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AGRICULTURAL STRUCTURE AND RESOURCES



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FOREWORD

The Agricultural Indicators System (AIS) is one of the statistical frameworks maintained by the Bureau of Agricultural Statistics (BAS). It has twelve (12) modules and these are being updated and released annually. This is the first module entitled Agricultural Structure and Resources. It presents indicators on irrigation development in the country and inventory of livestock and poultry. The reference years are 2006 to 2010.

The AIS hopes to cover more agricultural development indicators to support the information needs of BAS clientele and stakeholders. Hence, the readers are encouraged to give their comments and suggestions on the improvement of the AIS, in general, and the report, in particular.

The BAS would like to acknowledge the National Irrigation Administration (NIA) for providing the basic data on irrigation.



ROMEO S. RECIDÉ
Director

Quezon City, Philippines
May 2011

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TABLE OF CONTENTS

FOREWORD	i
LIST OF TABLES	iii
AGRICULTURAL STRUCTURE and RESOURCES	
Table 1	Total area irrigated by region, Philippines, 2006-2010 6
Table 2	Proportion of area irrigated to estimated irrigable area by region, Philippines, 2006-2010 7
Table 3	Average percentage share of the total area irrigated by type of irrigation system and by region, Philippines, 2006-2010 8
Table 4a	Growth rates in number of carabao in all farms by region, Philippines, 2006-2010 9
Table 4b	Percentage distribution of number of carabao in all farms by region, Philippines, 2006-2010 10
Table 5a	Growth rates in number of cattle in all farms by region, Philippines, 2006-2010 11
Table 5b	Percentage distribution of number of cattle in all farms by region, Philippines, 2006-2010 12
Table 6a	Growth rates in number of hog in all farms by region, Philippines, 2006-2010 13
Table 6b	Percentage distribution of number of hog in all farms by region, Philippines, 2006-2010 14
Table 7a	Growth rates in number of goat in all farms by region, Philippines, 2006-2010 15
Table 7b	Percentage distribution of number of goat in all farms by region, Philippines, 2006-2010 16
Table 8a	Growth rates in number of chicken in all farms by region, Philippines, 2006-2010 17
Table 8b	Percentage distribution of number of chicken in all farms by region, Philippines, 2006-2010 18
Table 9a	Growth rates in number of duck in all farms by region, Philippines, 2006-2010 19
Table 9b	Percentage distribution of number of duck in all farms by region, Philippines, 2006-2010 20



AGRICULTURAL
STRUCTURE and
RESOURCES

Irrigation Development and Type of Irrigation System

Information on irrigation development provides a measure of the extent of development in enhancing the use agricultural lands through irrigation. Indicators are in terms of rate of growth of irrigated land over the years and the types of irrigation system used.

In 2010, irrigated agricultural lands in the country totaled 1.54 million hectares. Coverage increased by an annual average of 1.98 percent over the five-year period (2006 to 2010). Davao Region reported the biggest growth in irrigated areas at 9.43 percent. This was followed by Central Visayas, Northern Mindanao and SOCCSKSARGEN with an average expansion of around 5.0 percent each. On the contrary, less than 1.0 percent yearly increase was noted each in CAR, Ilocos Region, Southern Tagalog, Bicol Region, Western and Eastern Visayas, Zamboanga Peninsula and ARMM (Table 1).



Nationwide, irrigation development was slow in 2010. The proportion of irrigated lands to potential irrigable areas at 49.34 percent inched up by only 0.08 percentage point from the 2009 record of 49.26 percent. Irrigation development in 2010 increased in all regions except in Western Visayas and Caraga. The highest irrigation development was still reported by Central Luzon at 81.30 percent, Central Visayas at 69.43 percent and Ilocos Region at 65.52 percent. In contrast, ARMM had 15.23 percent of the potential irrigable areas covered with irrigation (Table 2).

