

Credit: Feedstuffs ingredient analysis table: 2024 Edition

Prepared by: Amy Batal, PhD, ABB Nutrition and Brett Lumpkins, PhD, Southern Poultry Feed & Research

Ingredients ²	Dry Matter	Crude Protein	Ether Extract	Crude Fiber	Calcium	Total Phosphorus	Available ⁷ Phosphorus	Ash	Poultry ME ⁶	
	%	%	%	%	%	%	%	%	Kcal/lb.	Kcal/lb.
Sorghum, milo, grain	89	9.1	2.8	2	0.04	0.29	0.1	1.7	1501	3310
Barley, grain	89	11.5	1.9	5	0.08	0.42	0.15	2.5	1247	2750
Corn, yellow, grain	88	7.9	3.5	1.8	0.02	0.24	0.07	1.1	1524	3360
Oats, grain	90	11	4	10.5	0.1	0.35	0.14	4	1157	2550
Wheat, hard, grain	88	13.5	1.9	3	0.05	0.41	0.12	2	1438	3170
Wheat, soft, grain	86	10.8	1.7	2.4	0.05	0.3	0.11	2	1372	3025

Amino Acids Percent availability in parenthesis ⁸														
Ingredients ²	Methionine	Cysteine	Lysine	Tryptophan	Threonine	Isoleucine	Histidine	Valine	Leucine	Arginine	Phenylalanine	Tyrosine	Glycine	Serine
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Sorghum, milo, grain	0.12 (87)	0.17 (90)	0.23 (88)	0.09 (87)	0.27 (87)	0.29	0.42 (93)	0.47 (90)	1.42 (95)	0.35 (87)	0.45 (94)	0.36 (92)	0.31 (77)	0.4 (87)
Barley, grain	0.18 (79)	0.25 (81)	0.53 (78)	0.17	0.36 (77)	0.42	0.23 (87)	0.62 (81)	0.8 (83)	0.5 (85)	0.52 (88)	0.31 (82)	0.44 (90)	0.46 (77)
Corn, yellow, grain	0.16 (93)	0.17 (84)	0.23 (83)	0.06	0.31 (93)	0.24	0.24 (93)	0.36 (87)	0.95 (95)	0.37 (91)	0.37 (90)	0.28 (95)	0.32 (76)	0.40 (81)
Oats, grain	0.2 (89)	0.31 (84)	0.48 (86)	0.17 (75)	0.33 (83)	0.35	0.22 (89)	0.62 (88)	0.9 (89)	0.82 (91)	0.62 (89)	0.21 (83)	0.59 (81)	0.61 (82)
Wheat, hard, grain	0.25 (87)	0.3 (87)	0.4 (81)	0.18	0.35 (83)	0.41	0.17 (91)	0.69 (86)	1.0 (91)	0.6 (88)	0.78 (92)			
Wheat, soft, grain	0.2 (89)	0.27 (88)	0.35 (82)	0.15	0.34 (81)	0.3	0.30 (87)	0.51 (85)	0.78 (90)	0.55 (90)	0.52 (90)	0.24 (88)	0.55 (82)	0.55 (90)

Vitamins											
Ingredients ²	Carotene	Vitamin A	Vitamin E	Thiamin	Riboflavin	Pantothenic Acid	Biotin	Folic Acid	Choline		Niacin
	mg/kg	IU/g	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	mg/kg	ug/kg	mg/kg
Sorghum, milo, grain	-	-	12.2	3.9	1.2	11	180	200	678	-	42.7
Barley, grain	-	-	36	5	2	6.4	200	397	1027	-	57.2
Corn, yellow, grain	2	1.7	22	2.6	1.1	3.9	80	116	1100	-	21.5
Oats, grain	-	-	20	6.4	1.6	14.9	300	400	1070	-	18
Wheat, hard, grain	-	-	15.5	5.2	1.1	13.5	100	426	778	-	56.1
Wheat, soft, grain	-	-	15.5	4.8	1.2	12.8	100	300	778	-	48.4

Minerals										
Ingredients ²	Sodium	Potassium	Chloride	Magnesium	Sulphur	Manganese	Iron	Copper	Zinc	Selenium
	%	%	%	%	%	ppm ³	ppm	ppm	ppm	ppm
Sorghum, milo, grain	0.03	0.34	0.09	0.2	0.09	12.9	52	14.1	13.7	n/a
Barley, grain	0.03	0.56	0.14	0.12	0.15	16	80	8	30	0.2
Corn, yellow, grain	0.02	0.31	0.04	0.1	0.08	5	23	2.2	21	0.07
Oats, grain	0.07	0.37	0.12	0.17	0.21	38.2	70	5.9	38	0.3
Wheat, hard, grain	0.06	0.5	0.07	0.11	0.1	40	50	10.6	34	0.2
Wheat, soft, grain	0.06	0.4	0.07	0.1	0.1	30	43	9.7	28	0.1

Comments:

1 n/a = Data not available

2 Data listed are intended to represent the ingredients shown. Due to factors that can influence individual lots, no guarantee is made that such lots will compare with the analysis in this table.

3 ppm = parts per million

4 A dash (-) indicates that the ingredient does not contain a significant amount of that item.

5 All table data are basis “as fed”

6 ME = Metabolizable Energy

7 Available phosphorus values were determined in chicks unless otherwise noted.

8 True amino acid availability coefficients were determined with cecectomized roosters.