

ANALYSES OF BASIC MATERIALS USED IN SUBSTRATE PREPARATION

DRY ROUGHAGES OF FIBROUS MATERIALS

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Alfalfa hay, all analyses	90.5	14.8	2.0	28.9	36.6	8.2	1.47	0.24	2.37	2.05
Alfalfa hay, very leafy (less than 25% fiber)	90.5	17.2	2.6	22.6	39.4	8.7	1.73	0.25	2.75	2.01
Alfalfa hay, leafy (25-28% fiber)	90.5	15.8	2.2	27.4	36.6	8.5	1.50	0.24	2.53	2.01
Alfalfa hay, stemmy (over 34% fiber)	90.5	12.1	1.4	36.0	33.4	7.6	1.10	0.18	1.94	1.68
Alfalfa hay, before bloom	90.5	19.0	2.7	22.6	36.7	9.5	2.22	0.33	3.04	2.14
Alfalfa hay, past bloom	90.5	12.8	2.1	31.9	36.2	7.5	—	—	2.05	—
Alfalfa hay, brown	87.9	17.3	1.6	24.5	35.1	9.4	1.37	0.26	2.77	—
Alfalfa hay, black	83.1	17.5	1.5	29.1	25.3	9.7	—	—	2.80	—
Alfalfa leaf meal	92.3	21.2	2.8	16.6	39.7	12.0	1.69	0.25	3.39	—
Alfalfa leaves	90.5	22.3	3.0	14.2	40.5	10.5	2.22	0.24	3.57	2.06
Alfalfa meal	92.7	16.1	2.2	27.1	38.2	9.1	1.32	0.19	2.58	1.91
Alfalfa stem meal	91.0	11.5	1.3	36.3	34.8	7.1	—	—	1.84	—
Alfalfa straw	92.6	8.8	1.5	40.4	35.1	6.8	—	0.13	1.41	—
Alfalfa and brome grass hay	89.3	12.4	2.0	28.6	38.1	8.2	0.74	0.24	1.98	2.18
Alfalfa and timothy hay	89.8	11.1	2.2	29.5	40.3	6.7	0.81	0.21	1.78	1.78
Alfilaria, dry (<i>Erodium cicutarium</i>)	89.2	10.9	2.9	23.4	40.2	11.8	1.57	0.41	1.74	—
Alfilaria, dry, mature	89.0	3.5	1.5	31.4	44.1	8.5	—	—	0.56	—
Atlas sorghum stover	85.0	4.0	2.0	27.9	44.2	6.9	0.34	0.09	0.64	—
Barley hay	90.8	7.3	2.0	25.4	49.3	6.8	0.26	0.23	1.17	1.35
Barley straw	90.0	3.7	1.6	37.7	41.0	6.0	0.32	0.11	0.59	1.33
Bean hay, mung	90.3	9.8	2.2	24.0	46.6	7.7	—	—	1.57	—
Bean hay, tepary	90.0	17.1	2.9	24.8	34.7	10.5	—	—	2.74	—
Bean pods, field, dry	91.8	7.1	1.0	34.8	45.0	3.9	0.78	0.10	1.14	2.02
Bean straw, field	89.1	6.1	1.4	40.1	34.1	7.4	1.67	0.13	0.98	1.02
Beggarweed hay	90.9	15.2	2.3	28.4	37.2	7.8	1.05	0.27	2.43	2.32
Bent grass hay, Colonial	88.5	6.6	3.0	29.5	42.8	6.6	—	0.18	1.06	1.42
Bermuda grass hay	90.6	7.2	1.8	25.9	48.7	7.0	0.37	0.19	1.15	1.42
Bermuda grass hay, poor	90.0	5.8	0.9	38.8	37.7	6.8	—	—	0.93	—
Berseem hay, or Egyptian clover	91.7	13.4	2.7	21.0	42.7	11.9	3.27	0.28	2.14	2.05
Birdsfoot trefoil hay	90.5	13.8	2.1	27.5	41.2	5.9	1.13	0.22	2.35	1.52
Black grass hay (<i>Juncus Gerardi</i>)	89.7	7.5	2.5	25.1	47.3	7.3	—	0.09	1.20	1.56
Bluegrass hay, Canada	89.3	6.6	2.3	28.2	46.4	5.8	—	0.20	1.06	1.94

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Bluegrass hay, Kentucky, all analyses	89.4	8.2	2.8	29.8	42.1	6.5	0.46	0.32	1.31	1.73
Bluegrass hay, Kentucky, in seed	87.3	5.5	2.5	31.0	41.9	6.4	0.23	0.20	0.88	1.48
Bluegrass hay, native western	91.9	11.2	3.0	29.8	39.9	8.0	—	—	1.79	—
