

## Physical Report

**DairyBase Report for:** Lincoln University Dairy Farm (Farm ID: 420232)

**Farming Season:** 2024/25

**Report Benchmark:** District council (Selwyn)

**Date Printed:** 04/06/2026

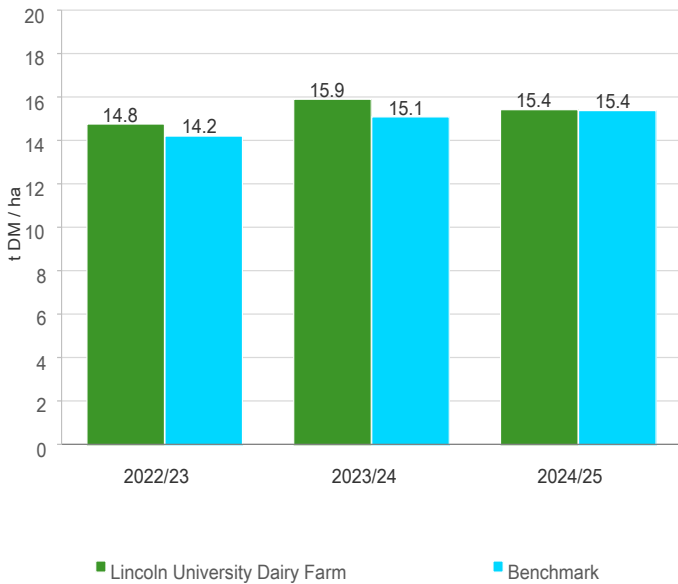
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**KPI Summary**

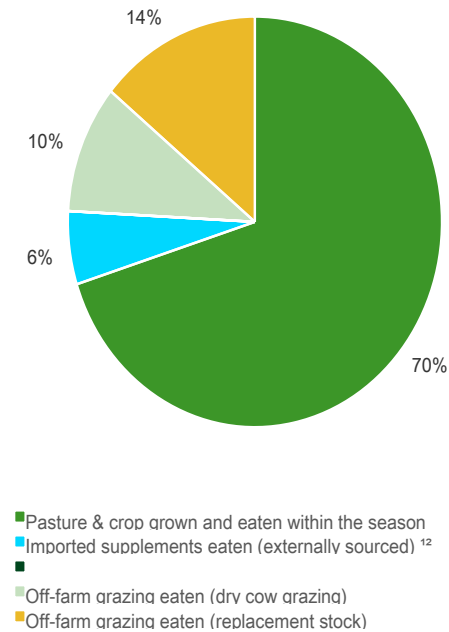
<b>Benchmark Group Selected:</b>	<b>District council: Selwyn</b>
<b>Number of farms in this benchmark group:</b>	<b>52 farms (benchmarks are the average of those 52 farms)</b>

**Feed (feed KPIs are based on 11.0 MJME/kg DM Pasture)**

**Pasture and Crop Harvested**  
(tonnes of dry matter per effective hectare)



**Source of feed eaten**  
(2024/25 season, 22 tDM eaten/ha)



Pasture & Crop	Units	2024/25		2023/24		2022/23	
		Farm	Benchmark	Farm	Benchmark	Farm	Benchmark
Pasture & crop grown and eaten within the season	t DM/ha	15.4	15.3	15.9	15.0	14.8	14.1
+ Pasture and crop exported <sup>11</sup>	t DM/ha	0.0	0.1	0.0	0.1	0.0	0.1
<b>= Pasture and crop harvested <sup>10</sup></b>	<b>t DM/ha</b>	<b>15.4</b>	<b>15.4</b>	<b>15.9</b>	<b>15.1</b>	<b>14.8</b>	<b>14.2</b>

Milk Solids Production (1 June to 31 May)	Units	2024/25		2023/24		2022/23	
		Farm	Benchmark	Farm	Benchmark	Farm	Benchmark
Milk solids per cow as % of liveweight	%	92%	85%	94%	97%	91%	92%

