia	3.08	2.72	-0.36	-11.54	2.44	-0.28	-10.15
Myanmar	24.71	40.98	16.27	65.86	44.98	3.99	9.74
Philippines	215.93	218.22	2.29	1.06	221.29	3.07	1.41
Singapore	-	-	-	-	-	-	-
Thailand	8,583.56	7,562.79	-1,020.77	-11.89	7,107.47	-455.32	-6.02
Vietnam	508.80	496.20	-12.60	-2.48	500.00	3.80	0.77

**Table 23 Cassava harvested area in ASEAN countries, 2009-2011**

Unit: 1,000 Hectares

Country	2009 (2008/09)	2010 (2009/10)	change 2009 over 2008		2011 (2010/11)	change 2010 over 2009	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>10,387.79</b>	<b>9,438.52</b>	<b>-949.27</b>	<b>-9.14</b>	<b>8,994.37</b>	<b>-444.15</b>	<b>-4.71</b>
Brunei	-	-	-	-	-	-	-
Cambodia	157.08	181.26	24.18	15.39	187.00	5.74	3.17
Indonesia	1,175.67	1,182.60	6.94	0.59	1,168.19	-14.42	-1.22
Lao PDR	10.38	20.36	9.98	96.19	17.00	-3.36	-16.48
Malaysia	3.08	2.42	-0.66	-21.30	2.44	0.02	0.99
Myanmar	24.71	34.63	9.92	40.13	35.28	0.66	1.89
Philippines	215.93	218.22	2.29	1.06	221.29	3.07	1.41
Singapore	-	-	-	-	-	-	-
Thailand	8,292.15	7,302.84	-989.31	-11.93	6,863.17	-439.67	-6.02
Vietnam	508.80	496.20	-12.60	-2.48	500.00	3.80	0.77

