



PHILIPPINE
STATISTICS
AUTHORITY

DAIRY Industry Performance Report

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TECHNICAL NOTES

The Dairy Industry Performance Report presents the industry situation in terms of total inventory of dairy animals by type; 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.

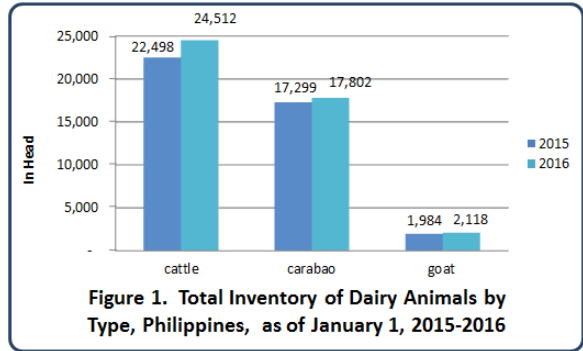
The Semi-annual Survey of Dairy Enterprises in selected provinces is the primary source of data for this report conducted by the Philippine Statistics Authority (PSA). The survey is intended to generate data on inventory of dairy animals by type and breed, milk production of dairy animals by type and disposition. Systematic sampling is utilized in drawing samples for individual and backyard carabao dairy farms. Complete enumeration is applied for highest producing dairy cooperatives, commercial farms, government-owned and private institutions, for all types of animals, i.e. cattle, carabao and goat.

The various dairy statistics used in this report are products of collaborative efforts of the Philippine Statistics Authority (PSA), the National Dairy Authority (NDA) and the Philippine Carabao Center (PCC). The NDA provides PSA with data on inventory of dairy cattle and milk production generated from the monitoring records of their assisted dairy cooperatives. The PCC provides PSA with 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., University of the Philippines at Los Baños.

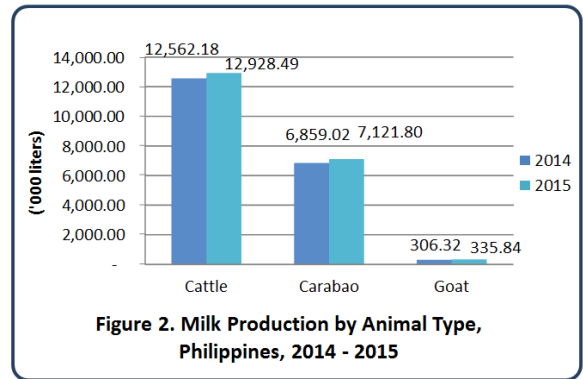


HIGHLIGHTS

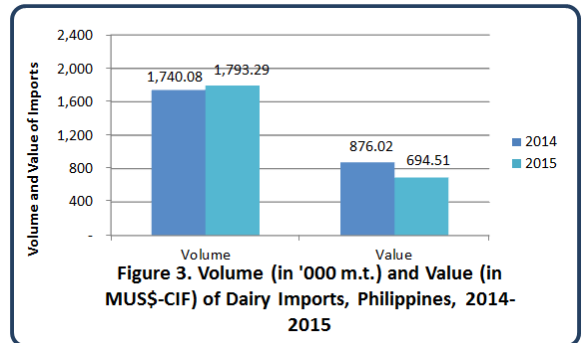
❖ As of January 1, 2016, the total dairy animal population was 44,432 heads. This was 6.34 percent higher than last year's headcount. Dairy cattle stocks grew by 8.95 percent. Dairy carabao and dairy goat population went up by 2.91 percent and 6.75 percent respectively. (Table 2)



❖ In 2015, milk production in the country was 20.39 million liters. This was 3.34 percent higher than last year's level of 19.73 million liters. Of this total, 12.93 million liters or 63.42 percent were cow's milk; 7.12 million liters or 34.93 percent were carabao's milk and 0.34 million liters or 1.65 percent were goat's milk. (Table 3)



