



Republic of the Philippines  
Department of Agriculture  
**BUREAU OF AGRICULTURAL STATISTICS**  
Quezon City

# **DAIRY INDUSTRY PERFORMANCE REPORT**

## **January - December 2007**



**JULY 2008**



## EXPLANATORY NOTES

This annual Dairy Industry Performance Report presents the 2-year data of the total inventory of dairy animals by classification, milk production by animal type and by source, disposition of milk production, total supply and utilization of dairy products, and volume and value of dairy imports and exports.

The dairy statistics presented in this report is a product of collaborative efforts of the Bureau of Agricultural Statistics (BAS), the National Dairy Authority (NDA) and the Philippine Carabao Center (PCC). BAS conducts the semi-annual dairy survey in identified provinces where dairying exists to generate inventory of dairy animals, and milk production and disposition from individual or backyard dairying and, from privately owned commercial and institutional dairy operations for carabao, cattle and goat. Systematic sampling is used for the backyard dairy carabao and, complete enumeration of backyard dairy goats and privately owned commercial and institutional dairy operations for cattle, carabao and goat.

On the other hand, the National Dairy Authority (NDA) provides BAS the data on inventory of dairy cattle and milk production generated from the monitoring records of their assisted dairy cooperatives. Likewise, the Philippine Carabao Center (PCC) provides BAS the dairy data generated from the monitoring records of their assisted carabao dairy cooperatives and federations as well as from the institutional dairying activities of PCC Centers in selected regions and university campuses in the country, e.g., UP at Los Baños.



**TABLE OF CONTENTS**

Explanatory Notes	i
Table of Contents	ii
Highlights	iii

Inventory	1
Milk Production	2
Supply and Utilization of Milk	3
Imports	
Volume and Value	3
By Country of Origin	4
Exports	
Volume and Value	4
By Country of Destination	5
Prices	5

**Figures**

1. Milk Production in the Philippines, 2006-2007	iii
2. Distribution of Dairy Inventory by Animal Type, as of January 1, 2008	1
3. Distribution of Milk Production by Animal Type, Philippines, 2007	2
4. Volume of Exports by Country of Destination, Philippines, 2006-2007	5

**Statistical Tables**

1. Total Inventory of Animals vis-à-vis Dairy Animals by Type, Philippines as of January 1, 2006-2008	1
2. Inventory of Dairy Animals by Animal Type and by Age, as of January 1, 2006-2008	1
3. Animals on the Milcline and Milk Production by Animal Type and Source, Philippines, 2006-2007	2
4. Supply and Utilization of Milk, Philippines, 2005-2007	3
5. Volume and Value of Imports by Type of Dairy Products, Philippines, 2006-2007	3
6. Volume of Imports by Country of Origin, Philippines, 2006-2007	4
7. Volume and Value of Exports by Type of Dairy Products, Philippines, 2006-2007	4
8. Volume of Exports by Country of Destination, Philippines, 2006 – 2007	5
9. Average Price of Milk by Animal Type, Philippines, 2006 – 2007	5

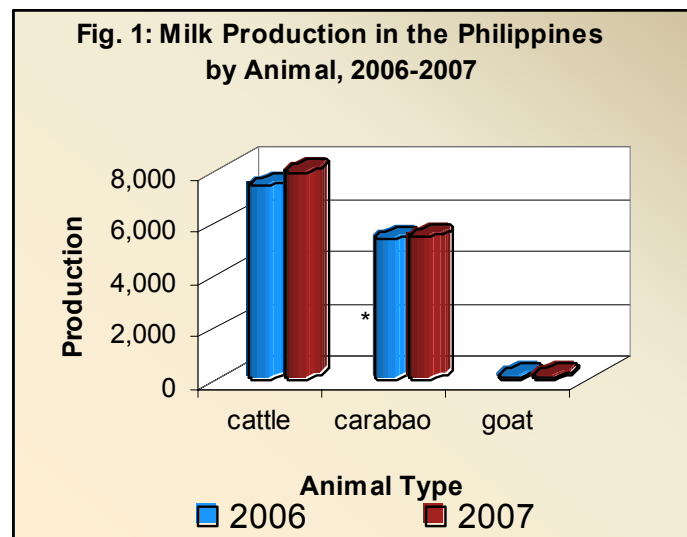
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## Highlights

