

Table 3. Comparison of beef cattle excretion (lb/finished animal) for two methods of estimating excretion and variations in feed characteristics and animal performance.

Source	Dry Matter Intake (lb)	% Crude Protein	% P	Dry Matter Digestibility (%)	Feed Efficiency (feed/gain) and Days to Finish	Excretion (lb/finished animal)			Take Home Message
						N	P	TS	
Typical or Average Excretion									
A. New ASABE	19.7	13.3	0.31	80	6.3 / 153	55	7.0	770	Old standard overestimated P and solids excretion
B. Old ASAE	--	--	--	--	--	51	13.7	1280	
Changes in feed characteristics while all other assumptions remain constant									
C. New ASABE	19.7	12.5	0.25	80	6.3 / 153	51	5.3	770	Excess ration protein and P produce high N & P excretion
D. New ASABE	19.7	18.7	0.50	80	6.3 / 153	82	12.8	770	
Changes in feed efficiency and feed characteristics									
E. New ASABE	19.7	12.5	0.25	80	5.69 / 138	46	4.6	710	Typical range of nutrient excretion by beef cattle
F. New ASABE	19.7	18.7	0.50	80	6.95 / 168	157	14.3	860	

1. All assumptions are held constant with exception of days to finish. High and low feed efficiency scenarios assume feeding period of 138 and 168 days to market weight, respectively.

Caution – In practice, a change in one feed characteristic may impact performance or other diet characteristics. This table may not always reflect those impacts.

Table 4. Comparison of grow-finish swine excretion (lb/finished animal) for current and past estimating methods and feeding technologies designed to reduce excretion.

Source	Dry Matter Intake (lb)	% Crude Protein	% P	Dry Matter Digestibility (%)	Feed Efficiency (feed/ gain) and Days to Finish	Excretion (lb/finished animal)			Take Home Message
						N	P	TS	
Typical or Average Excretion									
A. New ASABE	5.25	15.6	0.43	82	2.86 / 120	10.4	1.7	140	Old standard overestimated P and TS excretion
B. Old ASAE	--	--	--	--	--	9.7	3.3	200	
Low CP and P diets while all other assumptions remain constant									
C. New ASABE	5.25	11.5	0.33	82	2.86 / 120	6.4	1.0	140	Feed technologies reduce N & P

Table 5. Comparison of dairy cattle excretion (kg/animal/day) for current and past standards.

Source	Dry Matter Intake (lb)	% Crude Protein	% P	Milk Production (lb/day)	Excretion (lb/animal/day)			Take Home Message
					N	P	TS	
Typical or Average Excretion								
A. New ASABE	21.2	17.5	0.45	40	1.04	0.172	18.5	Old standard underestimated N and P excretion
B. Old ASAE	--	--	--	--	0.62	0.130	16.5	