❖ The volume of dairy imports in 2015 was 1,793.29 thousand metric tons. This was 3.06 percent higher than the 2014 level of 1,740.08 thousand metric tons. There was a decline of 20.72 percent in the value of dairy imports, from the 2014 level of US\$ 876.02 million to US\$ 694.51 million in 2015. (Table 5)





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INVENTORY

Table 1. Total Inventory of Animals vis-à-vis Inventory of Dairy Animals by Type, Philippines, as of January 1, 2014-2016 (Number of Head)

Animal Type	2014	2015	2016	Percent Change	
				15/14	16/15
(1)	(2)	(3)	(4)	(5)	(6)
Total Cattle	2,512,184	2,533,809	2,553,303	0.86	0.77
Dairy Cattle	21,605	22,498	24,512	4.13	8.95
Total Carabao	2,847,445	2,854,838	2,877,111	0.26	0.78
Dairy Carabao*	16,829	17,299	17,802	2.79	2.91
Total Goat	3,695,627	3,674,277	3,663,170	(0.58)	(0.30)
Dairy Goat	1,888	1,984	2,118	5.08	6.75

*- Preliminary

- ❖ In 2016, dairy cattle population was 24,512 heads or 0.96 percent of the total cattle population. Dairy carabao population stood at 17,802 heads and dairy goat population reached 2,118 heads or 0.62 percent and 0.06 percent of the total carabao and total goat inventory, respectively. (Table 1)
- ❖ As of January 1, 2016, the total inventory of dairy animals reached 44,432 heads. This was 6.34 percent higher than the previous year's level of 41,781 heads. (Table 2)

Table 2. Inventory of Dairy Animals by Animal Type by Age Classification, Philippines, as of January 1, 2014-2016 (Number of Head)

Animal Type/Age	2014	2015	2016P	Percent Change	
				15/14	16/15
(1)	(2)	(3)	(4)	(5)	(6)
TOTAL DAIRY	40,322	41,781	44,432	3.62	6.34
CATTLE	21,605	22,498	24,512	4.13	8.95
Bull	863	923	1,012	6.95	9.64
Dam	9,831	10,036	10,739	2.09	7.00
Heifer	2,678	2,878	3,230	7.47	12.23
Yearling	3,856	4,043	4,542	4.85	12.34
Calf	4,377	4,618	4,989	5.51	8.03
CARABAO*	16,829	17,299	17,802	2.79	2.91
Carabull	1,102	1,121	1,142	1.72	1.87
Dam	8,501	8,736	8,987	2.76	2.87
Caraheifer	1,112	1,155	1,202	3.87	4.07
Yearling	2,292	2,371	2,459	3.45	3.71
Caracalf	3,822	3,916	4,012	2.46	2.45
GOAT	1,888	1,984	2,118	5.08	6.75
Buck	143	151	162	5.59	7.28
Doe	976	1,020	1,080	4.51	5.88
Kid	607	639	686	5.27	7.36
Others	162	174	190	7.41	9.20

*- Preliminary

- ❖ As of January 1, 2016, stocks of all dairy animals registered increases compared with the same period in 2015.
- ❖ Of the total dairy inventory, dairy cattle has the highest share of 55.17 percent. Dairy carabao and dairy goat shared 40.07 percent and 4.77 percent, respectively.

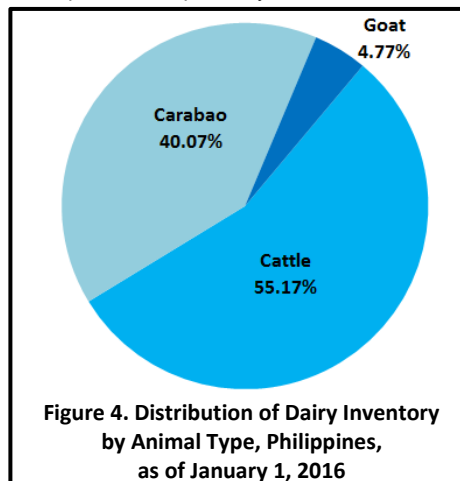


Figure 4. Distribution of Dairy Inventory by Animal Type, Philippines, as of January 1, 2016



