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Supplemental Table 1. Influence of the count of positive days on DMI, milk yield, milk fat, milk protein, and pregnancy rate

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Table 1. Influence of the count of positive days on DMI, milk yield, milk fat, milk protein, and pregnancy rate (* = $P \leq 0.10$, all intercepts significant)

Response	Average daily nutrient deviation					BIC
	Intercept	Devstarch	Devfat	DevNDF	DevPro	
DMI	-	-	-	-	-	-
DMI	18.2 (1.82)		-0.0685*(0.01919)			277.0
DMI*	15.6 (2.02)			0.0358 (0.02395)		284.8
DMI*	15.4 (2.05)				0.0441 (0.02687)	284.7
DMI	18.0 (1.81)	-0.0232 (0.02087)	-0.0384 (0.03158)			278.0
DMI	17.6 (1.79)	-0.0577*(0.01798)		0.0166 (0.01200)		306.3
DMI	17.2 (1.78)	-0.0483* (0.01265)			0.0211* (0.009418)	275.3
DMI	-	-	-	-	-	-
DMI	-	-	-	-	-	-
DMI	-	-	-	-	-	-
DMI	17.8 (1.83)	-0.0472* (0.02852)	-0.0160 (0.03595)	0.0135 (0.01211)		279.1
DMI	17.4 (1.83)	-0.0421* (0.02181)	-0.0115 (0.03292)		0.0192* (0.01010)	277.3
DMI	-	-	-	-	-	-

DMI	-	-	-	-	-	-
DMI	-	-	-	-	-	-
Milk yield*	31.2 (2.51)	0.0273 (0.01698)				340.8
Milk yield*	31.2 (2.44)		0.0266 (0.02303)			342.0
Milk yield*	31.8 (2.52)			0.00139 (0.01726)		343.0
Milk yield*	31.4 (2.55)				0.0201 (0.02070)	342.5
Milk yield*	31.4 (2.42)	0.0894* (0.02822)	-0.0758* (0.03692)			341.7
Milk yield*	31.4 (2.50)	0.0486* (0.02110)		-0.0298 (0.02202)		340.7
Milk yield*	31.1 (2.54)	0.0256 (0.01928)			0.00507 (0.02266)	342.9
Milk yield*	31.3 (2.56)		0.0316 (0.02599)	-0.0083 (0.01872)		343.8
Milk yield*	31.1 (2.58)		0.0227 (0.02615)		0.00919 (0.02338)	343.8
Milk yield*	30.8 (2.56)			-0.0687 (0.03080)	0.109 (0.03895)	341.6
Milk yield*	31.3 (2.40)	0.0976* (0.02798)	-0.0997* (0.03878)	0.0186 (0.02003)		343.2
Milk yield*	31.4 (2.43)	0.0867* (0.02836)	-0.0778* (0.04002)		0.00687 (0.02645)	343.8
Milk yield*	30.6 (2.45)	0.0246 (0.01796)		-0.0661* (0.03052)	0.0891* (0.03919)	342.0
Milk yield*	30.6 (2.59)		0.0178 (0.02337)	-0.0650* (0.03113)	0.0952 (0.04092)	343.2
Milk yield	-	-	-	-	-	-

ECM yield*	35.2 (2.38)	0.0266 (0.02182)				367.1
ECM yield*	36.2 (2.51)		-0.0130 (0.03552)			365.8
ECM yield	36.6 (2.51)			-0.0260 (0.01826)		366.3
ECM yield*	36.6 (2.45)				-0.0260 (0.02308)	366.8
ECM yield	-	-	-	-	-	-
ECM yield*	35.6 (2.78)	0.0687 (0.03660)		-0.0566* (0.03340)		369.3
ECM yield*	35.5 (2.74)	0.0585 (0.03704)			-0.0425 (0.03697)	370.5
ECM yield	36.6 (2.57)		-0.0028 (0.03382)	-0.0248 (0.02201)		368.4
ECM yield*	35.90 (2.53)		-0.0235 (0.03710)		0.0227 (0.02478)	367.4
ECM yield	36.5 (2.54)			-0.0289 (0.03528)	0.00403 (0.04349)	368.4
ECM yield*	36.7 (2.49)	0.145* (0.0328)	-0.143* (0.0427)	-0.0421* (0.02086)		361.3
ECM yield*	36.8 (2.42)	0.148* (0.0340)	-0.159* (0.0441)		-0.0309 (0.02236)	362.1
ECM yield*	35.5 (2.83)	0.0677* (0.03709)		-0.0649 (0.05355)	0.0108 (0.05877)	371.3
ECM yield	36.6 (2.58)		-0.0022 (0.03350)	-0.0274 (0.03663)	0.00345 (0.04352)	370.4
ECM yield*	36.8 (2.5085)	0.147* (0.0331)	-0.144* (0.0428)	-0.0341 (0.02928)	-0.0111 (0.03012)	363.2
Milk fat (%)*	4.36 (0.167)	-0.00438*				-215.5
		(0.001952)				