On the average, almost half of the total irrigated farmlands were serviced by national irrigation system. About 37.18 percent sourced irrigation water from communal irrigation system and the rest came from private irrigation system. By region, the major users of national irrigation system were found in Cagayan Valley, Central Luzon, Western Visayas, SOCCSKSARGEN and ARMM covering on the average around 65 to 69 percent of the regions' irrigated farm areas. The communal

type of irrigation system provided water to 68 percent of the irrigated areas in Central Visayas. About one fourth of the irrigated areas in CAR, Bicol Region and Davao Region used the private irrigation system (Table 3).

Inventory of Livestock and Poultry

Livestock and poultry population forms part of agricultural holdings of the country. The performance of the livestock and poultry sector can be monitored through the distribution of the various types of animals across regions.

Carabao



In 2010, total carabao inventory decreased by 1.52 percent. From 2006 to 2010, it was declining by an average of 0.67 percent per year. Over these years, majority of the regions exhibited declining numbers of carabaos. However, yearly reduction was reported by CAR, Cagayan Valley, MIMAROPA, Zamboanga

Peninsula and Caraga. MIMAROPA posted the biggest negative growth rate of 7.87 percent per year. Increasing carabao inventory was noted in CALABARZON and Central Visayas with average yearly gains of 4.44 percent and 0.88 percent, respectively (Table 4a).

Western Visayas, Eastern Visayas and Cagayan Valley remained the top contributors to the national carabao inventory. Their shares went up to around 10 percent in 2010. The least and declining shares of less than 3.0 percent were recorded in CAR and Caraga (Table 4b).

Cattle

The national cattle population went up from 2006 to 2009 but dropped in 2010 by 0.60 percent. It posted an average annual gain of 0.51 percent. Continuous increases in the number of cattle over the five reference years were noted in Central Luzon, CALABARZON, Western Visayas, SOCCSKSARGEN and Caraga. Growth was highest in Western

Visayas and Caraga at around 7.0 percent each. Downtrend was sustained in MIMAROPA, Bicol Region and Eastern Visayas. The big decline came from Eastern Visayas averaging 10.98 percent. Other regions showed fluctuating trend in the number of cattle (Table 5a).



Ilocos Region was the leading source of cattle but its share in the national cattle inventory slid to 12.33 percent in 2010. Northern Mindanao and Central Visayas contributed increased shares of about 11 percent each. Eastern Visayas and Caraga reported the lowest contribution of less than one (1) percent (Table 5b).

Hog



The country's hog inventory declined by 1.46 percent in 2010. Annually, it was going up by 0.68 percent. Year-on-year increases in hog population were reported only in Western Visayas averaging 4.88 percent. Downtrend continued in Cagayan Valley and Caraga posting negative growth rates averaging 10.41 percent and 4.33 percent, respectively. Fluctuating trend over the five-year period was noted in the rest of the regions. However, gains were registered in most of these regions (Table 6a).

Western Visayas, CALABARZON and Central Luzon continued to report the biggest hog population. In 2010, the share of Western Visayas in the national hog inventory went up to 11.56 percent while those of CALABARZON and Central Luzon dropped to 13.13 percent and 10.66 percent, respectively. CAR and ARMM posted the smallest and declining shares corresponding to 1.48 percent and 1.60 percent (Table 6b).

Goat

The total number of goats continuously increased from 2006 to 2009 but this was followed by a decrease of 1.05 percent in 2010. On the

average, inventory grew by 2.89 percent per year. Increasing goat population over the five (5) reference years was recorded in Central Luzon, CALABARZON, MIMAROPA, Bicol Region, Central Visayas and ARMM. The biggest average growth was noted in CALABARZON at 11.76 percent. In Caraga, goat population had been declining by an average of 9.80 percent per year (Table 7a).

Western and Central Visayas were the biggest contributors where shares in the national goat inventory rose to 14.47 percent and 13.19 percent, respectively in 2010. This was followed by Ilocos Region with share going down to 11.83 percent. In contrast, less than 2.0 percent share was contributed each by CAR and Caraga (Table 7b).