MILK PRODUCTION

Table 3. Animals on the Milklime and Milk Production by Animal Type and Source, Philippines, 2013-2015

Animal Type/Source	2013		2014		2015		% Change (15/14)	
	Animals on the Milklime	Production (LME* in '000 Liters)	Animals on the Milklime	Production (LME* in '000 Liters)	Animals on the Milklime	Production (LME* in '000 Liters)	Animals on the Milklime	Production (LME* in '000 Liters)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
TOTAL	11,937	19,526.42	12,207	19,727.52	12,825	20,386.13	5.06	3.34
CATTLE	5,681	12,683.44	5,797	12,562.18	6,145	12,928.49	6.00	2.92
Cooperatives	2,324	5,451.99	2,176	4,745.29	2,190	4,763.25	0.64	0.38
Gov't-Owned-Institutional	209	390.25	172	246.48	170	242.12	(1.16)	(1.77)
Commercial/Private	1,324	2,817.09	1,178	2,914.89	1,211	3,014.21	2.80	3.41
Individual	1,824	4,024.11	2,271	4,655.52	2,574	4,908.91	13.34	5.44
CARABAO	4,884	6,566.14	4,971	6,859.02	4,983	7,121.80	0.24	3.83
Cooperatives	886	1,850.21	957	2,010.86	980	2,148.50	2.40	6.84
Gov't-Owned-Institutional	636	1,496.69	687	1,627.21	705	1,766.10	2.62	8.54
Commercial/Private	162	447.45	173	479.92	177	506.13	2.31	5.46
Individual	3,200	2,771.79	3,154	2,741.03	3,121	2,701.07	(1.05)	(1.46)
GOAT	1,372	276.84	1,439	306.32	1,697	335.84	17.93	9.64

Note: LME* - Liquid Milk Equivalent

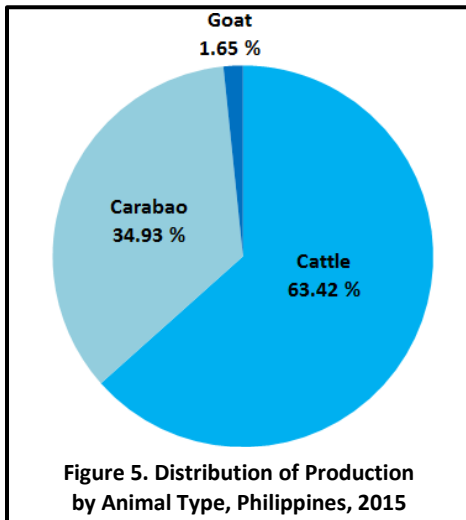


Figure 5. Distribution of Production by Animal Type, Philippines, 2015

- ❖ In 2015, total milk production in the country reached 20,386.13 thousand liters. It expanded by 3.34 percent against last year's level of 19,727.52 thousand liters. (Table 3)
- ❖ Production of dairy cattle milk increased by 2.92 percent or from 12,562.18 thousand liters in 2014 to 12,928.49 thousand liters in 2015. Dairy carabao milk production went up by 3.83 percent and dairy goat milk production grew by 9.64 percent. (Table 3)
- ❖ The total number of dairy animals on the milklime went up by 5.06 percent. Dairy cattle count increased by 6.00 percent. Dairy carabao and dairy goat on the milklime, likewise grew by 0.24 percent and 17.93 percent, respectively.



