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Animal Production Science

Supplementary Material

Technical and economic analysis, and benchmarking associated with dairy farms in Minas Gerais, Brazil

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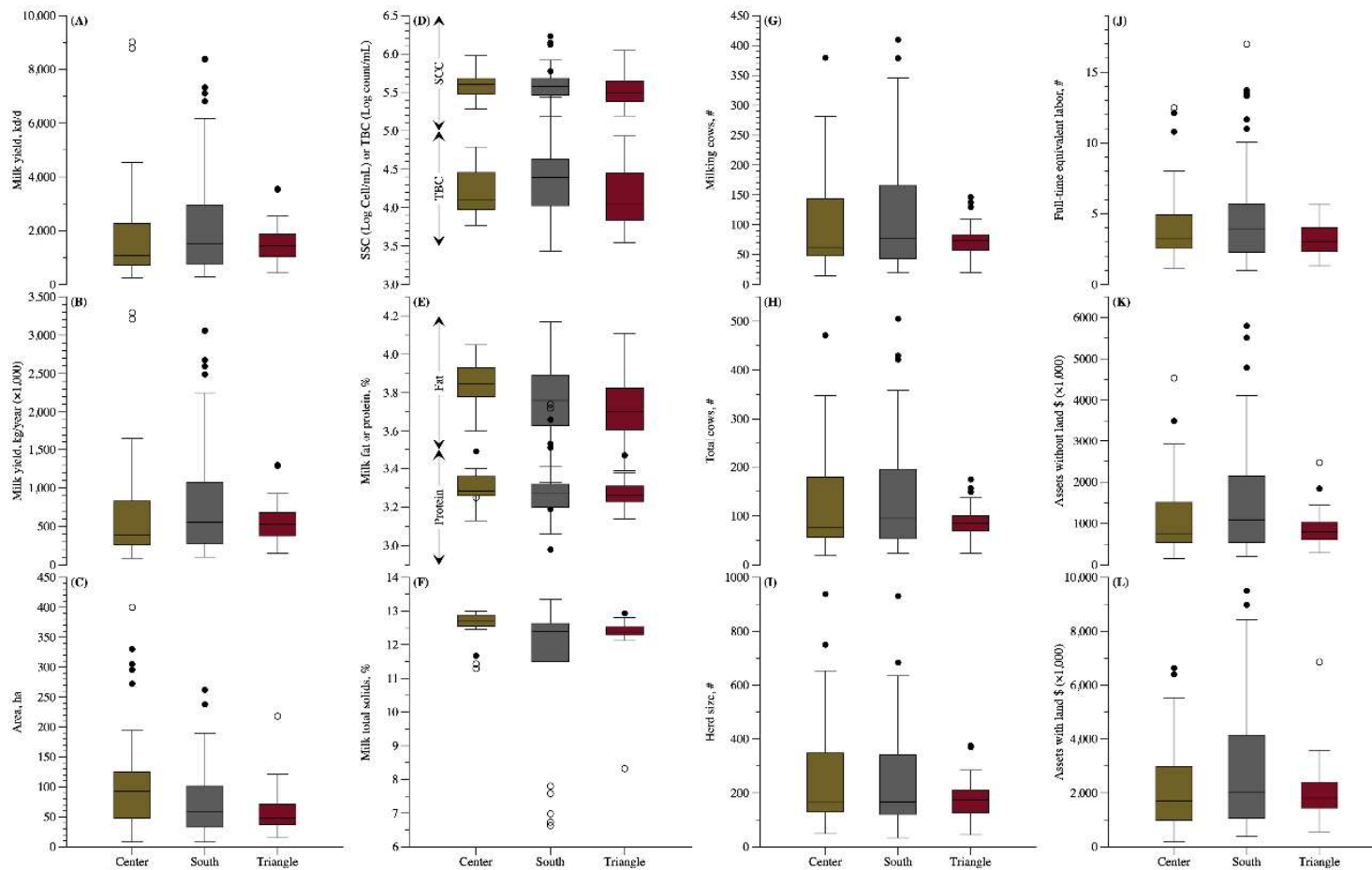
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Supplementary Table S1. Production costs of dairy farms in Center, South, and Triangle regions and First quartile, Interquartile, and Fourth quartile.

Item	Region			Quartile			SEM	P-value		
	Center	South	Triangle	First	Interquartile	Fourth		Region	Quartile	R×Q
Concentrate (\$/L)	0.093	0.096	0.098	0.094	0.098	0.095	0.004	0.326	0.329	0.122
Roughage (\$/L)	0.029b	0.038a	0.039a	0.040a	0.035b	0.032b	0.002	0.001	0.032	0.591
Medicine (\$/L)	0.011	0.010	0.009	0.011	0.010	0.009	0.001	0.465	0.164	0.163
Sundry (\$/L)	0.069	0.072	0.068	0.082a	0.067b	0.061c	0.007	0.327	<.001	0.114
Hired labor (\$/L)	0.033a	0.028a	0.017b	0.030a	0.026ab	0.021b	0.005	0.001	0.095	0.140
Family labor (\$/L)	0.008b	0.010b	0.015a	0.011	0.011	0.010	0.005	0.037	0.789	0.136
Depreciation (\$/L)	0.017	0.018	0.014	0.023a	0.015b	0.010c	0.001	0.107	<.001	0.196
TOC (\$/L)	0.239ab	0.246a	0.232b	0.265a	0.236b	0.217c	0.014	0.078	<.001	0.193
AOC (\$/L)	0.265b	0.274a	0.263b	0.302a	0.262b	0.239c	0.009	0.060	<.001	0.143
Concentrate in AOC (%)	36.213ab	35.185b	38.411a	31.813c	37.507b	40.489a	1.128	0.075	<.001	0.557
Roughage in AOC (%)	11.093b	14.061a	15.067a	13.128	13.387	13.707	0.732	0.001	0.858	0.747
Medicine in AOC (%)	4.099	3.484	3.639	3.641	3.784	3.797	0.396	0.312	0.895	0.130
Sundry in AOC (%)	25.567	26.026	25.217	27.051a	25.240b	24.519b	1.671	0.638	0.055	0.145
Hired Labor in AOC (%)	13.110a	10.524b	6.426c	11.944a	9.412b	8.794b	1.368	<.001	0.035	0.117
Family Labor in AOC (%)	3.164	4.007	5.197	4.011	4.242	4.117	1.964	0.104	0.968	0.115
Depreciation in AOC (%)	6.451	6.399	5.540	7.585a	6.090b	4.715c	0.513	0.220	0.001	0.201

TOC = total operating cost; AOC = accrual operating cost; SEM = standard error mean.



Supplementary Fig S1. Median of descriptive data of dairy farms by regions (Center, South and Triangle). Milk yield, kg/d (A), Milk yield, kg/d (x 1,000; B), Area, ha (C), SCC, Log cell/mL or TBC, Log count/ mL (D), Milk fat or protein, % (E), Milk total solids, % (F), Milking

cows, # (**G**), Total cows, # (**H**), Herd size, # (**I**), Full time equivalent labor, # (**J**), Assets with land, \$ (x 1,000; **K**), and Assets without land, \$ (x 1,000; **L**).