Bluejoint hay (<i>Calamagrostis Canadensis</i>)	88.5	7.2	2.3	32.9	39.6	6.5	—	—	1.15	—
Bluestem hay (<i>Andropogon</i> , spp.)	86.6	5.4	2.2	30.2	43.4	5.4	—	—	0.86	—
Bromegrass hay, all analyses	88.1	9.9	2.1	28.4	39.5	8.2	0.20	0.28	1.58	2.35
Bromegrass hay, before bloom	89.0	14.5	2.3	24.6	37.9	9.7	—	—	2.32	—
Broom corn stover	90.6	3.9	1.8	36.8	42.4	5.7	—	—	0.62	—
Buckwheat hulls	88.6	3.0	1.0	42.9	40.1	1.6	0.26	0.02	0.48	0.27
Buckwheat straw	88.6	4.3	1.0	36.2	38.8	8.3	1.24	0.04	0.69	2.00
Buffalo grass hay (<i>Bulbilis dactyloides</i>)	88.7	6.8	1.8	23.8	46.2	10.1	0.70	0.13	1.09	1.36
Bunchgrass hay, misc. varieties	91.7	5.8	2.0	30.4	44.1	9.4	—	—	0.93	—
Carpet grass hay	92.1	7.0	2.2	31.8	40.9	10.2	—	—	1.12	—
Cat-tail, or tule hay (<i>Typha angustifolia</i>)	90.8	5.8	1.7	30.8	44.3	8.2	—	—	0.93	—
Cereals, young, dehydrated	92.8	24.5	4.7	16.1	33.1	14.4	0.66	0.46	3.92	—
Chess, or cheat hay (<i>Bromus</i> , spp.)	91.7	6.9	2.1	29.2	46.1	7.4	0.29	0.25	1.10	1.47
Clover hay, alsike, all analyses	88.9	12.1	2.1	27.0	39.9	7.8	1.15	0.23	1.94	2.44
Clover hay, alsike, in bloom	89.0	13.4	3.2	26.9	37.7	7.8	1.32	0.25	2.14	2.27
Clover hay, Alyce	89.0	10.9	1.6	35.4	35.5	5.6	—	—	1.74	—
Clover hay, bur	92.1	18.4	2.9	22.9	37.8	10.1	1.32	0.45	2.94	2.96
Clover hay, crimson	89.5	14.2	2.2	27.4	37.0	8.7	1.23	0.24	2.27	2.79
Clover hay, Ladino	88.0	19.4	3.2	20.7	34.9	9.8	1.32	0.29	3.10	2.78
Clover, Ladino, and grass hay	88.0	16.3	2.2	20.7	41.7	7.1	1.05	0.26	2.61	1.97
Clover hay, mammoth red	88.0	11.7	3.4	29.2	37.0	6.7	—	0.24	1.87	—
Clover hay, red, all analyses	88.1	11.8	2.6	27.2	40.1	6.4	1.35	0.19	1.89	1.43
Clover hay, red, leafy (less than 25% fiber)	88.1	13.4	3.1	23.6	40.8	7.2	—	—	2.14	—
Clover hay, red, stemmy (over 31% fiber)	88.2	10.1	2.1	34.1	36.0	5.9	0.99	0.15	1.62	1.77
Clover hay, red, before bloom	88.1	18.3	3.6	18.0	41.1	7.1	1.69	0.28	2.93	2.26
Clover hay, red, early to full bloom	88.1	12.5	3.5	26.1	39.7	6.3	1.47	0.22	2.00	1.73
Clover hay, red, second cutting	88.1	13.4	2.9	24.5	40.4	6.9	—	—	2.14	—
Clover hay, sweet, first year	91.8	16.5	2.5	24.6	39.7	8.5	1.37	0.26	2.64	1.57
Clover hay, sweet, second year	90.7	13.5	1.9	30.2	37.6	7.5	1.25	0.23	2.16	1.78
Clover hay, white	88.0	14.4	2.4	22.5	40.9	7.8	1.16	0.24	2.30	1.66
Clover leaves, sweet	92.2	26.6	3.2	9.5	41.9	11.0	—	—	4.26	—
Clover stems, sweet	92.7	10.6	1.1	38.0	35.6	7.4	—	—	1.70	—
Clover straw, crimson	87.7	7.5	1.5	38.8	32.9	7.0	—	—	1.20	—
Clover and mixed grassy, high in clover	89.7	9.6	2.7	28.8	42.2	6.2	0.90	0.19	1.54	1.46
Clover and timothy hay, 30 to 50% clover	88.1	8.6	2.2	30.3	41.2	5.8	0.68	0.20	1.38	1.47