Milk fat (%)*	4.37 (0.169)		-0.00517*			-233.9
			(0.002283)			
Milk fat (%)*	4.33 (0.168)			-0.00350*		-232.4
				(0.001818)		
Milk fat (%)*	4.27 (0.151)				-0.00122 (0.002191)	-218.3
Milk fat (%)*	4.38 (0.168)	-0.00200 (0.002801)	-0.00333 (0.003442)			-232.3
Milk fat (%)	-	-	-	-	-	-
Milk fat (%)*	4.37 (0.166)	-0.00291 (0.002314)			-0.00202 (0.002435)	-232.0
Milk fat (%)*	4.38 (0.170)		-0.00415 (0.002781)	-0.00142 (0.002177)		-232.2
Milk fat (%)*	4.38 (0.169)		-0.00382 (0.003058)		-0.00181 (0.002630)	-232.3
Milk fat (%)*	4.35 (0.167)			-0.00110 (0.003314)	-0.00308 (0.003626)	-230.9
Milk fat (%)	-	-	-	-	-	-
Milk fat (%)*	4.38 (0.168)	-0.00154 (0.002861)	-0.00272 (0.003752)		-0.00139 (0.002668)	-230.4
Milk fat (%)*	4.37 (0.166)	-0.00289 (0.002333)		-0.00098 (0.003291)	-0.00115 (0.004045)	-230.0
Milk fat (%)*	4.38 (0.170)		-0.00377 (0.003061)	-0.00059 (0.003305)	-0.00131 (0.004008)	-230.2
Milk fat (%)*	4.39 (0.168)	-0.00158 (0.002905)	-0.00262 (0.003781)	-0.00070 (0.003332)	-0.00079 (0.004134)	-228.4
Milk protein (%)	-	-	-	-	-	-

Milk protein (%)	-	-	-	-	-	-
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)*	3.32 (0.173)				0.001711 (0.001236)	-308.4
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)*	3.37 (0.414)	-0.00511 (0.001328)			0.004823 (0.001391)	-312.7
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)*	3.36 (0.170)		-0.00265 (0.001894)		0.002796* (0.001544)	-308.0
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)	-	-	-	-	-	-
Milk protein (%)*	3.35 (0.418)		-0.00270 (0.001919)	0.002814 (0.002135)	0.000452 (0.002340)	-300.0
Milk protein (%)*	3.35 (0.183)	-0.00666* (0.001674)	0.003114 (0.002290)	0.001207 (0.001970)	0.002887 (0.002133)	-318.0

Fat yield (kg)*	1.32 (0.110)	0.000802*				-277.8
		(0.001477)				
Fat yield (kg)	-	-	-	-	-	-
Fat yield (kg)	1.29 (0.106)			0.002015 (0.001250)		-278.5
Fat yield (kg)*	1.31 (0.110)				0.001241*	-277.9
					(0.001519)	
Fat yield (kg)*		0.004489*	-0.00576*			-277.8
	1.37 (0.0987)	(0.002202)	(0.002846)			
Fat yield (kg)	-	-	-	-	-	-
Fat yield (kg)*		0.000495 (0.001648)			0.000953 (0.001720)	-275.9
	1.30 (0.113)					
Fat yield (kg)	-	-	-	-	-	-
Fat yield (kg)	-	-	-	-	-	-
Fat yield (kg)*				0.000356*	-0.00008*	-275.3
	1.33 (0.095)			(0.001751)	(0.002007)	
Fat yield (kg)*	-	-	-	-	-	-
	-					