**Table 24 Cassava yield in ASEAN countries, 2009-2011**

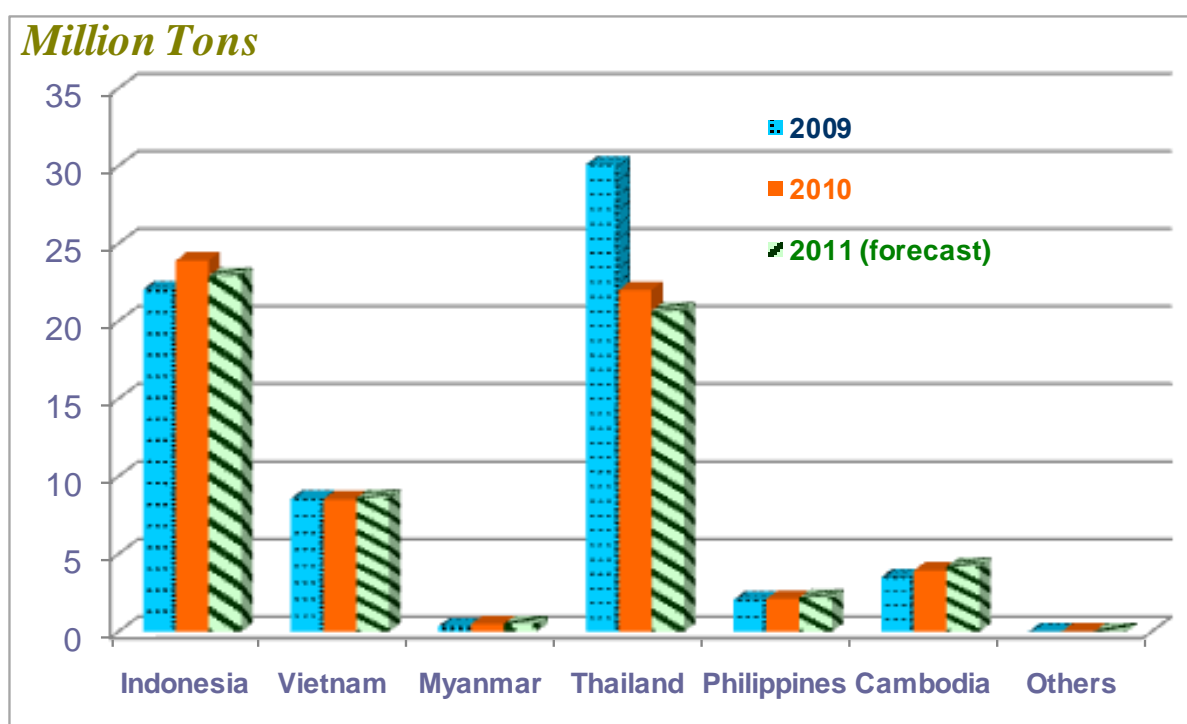
Unit: Ton/Hectare

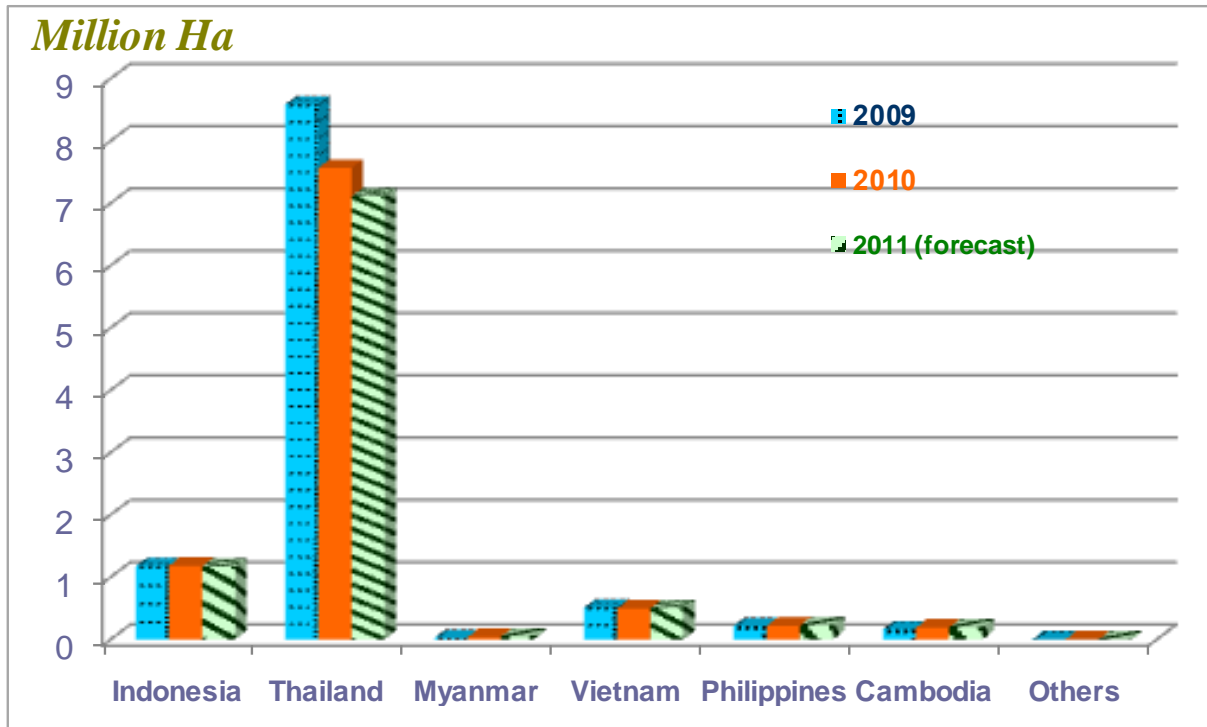
Country	2009 (2008/09)	2010 (2009/10)	change 2009 over 2008		2011 (2010/11)	change 2010 over 2009	
			Quantities	(%)		Quantities	(%)
<b>ASEAN</b>	<b>6.43</b>	<b>6.52</b>	<b>0.09</b>	<b>1.40</b>	<b>6.60</b>	<b>0.08</b>	<b>1.23</b>
Brunei	-	-	-	-	-	-	-
Cambodia	22.26	21.72	-0.54	-2.43	22.46	0.74	3.41
Indonesia	18.75	20.22	1.47	7.84	19.60	-0.62	-3.07
Lao PDR	14.71	24.59	9.88	67.17	18.00	-6.59	-26.80
Malaysia	22.28	16.36	-5.92	-26.57	16.79	0.43	2.63
Myanmar	13.50	13.80	0.30	2.22	13.82	0.02	0.14
Philippines	9.46	9.63	0.17	1.80	9.82	0.19	1.97
Singapore	-	-	-	-	-	-	-
Thailand	3.63	3.01	-0.62	-17.08	3.01	0.00	0.00
Vietnam	16.82	17.17	0.35	2.08	17.21	0.04	0.23

