



**Report on a survey conducted in October and November 2017 in respect of
information supplied by milk producers in terms of the requirements as
published in Regulations 42 and 46 of 22 January 2016 in terms of the
Marketing of Agricultural Products Act (47 of 1996).**

Issued: January 2018

Contents

1	Introduction	2
2	Herd composition and structure	3
3	Milk production	7
4	Geographical distribution of milk production	11
5	Geographical distribution of cows	13

1. Introduction

In terms of Regulations 42 and 46 of 2016 the Milk Producers' Organisation (MPO) is compelled to collect specific information from milk producers of raw milk. This survey was carried out in October and November 2017. The survey was conducted among all milk producers registered as such with the MPO in terms of Regulation 42 of 2016. It consisted of an initial email survey, followed by two additional email surveys and a telephone survey among persons who initially failed to respond and producers without email contact. Incomplete questionnaires were followed up by telephone in December 2017. In total 688 responses (45,8%) could be used. The total response is compared with the number of registered producers per province in Table 1.

Table 1: Survey response and registered producers per province, November 2017

Province	Responders	% of total	Producers	% of total	Response % of producers
North West	89	12,9%	146	9,7%	61,0%
Free State	83	12,1%	242	16,1%	34,3%
Mpumalanga	38	5,5%	79	5,3%	48,1%
Northern Cape	6	0,9%	7	0,5%	85,7%
Limpopo	8	1,2%	16	1,1%	50,0%
Western Cape	233	33,9%	451	30,0%	51,7%
Gauteng	30	4,4%	97	6,5%	30,9%
KwaZulu-Natal	75	10,9%	233	15,5%	32,2%
Eastern Cape	126	18,3%	232	15,4%	54,3%
Total	688	100,0%	1 503	100,0%	45,8%

The response rate of the different regions varied between 30,9% and 85,7%. In the opinion of the Milk Producers' Organisation the information in this report provides a reliable overview of the typical structure of milk production in South Africa. Provincial information in provinces with a low response rate should be handled with care.

2. Herd¹ composition and structure

The average composition of dairy herds per province is shown in Table 2 and the percentage composition in Table 3. The largest herds are in the Eastern Cape and KwaZulu-Natal and the smallest in North West and the Free State.

Table 2: Herd composition (numbers), average dairy herd per province, 2017

Province	Cows in milk	Dry cows	Heifers >1 year	Heifers < 1 year	Total
Eastern Cape	606	48	182	187	1023
KwaZulu-Natal	594	57	191	193	1035
Western Cape	268	55	103	101	527
Limpopo	191	31	105	106	433
Free State	117	37	53	37	244
Northern Cape	398	53	143	52	646
Mpumalanga	139	29	54	48	270
Gauteng	188	49	73	48	358
North West	87	22	26	26	161
<u>National herd²</u>	332	46	113	110	601

¹ A dairy herd is defined as a number of dairy animals being farmed on a separate farm, irrespective of its ownership.

² The properties of the total herd are determined from the total responses and not as an unweighted average.