Corn cobs, ground	90.4	2.3	0.4	32.1	54.0	1.6	—	0.02	0.37	0.37
Corn fodder, well-eared, very dry (from barn or in arid districts)	91.1	7.8	2.2	27.1	47.6	6.4	0.24	0.16	1.25	0.82
Corn fodder, high in water	60.7	4.8	1.4	16.7	34.2	3.6	0.16	0.11	0.77	0.55
Corn fodder, sweet corn	87.7	9.2	1.8	26.4	41.3	9.0	—	0.17	1.47	0.98
Corn husks, dried	85.0	3.4	0.9	28.2	49.6	2.9	0.15	0.12	0.54	0.55
Corn leaves, dried	82.8	7.7	1.9	23.9	42.6	6.7	0.29	0.10	1.23	0.36
Corn stalks, dried	82.8	4.7	1.5	28.0	43.3	5.3	0.25	0.09	0.75	0.50

Material

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Corn stover (ears removed), very dry	90.6	5.9	1.6	30.8	4.65	5.8	0.29	0.05	0.94	0.67
Corn stover, high in water	59.0	3.9	1.0	20.1	30.2	3.8	0.19	0.04	0.62	0.44
Corn tops, dried	82.1	5.6	1.5	27.4	42.0	5.6	—	—	0.90	—
Cotton bolls, dried	90.8	8.7	2.4	30.8	42.0	6.9	0.61	0.09	1.39	3.18
Cotton leaves, dried	91.7	15.3	6.8	10.3	43.5	15.8	4.58	0.18	2.45	1.36
Cotton stems, dried	92.4	5.8	0.9	44.0	37.5	4.2	—	—	0.93	—
Cottonseed hulls	90.7	3.9	0.9	46.1	37.2	2.6	0.14	0.07	0.62	0.87
Cottonseed hull bran	91.0	3.4	0.9	37.2	46.7	2.8	—	—	0.54	—
Cowpea hay, all analyses	90.4	18.6	2.6	23.3	34.6	11.3	1.37	0.29	2.98	1.51
Cowpea hay, in bloom to early pod	89.9	18.1	3.2	21.8	36.7	10.1	—	—	2.90	—
Cowpea hay, ripe	90.0	10.1	2.5	29.2	41.8	6.4	—	—	1.62	—
Cowpea straw	91.5	6.8	1.2	44.5	33.6	5.4	—	—	1.09	—
Crabgrass hay	90.5	8.0	2.4	28.7	42.9	8.5	—	—	1.28	—
Durra fodder	89.9	6.4	2.8	24.1	51.4	5.2	—	—	1.02	—
Emmer hay	90.0	.97	2.0	32.8	36.4	9.1	—	—	1.55	—
Fescue hay, meadow	89.2	7.0	1.9	30.3	43.2	6.8	—	0.20	1.12	1.43
Fescue hay, native western (<i>Festuca</i> , spp.)	90.0	8.5	2.0	31.0	42.8	5.7	—	—	1.36	—
Feterita fodder, very dry	88.0	8.0	2.1	18.7	51.5	7.7	0.30	0.21	1.28	—
Feterita stover	86.3	5.2	1.7	29.2	41.9	8.3	—	—	0.83	—
Flat pea hay	92.3	22.7	3.2	27.7	32.0	6.7	—	0.30	3.63	2.02
Flax plant by product	91.9	6.4	2.1	44.4	33.1	5.9	—	—	1.02	—
Flax straw	92.8	7.2	3.2	42.5	32.9	7.0	0.48	0.07	1.15	0.73
Fowl meadow grass hay	87.4	8.7	2.3	29.7	39.5	7.2	—	—	1.39	—
Furze, dried	94.5	11.6	2.0	38.5	35.5	7.0	—	—	1.86	—
Gama grass hay (<i>Tripsacum dactyloides</i>)	88.2	6.7	1.8	30.4	43.1	6.2	—	—	1.07	—
Grama grass hay (<i>Bouteloua</i> , spp.)	89.8	5.8	1.6	28.9	45.6	7.9	0.34	0.18	0.93	—
Grass hay, mixed, eastern states, good quality	89.0	7.0	2.5	30.9	43.1	5.5	0.48	0.21	1.12	1.20
Grass hay, mixed, second cutting	89.0	12.3	3.3	24.8	41.7	6.9	0.79	0.31	1.97	1.15
Grass straw	85.0	4.5	2.0	35.0	37.8	5.7	—	—	0.72	—
Guar hay (<i>Cyamopsis psoraloides</i>)	90.7	16.5	1.3	19.3	41.2	12.4	—	2.64	—	—
Hegari fodder	86.0	6.2	1.7	18.1	52.5	7.5	0.27	0.16	0.99	—