Chicken

Over the period 2006 to 2010, total chicken population was expanding yearly at slower rate. On the average, it grew by 4.44 percent. In 2010, population was placed at 0.20 percent. Uptrend was observed in CALABARZON, Northern Mindanao and ARMM where annual average growth rates ranged from 6.78 to 10.42 percent. Fluctuating trend was observed in other regions, but, mostly there were positive growth rates (Table 8a).



The most number of chicken was recorded in Central Luzon and CALABARZON. In 2010, the share of Central Luzon in the national chicken population decreased to 18.45 percent while it increased to 16.25 percent in CALABARZON. Around one percent each was recorded in CAR, ARMM and Caraga (Table 8b).

Duck

After the sustained increase in 2008 to 2009, total duck inventory in 2010 dropped by 2.92 percent. Hence, an average reduction of 1.92 percent was estimated over the years 2006 to 2010. At the regional level, inventory was going up in Ilocos Region and MIMAROPA by averages of 4.02 percent and 12.63 percent, respectively. Meanwhile,

the inventory continuously went down in Davao Region by 13.99 percent and in Caraga by 10.62 percent (Table 9a).



Central Luzon remained as the biggest source of duck in the country. Its share was up to 24.57 percent in 2010. Other major sources were Cagayan Valley, Western Visayas and SOCCSKSARGEN contributing 11.70 to 15.57 percent. CAR, MIMAROPA, Central Visayas and Caraga had less than 2.0 percent shares each. (Table 9b).

Table 1
Total area irrigated by region, Philippines, 2006-2010
(in hectares)

REGION	2006	2007	2008	2009	2010	AVERAGE GROWTH RATE (%) 2006-2010
Philippines	1,427,924	1,434,597	1,519,942	1,539,937	1,542,668	1.98
CAR	80,165	80,440	80,440	80,885	81,020	0.27
Ilocos Region	179,384	179,737	179,832	181,550	181,616	0.31
Cagayan Valley	198,901	199,439	202,439	207,400	207,857	1.11
Central Luzon	269,136	269,233	298,457	300,874	301,680	2.99
Southern Tagalog	123,235	123,487	124,223	124,241	124,354	0.23
Bicol Region	118,975	119,972	119,972	120,064	120,611	0.34
Western Visayas	77,806	77,978	77,978	79,062	78,148	0.11
Central Visayas	28,928	29,123	33,100	35,108	35,230	5.19
Eastern Visayas	53,016	53,109	53,157	53,318	53,768	0.35
Zamboanga Peninsula	36,843	36,843	36,843	36,873	36,894	0.03
Northern Mindanao	52,463	53,272	64,322	64,747	65,236	5.93
Davao Region	54,327	55,743	74,745	75,525	75,525	9.43
SOCCSKSARGEN	84,062	84,062	100,088	101,988	102,503	5.37
Caraga	47,414	48,890	50,959	54,462	54,354	3.51
ARMM	23,269	23,269	23,387	23,840	23,870	0.64

Table 2
 Proportion of area irrigated to estimated irrigable area by region,
 Philippines, 2006-2010
 (in percent)

REGION	2006	2007	2008	2009	2010
Philippines	45.67	45.89	48.62	49.26	49.34
CAR	80.45	80.72	80.72	81.17	81.30
Ilocos Region	64.72	64.84	64.88	65.50	65.52
Cagayan Valley	42.08	42.20	42.83	43.88	43.98
Central Luzon	55.81	53.97	59.83	60.31	60.47
Southern Tagalog	46.75	50.00	50.30	50.31	50.35
Bicol Region	49.64	50.06	50.06	50.10	50.33
Western Visayas	39.45	39.53	39.53	40.08	39.62
Central Visayas	57.01	57.40	65.23	69.19	69.43
Eastern Visayas	62.83	62.94	63.00	63.19	63.72
Zamboanga Peninsula	48.16	48.43	48.43	48.47	48.49
Northern Mindanao	48.51	44.14	53.29	53.64	54.05
Davao Region	21.73	37.26	49.96	50.48	50.48
SOCCKSARGEN	40.85	28.63	34.09	34.74	34.91
Caraga	29.21	30.12	31.40	33.56	33.49
ARMM	14.89	14.85	14.92	15.21	15.23