Table 3: Herd composition (%), average dairy herd per province, 2017

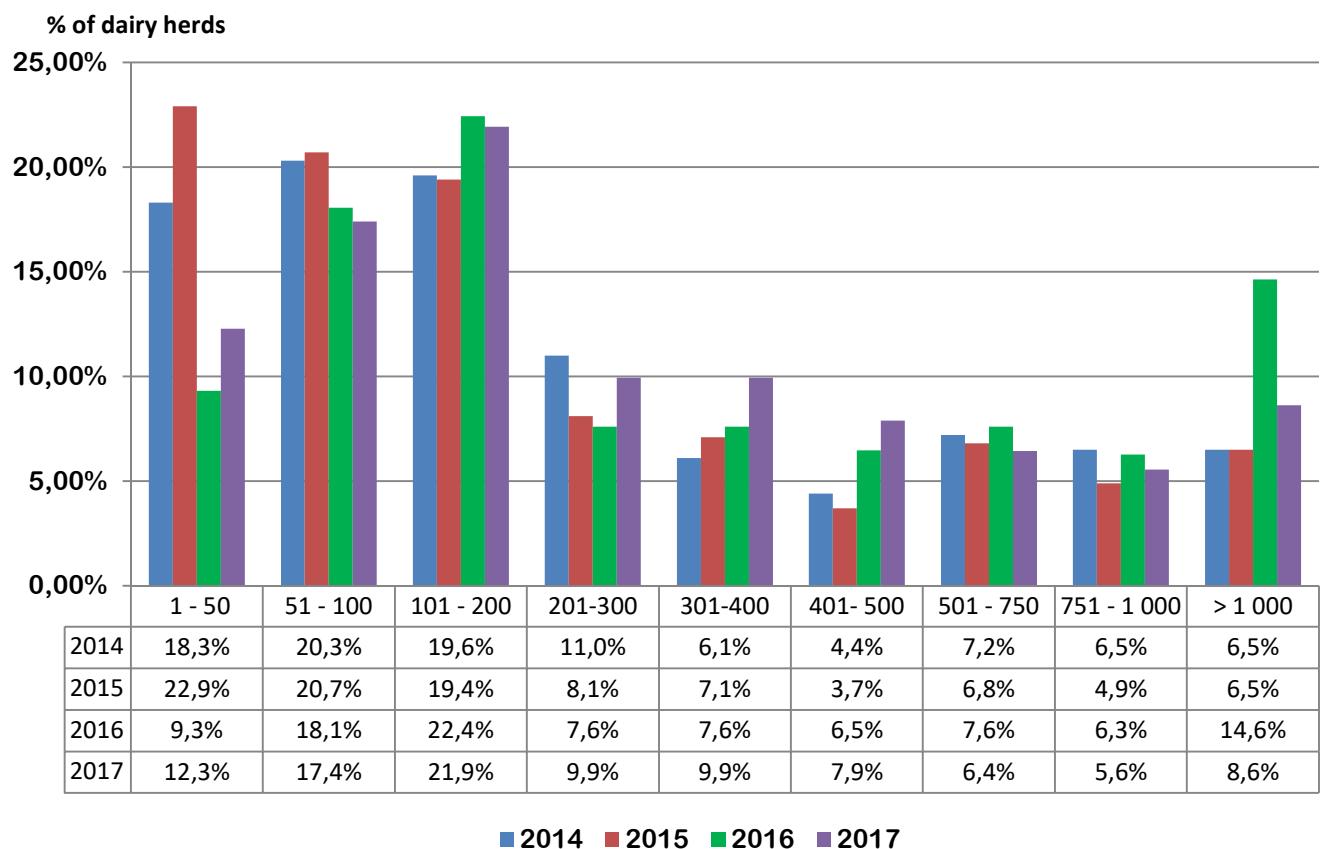
Province	Cows in milk	Dry cows	Heifers >1 year	Heifers < 1 year
Eastern Cape	59,2%	4,7%	17,8%	18,3%
KwaZulu-Natal	57,4%	5,5%	18,5%	18,6%
Western Cape	50,9%	10,4%	19,5%	19,2%
Limpopo	44,1%	7,2%	24,2%	24,5%
Free State	48,0%	15,2%	21,7%	15,2%
Northern Cape	61,6%	8,2%	22,1%	8,0%
Mpumalanga	51,5%	10,7%	20,0%	17,8%
Gauteng	52,5%	13,7%	20,4%	13,4%
North West	54,0%	13,7%	16,1%	16,1%
<u>National herd</u>	55,2%	7,7%	18,8%	18,3%

The distribution of dairy herds per herd size interval is shown in Table 4 and Figure 1. Fifty per cent of the dairy herds comprise 200 or fewer cows in the herd while 21% of the herds have more than 500 cows.

Table 4: Distribution of dairy herds per herd size group (cows in herd), 2015 – 2017

Cows in herd	% of herds			Cumulative % of herds		
	2015	2016	2017	2015	2016	2017
1–50	22,9%	9,3%	12,3%	22,9%	9,3%	12,3%
51–100	20,7%	18,1%	17,4%	43,6%	27,4%	29,7%
101–200	19,4%	22,4%	21,9%	63,0%	49,8%	51,6%
201–300	8,1%	7,6%	9,9%	71,1%	57,4%	61,5%
301–400	7,1%	7,6%	9,9%	78,1%	65,0%	71,5%
401–500	3,7%	6,5%	7,9%	81,9%	71,5%	79,4%
501–750	6,8%	7,6%	6,4%	88,6%	79,1%	85,8%
751–1 000	4,9%	6,3%	5,6%	93,5%	85,4%	91,4%
> 1 000	6,5%	14,6%	8,6%	100,0%	100,0%	100,0%
Total	100,0%	100,0%	100,0%			