Hegari stover	87.0	5.6	1.8	28.0	41.7	9.9	0.33	0.08	0.90	—
Hops, spent, dried	93.8	23.0	3.6	24.5	37.4	5.3	—	—	3.68	—
Horse bean hay	91.5	13.4	0.8	22.0	49.8	5.5	—	—	2.14	—
Horse bean straw	87.9	8.6	1.4	36.4	33.1	8.4	—	—	1.38	—
Hyacinth bean hay (<i>Dilichos lablab</i>)	90.2	14.8	1.4	33.6	33.6	6.8	—	—	2.37	—
Johnson grass hay	90.1	6.5	2.1	30.4	43.7	7.4	0.87	0.26	1.04	1.22
June grass hay, western (<i>Koeleria cristata</i>)	88.3	8.1	2.5	30.4	40.5	6.8	—	—	1.30	—
Kafir fodder, very dry	90.0	8.7	2.6	25.5	44.2	9.0	0.35	0.18	1.39	1.53
Kafir fodder, high in water	71.7	6.5	2.7	21.6	37.6	3.3	0.28	0.14	1.04	1.23
Kafir stover, very dry	90.0	5.5	1.8	29.5	44.3	8.9	0.54	0.09	0.88	—
Kafir stover, high in water	72.7	3.8	1.3	23.7	36.6	7.3	0.44	0.07	0.61	—
Koahaole forage, dried	88.7	12.7	1.9	29.8	39.2	5.1	—	—	2.03	—
<i>Kochia scoparia</i> hay	90.0	11.4	1.5	23.6	40.7	12.8	—	—	1.82	—
Kudzu hay	89.0	15.9	2.5	28.6	35.1	6.9	2.78	0.21	2.54	—
Lespedeza hay, annual, all analyses	89.2	12.7	2.4	26.7	42.2	5.2	0.98	0.18	2.03	0.91

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Lespedeza hay, annual, before bloom	89.1	14.3	2.7	22.7	43.0	6.4	1.04	0.19	2.29	1.06
Lespedeza hay, annual, in bloom	89.1	13.0	1.8	26.5	42.7	5.1	1.02	0.18	2.08	0.94
Lespedeza hay, annual, after bloom	89.1	11.5	1.9	32.6	38.6	4.5	0.90	0.15	1.84	0.82
Lespedeza hay, perennial	89.0	13.2	1.7	26.5	42.7	4.9	0.92	0.22	2.11	0.98
Lespedeza leaves, annual	89.2	17.1	2.9	19.7	43.1	6.4	1.30	0.20	2.74	0.92
Lespedeza stems, annual	89.2	8.3	1.0	38.5	37.7	3.7	0.64	0.13	1.33	0.89
Lespedeza straw	90.0	6.8	2.3	29.2	47.1	4.6	—	—	1.09	—
Lovegrass hay, weeping	91.2	9.2	2.8	30.9	43.4	4.9	—	—	1.47	—
Marsh or swamp hay, good quality	90.2	7.7	2.3	28.2	44.3	7.7	—	—	1.23	—
Millet hay, foxtail varieties	87.6	8.2	2.7	25.3	44.7	6.7	0.29	0.16	1.31	1.70
Millet hay, hog millet, or proso	90.3	9.3	2.2	23.9	47.6	7.3	—	—	1.49	—
Millet hay, Japanese	86.8	8.3	1.6	27.7	40.8	8.4	0.20	—	1.33	2.10
Millet hay, pearl, or cat-tail	87.2	6.7	1.7	33.0	36.8	9.0	—	—	1.07	—
Millet straw	90.0	3.8	1.6	37.5	41.6	5.5	0.08	—	0.61	1.44
Milo fodder	88.5	8.0	3.3	21.9	48.4	6.9	0.35	0.18	1.28	—
Milo stover	91.0	3.2	1.1	29.1	48.1	9.5	0.58	0.11	0.51	—
Mint hay	88.3	12.7	2.1	20.3	45.6	7.6	1.51	0.19	2.03	—
Mixed hay, good, less than 30% legumes	88.0	8.3	1.8	30.7	41.8	5.4	0.61	0.18	1.33	1.47
Mixed hay, good, more than 30% legumes	88.0	9.2	1.9	28.1	42.8	6.0	0.90	0.19	1.47	1.46
Mixed hay, cut very early	90.0	13.3	2.7	25.3	39.4	9.3	—	—	2.13	—
Napier grass hay	89.1	8.2	1.8	34.0	34.6	10.5	—	—	1.31	—
Natal grass hay	90.2	7.4	1.8	36.8	39.2	5.0	0.45	0.29	1.18	—
Native hay, western mt. states, good quality	90.0	8.1	2.1	29.8	43.2	6.8	0.39	0.12	1.30	—