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

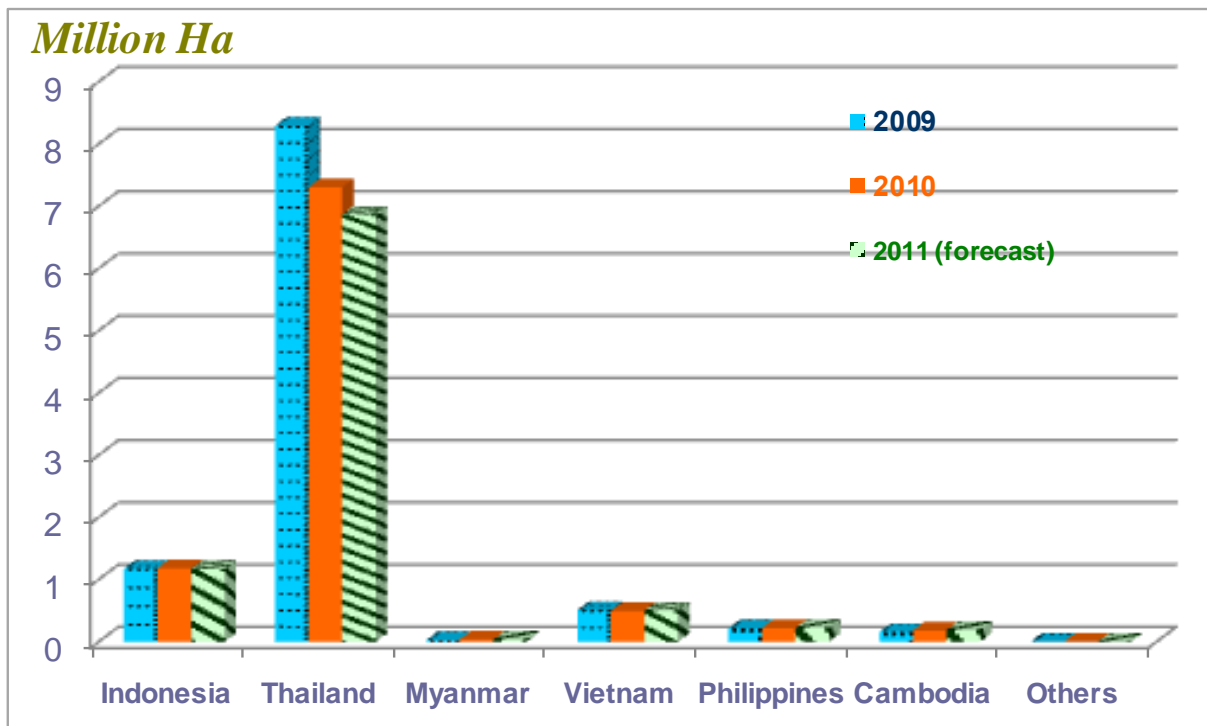
**Table 25 Cassava damaged area in ASEAN by cause of damage, 2010**