Figure 1: Distribution of herds per herd size group (cows in herd), 2015 – 2017

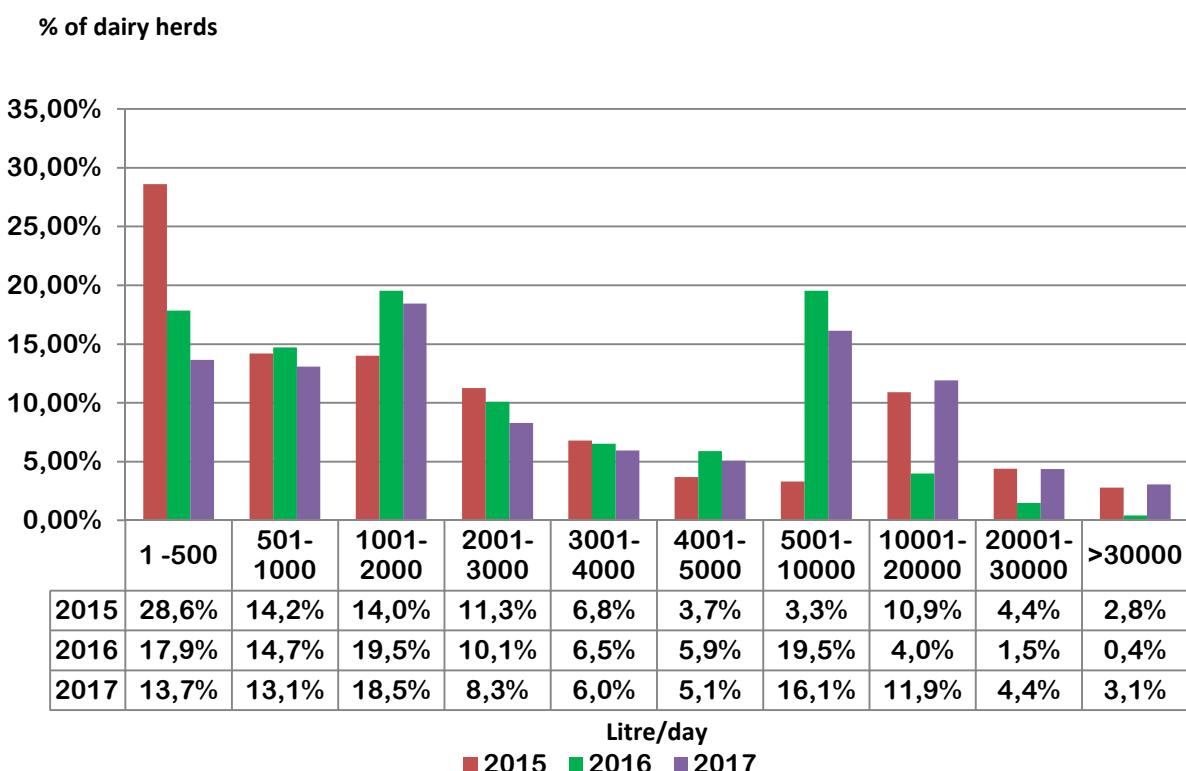


The distribution of herds based on total daily production per herd is shown in Table 5 and Figure 2. Fifty-four per cent of the herds produce 3 000 l and less per day and 41% produce more than 4 000 l per day.

Table 5: Distribution of herds per production group, 2015 – 2017

Daily production	% of dairy herds			Cumulative %		
	2015	2016	2017	2015	2016	2017
1– 500	28,6%	17,9%	13,7%	28,6%	17,9%	13,7%
501–1 000	14,2%	14,7%	13,1%	42,8%	32,6%	26,7%
1 001–2 000	14,0%	19,5%	18,5%	56,8%	52,1%	45,2%
2 001–3 000	11,3%	10,1%	8,3%	68,1%	62,2%	53,5%
3 001–4 000	6,8%	6,5%	6,0%	74,9%	68,7%	59,4%
4 001–5 000	3,7%	5,9%	5,1%	78,6%	74,6%	64,5%
5 001–10 000	3,3%	19,5%	16,1%	81,9%	94,1%	80,7%
10 001–20 000	10,9%	4,0%	11,9%	92,8%	98,1%	92,6%
20 001–30 000	4,4%	1,5%	4,4%	97,2%	99,6%	96,9%
>30 000	2,8%	0,4%	3,1%	100,0%	100,0%	100,0%
Total	100,0%	100,0%	100,0%			