Native hay, western mt. states, mature and weathered	90.0	3.9	1.4	33.6	43.6	7.5	—	—	0.62	—
Needle grass hay (<i>Stipa</i> , spp.)	88.1	7.2	2.0	30.8	41.9	6.2	—	—	1.15	—
Oak leaves, live oak, dried	93.8	9.3	2.7	29.9	45.3	6.6	—	—	1.49	—
Oat chaff	91.8	5.9	2.4	25.7	46.3	11.5	0.80	0.30	0.94	0.86
Oat hay	88.1	8.2	2.7	28.1	42.2	6.9	0.21	0.19	1.31	0.83
Oat hay, wild (<i>Avena fatua</i>)	92.5	6.6	2.6	32.5	44.0	6.8	0.22	0.25	1.06	—
Oat hulls	92.8	4.5	1.3	29.7	50.8	6.5	0.20	0.10	0.78	0.48
Oat straw	89.7	4.1	2.2	36.1	41.0	6.3	0.19	0.10	0.66	1.35
Oat grass hay, tall	88.7	7.5	2.4	30.1	42.7	6.0	—	0.14	1.20	1.36
Orchard grass hay, early-cut	88.6	7.7	2.9	30.5	40.7	6.8	0.19	0.17	1.23	1.61
Picnic grass hay (<i>Panicum</i> , spp.)	92.1	8.3	2.3	29.5	44.9	7.1	—	—	1.33	—
Para grass hay	90.2	4.6	0.9	33.6	44.5	6.6	0.35	0.35	0.74	1.44
Pasture grasses and clovers, mixed, from closely grazed, fertile pasture, dried (northern states)	90.0	20.3	3.6	19.7	38.7	7.7	0.58	0.32	3.25	2.18
Pasture grasses, mixed, from poor to fair pasture, before heading out, dried	90.0	14.1	2.3	19.4	43.2	11.0	0.41	0.12	2.26	0.74
Pasture grass, western plains, growing, dried	90.0	11.6	2.5	28.0	40.2	7.7	0.37	0.24	1.86	—
Pasture grass, western plains, mature, dried	90.0	4.6	2.3	31.9	45.3	5.9	0.34	0.14	0.74	—
Pasture grass, western plains, mature and weathered	90.0	3.3	1.8	34.1	44.5	6.3	0.33	0.09	0.53	—

Material

	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Pasture grass and other forage on western mt. ranges, spring, dried	90.0	17.0	3.1	14.0	49.1	6.8	1.21	0.38	2.72	—
Pasture grass and other forage on western mt. ranges, autumn, dried	90.0	8.8	4.3	17.4	51.4	8.1	—	—	1.41	—
Pea hay, field	89.3	14.9	3.3	24.3	39.1	7.7	1.22	0.25	2.38	1.25
Pea straw, field	90.2	6.1	1.6	33.1	44.0	5.4	—	0.10	0.98	1.08
Pea-and-oat hay	89.1	12.1	2.9	27.2	39.1	7.8	0.72	0.22	1.94	1.04
Peanut hay, without nuts	90.7	10.1	3.3	23.4	44.2	9.7	1.12	0.13	1.62	1.25
Peanut hay, with nuts	92.0	13.4	12.6	23.0	34.9	8.1	1.13	0.15	2.14	0.85
Peanut hay, mowed	91.4	10.6	5.1	23.8	42.2	9.7	—	—	1.70	—
Peanut hulls, with a few nuts	92.3	6.7	1.2	60.3	19.7	4.4	0.30	0.07	1.07	0.82
Peavine hay, from pea-cannery vines, sun-cured	86.3	11.9	2.4	23.0	42.2	6.8	1.48	0.16	1.90	—
Prairie hay, western, good quality	90.7	.57	2.3	30.4	44.9	7.4	0.36	0.18	0.91	—
Prairie hay, western, mature	91.7	3.8	2.4	31.9	47.1	6.5	0.28	0.09	0.61	0.49
Quack grass hay	89.0	6.9	1.9	34.5	38.8	6.9	—	—	1.10	—
Ramie meal	92.2	19.2	3.8	20.1	35.9	13.2	4.32	0.22	3.07	—
Red top hay	91.0	7.2	2.3	29.3	45.3	6.9	0.33	0.23	1.15	1.93
Reed canary grass hay	91.1	7.7	2.3	29.2	44.3	7.6	0.33	0.16	1.23	—
