NORTHERN SOY QUALITY

UNLOCKING EFFICIENCY AND PROFITS WITH NORTHERN SOYBEAN MEAL

THE COMPLETE ADVANTAGE

Soybeans and soybean meal have generally been traded on their crude protein content; however, with a more in-depth analysis, northern-grown soybeans have proven to have a complete advantage over its competitors. Through research, simulations and economic formulations, Northern Soy Marketing (NSM) is utilizing these tools to showcase the true value of our soybeans. Take a look at why northern-grown soy is improving efficiency and profits for customers and end users alike.

01 SUPERIOR AMINO ACID CONTENT

02 ENERGY EFFICIENCIES

03 FEED-COST SAVINGS

04 LOWER NITROGEN

OUR EXPERTS

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01

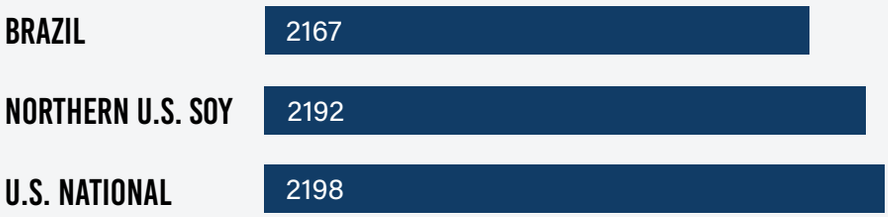
Standard ileal digestible amino acids (%) of soymeal from different origins

	Brazil	Northern U.S. Soy	U.S. National
Lysine	2.46	2.67	2.68
Methionine	0.55	0.56	0.57
Meth + Cyst	1.00	1.06	1.07
Threonine	1.46	1.44	1.45
Tryptophan	0.53	0.53	0.53

Reference: NSM Soybean Survey, 2023; Ravindran, 2014

02

Calculated Apparent Metabolizable Energy (AMEn) for broilers*



**CVB Equation, 2018*

Note: additional energy provided by higher sucrose and lower fiber levels.

03 + 04

Summary of example broiler starter feed formulated with soybean meal of differing origin

	Broiler Starter (BRA Soybean)	Broiler Starter (Northern U.S. Soybean)
Ingredients (kg/MT)		
Corn	514	534
Soybean Meal (as per Origin)	271	255
Other Raw Material	150	150
Soy Oil	23	19
Minerals/Additives/Other	42	42
Total	1000 kg	1000 kg
Nutrient Composition		
Metabolizable Energy (kcal/kg)	3000	3000
Crude Protein (%)	21.8	20.9
Digestible Lysine (%)	1.12	1.12
Digestible Methionine (%)	0.42	0.42
Digestible Threonine (%)	0.76	0.76
Digestible Tryptophan (%)	0.18	0.18
Diet Cost ($USD/MT)	$439.57	$435.27

The table illustrates U.S.-derived soybean meals represent an economical means to formulate a broiler feed with lower crude protein (by 0.9 percentage points or 4.12% reduction) yet still providing the required digestible amino acids. The table shows the financial advantage from the higher concentration of energy and digestible amino acids in U.S. soybean meal leads to cost savings of $4.30 per MT of feed. Adopting this strategy in poultry and swine is a cost-effective strategy for producers to optimize feed efficiency, reduce production expenses, and enhance overall profitability of animal production systems.