

TABLE 2

Opportunity table: efficiency indicators and the threshold values beyond which farms risk exceeding feasible balances. Blue cells are indicators that exceed the threshold values.

Indicator to predict likelihood of exceeding feasible balances		Example Farm 2016			High risk of exceeding the feasible balances if ...		
		N	P	K	N	P	K
1	Balance per acre (lbs/acre)	106	13	29	> 105	> 12	> 37
2	Balance per cwt milk (lbs/hundredweight milk)	1.09	0.14	0.30	> 0.88	> 0.11	> 0.30
3	Milk per cow (lbs/cow/year)	25575			-	< 20000	-
4	Animal density (animal units/acre)	0.8			-	> 1.0	-
5	Whole-farm nutrient use efficiency (%)	38	45	45	< 44	< 51	< 39
6	Purchased feed (lbs/acre)	107	19	35	> 121	> 20	> 38
7	Feed (tons dry matter/animal unit)	3.7			-	3.5 to 7.5	-
8	Feed use efficiency (milk, %)	28	31	19	< 20	< 25	< 11
9	Homegrown feed (% dry matter)	58			-	< 62-65	-
10	Homegrown forage (%)	40			-	-	-
11	Homegrown grain (%)	23			-	-	-
12	Homegrown nutrients (% dry matter)	41	34	59	< 50	< 50	-
13	Crude protein (CP) and P in all feed (%)	20	0.50	1.51	> 17	> 0.40	-
14	CP and P in purchased feed (%)	28	0.79	1.47	> 30	> 0.60	-
15	CP in homegrown feed (%)	14.5			< 11.8	-	-
16	Fertilizer (lbs/acre)	64	6	18	> 39	> 6	> 38
17	Crop exports (lbs/acre)	11	1	8	< 1	< 1	< 1
18	Manure exports (lbs/acre)				< 1	< 1	< 1
19	Overall crop yield (tons dry matter/acre)	3.3					
20	Acres receiving manure (%)	78					
21	Land in legumes with manure (%)	21					