Country	Cause of Damage (Hectares)					
	Flood	Drought	Pests	Diseases	Others	Total
<b>ASEAN</b>	<b>9,736</b>	<b>211,953</b>	<b>48,000</b>	<b>0</b>	<b>6,359</b>	<b>276,048</b>
Brunei	-	-	-	-	-	-
Cambodia	9,736	-	-	-	-	9,736
Indonesia	0	0	0	0	0	0
Lao PDR	-	-	-	-	0	0
Malaysia	0	0	0	0	0	0
Myanmar	0	0	0	0	6,359	6,359
Philippines	0	0	0	0	0	0
Singapore	-	-	-	-	-	-
Thailand	0	211,953	48,000	0	0	259,953
Vietnam	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

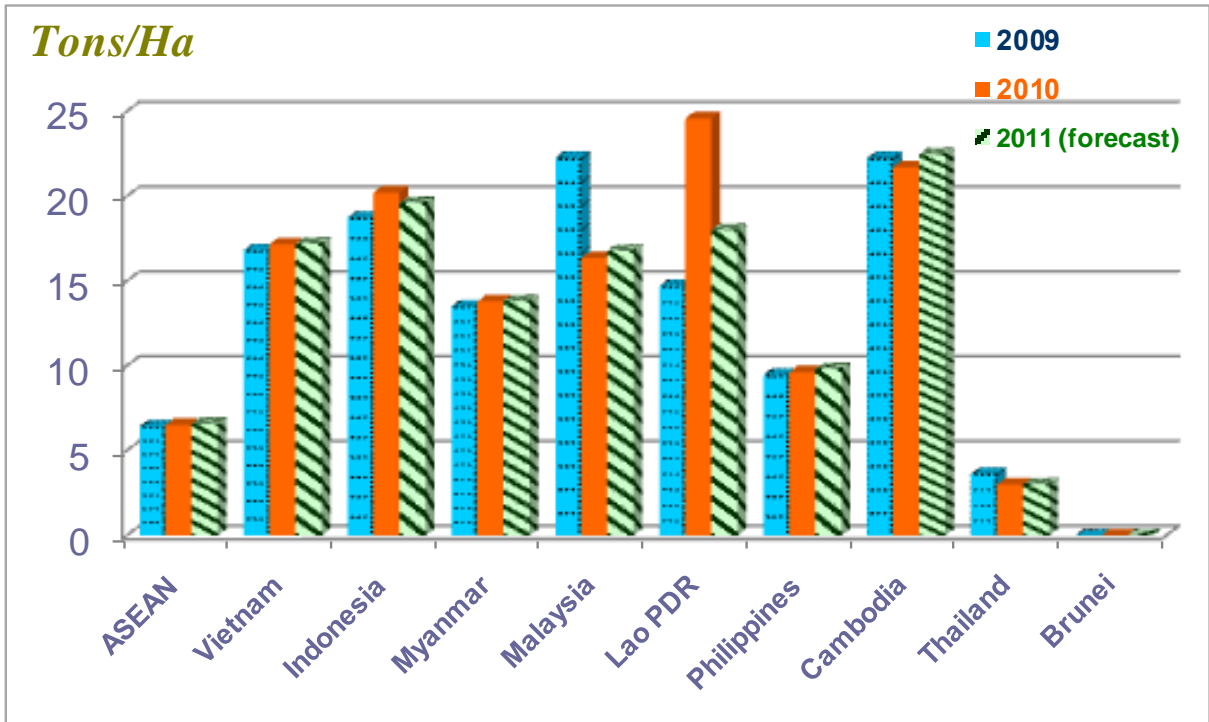
**Figure 17 Cassava production of selected countries in ASEAN, 2009-2011**



**Figure 18 Cassava planted area of selected countries in ASEAN, 2009-2011**



**Figure 19 Cassava harvested area of selected countries in ASEAN, 2009-2011**



**Figure 20 Cassava yield of countries in ASEAN, 2009-2011**