Replacements	Units	2024/25 (Farm)		2023/24 (Farm)		2022/23 (Farm)	
		Farm	Farm	Farm	Farm	Farm	Farm
Spring - Rqd replacement rate as % of opening cows <sup>22</sup>	%	20%	22%	22%	21%	21%	21%
Autumn - Rqd replacement rate as % of opening cows <sup>22</sup>	%						

People	Units	2024/25		2023/24		2022/23	
		Farm	Target	Farm	Target	Farm	Target
Cows milked/person/hour <sup>7</sup> :	cows/person/hour		200 <sup>29</sup>	240	200 <sup>29</sup>	232	200 <sup>29</sup>
kg milk solids per hour worked:	kg MS/hr	28	40 <sup>30</sup>	28	40 <sup>30</sup>	32	40 <sup>30</sup>

**Farm Description**

<b>Benchmark Group Selected:</b>	<b>District council: Selwyn</b>
<b># of farms in benchmark group:</b>	<b>52 farms (benchmarks are the average of those 52 farms)</b>

<b>Farm Details:</b>	
Region:	Canterbury
District council:	Selwyn
Dairy company(s) supplied:	Fonterra
Farm business type:	Owner operator
Farm system type:	3
Balance date (month):	May
Calving season:	Spring only
Milking interval:	Other, (3 times in 48 hours etc)
Winter milk:	No
Organic farm:	No
Milksolids for Production year:	257,815
Farm dairy type <sup>5</sup> :	R50
Number of rows/rotations per milking <sup>3</sup> :	11.6

<b>Land Area (ha):</b>		
	<u>Effective</u>	<u>Total</u>
Milking Platform:	160.0	167.5
Support Block:	65.0	65.0
Non-Dairy:	0.0	0.0
<b>Total area:</b>	<b>225.0</b>	<b>232.5</b>
Defined young stock area:	0.0	
Riparian planting area:	2.0	
Percentage of effective area at different height/altitude to farm dairy:	0.0%	

<b>Crops:</b>	
Farm area harvested for hay & silage (%):	13%
Farm area in grazed summer crop (ha):	0
Farm area in grazed winter crop (ha):	0
Farm area in harvest crop (ha):	0

<b>Stock:</b>		
	<u>Farm</u>	<u>Target</u>
Predominant dairy breed:	Crossbred	
Peak cows milked:	560	
Stocking rate (Cows/ha):	3.5	
Liveweight per hectare (kg):	1750	
Comparative stocking rate <sup>4</sup> :	75	75 - 85
Replacement calves reared:	104	

<b>People:</b>		
	<u>Farm</u>	<u>Target</u>
Unpaid management (FTE) <sup>6</sup> :	0.0	
Unpaid labour (FTE) <sup>6</sup> :	0.0	
Paid labour (FTE) <sup>6</sup> :	3.8	
Total FTEs <sup>6</sup> :	3.8	
Cows milked/person/hour <sup>7</sup> :		200 <sup>28</sup>
kg milksolids per hour worked:	28	40 <sup>30</sup>
Time per row/rotation (minutes) <sup>8</sup> :	0	< 9
		<u>Benchmark</u>
Cows/FTE <sup>6</sup> :	147	190

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**Validation Messages:**  
(none)

## Feed, Fertiliser, Irrigation and Environmental KPIs

<b>Benchmark Group Selected:</b>	<b>District council: Selwyn</b>
<b># of farms in benchmark group:</b>	<b>52 farms (benchmarks are the average of those 52 farms)</b>