Fat yield (kg)	-	-	-	-	-	-
Fat yield (kg)	-	-	-	-	-	-
Fat yield (kg)	-	-	-	-	-	-
Fat yield (kg)	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	1.07 (0.096)	-0.00093 (0.000609)		0.000859 (0.000559)		-311.1
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	-	-	-	-	-	-

Protein yield (kg)*	-	-	-	-	-	-
Protein yield (kg)*	1.08 (0.064)	0.000184 (0.001229)	-0.00111 (0.001579)		0.000356 (0.000824)	-341.6
Protein yield (kg)*	1.05 (0.068)	0.000704 (0.001003)		-0.00084 (0.001511)	0.000552 (0.001655)	-341.9
Protein yield (kg)	-	-	-	-	-	-
Protein yield (kg)	-	-	-	-	-	-
Preg rate*	18.6 (3.93)	0.0665 (0.12520)				546.4
Preg rate*	18.1 (3.81)		0.0922 (0.1210)			543.1
Preg rate*	25.5 (3.78)			-0.206* (0.1182)		545.8
Preg rate*	23.3 (4.31)				-0.117 (0.1411)	545.2
Preg rate*	18.4 (4.08)	-0.0525 (0.20340)	0.134 (0.1968)			545.1
Preg rate*	21.7 (4.54)	0.187 (0.1521)		-0.245 (0.1642)		543.6
Preg rate*	21.9 (4.36)	0.306 (0.1641)*			-0.369 *(0.1871)	544.7
Preg rate*	19.9 (4.13)		0.326 (0.1559)*	-0.300 (0.1672)		544.2
Preg rate	21.7 (4.34)		0.385 (0.1635)*		-0.420 (0.1879)*	541.2
Preg rate*	25.3 (4.36)			-0.233 (0.2446)	0.0326 (0.29180)	547.8
Preg rate*	22.1 (4.99)	-0.176 (0.2058)	0.292 (0.2081)	-0.173 (0.1473)		552.4
Preg rate	21.2 (4.40)	0.163 (0.2033)	0.294 (0.2007)		-0.478* (0.1979)	542.7

Preg rate*	22.7 (4.57)	0.308* (0.1656)		-0.0269 (0.21830)	-0.376 (0.2660)	544.0
Preg rate*	21.1 (4.21)		0.444 (0.1643)*	-0.0959 (0.21030)	-0.356 (0.2495)	544.8
Preg rate*	22.5 (4.76)	-0.149 (0.2043)	0.307 (0.2384)	-0.0998 (0.21480)	-0.1281 (0.21860)	552.9
Feed conversion ratio*	1.95 (0.361)	0.0118* (0.00330)				-21.8
Feed conversion ratio*	1.94 (0.363)		0.0128 (0.00358)*			-16.7
Feed conversion ratio*	2.05 (0.352)			0.00842* (0.00293)		-18.3
Feed conversion ratio*	2.13 (0.383)				0.004937 (0.003665)	-16.1
Feed conversion ratio*	1.95 (0.409)	0.0149* (0.00548)	-0.00312 (0.00688)			-36.0
Feed conversion ratio*	1.93 (0.358)	0.00943* (0.004100)		0.00341 (0.003473)		-20.5
Feed conversion ratio*	1.97 (0.364)	0.0141* (0.00406)			-0.00299 (0.003752)	-20.2
Feed conversion ratio	-	-	-	-	-	-
Feed conversion ratio*	1.94 (0.362)		0.00995* (0.005102)		0.002748 (0.004342)	-15.0
Feed conversion ratio*	2.19 (0.350)			0.0189 (0.00407)	-0.0160 (0.00470)	-18.4
Feed conversion ratio	-	-	-	-	-	-
Feed conversion ratio*	2.19 (0.374)	0.0223* (0.00503)	-0.0173* (0.00657)	-	-0.00317 (0.003779)	-20.7
Feed conversion ratio*	1.99 (0.355)	0.0115* (0.00363)		0.0129 (0.00418)	-0.0139 (0.00423)	-24.2
Feed conversion ratio*	1.94 (0.358)		0.0114* (0.00392)	0.0162* (0.00434)	-0.0142 (0.00461)	-19.4
Feed conversion ratio*	2.88 (0.357)	0.0201* (0.00441)	-0.0188* (0.00564)	0.0145* (0.00389)	-0.0178* (0.00366)	-25.7