Rescue grass hay	90.2	9.8	3.2	24.6	44.5	8.1	—	—	1.57	—
Rhodes grass hay	89.0	5.7	1.3	31.7	41.8	8.5	0.35	0.27	0.91	1.18
Rice hulls	92.0	3.0	0.8	40.7	28.4	19.1	0.08	0.08	0.48	0.31
Rice straw	92.5	3.9	1.4	33.5	39.2	14.5	0.19	0.07	0.62	1.22
Rush hay, western (<i>Juncus</i> , spp.)	90.0	9.4	1.8	29.2	44.2	5.4	—	—	1.50	—
Russian thistle hay	87.5	8.9	1.6	26.9	37.4	12.7	—	—	1.42	—
Rye grass hay, Italian	88.6	8.1	1.9	27.8	43.3	7.5	—	0.24	1.30	1.00
Rye grass hay, perennial	88.0	9.2	3.1	24.2	43.4	8.1	—	0.24	1.47	1.25
Rye grass hay, native western	87.4	7.8	2.1	33.5	37.6	6.4	—	—	1.25	—
Rye hay	91.3	6.7	2.1	36.5	41.0	5.0	—	0.18	1.07	1.05
Rye straw	92.8	3.5	1.2	38.7	45.9	3.5	0.26	0.09	0.56	0.90
Salt bushes, dried	93.5	13.8	1.6	22.1	38.8	17.2	1.88	0.11	2.21	4.69
Salt grass hay, misc. var.	90.0	8.1	1.8	28.8	39.5	11.8	—	—	1.30	—
Sanfoin hay (<i>Onobrychis viciaefolia</i>)	84.1	10.5	2.6	19.7	44.2	7.1	—	—	1.68	—
Seaweed, dried (<i>Fucus</i> , spp.)	88.7	5.2	4.2	9.4	53.6	16.3	—	—	0.83	—
Seaweed, dried (<i>Laminaria</i> , spp.)	83.7	11.4	1.1	8.6	45.8	16.8	—	—	1.82	—
Sedge hay, eastern (<i>Carex</i> , spp.)	90.7	6.1	1.7	29.2	46.3	7.4	—	—	0.98	—
Sedge hay, western (<i>Carex</i> , spp.)	90.6	10.1	2.4	27.3	44.0	6.8	0.60	0.24	1.62	—
Seradella hay	89.0	16.4	3.2	29.8	32.0	7.6	—	0.33	2.62	1.25
Sorghum bagasse, dried	89.3	3.1	1.4	31.3	50.0	3.5	—	—	0.50	—
Sorghum fodder, sweet, dry	88.8	6.2	2.4	25.0	48.1	7.1	0.34	0.12	0.99	1.29
Sorghum fodder, sweet, high in water	65.7	4.5	2.4	16.6	37.6	4.6	0.25	0.09	0.72	0.96
Soybean hay, good, all analyses	88.0	14.4	3.3	27.5	35.8	7.0	0.94	0.24	2.30	0.82
Soybean hay, in bloom or before	88.0	16.7	3.3	20.6	37.8	9.6	1.53	0.27	2.67	0.86
Soybean hay, seed developing	88.0	14.6	2.4	27.2	36.5	7.3	1.35	0.25	2.34	0.78
Soybean hay, seed nearly ripe	88.0	15.2	6.6	24.0	38.2	4.0	0.86	0.32	2.43	0.81
Soybean hay, poor quality, weathered	89.0	9.2	1.2	41.0	30.4	7.2	0.94	—	1.47	—

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Soybean straw	88.8	4.0	1.1	41.1	37.5	5.1	—	0.13	0.64	0.62
Soybean and Sudan grass hay, chiefly Sudan	89.0	7.4	2.2	31.1	43.4	4.9	—	—	1.18	—
Spanish moss, dried	89.2	5.0	2.4	26.6	47.7	7.5	—	0.04	0.80	0.46
Sudan grass hay, all analyses	89.3	8.8	1.6	27.9	42.9	8.1	0.36	0.26	1.41	1.30
Sudan grass hay, before bloom	89.6	11.2	1.5	26.1	41.3	9.5	0.41	0.26	1.79	—
Sudan grass hay, in bloom	89.2	8.4	1.5	30.7	41.8	6.8	—	—	1.34	—
Sudan grass hay, in seed	89.5	6.8	1.6	29.9	44.4	6.8	0.27	0.19	1.09	—
Sudan grass, young, dehydrated	88.0	14.5	2.5	20.4	41.2	9.4	0.52	0.39	2.32	—
Sudan grass straw	90.4	7.1	1.5	33.0	42.3	6.5	—	—	1.14	—