Table 3
Average percentage share of the total area irrigated by type of irrigation system and by region, Philippines, 2006-2010

REGION	NATIONAL IRRIGATION SYSTEM	COMMUNAL IRRIGATION SYSTEM	PRIVATE IRRIGATION SYSTEM
Philippines	49.45	37.18	13.37
CAR	28.07	43.50	28.43
Ilocos Region	31.35	53.50	15.15
Cagayan Valley	68.12	20.51	11.37
Central Luzon	65.63	27.21	7.16
Southern Tagalog	42.65	42.85	14.50
Bicol Region	17.44	57.97	24.59
Western Visayas	67.03	25.94	7.03
Central Visayas	23.59	68.49	7.92
Eastern Visayas	35.82	55.80	8.38
Zamboanga Peninsula	41.13	53.51	5.35
Northern Mindanao	44.20	39.11	16.69
Davao Region	50.25	23.31	26.43
SOCCSKSARGEN	64.70	23.69	11.61
Caraga	52.50	41.00	6.49
ARMM	68.96	30.09	0.96

Table 4a
 Growth rates in number of carabao in all farms by region, Philippines, 2006-2010
 (Growth rates in percent)

REGION	2010 LEVEL ('000 HEAD)	06-07	07-08	08-09	09-10	AVERAGE GROWTH RATE % 2006-2010
Philippines	3,270	0.68	-1.33	-0.53	-1.52	-0.67
CAR	83	-3.80	-6.79	-0.69	-3.87	-3.79
Ilocos Region	185	-0.33	1.45	0.54	-10.58	-2.23
Cagayan Valley	325	-1.10	-1.91	-1.56	-0.64	-1.30
Central Luzon	207	-1.88	0.77	-0.17	0.54	-0.18
CALABARZON	171	4.08	8.14	5.45	0.12	4.44
MIMAROPA	135	-6.07	-11.38	-6.75	-7.29	-7.87
Bicol Region	256	2.87	-6.05	0.70	2.98	0.12
Western Visayas	328	-1.24	0.61	-0.31	0.67	-0.07
Central Visayas	170	1.51	1.27	0.53	0.23	0.88
Eastern Visayas	338	12.15	3.48	-0.62	2.03	4.26
Zamboanga Peninsula	173	-3.16	-3.57	-4.21	-4.92	-3.97
Northern Mindanao	134	-6.70	0.15	2.06	-8.29	-3.20
Davao Region	179	2.18	-4.54	-2.81	4.12	-0.26
SOCCKSARGEN	274	-0.02	-6.88	0.84	-2.62	-2.17
Caraga	94	-0.45	-4.83	-5.26	-4.23	-3.69
ARMM	219	6.77	6.19	1.22	-2.27	2.98

Table 4b

Percentage distribution of number of carabao in all farms by region, Philippines, 2006-2010

REGION	2006	2007	2008	2009	2010
Philippines	100.00	100.00	100.00	100.00	100.00
CAR	2.90	2.77	2.61	2.61	2.55
Ilocos Region	6.07	6.00	6.17	6.24	5.67
Cagayan Valley	10.20	10.02	9.96	9.85	9.94
Central Luzon	6.20	6.04	6.17	6.20	6.32
CALABARZON	4.27	4.42	4.84	5.13	5.22
MIMAROPA	5.59	5.21	4.68	4.39	4.13
Bicol Region	7.61	7.78	7.40	7.50	7.84
Western Visayas	9.78	9.59	9.78	9.80	10.02
Central Visayas	4.89	4.93	5.06	5.11	5.20
Eastern Visayas	8.55	9.52	9.98	9.97	10.33
Zamboanga Peninsula	6.05	5.82	5.69	5.48	5.29
Northern Mindanao	4.55	4.22	4.28	4.39	4.09
Davao Region	5.38	5.46	5.28	5.16	5.46
SOCCSKSARGEN	8.93	8.87	8.37	8.48	8.39
Caraga	3.24	3.20	3.09	2.94	2.86
ARMM	5.80	6.15	6.62	6.74	6.69

