

Typical nutrient composition of common by-product [coproduct] feedstuffs (DM Basis) — values will vary between suppliers.

Feed Ingredient ¹	DM (%)	CP (%)	RUP (%CP)	TDN (%)	NE (Mcal/lb)	ADF (%)	NDF (%)	NFC (%)	Ca (%)	P (%)	Mg (%)	K (%)	S (%)	EE (%)
----- composition expressed on 100% dry matter basis -----														
Barley	88	13.5	27	84	0.88	7	19	62.8	0.05	0.38	0.15	0.47	0.17	2.1
Bakery waste, dehydrated	92	10.7	20	89	0.94	18	13		0.14	0.26	0.26	0.53	0.02	12.7
Beans, cull	89	25.3	16	84	0.88				0.18	0.59	0.15	1.47	0.26	1.5
Beet pulp, pellet	92	9.7	40	78	0.81	25	44	39.2	0.69	0.10	0.16	0.20	0.22	0.6
Beet pulp, wet pressed	27	9.2	40	78	0.81	30	53		0.87	0.10	0.22	0.19	0.22	0.6
Blood meal	92	87.2	80	66	0.68	—	—	—	0.32	0.26	0.24	0.10	0.37	1.4
Brewers grains, dehydrated	92	25.4	49	68	0.71	24	46	17.3	0.33	0.55	0.16	0.09	0.32	6.5
Brewers grains, wet	21	25.4	38	73	0.74	23	42	21.3	0.33	0.55	0.16	0.09	0.32	6.5
Brewers grains, condensed sol.	41													
Candy, example (variable)		5.2	—		1.10	5	11		0.07	0.17				24.4
Canola meal	92	36	28	72	0.78	18	36	11.0	0.73	1.13	0.58	1.36	1.25	1.2
Crambe meal	90	30.0	30	61	0.58	42	46		1.15	0.96		1.14		5.0
Corn, shelled	88	10.0	50	88	0.92	3	9	75.1	0.03	0.30	0.14	0.37	0.12	4.3
Corn gluten feed, dried	90	18.6	22	82	0.85	12	45	19.5	0.04	1.10	0.50	1.50	0.50	2.4
Corn gluten feed, wet	43	18.6	26	83	0.86	16	44	19.5	0.04	1.10	0.50	1.50	0.50	3.8
Corn gluten meal, 60% CP	90	67.2	55	89	0.98	5	14	14.6	0.09	0.54	0.09	0.21	0.72	2.3
Corn gluten meal, 40% CP	91	46.8	55	86	0.88	9	37	10.4	0.16	0.50	0.06	0.03	0.39	2.4
Cottonseed meal	91	45.6	43	76	0.79	19	26	20.1	0.22	1.21	0.55	1.39	0.34	1.3
Cottonseed, hulls	91	4.1	35	45	0.45	73	90	1.4	0.15	0.09	0.14	0.87	0.09	1.7
Cottonseed, w/lint	92	23.0	40	96	1.01	34	44	8.21	0.21	0.64	0.46	1.00	0.26	20.0
Cottonseed, wo/lint	90	25.0	35	98	1.03	26	37	9.7	0.12	0.54	0.41	1.18	0.26	23.8
Distiller's dried grain	93	25.0	55	88	0.93	17	43	15.9	0.11	0.43	0.07	0.18	0.46	9.8
Distiller's dried grain w/sol.	92	25.0	47	88	0.93	18	44	15.9	0.15	0.71	0.18	0.44	0.33	10.3
Distiller's dried grain wo/sol.	93	25.0	47	88	0.93	17	43	15.9	0.15	0.71				9.2
Distiller's wet grains	25	23.0	45	86	0.91	17	43	21.8	0.11	0.43	0.07	0.18	0.46	9.8
Fat, animal	99	—	—	177	2.65	—	—	—	—	—	—	—	—	—
Feather meal, hydrolyzed	93	90.0	70	69	0.70	—	—	—	0.22	0.80	0.22	0.30	1.70	3.8
Fish meal	92	66.7	65	73	0.76	—	—	—	0.22	0.80	0.22	0.30	1.70	3.8
Hominy feed	90	11.5	55	87	0.91	13	25	53.0	0.05	0.57	0.26	0.65	0.03	7.7
Linseed meal	90	38.3	35	78	0.81	19	25	28.7	0.43	0.89	0.66	1.53	0.43	1.5
Lupin seed	90	35.5	20	89	0.90	18	24	20.0	0.30	0.63	0.20	0.77	0.20	11.0