The 2007 total fresh milk production in the country was estimated at 13.4 million liters, 5.04 percent higher in comparison with the previous year's level. Of this total, 7.9 million liters or 58.8 percent were cow's milk, 5.4 million liters or 40.5 percent were carabao's milk and less than one percent was goat's milk.

Total dairy animal population as of January 1, 2008 was estimated at 28,191 head, 7.71 percent higher than last year's headcount. The growth in dairy inventory was mainly due to the 14.64 percent increment in the number of dairy cattle.



In 2007, the total volume of dairy imports was 1,740 thousand metric tons or 1.89 percent less than the past year's level. However, there was a significant increase of 42.67 percent in the value of dairy imports, from the 2006 level of US\$457.3 million to US\$652.45 million in 2007. The increase was attributed to higher prices of dairy products in the world market.



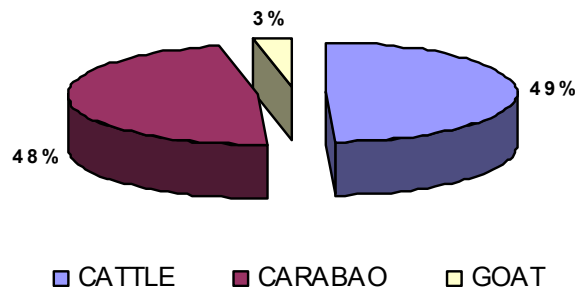
# 1 DAIRY INDUSTRY PERFORMANCE REPORT

**Table 1: Total Inventory of Animals vis – a – vis Inventory of Dairy Animals by Type, Philippines, as of January 1, 2006 – 2008**

Animal Type/Age	2006	2007	2008P	Percent Change
<b>Total Cattle</b>	<b>2,519,740</b>	<b>2,565,849</b>	<b>2,558,442</b>	<b>(0.29)</b>
Dairy Cattle	11,261	12,094	13,864	14.64
<b>Total Carabao</b>	<b>3,360,675</b>	<b>3,383,621</b>	<b>3,339,192</b>	<b>(1.31)</b>
Dairy Carabao	13,380	13,155	13,416	1.98
<b>Total Goat</b>	<b>3,735,816</b>	<b>4,048,550</b>	<b>4,161,629</b>	<b>2.79</b>
Dairy Goat	1,105	923	911	(1.30)

- ❖ Cattle dairy population was 0.54 percent of the total cattle population. Headcount of carabao dairy and goat dairy were less than 0.5 percent of total carabao and total goat population, respectively.

**Fig. 2 : Distribution of Dairy Inventory by Animal Type, as of January 1, 2008**



**Table 2: Inventory of Dairy Animals by Animal Type by Age, as of January 1, 2006 – 2008**

Animal Type/Age	2006	2007	2008P	Percent Change
<b>TOTAL DAIRY</b>	<b>25,746</b>	<b>26,172</b>	<b>28,191</b>	<b>7.71</b>
<b>CATTLE</b>	<b>11,261</b>	<b>12,094</b>	<b>13,864</b>	<b>14.64</b>
Bull	349	570	582	2.11
Dams	4,751	5,425	6,371	17.44
Heifer	1,642	1,389	1,621	16.70
Yearling	1,635	1,789	2,279	27.39
Calves	2,884	2,921	3,011	3.08
<b>CARABAO</b>	<b>13,380</b>	<b>13,155</b>	<b>13,416</b>	<b>1.98</b>
Bull	949	939	934	(0.53)
Dams	6,765	6,785	6,898	1.67
Heifer	808	801	881	9.99
Yearling	1,708	1,635	1,734	6.06
Calves	3,150	2,995	2,969	(0.87)
<b>GOAT</b>	<b>1,105</b>	<b>923</b>	<b>911</b>	<b>(1.30)</b>
Buck	79	63	70	11.11
Doe	610	465	470	1.08
Kids	339	315	279	(11.43)
Others	77	80	92	15.00