Table 5a
 Growth rates in number of cattle in all farms by region, Philippines, 2006-2010
 (Growth rates in percent)

REGION	2010 LEVEL ('000 HEAD)	06-07	07-08	08-09	09-10	AVERAGE GROWTH RATE % 2006-2010
Philippines	2,571	1.83	0.03	0.78	-0.60	0.51
CAR	53	-4.83	-3.31	-3.61	0.03	-2.93
Ilocos Region	317	-0.71	-1.32	0.07	-8.87	-2.71
Cagayan Valley	198	3.71	-0.43	0.81	2.67	1.69
Central Luzon	173	4.52	0.12	0.58	0.52	1.44
CALABARZON	255	1.77	3.85	1.70	0.20	1.88
MIMAROPA	87	-4.39	-3.76	-7.75	-7.77	-5.92
Bicol Region	69	-5.50	-8.85	-4.24	-0.64	-4.81
Western Visayas	225	15.74	2.89	4.30	6.00	7.23
Central Visayas	275	2.02	1.45	-0.58	2.19	1.27
Eastern Visayas	15	-5.48	-12.13	-12.55	-13.76	-10.98
Zamboanga Peninsula	156	-1.12	-8.39	3.63	-3.09	-2.24
Northern Mindanao	281	-2.72	1.54	3.71	1.32	0.96
Davao Region	140	3.29	2.52	-0.93	1.42	1.57
SOCCKSARGEN	203	6.56	3.13	0.51	2.04	3.06
Caraga	18	3.89	8.02	5.39	9.53	6.71
ARMM	104	4.40	2.26	4.83	-5.37	1.53

Table 5b

Percentage distribution of number of cattle in all farms by region,
Philippines, 2006-2010

REGION	2006	2007	2008	2009	2010
Philippines	100.00	100.00	100.00	100.00	100.00
CAR	2.39	2.24	2.16	2.07	2.08
Ilocos Region	14.08	13.73	13.55	13.45	12.33
Cagayan Valley	7.33	7.47	7.44	7.44	7.68
Central Luzon	6.49	6.67	6.67	6.66	6.73
CALABARZON	9.41	9.40	9.76	9.85	9.93
MIMAROPA	4.42	4.15	3.99	3.65	3.39
Bicol Region	3.33	3.09	2.82	2.68	2.67
Western Visayas	6.79	7.72	7.94	8.22	8.77
Central Visayas	10.39	10.41	10.55	10.41	10.70
Eastern Visayas	0.97	0.90	0.79	0.69	0.60
Zamboanga Peninsula	6.81	6.61	6.05	6.22	6.07
Northern Mindanao	10.76	10.28	10.44	10.74	10.95
Davao Region	5.23	5.30	5.43	5.34	5.45
SOCCKSARGEN	7.15	7.48	7.72	7.70	7.90
Caraga	0.55	0.57	0.61	0.64	0.70
ARMM	3.89	3.99	4.08	4.24	4.04

Table 6a
 Growth rates in number of hog in all farms by region, Philippines, 2006-2010
 (Growth rates in percent)

