

	Soybeans raw	Soyex™ expeller	Soyex+™ expeller (high RUP option)	Soybeans roasted	SBM treated / high RUP	SBM expeller	SBM 44%	SBM 48%
Dry Matter, %	86	89.2	96.7	90	92	91	88	88
Crude Protein, %	40.9	44.1	44.3	40.9	48.7	48.5	50	54.5
Rumen Undegradable Protein, % of CP	26	35.7	67.2	50	51	60	35	35
Rumen Undegradable Protein, % of DM	10.6	15.7	29.8	20.5	24.8	29.1	17.5	19.1
Soluble Protein, % of Crude Protein	40	20.5	8.2	17	10.01	19	20	20
Soluble Protein, % of Dry Matter	16.4	9	3.6	6.9	4.9	9.2	10	10.9
Acid Detergent Fiber, %	10	6.6	6.6	11	8.2	8.5	10	6
Neutral Detergent Fiber, %	13	9.3	19.79	13.8	20.6	12.5	14	8
Total Digestible Nutrients, %	91	98.7	94.2	94	85	85	84	87
Net Energy of Lactation, Mcal/lb	0.96	1.04	0.99	0.99	0.89	0.89	0.88	0.91
Non-fiber Carbohydrate, %	23.3	27.15	22.46	21.9	18.1	27.1	27.3	30
Fat, %	17.7	14.2	14.2	18.3	6.8	5.4	1.4	1
Ash, %	5.1	5.3	4.73	5.1	5.8	6.5	7.3	6.5
Calcium, %	0.28	0.27	0.27	0.28	0.54	0.29	0.3	0.29
Phosphorus, %	0.65	0.5	0.5	0.65	0.73	0.65	0.68	0.7
Magnesium, %	0.26	0.25	0.25	0.26	0.3	0.28	0.3	0.32
Potassium, %	1.89	1.86	1.87	1.89	2.34	1.9	2.12	2.28
Sulfur, %	0.38	0.01	0.01	0.38	0.4	0.37	0.37	0.48
Manganese, ppm	33	23	23	33	37	32	31	41
Copper, ppm	14	15	16	14	18	20	24	22
Zinc, ppm	50	45	119	50	61	60	57	61
Iron, ppm	158	93	98	158	208	155	223	227
Selenium, ppm	0.1			0.1	0.11	0.11	0.11	0.11

**Sources:**

Dairy Reference Manual, third edition, NRAES-63 and average on-farm feed ingredient analysis.

The expectancies in this table are for use when analyses are unavailable