Figure 2: Distribution of herds per production group, 2015 – 2017



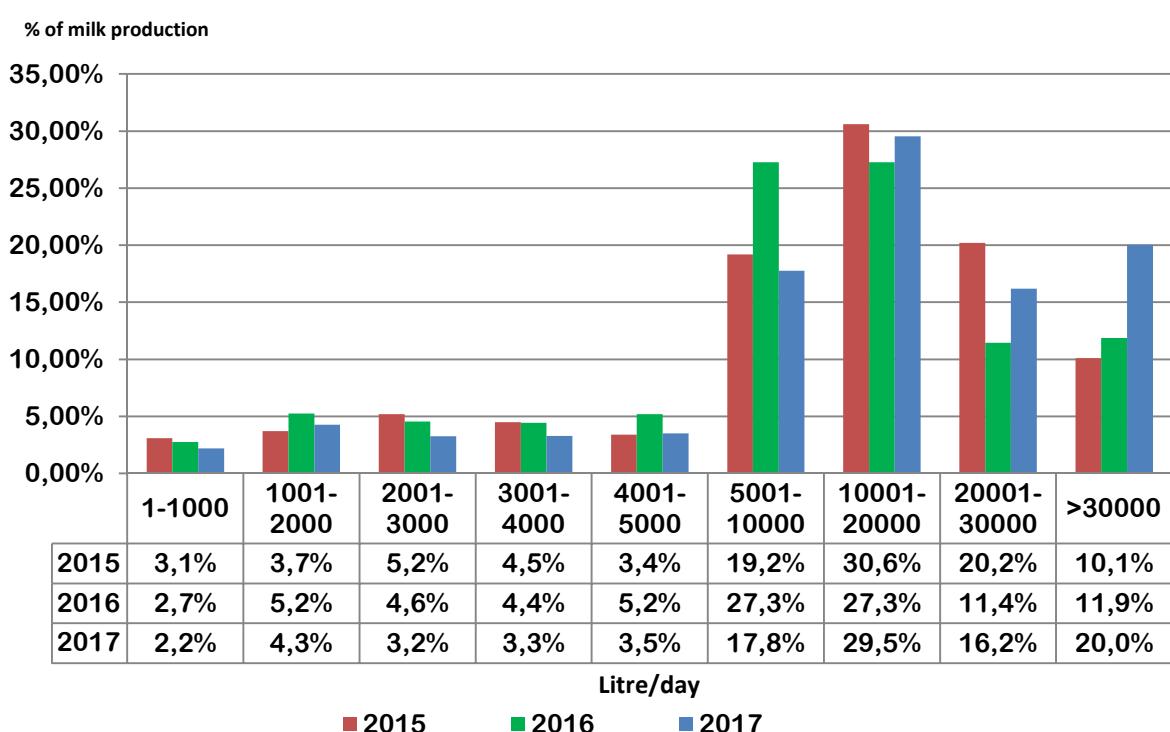
2. Milk production

The share of total milk production per production class is shown in Table 6 and Figure 3. Large herds (producing more than 10 000 ℥/day) produce 80% of the total volume of milk in South Africa.

Table 6: Milk production per production class, 2015 – 2017

Daily production	% of total milk production			Cumulative %		
	2015	2016	2017	2015	2016	2017
1–1 000	3,1%	2,7%	2,2%	3,1%	2,7%	2,2%
1 001–2 000	3,7%	5,2%	4,3%	6,8%	8,0%	6,4%
2 001–3 000	5,2%	4,6%	3,2%	12,0%	12,5%	9,7%
3 001–4 000	4,5%	4,4%	3,3%	16,5%	17,0%	13,0%
4 001–5 000	3,4%	5,2%	3,5%	19,9%	22,1%	16,5%
5 001–10 000	19,2%	27,3%	17,8%	39,1%	49,4%	34,2%
10 001–20 000	30,6%	27,3%	29,5%	69,7%	76,7%	63,8%
20 001–30 000	20,2%	11,4%	16,2%	89,9%	88,1%	80,0%
>30 000	10,1%	11,9%	20,0%	100,0%	100,0%	100,0%
Total	100,0%	100,0%	100,0%			

Figure 3: Milk production per production class, 2015 – 2017



The daily average production and utilisation of milk per dairy farm per province are shown in Table 7. The Eastern Cape has the highest production per day, followed by the Northern Cape and KwaZulu-Natal.