**Feed (KPIs are based on 11.0 MJME/kg DM Pasture)**

Units	2024/25		2023/24		2022/23	
	Farm	Benchmark	Farm	Benchmark	Farm	Benchmark

**Feed reconciliation**

Total feed eaten	t DM/ha	22.0	20.3	22.5	23.1	21.3	21.4
- Off-farm grazing eaten: replacement stock	t DM/ha	3.1	1.5	2.3	2.6	3.0	2.5
- Off-farm grazing eaten: dry cow grazing	t DM/ha	2.2	1.9	1.9	2.5	2.0	2.1
- Imported supplements eaten (internally sourced) <sup>13</sup>	t DM/ha	0.0	0.1	0.0	0.0	0.0	0.2
- Imported supplements eaten (externally sourced) <sup>12</sup>	t DM/ha	1.3	1.4	2.4	3.0	1.6	2.5
= Pasture & crop grown and eaten within the season	t DM/ha	15.4	15.3	15.9	15.0	14.8	14.1
+ Pasture and crop exported <sup>11</sup>	t DM/ha	0.0	0.1	0.0	0.1	0.0	0.1
<b>= Pasture and crop harvested <sup>10</sup></b>	<b>t DM/ha</b>	<b>15.4</b>	<b>15.4</b>	<b>15.9</b>	<b>15.1</b>	<b>14.8</b>	<b>14.2</b>

Imported supplement eaten <sup>27</sup>	kg DM/cow	362	407	678	831	475	788
Imported supplement and grazing off eaten <sup>14</sup>	kg DM/cow	999	935	1,213	1,506	1,056	1,381
Average utilisation of imported supplements <sup>27</sup>	%	80%	79%	80%	81%	80%	79%

**Fertiliser and Soil Fertility**

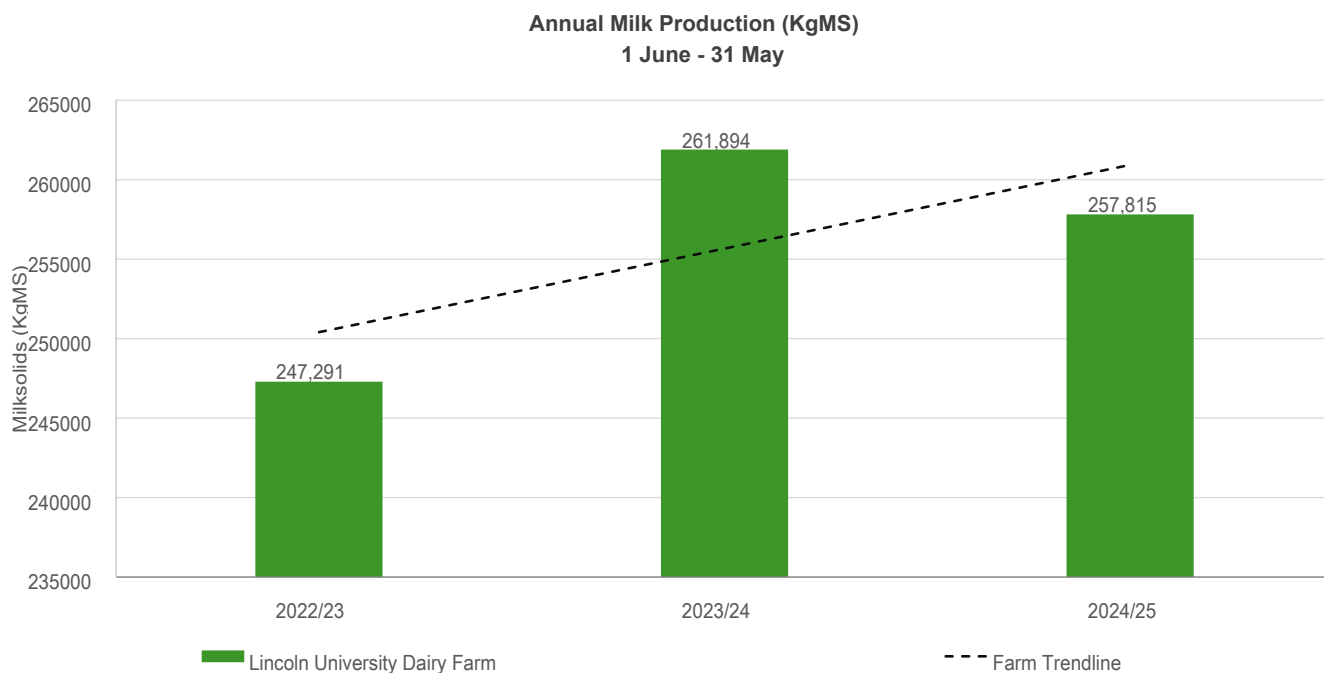
Nitrogen applied	kg/ha	174	165	182	161	170	157
Olsen P range		25 - 50	NB <sup>16</sup>	25 - 50	NB <sup>16</sup>	34	NB <sup>16</sup>
Phosphorus applied	kg/ha	38	33	36	17	28	25
Potassium applied	kg/ha	0	13	0	12	0	11
pH range		6 - 6.4	NB <sup>16</sup>	5.9 - 6.4	NB <sup>16</sup>	6 - 6.6	NB <sup>16</sup>
Lime applied	kg/ha	0	70	0	49	0	136