Malt sprouts	94	28.1	40	71	0.76	18	47	16.5	0.23	0.75	0.20	0.23	0.85	1.4
Meat and bone meal	93	54.1	50	71	0.74	—	—	—	11.10	5.48	1.09	1.43	0.27	10.4
Molasses, cane	75	5.8	—	72	0.75	—	—	86.0	1.00	0.11	0.43	3.84	0.47	0.1
Oats, 32-36 lb/bu	89	13.3	17	77	0.80	16	32	45.9	0.07	0.38	0.14	0.44	0.23	4.5
Oats, over 36 lb/bu	89	13.9	17	89	0.81	13	29	47.1	0.07	0.38	0.14	0.44	0.23	5.4
Oats, hull-less	90	17.2		94	0.99	4.6			1.00	.60				9.9
Pasta		14.6			0.90	3			0.02	0.16				1.6
Peas, field	87	26.0	22	87	0.91	6.7		51.2	0.09	0.48	0.13	1.13		1.5
Potato, cull	23	5-10	15-40	81	0.83	3	33	77.0	0.02	0.24	0.14	2.17	0.09	.4-2, 0
Potato, waste	20	7			0.84	6	10		0.16	0.25				5.0
Poultry meal	93	62.9		79	0.83				3.76	1.96	0.19	0.42	0.56	14.1
Safflower, whole	94	22.1		89	0.61				0.26	0.67	0.36	0.79		35.1
Safflower meal, solv-extd	92	25.4		57	0.58	41	58		0.37	0.81	0.37	0.82	0.14	1.5
Screenings, wheat (variable)	87	15.8	—	49	0.53	50	80	—	0.15	0.39	0.18	0.58	0.22	3.9
Soy hulls	91	12.1	30	77	0.80	50	67	13.7	0.49	0.21	0.28	1.27	0.09	2.1
Soybeans, raw	90	42.8	25	91	0.96	10	15	17.7	0.27	0.65	0.25	1.80	0.24	19.0
Soybeans, heated	91	42.8	50	94	0.99	10	15	17.7	0.27	0.65	0.25	1.80	0.24	18.0
Soybean meal, 44% CP, solv.	89	49.9	35	84	0.88	10	15	26.3	0.30	0.68	0.30	1.98	0.37	1.5
Soybean meal, 44% CP, exp.	90	47.7	55	85	0.89	10	15	25.3	0.29	0.69	0.28	1.98	0.37	5.3
Soybean meal, 48% CP, solv.	90	55.1	35	87	0.89	6	8	29.4	0.29	0.70	0.32	2.30	0.48	1.0
Starch		10.8			0.85	4.4			0.13	0.18				0.4
Straw, oat	90	4.5	30	45	0.45	50	79	2.0	0.27	0.10	0.18	2.23	0.19	2.4
Straw, barley	90	4.1	30	43	0.41	52	82	1.9	0.37	0.11	0.19	2.28	0.19	1.8
Straw, wheat	89	3.6	30	41	0.40	54	85	1.8	0.18	0.05	0.12	1.42	0.19	1.8
Sunflower, confectionary	89	18.7		84		29	35		0.20	0.6				
Sunflower, oil seed (whole)	89	20.8	30	93	1.27	24	30	2.5	0.36	0.66		0.71		48.0
Sunflower meal wo/hulls	93	35.0	30	65	0.67	10	15	41.5	0.44	0.98	0.77	1.10	0.20	0.5
Sunflower meal w/hulls	90	25.9	30	57	0.60	31	39	26.6	0.23	1.03	0.75	1.06	0.33	1.2
Triticale	90	17.6	30	84	0.88	8	15	63.7	0.06	0.33	0.20	0.40	0.17	1.7
Urea	100	287.0	0	0	0.0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
Waste, poultry litter	85	25.3		59	0.61				2.5	1.6				2.3
Wheat/durum	89	16.0	22	88	0.93	8	15	65.1	0.04	0.42	0.16	0.42	0.18	2.0
Wheat bran	89	17.1	29	70	0.73	15	51	20.6	0.13	1.38	0.60	1.56	0.25	4.4
Wheat middlings	89	18.4	20	78	0.80	10	37	34.5	0.13	0.99	0.40	1.13	0.20	4.9
Whey, fresh	7	14.2	0	81	0.85	—	—	75.3	0.80	0.70	0.14	2.00	1.00	0.7

¹ Blank cells indicate lack of information on nutrient value, or excessive variability suggesting each load should be analyzed. Dashed (—) cells imply nutrient measure not applicable.