Sugar cane fodder, Japanese, dried	89.0	1.3	1.8	19.7	64.3	1.9	0.32	0.14	0.21	0.58
Sugar cane bagasse, dried	95.5	1.1	0.4	49.6	42.0	2.4	—	—	0.18	—
Sugar cane pulp, dried	93.8	1.7	0.6	45.6	42.2	3.7	—	—	0.27	—
Sweet potato vine, dried	90.7	12.6	3.3	19.1	45.5	10.2	—	—	2.02	—
Teosinte fodder, dried	89.4	9.1	1.9	26.5	41.7	10.3	—	0.17	1.46	0.88
Timothy hay, all analyses	89.0	6.5	2.4	30.2	45.0	4.9	0.23	0.20	1.04	1.50
Timothy hay, before bloom	89.0	9.7	2.7	27.4	42.7	6.5	—	—	1.55	—
Timothy, full bloom	89.0	6.4	2.5	30.4	44.8	4.9	0.23	0.20	1.02	1.50
Timothy hay, in bloom, nitrogen fertilized	89.0	9.7	2.1	31.6	42.6	3.9	0.40	0.21	1.41	1.41
Timothy hay, late seed	89.0	5.3	2.3	31.0	45.9	4.5	0.14	0.15	0.85	1.41
Timothy hay, in bloom, dehydrated	89.0	7.7	2.3	28.3	45.5	5.2	—	—	1.23	—
Timothy hay, second cutting	88.7	15.0	4.6	25.4	36.5	7.2	—	—	2.40	—
Timothy and clover hay, one-fourth clover	88.8	7.8	2.4	29.5	43.8	5.3	0.51	0.20	1.25	1.48
Velvet bean hay	92.8	16.4	3.1	27.5	38.4	7.4	—	0.24	2.62	2.20
Vetch hay, common	89.0	13.3	1.1	25.2	32.2	6.2	1.18	0.32	2.13	2.22
Vetch hay, hairy	88.0	19.3	2.6	24.5	33.1	8.5	1.13	0.32	3.09	1.96
Vetch-and-oat hay, over half vetch	87.6	11.9	2.7	27.3	37.5	8.2	0.76	0.27	1.90	1.51
Vetch-and-wheat hay, cut early	90.0	15.4	2.2	28.8	36.4	7.2	—	—	2.46	—
Wheat chaff	90.0	4.4	1.5	29.4	47.1	7.6	0.21	0.14	0.70	0.50
Wheat hay	90.4	6.1	1.8	26.1	50.0	6.4	0.14	0.18	0.98	1.47
Wheat straw	92.5	3.9	1.5	36.9	41.9	8.3	0.21	0.07	0.62	0.79
Wheat grass hay, crested, cut early	90.0	9.2	2.0	32.2	40.2	6.4	—	—	1.47	—
Wheat grass hay, slender	90.0	8.0	2.1	32.2	41.0	6.7	0.30	0.24	1.28	2.41
Winter fat, or white sage, dried (<i>Eurotia lanata</i>)	92.6	12.9	1.9	27.4	40.8	9.6	—	—	2.06	—
Wire grass hay, southern (<i>Aristida</i> , spp.)	90.0	5.5	1.4	31.8	47.9	3.4	0.15	0.14	0.88	—
Wire grass hay, western (<i>Aristida</i> , spp.)	90.0	6.4	1.3	34.1	41.0	7.2	—	—	1.02	—
Yucca, or beargrass, dried	92.6	6.6	2.2	38.6	38.3	6.9	—	—	1.06	—

CONCENTRATES

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Acorns, whole (red oak)	50.0	3.2	10.7	9.9	25.0	1.2	—	—	0.51	—
Acorns, whole (white and post oaks)	50.0	2.7	3.0	9.3	33.7	1.3	—	—	0.43	—
Alfalfa-molasses feed	86.0	11.4	1.2	18.5	46.2	8.7	—	—	1.82	—
Alfalfa seed	88.3	33.2	10.6	8.1	32.0	4.4	—	—	5.31	—

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Alfalfa seed screenings	90.3	31.1	9.9	11.1	33.1	5.1	—	—	4.98	—
Apple-pectin pulp, dried	91.2	7.0	7.3	24.2	49.4	3.3	—	—	1.12	—
Apple-pectin pulp, wet	16.7	1.5	0.9	5.8	7.9	0.6	—	—	0.24	—
Apple pomace, dried	89.4	4.5	5.0	15.6	62.1	2.2	0.10	0.09	0.72	0.43
Apple pomace, wet	21.1	1.3	1.3	3.7	13.9	0.9	0.02	0.02	0.21	0.10