REGION	2010 LEVEL ('000 HEAD)	06-07	07-08	08-09	09-10	AVERAGE GROWTH RATE % 2006-2010
Philippines	13,398	3.16	1.80	-0.76	-1.46	0.68
CAR	198	-0.07	-16.55	1.73	-5.40	-5.07
Ilocos Region	520	0.43	0.52	4.13	-3.67	0.35
Cagayan Valley	479	-12.21	-18.01	-8.15	-3.25	-10.41
Central Luzon	1,429	8.33	-3.16	-9.49	-16.64	-5.24
CALABARZON	1,760	2.50	7.10	3.04	-4.83	1.95
MIMAROPA	504	8.28	9.32	-0.45	7.47	6.16
Bicol Region	1,051	-1.29	-4.84	10.78	22.21	6.71
Western Visayas	1,549	7.41	7.34	1.52	3.25	4.88
Central Visayas	973	7.49	-3.31	-0.57	0.77	1.10
Eastern Visayas	978	0.45	0.51	4.09	-4.96	0.02
Zamboanga Peninsula	807	-0.95	2.14	-0.97	0.66	0.22
Northern Mindanao	846	-1.87	-3.32	4.50	1.39	0.18
Davao Region	867	5.84	-1.09	-5.06	-2.58	-0.72
SOCCSKSARGEN	882	3.00	26.00	-1.13	5.06	8.23
Caraga	341	-1.09	-1.51	-8.54	-6.19	-4.33
ARMM	214	96.16	77.84	-13.32	-9.29	37.85

Table 6b

Percentage distribution of number of hog in all farms by region,
Philippines, 2006-2010

REGION	2006	2007	2008	2009	2010
Philippines	100.00	100.00	100.00	100.00	100.00
CAR	1.89	1.84	1.50	1.54	1.48
Ilocos Region	3.93	3.83	3.78	3.97	3.88
Cagayan Valley	5.74	4.88	3.93	3.64	3.58
Central Luzon	13.84	14.53	13.82	12.61	10.66
CALABARZON	12.53	12.45	13.10	13.60	13.13
MIMAROPA	3.05	3.20	3.44	3.45	3.77
Bicol Region	6.33	6.06	5.66	6.32	7.84
Western Visayas	9.82	10.23	10.78	11.03	11.56
Central Visayas	7.16	7.46	7.09	7.10	7.26
Eastern Visayas	7.51	7.31	7.22	7.57	7.30
Zamboanga Peninsula	6.13	5.89	5.91	5.89	6.02
Northern Mindanao	6.45	6.13	5.82	6.13	6.31
Davao Region	6.87	7.04	6.84	6.55	6.47
SOCCSKSARGEN	5.01	5.01	6.20	6.17	6.58
Caraga	3.13	3.00	2.90	2.68	2.55
ARMM	0.60	1.14	1.99	1.74	1.60

Table 7a
Growth rates in number of goat in all farms by region, Philippines, 2006-2010
(Growth rates in percent)

REGION	2010 LEVEL ('000 HEAD)	06-07	07-08	08-09	09-10	AVERAGE GROWTH RATE % 2006-2010
Philippines	4,178	8.37	3.10	1.15	-1.05	2.89
CAR	65	-3.62	-0.72	2.46	3.49	0.40
Ilocos Region	494	3.44	6.05	-2.10	-6.39	0.25
Cagayan Valley	130	4.22	-18.59	3.09	-5.07	-4.09
Central Luzon	350	3.93	14.40	3.53	8.88	7.68
CALABARZON	231	29.16	10.12	4.04	3.73	11.76
MIMAROPA	174	4.50	9.23	1.64	3.14	4.63
Bicol Region	130	5.71	2.29	6.05	6.76	5.20
Western Visayas	605	5.45	4.73	-0.56	-0.23	2.34
Central Visayas	551	6.59	5.02	1.16	3.17	3.98
Eastern Visayas	110	54.36	-15.03	-7.67	-7.18	6.12
Zamboanga Peninsula	119	19.39	-1.56	-8.76	-25.92	-4.21
Northern Mindanao	242	-1.81	26.82	13.47	0.88	9.84
Davao Region	392	10.68	-4.11	4.90	4.48	3.99
SOCCKSARGEN	257	10.50	-2.44	2.23	-12.67	-0.59
Caraga	61	-1.75	-6.57	-16.40	-14.47	-9.80
ARMM	269	9.94	2.86	3.43	2.63	4.72

