

## APPENDIX A.

**Table 10. Bedding bacterial organism means by heat index, temperature range and humidity range.**

Item <sup>1</sup>	Heat Index Range					SE	Outside temperature range					SE	Outside humidity range					SE	
	1	2	3	4	5		1	2	3	4	1		2	3	4	5			
Coliform Bacteria																			
EColi	5.7 <sup>c</sup>	6.19 <sub>b</sub>	5.86 <sub>b</sub>	7.29 <sub>a</sub>	7.38 <sup>a</sup>	0.2 1	6.12 <sup>b</sup>	6.33 <sub>b</sub>	6.64 <sub>a</sub>	6.83 <sub>a</sub>	0.1 4	5.02 <sub>d</sub>	5.75 <sup>c</sup>	6.56 <sub>b</sub>	6.8 <sup>b</sup>	8.29 <sub>a</sub>	0.16		
Klebsiella	5.96 <sup>b</sup>	5.98 <sub>b</sub>	5.89 <sup>b</sup>	6.95 <sub>a</sub>	6.27 <sup>a</sup>	0.2 8	5.48 <sup>c</sup>	5.97 <sub>c</sub>	6.51 <sub>b</sub>	6.87 <sub>a</sub>	0.1 7	.	.	.	.	.	.	.	.
Other Bacteria																			
Gram negative bacillus	5.44	5.66	5.61	6.31	5.89 <sup>a</sup>	0.2 3	5.58 <sup>b</sup>	5.54 <sub>b</sub>	5.81 <sub>b</sub>	6.2 <sup>a</sup>	0.1 9	4.88 <sub>d</sub>	4.91 <sup>d</sup>	5.5 <sup>c</sup>	6.35 <sub>b</sub>	7.27 <sub>a</sub>	0.27		
Gram positive bacillus	6.35 <sup>b</sup>	6.01 <sub>c</sub>	6.56 <sup>a</sup>	7.34 <sub>a</sub>	5.37 <sup>c</sup>	0.2 6	5.89 <sup>b</sup>	5.98 <sub>b</sub>	6.76 <sub>a</sub>	6.69 <sub>a</sub>	0.2 4	5.01 <sup>c</sup>	6.27 <sup>b</sup>	7.51 <sup>a</sup>	7.34 <sub>a</sub>	5.49 <sub>c</sub>	0.35		
Total CFU Streptococcus	6.64	6.63	6.77	6.91	6.84	0.1 5	6.6	6.77	6.83	6.84	0.1 6	4.87 <sup>e</sup>	6.41 <sup>d</sup>	7.02 <sup>c</sup>	7.54 <sub>b</sub>	7.94 <sub>a</sub>	0.15		
Total CFU Staphylococcus	7.22 <sup>b</sup>	7.14 <sub>b</sub>	7.28 <sup>b</sup>	8.00 <sub>a</sub>	7.56 <sup>a</sup>	0.1 7	7.28	7.43	7.51	7.55	0.1 9	4.93 <sub>d</sub>	7.11 <sup>c</sup>	8.08 <sup>b</sup>	8.43 <sub>a</sub>	8.64 <sub>a</sub>	0.22		
Total CFU Coliforms	5.91 <sup>b</sup>	6.01 <sub>b</sub>	5.98 <sup>b</sup>	7.1 <sup>a</sup>	7.13 <sup>a</sup>	0.1 5	5.89 <sup>b</sup>	6.2 <sup>b</sup>	6.7 <sup>a</sup>	6.92 <sub>a</sub>	0.1 7	4.97 <sup>e</sup>	5.65 <sup>d</sup>	6.75 <sup>c</sup>	7 <sup>b</sup>	7.77 <sub>a</sub>	0.22		
Total CFU Other Bacteria	6.88	6.91	6.99	7.32	6.63	0.1 9	7.12	6.82	6.83	7	0.2 2	5.4 <sup>d</sup>	6.56 <sup>c</sup>	7.29 <sup>b</sup>	7.63 <sub>a</sub>	7.85 <sub>a</sub>	0.17		
TOTAL CFU	8.27	8.36	7.95	7.8	7.21	0.6 2	7.78	7.68	7.92	8.31	0.3 2	4.27 <sup>c</sup>	8.16 <sup>b</sup>	8.94 <sup>a</sup>	8.83 <sub>a</sub>	9.4 <sup>a</sup>	0.41		

<sup>a,b</sup> Means within row with different superscript letter differ (P < 0.05).

<sup>1</sup> All data presented in Log10 format