- ❖ Total inventory of dairy cattle as of January 1, 2008 was estimated at 13,864 head, posting a remarkable growth of 14.64 percent against the 2007 inventory.
- ❖ Carabao and goat dairy population grew by 1.98 percent and 1.3 percent, respectively, in comparison with 2007 records.
- ❖ The growth in the dairy cattle inventory was mainly contributed by expansion in female breeders, such as dams and heifer which increased by 17.44 percent and 16.70 percent, respectively. Moreover, stocks of yearlings went up from 1,789 head in 2007 to 2,279 head in 2008, posting a notable growth of 27.4 percent.
- ❖ Although dairy goat headcount dropped by 1.30 percent, inventory of female breeders does grew by 1.08 percent.

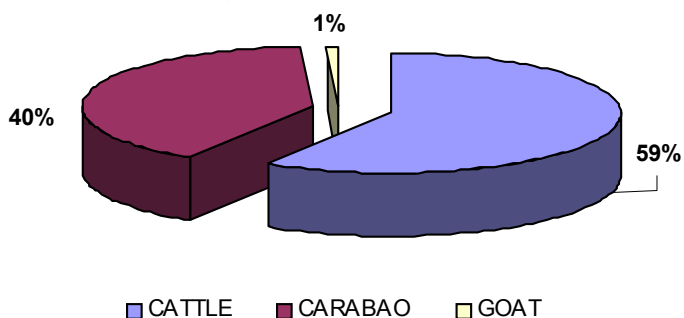


Table 3: Animals on the Milcline and Milk Production by Animal Type and Source, Philippines, 2006-2007

Animal Type/Source	2006		2007		Percent Change 2007/2006	
	Animals on the milcline	Production (LME* in '000 Liters)	Animals on the milcline	Production (LME* in '000 Liters)	Animals on the milcline	Production
<b>TOTAL</b>	<b>7,994</b>	<b>12,790</b>	<b>8,390</b>	<b>13,435</b>	<b>4.95</b>	<b>5.04</b>
<b>CATTLE</b>	<b>3,639</b>	<b>7,367.17</b>	<b>3,884</b>	<b>7,906.00</b>	<b>6.73</b>	<b>7.31</b>
Individual	782	790.39	887	1,146.18	13.43	45.01
Cooperatives	2,184	5,000.92	2,347	5,201.31	7.46	4.01
Commercial	392	1,023.95	332	1,112.88	(15.31)	8.68
Institutional	281	551.91	318	445.63	13.17	(19.26)
<b>CARABAO</b>	<b>4,165</b>	<b>5,331.37</b>	<b>4,308</b>	<b>5,435.37</b>	<b>3.43</b>	<b>1.95</b>
Individual	2,650	2,233.80	2,808	2,347.70	5.96	5.10
Cooperatives	810	1,462.10	816	1,480.81	0.74	1.28
Commercial	125	333.12	133	342.18	6.40	2.72
Institutional	580	1,302.35	551	1,264.68	(5.00)	(2.89)
<b>GOAT</b>	<b>190</b>	<b>91.57</b>	<b>198</b>	<b>93.79</b>	<b>4.18</b>	<b>2.42</b>