Table 7b
 Percentage distribution of number of goat in all farms by region,
 Philippines, 2006-2010

REGION	2006	2007	2008	2009	2010
Philippines	100.00	100.00	100.00	100.00	100.00
CAR	1.71	1.52	1.46	1.48	1.55
Ilocos Region	13.15	12.56	12.91	12.50	11.83
Cagayan Valley	4.21	4.05	3.19	3.26	3.12
Central Luzon	6.99	6.70	7.43	7.61	8.37
CALABARZON	4.03	4.80	5.13	5.28	5.53
MIMAROPA	3.88	3.75	3.97	3.99	4.16
Bicol Region	2.84	2.77	2.75	2.88	3.11
Western Visayas	14.77	14.37	14.60	14.35	14.47
Central Visayas	12.62	12.41	12.65	12.65	13.19
Eastern Visayas	2.61	3.72	3.07	2.80	2.63
Zamboanga Peninsula	4.01	4.41	4.21	3.80	2.85
Northern Mindanao	4.54	4.12	5.06	5.68	5.79
Davao Region	9.01	9.20	8.56	8.88	9.37
SOCCSKSARGEN	7.14	7.28	6.89	6.96	6.14
Caraga	2.49	2.26	2.05	1.69	1.46
ARMM	5.99	6.07	6.06	6.20	6.43

Table 8a
Growth rates in number of chicken in all farms by region, Philippines, 2006-2010
(Growth rates in percent)

REGION	2010 LEVEL ('000 BIRDS)	06-07	07-08	08-09	09-10	AVERAGE GROWTH RATE % 2006-2010
Philippines	158,984	0.97	13.74	2.85	0.20	4.44
CAR	1,476	4.58	-11.30	3.23	-7.25	-2.69
Ilocos Region	11,262	-2.56	42.70	17.93	-14.95	10.78
Cagayan Valley	5,567	-8.30	-4.33	9.73	-22.48	-6.35
Central Luzon	29,337	12.72	30.62	-1.97	-7.57	8.45
CALABARZON	25,834	0.62	12.18	11.44	2.88	6.78
MIMAROPA	3,402	-4.49	-0.77	-3.29	10.24	0.42
Bicol Region	7,518	-31.69	13.61	8.91	16.14	1.74
Western Visayas	17,906	2.35	16.32	-1.30	7.86	6.31
Central Visayas	11,414	14.42	1.09	-7.66	3.93	2.95
Eastern Visayas	3,929	-2.35	-17.30	6.68	6.80	-1.54
Zamboanga Peninsula	5,752	-15.20	-3.90	10.44	4.73	-0.98
Northern Mindanao	14,582	12.16	8.58	3.80	17.13	10.42
Davao Region	8,495	-7.60	5.04	-4.10	0.36	-1.57
SOCCKSARGEN	7,435	2.51	28.11	-6.95	-3.04	5.16
Caraga	2,303	8.99	-1.16	2.55	-4.45	1.48
ARMM	2,772	3.32	15.96	5.33	11.16	8.94

Table 8b

Percentage distribution of number of chicken in all farms by region,
Philippines, 2006-2010

REGION	2006	2007	2008	2009	2010
Philippines	100.00	100.00	100.00	100.00	100.00
CAR	1.24	1.28	1.00	1.00	0.93
Ilocos Region	6.01	5.80	7.28	8.35	7.08
Cagayan Valley	5.55	5.04	4.24	4.53	3.50
Central Luzon	16.37	18.26	20.99	20.00	18.45
CALABARZON	14.86	14.80	14.61	15.83	16.25
MIMAROPA	2.51	2.37	2.07	1.94	2.14
Bicol Region	5.70	3.85	3.85	4.08	4.73
Western Visayas	10.52	10.66	10.90	10.46	11.26
Central Visayas	7.65	8.67	7.71	6.92	7.18
Eastern Visayas	3.18	2.97	2.24	2.32	2.47
Zamboanga Peninsula	4.54	3.81	3.22	3.46	3.62
Northern Mindanao	7.33	8.14	7.77	7.85	9.17
Davao Region	6.77	6.19	5.72	5.33	5.34
SOCCKSARGEN	4.67	4.74	5.34	4.83	4.68
Caraga	1.62	1.75	1.52	1.52	1.45
ARMM	1.47	1.50	1.53	1.57	1.74