SUPPLY UTILIZATION

Table 4. Supply and Utilization of Milk, Philippines, 2013-2015
(‘000 m.t. – LME)

Particulars	2013	2014	2015	% Change	
				14/13	15/14
(1)	(2)	(3)	(4)	(5)	(6)
Local Production ^{1/}	19.46	20.01	20.38	2.83	1.85
Imports ^{2/}	1,945.69	1,740.08	1,793.29	(10.57)	3.06
Total supply	1,965.15	1,760.09	1,813.67	(10.43)	3.04
Exports ^{2/}	48.52	69.40	168.32	43.03	142.54
Net Domestic					
Supply	1,916.63	1690.69R	1,645.35	(11.79)	(2.68)
Human Population	98.20R	99.88R	101.56	1.71	1.68
Per Capita Supply (liters/year) ^{3/}	19.52R	16.93R	16.20	(13.27)	(4.29)

R-Revised

Source: National Dairy Authority (NDA)

^{1/} NDA and PSA-BAS survey converted to LME

^{2/} NDA based on PSA data converted to LME

^{3/} Derived using Net Domestic supply/Human Population

* 1 liter of milk is approximately 1 kg of milk

LME- Liquid Milk Equivaler

- ❖ The total supply of milk in 2015 reached 1,813.67 thousand metric tons. It was 3.04 percent higher than the previous year's level. More than 99 percent of the total milk supply was imported. (Table 4)
- ❖ The total dairy imports registered an increase of 3.06 percent in 2015. It rose from 1,740.08 thousand metric tons in 2014 to 1,793.29 thousand metric tons in 2015. (Table 4 and 5)
- ❖ In 2015, the net domestic supply of milk was 1,645.35 thousand metric tons. This was 2.68 percent lower than the domestic supply in 2014. (Table 4)

IMPORTS

Table 5. Volume and Value of Imports by Type of Dairy Products, Philippines, 2013-2015

Particulars	2013		2014		2015		% Change	
	Volume (‘000 mt)	Value (MUS\$-CIF)	Volume (‘000 mt)	Value (MUS\$-CIF)	Volume (‘000 mt)	Value (MUS\$-CIF)	2015/14	2015/14
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Total Import	1,945.69	857.19	1,740.08	876.02	1,793.29	694.51	3.06	(20.72)
1. Milk and Cream	1,752.51	728.75	1,533.61	728.99	1,540.82	529.78	0.47	(27.33)
Skim Milk Powder	887.38	423.85	746.30	399.04	787.40	270.85	5.51	(32.12)
Wholemilk Powder	205.65	74.14	154.00	79.19	134.10	45.82	(12.92)	(42.14)
Buttermilk	175.31	82.80	146.76	79.22	142.50	45.91	(2.90)	(42.05)
Whey Powder	338.18	69.52	380.41	80.56	375.71	68.89	(1.24)	(14.49)
Liquid (RTD) Milk	47.51	49.83	43.66	51.34	42.66	44.71	(2.29)	(12.91)
Evaporated	0.31	0.19	0.48	0.15	0.30	0.64	(37.50)	326.67
Others*	98.17	28.42	62.00	39.49	58.15	52.96	(6.21)	34.11
2. Butter	125.43	69.94	129.63	79.40	148.50	82.39	14.56	3.77
3. Cheese	64.21	55.12	68.86	59.55	95.05	72.96	38.03	22.52
4. Curd	3.54	3.38	7.98	8.08	8.92	9.38	11.78	16.09

Source: National Dairy Authority (NDA) and Philippine Statistics Authority (PSA)

* - includes Cream and Condensed Milk

- ❖ The total value of dairy imports in 2015 was US\$ 694.51 million CIF. This was 20.72 percent lower than the 2014 imports of US\$ 876.02 million CIF. (Table 5)
- ❖ Of the total milk imports, around 85.92 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, 2013-2015
(in '000 MT)**

Country Source	2013		2014		2015	
	Volume ('000 mt)	Percent Share	Volume ('000 mt)	Percent Share	Volume ('000 mt)	Percent Share
(1)	(2)	(3)	(4)	(5)	(6)	(7)
TOTAL	1,945.69	100.00	1,740.08	100.00	1,793.29	100.00
New Zealand	617.59	31.74	484.16	27.82	527.18	29.40
USA	621.29	31.93	523.57	30.09	521.67	29.09
Australia	125.51	6.45	114.19	6.56	142.16	7.93
Others	581.30	29.88	618.16	35.52	602.28	33.59