**Irrigation and Water**

Irrigation water applied annually	mm	341	6,685	426	458	132	312
Total area irrigated	ha	159	NB <sup>16</sup>	159	NB <sup>16</sup>	145	NB <sup>16</sup>
Percentage of milking platform irrigated	%	99%	98%	99%	98%	91%	97%
Types of irrigation on the farm		Centre pivot/lateral (125.7ha) K-line (10ha) Other (1ha) Centre pivot/lateral (22ha)		Centre pivot/lateral (125.7ha) K-line (10ha) Other (1ha) Centre pivot/lateral (22ha)		Centre pivot/lateral (125.7ha) K-line (9.5ha) Other (10.1ha)	

## Animal Performance & Health

<b>Benchmark Group Selected:</b>	District council: Selwyn
<b># of farms in benchmark group:</b>	52 farms (benchmarks are the average of those 52 farms)



Units	2024/25		2023/24		2022/23	
	Farm	Benchmark	Farm	Benchmark	Farm	Benchmark

**Production Summary (1 Jun - 31 May)**

	Units	2024/25 Farm	2024/25 Benchmark	2023/24 Farm	2023/24 Benchmark	2022/23 Farm	2022/23 Benchmark
Milksolids per cow	kg/cow	460	405	468	471	457	448
Milksolids (kg/cow) as % of cow liveweight	%	92%	85%	94%	97%	91%	92%
Milksolids per hectare	kg/ha	1,611	1,488	1,637	1,740	1,546	1,559
Days in milk per cow (Spring and/or Autumn herd)	days	269	NB <sup>16</sup>	271	NB <sup>16</sup>	274	NB <sup>16</sup>
Average milksolids production per cow per day	kg/cow/day	1.7	NB <sup>16</sup>	1.7	NB <sup>16</sup>	1.7	NB <sup>16</sup>

**Spring Herd Production**

	Units	2024/25 Farm	2024/25 Benchmark	2023/24 Farm	2023/24 Benchmark	2022/23 Farm	2022/23 Benchmark
Daily milksolids production for 10 days at peak <sup>17</sup>	kg/cow/day	2.1	2.1	2.1	2.1	2.1	2.1
Milksolids to 31 Dec as % of total milksolids	%	56%	60%	54%	54%	55%	53%
Monthly production drop from peak to 31 Dec	%	3%		8%		5%	

**Mastitis and Lameness**

(Target)

	Units	2024/25 Farm	2024/25 Benchmark	2023/24 Farm	2023/24 Benchmark	2022/23 Farm	2022/23 Benchmark
Antibiotic treatments for lameness <sup>24</sup>	<3% <sup>26</sup>	26%	4%	4%	5%	4%	5%
Antibiotic treatments for mastitis <sup>24</sup>	<8% <sup>26</sup>	16%	11%	21%	12%	12%	12%
Average bulk SCC ('000s)	<125,000 <sup>26</sup>	139	89	142	134	139	129

**Herd Breeding Worth and Production Worth**

	Farm on 05/06/25	Farm on 11/07/24	Farm on 18/03/23
BW/reliability <sup>25</sup>	328 / 54 LIC	305 / 51 LIC	211 / 51 LIC
PW/reliability <sup>25</sup>	360 / 77 LIC	352 / 64 LIC	259 / 77 LIC

## Calving & Mating

<b>Benchmark Group Selected:</b>	<b>District council: Selwyn</b>
<b># of farms in benchmark group:</b>	<b>52 farms (benchmarks are the average of those 52 farms)</b>