Table 7: Daily milk production and utilisation per dairy farm per province

Province	Daily production	Delivered to market	On-farm use	% Delivered
Eastern Cape	12 016	11 841	175	98,5%
KwaZulu-Natal	11 585	11 366	219	98,1%
Western Cape	5 459	5 385	74	98,6%
Limpopo	5 336	5 270	66	98,8%
Free State	2 333	2 285	48	97,9%
Northern Cape	11 666	11 637	29	99,8%
Mpumalanga	3 175	3 123	52	98,4%
Gauteng	3 689	3 648	41	98,9%
North West	1 692	1 652	40	97,6%
National herd	6 652	6 549	103	98,5%

Average daily milk production per cow in milk per day is shown in Table 8.

Table 8: Average daily milk production per cow in milk per province, 2017

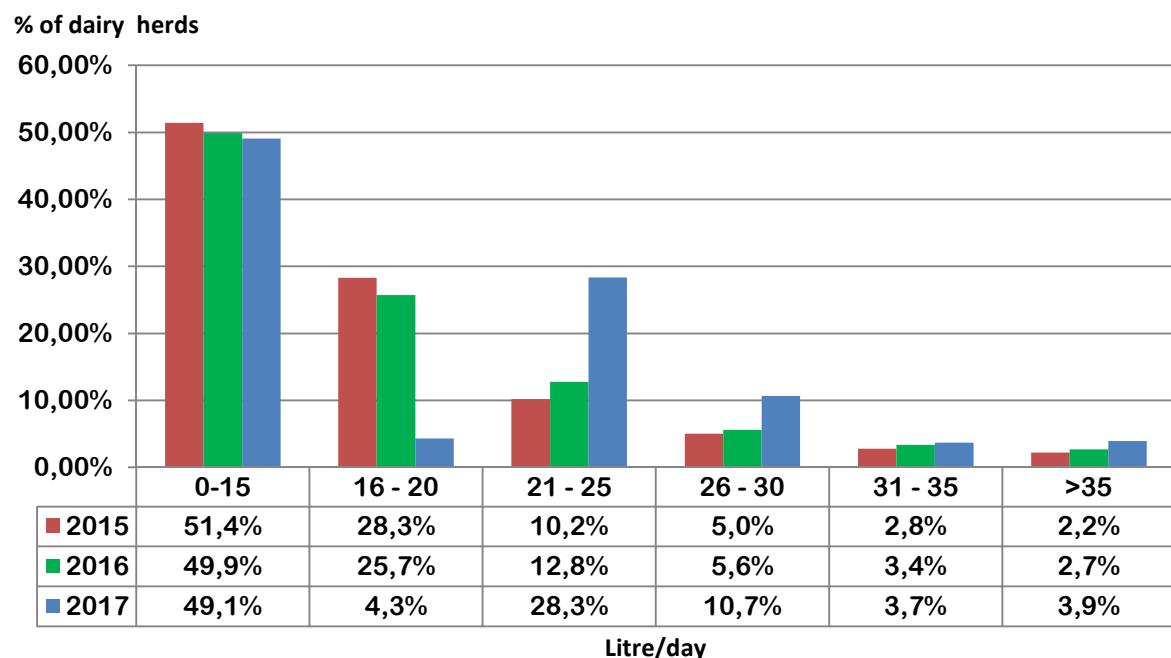
Province	Average Production l/cow/day
Eastern Cape	19,8
KwaZulu-Natal	19,5
Western Cape	20,3
Limpopo	27,9
Free State	19,7
Northern Cape	29,3
Mpumalanga	22,8
Gauteng	19,6
North West	19,4
National herd	20,0

The distribution of herds, based on average milk production per cow per day, is shown in Table 9 and Figure 4. Ninety per cent of the herds have an average daily production per cow in milk of less than 26 l.