❖ In 2015, New Zealand and USA were the leading sources of imported dairy products. They supplied a total of 1,048.85 thousand metric tons or 58.49 percent of the total dairy imports of the Philippines. (Table 6)

Source: National Dairy Authority (NDA)
Philippine Statistics Authority (PSA)

EXPORTS

**Table 7. Volume and Value of Exports by Type of Dairy Products
Philippines, 2013-2015
(In Liquid Milk Equivalent)**

Particulars	2013		2014		2015		% Change	
	Volume ('000 M.T.)	Value ('000 US\$)	Volume ('000 M.T.)	Value ('000 US\$)	Volume ('000 M.T.)	Value ('000 US\$)	Volume 13/12	Value 13/12
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Total Exports	48.52	55.11	69.40	46.40	168.32	85.80	142.54	84.91
Milk and Cream	43.97	48.88	65.53	43.66	165.64	84.08	152.77	92.58
Butter	0.05	0.17	1.10	0.59	0.96	0.20	(12.73)	(66.10)
Cheese	4.33	5.88	2.74	2.14	1.71	1.51	(37.59)	(29.44)
Curd	0.17	0.18	0.03	0.01	0.01	0.01	(66.67)	-

❖ The total volume of dairy products exported by the Philippines in 2015 was 168.32 thousand metric tons. It was higher by 142.54 percent against previous year's record of 69.40 thousand metric tons. The total value increased by 84.91 percent. (Table 7)

Source: National Dairy Authority (NDA)
Philippine Statistics Authority (PSA)

❖ In 2015, milk and cream comprised 98 percent of the total dairy exports. The rest were butter and cheese.



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**Table 8. Volume of Exports by Country of Destination
Philippines, 2013-2015
(in '000 MT)**

Country Destination	2013		2014		2015	
	Volume (MT)	Percent Share	Volume (MT)	Percent Share	Volume (MT)	Percent Share
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Total	48.52	96.80	69.40	100.00	46.18	100.00
USA	25.95	53.50	1.51	2.18	-	-
Malaysia	6.52	13.43	29.64	42.71	26.24	56.82
Thailand	5.94	12.25	19.74	28.44	5.80	12.56
Indonesia	1.39	2.86	-	-	1.52	3.29
Bangladesh	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-
Iraq	1.55	-	-	-	-	-
Others	7.16	14.76	18.51	26.67	12.62	27.33

Source: National Dairy Authority (NDA)
Philippine Statistics Authority (PSA)

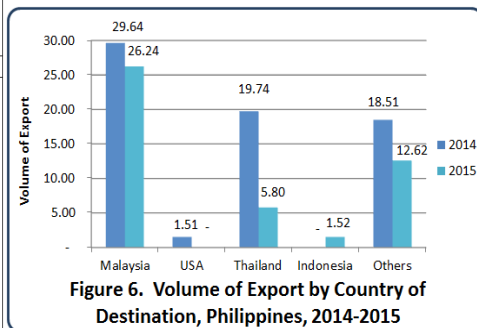


Figure 6. Volume of Export by Country of Destination, Philippines, 2014-2015

- ❖ In 2015, the main countries of destination for dairy products from the Philippines were Malaysia, Thailand and Indonesia. Malaysia and Thailand accounted for 69.38 percent of the total volume of the Philippine exports. (Table 8)

PRICES

**Table 9. Average Farmgate Price of Milk by Animal Type,
Philippines, 2013-2015
(Peso per liter)**

Animal Type	2013	2014	2015	Percent Change	
				14/13	15/14
(1)	(2)	(3)	(4)	(5)	(6)
Cattle ^{1/}	22.50	23.50	24.00	4.44	2.13
Carabao ^{2/}	46.00	47.00	47.00	2.17	-
Goat [*]	35.00	35.00		-	-

^{1/} NDA as reported by cooperatives

^{2/} PCC as reported by Institutional centers

^{*} Data not available

- ❖ In 2015, the annual average farmgate prices per liter of raw were Php 24.00 for cattle and Php 47.00 for carabao, respectively. (Table 9)



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