	Units	2024/25		2023/24		2022/23	
		Farm	Benchmark	Farm	Benchmark	Farm	Benchmark
<b>Spring Herd</b>							
<b>Reproduction (Spring Herd)</b>							
6-week in-calf rate (% from InCalf FFR) <sup>18</sup>	78% <sup>19</sup>	74%	70%	75%	72%	75%	70%
3-week submission rate (% from InCalf FFR) <sup>18</sup>	90% <sup>19</sup>	89%	52%	91%	83%	87%	81%
Not-In-Calf rate (% from InCalf FFR) <sup>18</sup>	22% * <sup>19</sup>	14%	14%	7%	11%	12%	14%
% calved by week 6 (% from InCalf FFR) <sup>18</sup>	88% <sup>19</sup>	93%	51%	91%	81%	94%	83%
Non-cycling cows treated (% from InCalf FFR) <sup>18</sup>	%	0%	2%	10%	4%	8%	5%
Length of AB period	weeks	12		12		13	
Length of total mating	weeks	0		12		0	
% of cows calving in Spring (vs Autumn)	%	100%	100%	100%	99%	100%	100%
Spring planned start of calving date	date	30 Jul		30 Jul		28 Jul	

<b>Required Replacement Rate (Spring Herd)</b>							
Opening cows <sup>20</sup>	% (N) <sup>23</sup>	100% (583)	NB <sup>16</sup>	100% (579)	NB <sup>16</sup>	100% (582)	NB <sup>16</sup>
- Cow deaths	% (N) <sup>23</sup>	3% (15)	NB <sup>16</sup>	3% (16)	NB <sup>16</sup>	4% (25)	NB <sup>16</sup>
- Cows culled	% (N) <sup>23</sup>	17% (100)	NB <sup>16</sup>	19% (109)	NB <sup>16</sup>	16% (95)	NB <sup>16</sup>
- Not-in-calf carryover cows on 31 May (spring only)	% (N) <sup>23</sup>	0% (0)	NB <sup>16</sup>	0% (0)	NB <sup>16</sup>	0% (0)	NB <sup>16</sup>
= Closing cows <sup>21</sup>	% (N) <sup>23</sup>	80% (468)	NB <sup>16</sup>	78% (454)	NB <sup>16</sup>	79% (462)	NB <sup>16</sup>
Required replacement rate as % of opening cows <sup>22</sup>	%	20%	NB <sup>16</sup>	22%	NB <sup>16</sup>	21%	NB <sup>16</sup>
Cows milked to 31 Dec as % of opening cows <sup>20</sup>	>93% <sup>26</sup>	96%	NB <sup>16</sup>	97%	NB <sup>16</sup>	93%	NB <sup>16</sup>

<b>Replacements (Spring Herd)</b>							
R1 heifers reared as % of opening cows <sup>20</sup>	%	18%	NB <sup>16</sup>	20%	NB <sup>16</sup>	25%	NB <sup>16</sup>
In-calf R2 heifers as % of opening cows <sup>20</sup>	%	22%	NB <sup>16</sup>	20%	NB <sup>16</sup>	23%	NB <sup>16</sup>
1st calvers in herd & in-calf at end of first lactation	>86% <sup>26</sup>	88%	60%	0%	82%	85%	67%
Heifer liveweight at 22 months as % of mature LW	90% <sup>26</sup>	105%	NB <sup>16</sup>	97%	NB <sup>16</sup>	93%	NB <sup>16</sup>

(Summary of notes for Excel physical report)

