



Proposed changes to the *Campylobacter* Performance Target and its application – Phase II

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Group

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Part V: Review of the Campylobacter Performance Target limits

Current requirements can be found in..... sectionssection heading, from Schedule 1 of the Animal Products (National Microbiological Database Specifications) Notice 2011.

Commented [JL1]: Gail and Peter to work on the proposed changes. Work up an options assessment document Gail.

Risk management questions

Background:

The *Campylobacter* Performance target limits (high count, moving window and quarterly median) were developed in 2007 by a review of the initial 6 months data from late March 2007 to October 2007.

The limits agreed with industry were derived from the 4th quarter 2006/2007 season results

	80th	90th	95th	98th	99.9th	max
4thQ 2007	4.16	4.79	5.35	5.96	7.04	7.40

The CPT moving window limit was determined by estimation from figures with the desired 80th percentile of 3.08 (1200 cfu/carcass) – the standard recommended by industry. Using these adjusted figures the 90.08 percentile with acceptance value of Ac= 3 greater than 3.78 (3/30), led to 3.78 being elected as the CPT limit.

The high count failure limit of 5.88 (from the 98th percentile of a fuller data set), and quarterly failure median limit of 4.16 were determined later in 2007.

The current 2010/2011 results are presented below:

	80th	90th	95th	98th	99.9th	max
4thQ 2007	4.16	4.79	5.35	5.96	7.04	7.40
Current 4Q10 and 1Q11	3.08	3.56	3.87	4.40	4.68	7.85

Note the 80th percentile is now in fact the original industry recommended value, and that the maximums are still very high.

Recommendations:

- As there are no limits for *E. coli* consideration could be given to completely removing the requirement for *E. coli* testing from both VLT and standard throughput. The disadvantage of this would be there would be no baseline industry data that could be fairly compared between industry members, to ensure industry was meeting basic microbiological requirements for hygienic slaughter and dressing.

Commented [JL2]: Consider E coli sampling as part of this section?? or separate?

Recommended changes to *Campylobacter* limits

Based on the latest two quarters of 2010/2011 figures, with three samples per week used to determine VLT, recommend the following limits:

Commented [JL3]: Into sampling part

CPT moving window limit of 3.56 log CFU/carcass (the current 90th percentile) to be applied;

The same for standard throughput: seven (7) or more per 45 samples in 3 successive processing periods, and VLT lowered to three (3) or more per nine samples in 3 successive processing periods (note the lower number of VLT samples per moving window – reduced from 15 to nine).

Commented [JL4]: Into sampling part

The ratings for MWFs remain the same for comparative purposes, and mindful of the practical aspects of the responses permitting industry time to undertake reviews and interventions.

Commented [JL5]: Into non-compliances and responses part

Weekly High Count Failure limit of 5.88 replaced with a **High Count alert limit of 4.40** log CFU/carcass (the current 98th percentile)

There would be no ratings for High Count alerts, just a flag to highlight a potential high risk for consumer situation.

The Quarterly Failure (QF) limit of the quarterly premises median exceeding 4.16 log CFU/carcass replaced by a **Quarterly Range Failure limit** where the difference between the minimum and maximum for the quarter exceeds **4.40**. This limit ensures premises with high counts are highlighted, focussing on reducing the microbiological loading of the pathogen on any one carcass.

A Quarterly Range failure would require a review by the CRT, along with company, and the CRT would elect to visit the company if required.

See accompanying table below to demonstrate the application of the new limits.

Premises	NMD #	Standard	Stdev	80th percentile	MAX	Min	Range > 4.40	number of times					High count alerts	
								resp 1	resp 2	resp 3	resp 4	resp 5		
Brinks South Island Limited (CCL/01)	NMD002	Standard	0.74	3.30	6.40	2.00	4.40	1	1					
Inghams Enterprises (NZ) Pty Limited (PPH8/01)	NMD008	Standard	0.57	2.78	5.05	2.00	3.05	all PASSES, no responses						
Tegel Foods Limited Henderson (PPH36/01)	NMD012	Standard	0.66	2.78	5.26	2.00	3.26	1	2					
Tegel Foods Limited New Plymouth (PPH26/01)	NMD013	Standard	0.71	3.00	5.47	2.00	3.47	3	2					
Turks Poultry Farm Limited (TURK475/01)	NMD014	Standard	0.51	2.30	4.64	2.00	2.64	2	1					
Tegel Foods Limited Christchurch (PPH16/01)	NMD016	Standard	0.84	3.46	7.85	2.00	5.85	2	4	3	2	3	2	
P H Van den Brink Ltd (PPH19/01)	NMD019	Standard	0.67	2.78	6.43	2.00	4.43*	1	2					
A&J Heron Holdings Ltd	NMD027	VLT	0.91	3.79	5.19	2.00	3.19	1	2	2	2			
VDB Industries Limited (VDB001/01)	NMD028	VLT	0.77	3.34	4.60	2.00	2.60	2	3	1				
Longview Poultry (LONGVIEW02/01)	NMD029	VLT	0.52	2.18	4.41	2.00	2.41	all PASSES, no responses						

VLT with three samples

* in this case had a number of results above 4.40 (98th) but didn't quite trip high count alerts

Current Limits applied since October 2010 to 2nd to last week of March (the 2010/11 season)

Premises	NMD #	Standard	Stdev	80th percentile	MAX	Min	Range	resp 1	resp 2	resp 3	resp 4	resp 5	HCF
Brinks South Island Limited (CCL/01)	NMD002	Standard	0.74	3.30	6.40	2.00	4.40	all PASSES, no responses					
Inghams Enterprises (NZ) Pty Limited (PPH8/01)	NMD008	Standard	0.57	2.78	5.05	2.00	3.05	all PASSES, no responses					
Tegel Foods Limited Henderson (PPH36/01)	NMD012	Standard	0.66	2.78	5.26	2.00	3.26	1	1				
Tegel Foods Limited New Plymouth (PPH26/01)	NMD013	Standard	0.71	3.00	5.47	2.00	3.47	2	2				
Turks Poultry Farm Limited (TURK475/01)	NMD014	Standard	0.51	2.30	4.64	2.00	2.64	all PASSES, no responses					
Tegel Foods Limited Christchurch (PPH16/01)	NMD016	Standard	0.84	3.46	7.85	2.00	5.85	3	2				
P H Van den Brink Ltd (PPH19/01)	NMD019	Standard	0.67	2.78	6.43	2.00	4.43	all PASSES, no responses					
A&J Heron Holdings Ltd	NMD027	VLT	0.95	3.79	5.42	2.00	3.42	1	2	2	2	2	
VDB Industries Limited (VDB001/01)	NMD028	VLT	0.75	3.31	4.60	2.00	2.60	all PASSES, no responses					
Longview Poultry (LONGVIEW02/01)	NMD029	VLT	0.51	2.3	4.41	2.00	2.41	all PASSES, no responses					

VLT with five samples

Note that no premises exceeded the 4.16 quarterly median failure eight had medians of 2.00 and NMD016 2.60, NMD027 3.56