Table 9: Herd distribution based on average production per cow in milk per day

Production/day (L)	% of herds 2015	% of herds 2016	% of herds 2017
0–15	51,4%	49,9%	49,1%
16–20	28,3%	25,7%	4,3%
21–25	10,2%	12,8%	28,3%
26–30	5,0%	5,6%	10,7%
31–35	2,8%	3,4%	3,7%
>35	2,2%	2,7%	3,9%

Figure 4: Herd distribution, based on average production per cow in milk per day, 2015–2017



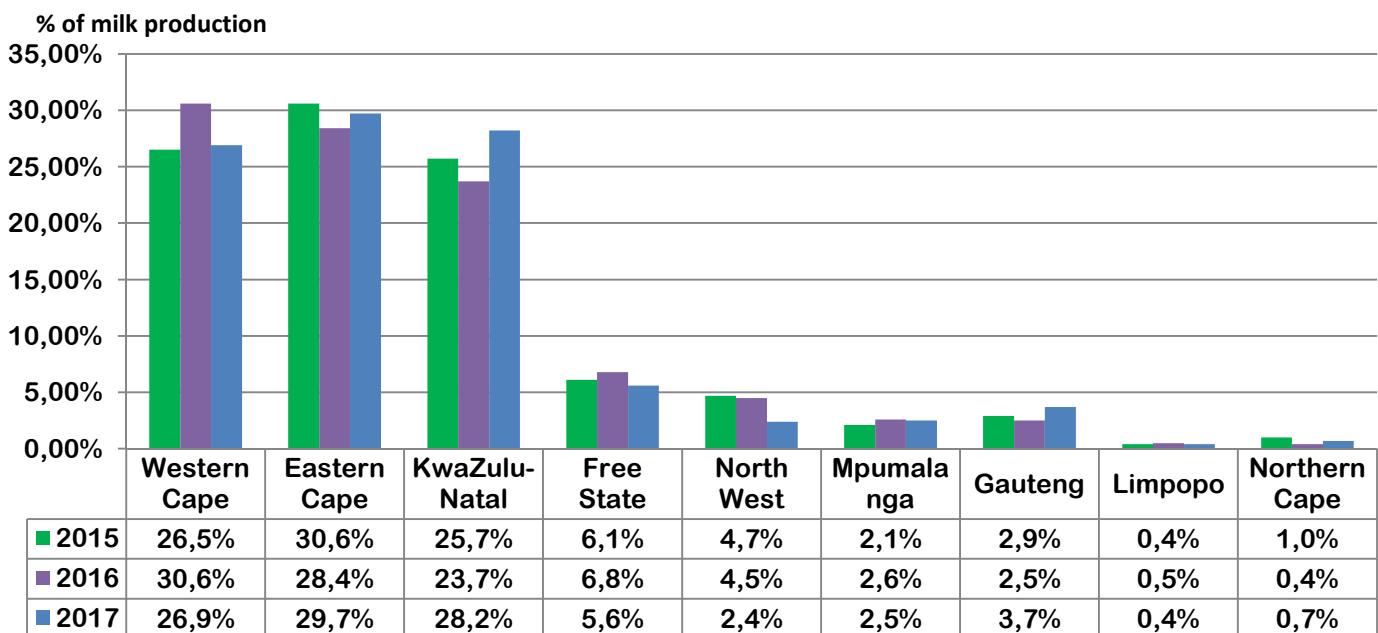
4. Geographical distribution of milk production

The geographical distribution of total milk production based on received questionnaires and on additional information received from milk processors is shown in Table 10 and Figure 5. More than 84% of total milk is produced in the three coastal provinces (2009 = 74%).

Table 10: Geographical distribution of milk production per province, 2015 – 2017

Province	2015	2016	2017
Western Cape	26,5%	30,6%	26,9%
Eastern Cape	30,6%	28,4%	29,7%
KwaZulu-Natal	25,7%	23,7%	28,2%
Free State	6,1%	6,8%	5,6%
North West	4,7%	4,5%	2,4%
Mpumalanga	2,1%	2,6%	2,5%
Gauteng	2,9%	2,5%	3,7%
Limpopo	0,4%	0,5%	0,4%
Northern Cape	1,0%	0,4%	0,7%
Total	100,0%	100,0%	100,0%

Figure 5: Milk production per province, 2015–2017



5. Geographical distribution of dairy cows

The geographical distribution of dairy cows (in milk and dry) per province is shown in Table 11. The cow distribution closely follows the distribution of total milk production. Total milking herd (cows in milk plus dry cows) is estimated at 615 000.

Table 11: Geographical distribution of dairy cows, 2017

Province	2017
Western Cape	26,9%
Eastern Cape	29,7%
KwaZulu-Natal	28,2%
Free State	5,6%
North West	2,4%
Mpumalanga	2,5%
Gauteng	3,7%
Limpopo	0,4%
Northern Cape	0,7%
Total	100,0%