- 2 Supplements (silage/hay) made on the milking platform in previous seasons; fed to the herd in the current season (2024/25 season)
- 3 Number of rows/rotations per milking measured at the time of peak cows milked
- 4 Comparative stocking rate = kilograms of liveweight (per hectare) / tonne of feed offered (per hectare).
- 5 H= Herringbone, R= Rotary, O= Other. The number indicates the number of set of cups.
- 6 FTE = full time equivalent (1 FTE = 2,400 hours)
- 7 Number of cows milked per person per hour measured at the time of peak milksolids production (Milking time).
- 8 Time (in minutes) for each row (herringbone dairy) or rotation (rotary dairy) during milking, measured at the time of peak milksolids production.
- 9 This corresponds to irrigated hectares. Value is the sum of irrigation water applied annually (mm) and the rainfall (mm) entered for the farm. If the specific rainfall for the farm is not entered then the district annual rainfall is used.
- 10 Pasture and crop harvested is the amount of pasture and crop dry matter that has been grown on the milking platform and harvested by mouth (dairy cows) or machine.
- 11 Pasture and crop exported refers to pasture and crop supplements (hay and/or silage) made on farm in the current season but exported into next season (i.e. not eaten in the current season), or sold off the platform.
- 12 Imported supplements eaten (externally sourced) refers to supplements purchased or brought-in from support block and fed to the herd on the milking platform.
- 13 Imported supplements eaten (internally sourced) refers to feed made on farm in previous season eaten i.e. supplements made on the milking platform (hay/silage) in previous seasons, fed to the herd on the milking platform in the current season.
- 14 Imported supplement and grazing off eaten = supplements purchased or brought-in from support block + supplements made on farm in previous seasons fed in the current season + dry-cow grazing off.
- 15 Water comprises of irrigation water and rainfall water from September to April.
- 16 NB = this key performance indicator is not currently benchmarked.
- 17 Average daily milksolids production per cow (average of 10 days) during the peak period for milksolids production.
- 18 Percentage from InCalf Fertility Focus Report. Non-cycling cows treated refers to the percentage of cows that received their first non-cycling treatment within the first 3 weeks of mating.
- 19 Targets from InCalf Fertility Focus Report. The target for "Not-in-calf rate" varies according to the duration of mating (length of total mating in the most recent season) in weeks.
- 20 Opening cows refers to the number of in-calf cows and R2 heifers calving in spring at the start of the dairy season (i.e. 1 June). In the case of autumn-calving herds it is the number of in-calf cows and R2 heifers calving in autumn (1 Feb).
- 21 Closing cows refers to the number of cows on 31 May. In the case of autumn calving herds it is the number of cows at the end of the milking period (e.g. Jan-Feb).
- 22 Required replacement rate to maintain a stable herd size based on your opening and closing cow balances. Therefore, your actual replacement rate may vary if you are increasing or decreasing herd size.
- 23 % (N) = Percentage of the milking herd with number of cows indicated between parenthesis.
- 24 "Antibiotic treatments for lameness" and "Antibiotic treatments for mastitis" refer to the number of antibiotic treatments for lameness and mastitis, respectively, as a proportion of the herd.
- 25 Breeding worth (BW) and Production worth (PW) of herds in the top 25% for BW and PW, respectively, are as reported by NZAEL (<https://www.dairynz.co.nz/animal/animal-evaluation/animal-and-herd-averages/#category=herds>)  
The targets for "Cows milked to 31 Dec as % of opening cows", "1st calvers in herd & in-calf at end of first lactation", "Antibiotic treatments for lameness", "Antibiotic treatments for mastitis" and "Average bulk SCC ('000s)" are based on values of New Zealand owner operator farms in the top 10% for operating profit per hectare. The industry target for "Heifer liveweight at 22 months as % of mature LW" was obtained from <https://www.dairynz.co.nz/animal/heifers/liveweight-targets/>
- 26 Imported supplement refers to supplements imported from external sources (purchased/brought-in from support block) + supplements imported from within the farm (supplements made on farm in previous seasons fed to the herd in the current season)
- 27 Target is based on shed-type and number of bails. Targets for Rotary sheds: <40 bails = 150 cows/person/hour, 40+ bails = 200. Target for Herringbone sheds = 140. These targets represent what top farms are achieving with these shed-types.
- 28 Target is based on shed-type and number of bails. Targets for Rotary sheds: <40 bails = 28 kgMS per hour worked, 40+ bails = 40. Target for Herringbone sheds = 30. These targets represent what top farms are achieving with these shed-types.