Note : \*LME " or Liquid Milk Equivalent

Fig. 3 : Distribution of Milk Production by Animal Type, Philippines, 2007





**Table 4: Supply and Utilization of Milk, Philippines, 2005-2006**  
(‘000 m.t. LME)

Particulars	2006	2007	Percent Change 07/06
Local Production <sup>1/</sup>	12.79	13.44	5.04
Imports <sup>2/</sup>	1,773.32	1,739.87	(1.89)
Total Supply	1,786.11	1,753.31	(1.84)
Export <sup>2/</sup>	262.64	283.80	8.06
Net Domestic Supply	1,523.47	1,469.51	(3.54)
Human Population	88.24	88.71	0.53
Per Capita Supply (liters/year) <sup>3/</sup>	17.27	16.57	(4.08)

Source: National Dairy Authority (NDA)  
<sup>1/</sup> Based on BAS survey converted to LME  
<sup>2/</sup> NDA based on NSO data converted to LME  
<sup>3/</sup> Derived using Net Domestic Supply/Human Population  
 \* 1 liter of milk is approximately 1kg of milk

- ❖ The total supply of milk in 2007 was estimated at 1,753.31 million liters. Of this total, more than 99 percent were imported.
- ❖ Total dairy imports in 2007 dropped by 1.89 percent. This consequently lowered the total supply of milk by 1.84 percent.
- ❖ After deducting the volume of exports, which was 283.80 million liters, the net domestic supply of milk was estimated at 1,469.51 million liters. This was 3.54 percent lower than last year’s supply. The derived per capita consumption of milk was estimated at 16.57 kilograms per year, or 4.08 percent lower than last year’s per capita consumption.

## IMPORTS

**Table 5 : Volume and Value of Imports by Type of Dairy Products, Philippines, 2006-2007**  
(In Liquid Milk Equivalent)

Particulars	2006		2007		Percent Change	
	Volume (‘000 MT)	Value (CIF MUS\$)	Volume (‘000 MT)	Value (CIF MUS\$)	Volume 07/06	Value 07/06
Total Import	1,773.32	457.30	1,739.87	652.45	(1.89)	42.67
1. Milk and Cream	1,644.73	406.32	1,594.85	588.96	(3.03)	44.95
Skim Milk	750.81	190.58	720.24	298.34	(4.07)	56.54
Wholemilk	307.05	81.33	287.76	100.00	(6.28)	22.96
Buttermilk	157.34	36.12	158.29	59.77	0.60	65.48
Whey Powder	341.72	47.15	321.07	63.6	(6.04)	34.89
Fresh Milk	37.74	27.24	44.28	30.77	17.33	12.96
Evaporated	19.41	8.58	11.95	7.86	(38.43)	(8.39)
Other	30.86	15.32	51.26	28.62	66.10	86.81
2. Butter	71.89	18.95	90.45	30.52	25.82	61.06
3. Cheese	30.35	16.88	36.35	20.68	19.77	22.51
4. Curd	26.35	15.15	18.22	12.29	(30.85)	(18.88)

Source: National Dairy Authority (NDA) and National Statistics Office (NSO)

- ❖ Total value of dairy imports in 2007 was USD 652.45M. This registered a remarkable growth of 42.67 percent from last year’s import value of USD 457.30 million.
- ❖ Of the total milk imports, 91.7 percent were classified under milk and cream, and the rest were butter, cheese and curd.



**Table 6. Volume of Imports by Country of Origin, Philippines, 2006-2007 (In Liquid Milk Equivalent )**

Country Source	2006		2007	
	Volume ('000 MT)	Percent Share	Volume ('000 MT)	Percent Share
TOTAL	1,773	100	1,740	100
1. New Zealand	707.81	39.91	728.82	41.89
2. USA	341.69	19.27	316.86	18.21
3. Australia	359.54	20.27	222.51	12.79
5. Others	364.28	20.54	471.68	27.11

Source: National Dairy Authority (NDA) and National Statistics Office (NSO)

- ❖ New Zealand was the major source of the dairy product imports. It supplied a total of 728,820 metric tons or around 41.89 percent of the total dairy imports.

