

Table S9. Unconditional least square means estimated bacterial counts for different groups of bacteria, in farms using straw vs. recycled manure solids (RMS) bedding.

Bacterial group	Status	RMS		Straw	
		Log CFU/g*	95% CI	Log CFU/g*	95% CI
Total mesophilic flora	Unused	8.0 ^a	7.7, 8.3	7.0 ^b	6.8, 7.2
	Used	9.5 ^c	9.2, 9.8	8.6 ^d	8.4, 8.8
Staphylococci	Unused	5.3 ^a	5.0, 5.7	3.0 ^b	2.8, 3.2
	Used	6.9 ^c	6.6, 7.3	7.0 ^c	6.7, 7.2
Streptococci	Unused	5.1 ^a	4.6, 5.6	3.3 ^b	3.0, 3.7
	Used	6.3 ^c	5.8, 6.8	7.3 ^d	6.9, 7.6
<i>E. coli</i>	Unused	4.5 ^a	4.2, 4.8	2.2 ^b	2.0, 2.4
	Used	5.4 ^c	5.1, 5.7	4.5 ^a	4.3, 4.6
<i>Klebsiella</i> spp.	Unused	3.8 ^a	3.4, 4.2	5.2 ^b	4.9, 5.4
	Used	5.3 ^{b, c}	4.9, 5.7	5.6 ^c	5.4, 5.9

* Least square mean estimate

^{a, b, c, d} For a given bacterial group, estimates within a row or column with different superscripts were considered to be statistically different (P -value < 0.05) after adjusting for multiple comparison using the Tukey-Kramer adjustment.