

<b>Title</b>	<b>Develop, implement and monitor an on-farm mastitis management plan and develop procedure documents</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>25</b>

<b>Purpose</b>	<p>People credited with this unit standard are able to: identify on-farm mastitis risk factors, the economic cost of mastitis for a farm, and the dairy herd's current milk quality status; develop and benchmark on-farm mastitis management targets and objectives; develop action plans to achieve on-farm mastitis management objectives; implement, monitor, make recommendations to improve, and record results of an on-farm mastitis management action plan for a season; and develop procedure documents for on-farm mastitis management.</p>
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<b>Classification</b>	Agriculture > On-farm Milk Quality
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<b>Available grade</b>	Achieved
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### Guidance Information

- Legislation relevant to this unit standard includes but is not limited to – Health and Safety in Employment Act 1992, Animal Products Act 1999, Animal Welfare Act 1999, Food Act 1981, Agricultural Compounds and Veterinary Medicines Act 1997.
- Definitions**

*Targets* – Statement of Intent that relates to on-farm management of mastitis for a period of 1-5 years.

*Objectives* – components that collectively contribute to achieving targets.

*Action plan* – plan of actions to be taken to achieve objectives.

*On-farm procedures* – the oral and written procedures for the implementation of an on-farm mastitis management action plan, and the recording of results.
- Assessment**

For the purposes of assessment for element 4, the three months where the action plans are implemented must include either drying off or calving periods (as listed in the SAMM Plan).
- Industry Standards* refer to standards found in the following documents –

*NZCP-1, Code of Practice for the Design and Operation of Farm Dairies*, New Zealand Food Safety Authority, 2007, available at <http://www.nzfsa.govt.nz>.

*DPC 2: Animal Products (Dairy) Approved Criteria for Farm Dairies*, New Zealand Food Safety Authority, 2006, available at <http://www.nzfsa.govt.nz>.

*SAMM Plan Explanatory Booklet*, National Mastitis Advisory Committee, 2008, available at <http://www.dairynz.co.nz>.

*Managing Mastitis: A practical guide for New Zealand dairy farmers*, Livestock Improvement Corporation, available at <http://www.lic.co.nz>.

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## Outcomes and performance criteria

### Outcome 1

Identify on-farm mastitis risk factors, the economic cost of mastitis for a farm, and the dairy herd's current milk quality status.

#### Performance criteria

- 1.1 Mastitis risk factors are identified for a farm.
- Range evidence is required for at least five animal and five environmental risk factors.
- 1.2 The economic cost of mastitis is calculated for a farm.
- Range lost milk, lost production, treatments, culling, labour input, milk quality penalty.
- 1.3 Estimate of current production loss is benchmarked against national objectives for somatic cell count (SCC) specified in the SAMM Plan.
- 1.4 Documentation and data is interpreted to determine dairy herd's current milk quality status.
- Range herd test data, bulk tank somatic cell count (BTSCC), milk dockets, in-house records, SAMM plan, dairy factory guidelines.

### Outcome 2

Develop and benchmark on-farm mastitis management targets and objectives.

#### Performance criteria

- 2.1 Mastitis management targets and objectives developed are realistic for the resources available to the farm, and are specific and time-bound.
- 2.2 Mastitis management targets and objectives are aligned with overall agribusiness strategy and national objectives specified in the SAMM Plan.
- Range management targets relating to – BTSCC reduction, reduction of new infections, reduction of clinical mastitis.

**Outcome 3**

Develop action plans to achieve on-farm mastitis management objectives.

Range action plans for each of – late lactation, drying off, dry period, calving, colostrum herd, lactation herd.

**Performance criteria**

3.1 Action plans identify activities for each production objective.

3.2 Action plans identify responsibilities of people involved with mastitis management.

Range includes but is not limited to – veterinarian.

3.3 Action plans identify the timing of actions for each objective.

**Outcome 4**

Implement, monitor, make recommendations to improve, and record results of an on-farm mastitis management action plan for a season.

Range for at least three months.

**Performance criteria**

4.1 An action plan is implemented in accordance with on-farm procedures.

4.2 Monitoring of results of an action plan identifies any variations from objectives and targets.

4.3 Analysis determines reasons for any variations.

Range within management control, outside management control.

4.4 Recommendations, based on the results of analysis, are made to improve an action plan so that it contributes to achieving production objectives.

4.5 Results and recommendations are recorded in accordance with on-farm procedures.

**Outcome 5**

Develop procedure documents for on-farm mastitis management.

Range late lactation, drying off, dry period, calving, colostrum herd, lactation herd.

**Performance criteria**

5.1 Documented procedures comply with legislative and dairy company requirements.

5.2 Documented procedures are consistent with industry standards.

5.3 Documented procedures include a timeframe for their review.

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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 April 2009	31 December 2022
Review	2	27 January 2022	31 December 2022

#### Consent and Moderation Requirements (CMR) reference

0052

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.