## EXPORTS

**Table 7 : Volume and Value of Exports by Type of Dairy Products, Philippines, 2006-2007 (In Liquid Milk Equivalent)**

Particulars	2006		2007		Percent Change	
	Volume ('000 liters)	Value ('000 US\$)	Volume ('000 liters)	Value ('000 US\$)	Volume (07/06)	Value (07/06)
<b>Total Exports</b>	<b>262.64</b>	<b>96.31</b>	<b>283.80</b>	<b>140.69</b>	<b>8.06</b>	<b>46.08</b>
Milk and Cream	261.67	95.79	280.81	138.76	7.31	44.86
Butter	0.09	0.03	0.21	.07	133.33	133.33
Cheeses	0.88	0.49	2.78	1.85	215.91	277.55

Source : National Dairy Authority (NDA) and National Statistics Office (NSO)

- ❖ Dairy products exported from the Philippines were milk and cream, butter and cheeses. In 2007, the total volume of exports was 283.80 thousand liters, higher by 8.06 percent against last year's volume.
- ❖ Almost 99 percent of the total dairy exports were milk and cream, the rest were butter and cheese.



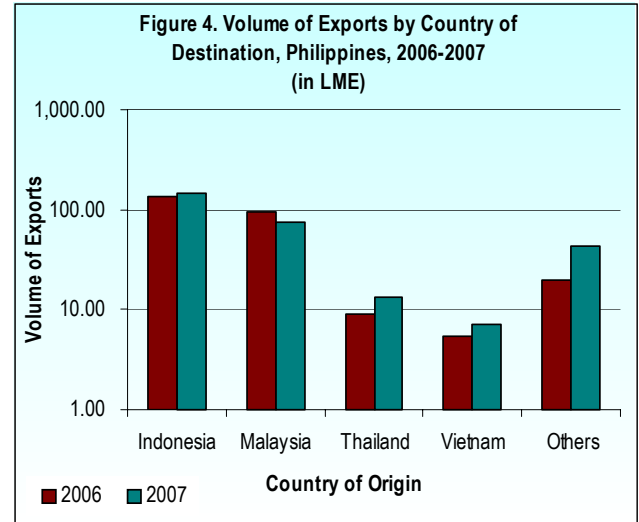


## 5 DAIRY INDUSTRY PERFORMANCE REPORT

**Table 8 : Volume of Exports by Country Destination  
Philippines, 2006-2007  
(In LME)**

Country Destination	2006		2007	
	Volume (M liters)	Percent Share	Volume (M liters)	Percent Share
<b>Total</b>	<b>263</b>	<b>100</b>	<b>284</b>	<b>100</b>
Indonesia	134.29	51.13	145.82	51.38
Malaysia	94.66	36.04	74.30	26.18
Thailand	8.93	3.40	13.08	4.61
Vietnam	5.33	2.03	7.18	2.53
Others	19.44	7.40	43.42	15.30

Source: National Dairy Authority (NDA) and National Statistics Office (NSO)



- ❖ The main countries of destination for dairy products from the Philippines were Indonesia and Malaysia with total shares of 51.38 percent and 26.18 percent respectively. Other relatively big importers were Thailand and Vietnam.

## PRICES

**Table 9 : Average Price of Milk by Animal Type, Philippines, 2006-2007  
(Peso per liter)**

Animal Type	2006	2007	Percent Change 2007/2006
Cattle <sup>1/</sup>	17.00	19.00	11.76
Carabao <sup>2/</sup>	45.00	45.50	1.11
Goat <sup>3/</sup>	33.00	35.00	6.06

<sup>1/</sup> NDA as reported by cooperatives

<sup>2/</sup> PCC as reported by Institutional centers

<sup>3/</sup> Based on BAS Semestral Dairy Survey

- ❖ In 2007, the average prices of raw milk from three sources of dairy animal posted increases of 11.76 percent for cattle, 1.11 percent for carabao and 6.06 percent for goat.



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