Table 9a
Growth rates in number of duck in all farms by region, Philippines, 2006-2010
(Growth rates in percent)

REGION	2010 LEVEL ('000 BIRDS)	06-07	07-08	08-09	09-10	AVERAGE GROWTH RATE % 2006-2010
Philippines	10,268	-8.84	3.41	0.66	-2.92	-1.92
CAR	202	-1.92	-5.88	8.02	-8.95	-2.18
Ilocos Region	368	6.22	1.70	5.72	2.46	4.02
Cagayan Valley	1,295	4.21	-2.24	4.50	-9.80	-0.83
Central Luzon	2,523	-9.49	-0.77	3.81	2.80	-0.91
CALABARZON	370	-11.81	4.29	-24.47	-45.68	-19.42
MIMAROPA	199	2.33	28.42	11.89	7.86	12.63
Bicol Region	376	-6.03	13.16	17.39	3.22	6.93
Western Visayas	1,599	1.88	-3.73	2.23	6.16	1.63
Central Visayas	188	-0.80	12.72	8.94	30.74	12.90
Eastern Visayas	530	-47.57	109.51	-8.83	18.70	17.95
Zamboanga Peninsula	190	-17.96	-29.29	42.34	-22.07	-6.74
Northern Mindanao	373	-10.00	-2.18	12.02	16.59	4.11
Davao Region	428	-34.49	-5.25	-12.10	-4.12	-13.99
SOCCSKSARGEN	1,202	-11.22	21.33	1.51	-3.62	2.00
Caraga	140	-8.53	-4.52	-12.71	-16.75	-10.62
ARMM	287	6.08	-5.47	-3.27	-19.39	-5.51

Table 9b

Percentage distribution of number of duck in all farms by region,
Philippines, 2006-2010

REGION	2006	2007	2008	2009	2010
Philippines	100.00	100.00	100.00	100.00	100.00
CAR	1.99	2.14	1.95	2.09	1.96
Ilocos Region	2.82	3.29	3.23	3.40	3.58
Cagayan Valley	12.09	13.82	13.07	13.57	12.61
Central Luzon	23.62	23.45	22.50	23.20	24.57
CALABARZON	8.81	8.52	8.59	6.45	3.61
MIMAROPA	1.12	1.26	1.57	1.74	1.93
Bicol Region	2.62	2.70	2.96	3.45	3.66
Western Visayas	13.47	15.06	14.02	14.24	15.57
Central Visayas	1.06	1.15	1.25	1.36	1.83
Eastern Visayas	4.00	2.30	4.66	4.22	5.16
Zamboanga Peninsula	2.65	2.38	1.63	2.31	1.85
Northern Mindanao	2.91	2.87	2.72	3.02	3.63
Davao Region	7.34	5.27	4.83	4.22	4.17
SOCCKSARGEN	10.23	9.96	11.69	11.79	11.70
Caraga	1.98	1.98	1.83	1.59	1.36
ARMM	3.29	3.83	3.50	3.36	2.79

Modules of the Agricultural Indicators System

- 1. Agricultural Structures and Resources**
2. Agricultural Credit
3. Output and Productivity
4. Agricultural Exports and Imports
5. Food Self-sufficiency and Security
6. Population and Labor Force
7. Food Consumption and Nutrition
8. Gender-based Indicators of Labor and Employment in Agriculture
9. Redistribution of Land
10. Economic Growth
11. Inputs
12. Prices and Marketing of Agricultural Commodities

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