Atlas sorghum grain	89.1	11.3	3.3	2.0	70.6	1.9	—	—	1.81	—
Atlas sorghum head chops	88.0	9.5	2.8	10.7	60.2	4.8	—	—	1.52	—
Avocado oil meal	91.4	18.6	1.1	17.6	36.0	18.1	—	—	2.98	—
Babassu oil meal	92.8	24.2	6.8	12.0	44.6	5.2	0.13	0.71	3.87	—
Bakery waste, dried (high in fat)	91.6	10.9	13.7	0.7	64.7	1.6	—	—	1.74	—
Barley, common, not including Pacific Coast states	89.4	12.7	1.9	5.4	66.6	2.8	0.06	0.37	2.03	0.49
Barley, Pacific Coast states	89.8	8.7	1.9	5.7	70.9	2.6	—	—	1.39	—
Barley, light weight	89.1	12.1	2.1	7.4	64.3	3.2	—	—	1.94	—
Barley, hull-less, or bald	90.2	11.6	2.0	2.4	72.1	2.1	—	—	1.86	—
Barley feed, high grade	90.3	13.5	3.5	8.7	60.5	4.1	0.03	0.40	2.16	0.60
Barley feed, low grade	92.0	12.3	3.45	14.7	56.2	5.3	—	—	1.97	—
Barley, malted	93.4	12.7	2.1	5.4	70.9	2.3	0.06	0.42	2.03	0.37
Barley screenings	88.6	11.6	2.7	9.1	61.3	3.9	—	—	1.86	—
Beans, field, or navy	90.0	22.9	1.4	4.2	57.3	4.2	0.15	0.57	3.66	1.27
Beans, kidney	89.0	23.0	1.2	4.1	56.8	3.9	—	—	3.68	—
Beans, lima	89.7	21.2	1.1	4.7	58.2	4.5	0.09	0.37	3.39	1.70
Beans, mung	90.2	23.3	1.0	3.5	58.5	3.9	—	—	3.73	—
Beans, pinto	89.9	22.5	1.2	4.1	57.7	4.4	—	—	3.60	—
Beans, tepary	90.5	22.2	1.4	3.4	59.3	4.2	—	—	3.56	—
Beechnuts	91.4	15.0	30.6	15.0	27.5	3.3	0.58	0.30	2.40	0.62
Beef scraps	94.5	55.6	10.9	1.2	0.5	26.3	—	—	8.90	—
Beet pulp, dried	90.1	9.2	0.5	19.8	57.2	3.4	0.67	0.08	1.47	0.18
Beet pulp, molasses, dried	91.9	10.7	0.7	16.0	59.4	5.1	0.62	0.09	1.71	1.63
Beet pulp, wet	11.6	1.5	0.3	4.0	5.3	0.5	0.09	0.01	0.24	0.02
Beet pulp, wet, pressed	14.2	1.4	0.4	4.6	7.1	0.7	—	—	0.22	—
Blood flour, or soluble blood meal	92.2	84.7	1.0	1.1	0.7	4.7	0.68	0.50	13.55	—
Blood meal	91.8	84.5	1.1	1.0	0.7	4.5	0.33	0.25	13.52	0.09
Bone meal, raw	93.6	26.0	5.0	1.0	2.5	59.1	23.05	10.22	4.16	—
Bone meal, raw, solvent process	93.1	25.7	1.0	1.0	1.9	63.5	24.02	10.65	4.11	—
Bone meal, steamed	96.3	7.1	3.3	0.8	3.8	81.3	31.74	15.00	1.14	0.18
Bone meal, steamed, solvent process	96.8	7.2	0.4	1.5	3.7	84.0	—	—	1.15	—
Bone meal, steamed, special	97.7	13.5	7.9	1.0	5.1	70.2	31.88	13.48	2.16	—
Bone meal, 10 to 20% protein	97.2	14.6	6.5	1.5	3.6	71.0	26.00	12.66	2.34	—
Bread, white, enriched	64.1	8.5	2.0	0.3	52.0	1.3	0.06	0.10	1.36	0.10
Brewers' grains, dried, 25% protein or over	92.9	27.6	6.5	14.3	40.9	3.6	0.29	0.48	4.42	0.10
Brewers' grains, dried, below 25% protein	92.3	23.4	6.4	16.1	42.5	3.9	—	—	3.74	—
Brewers' grains, dried, from California barley	91.1	20.0	5.7	18.1	43.6	3.7	—	—	3.20	—
Brewers' grains, wet	23.7	5.7	1.6	3.6	11.8	1.0	0.07	0.12	0.91	0.02
Broom corn seed	89.7	9.2	3.7	5.1	69.1	2.6	—	—	1.47	—
Buckwheat, ordinary varieties	88.0	10.3	2.3	10.7	62.8	1.9	0.09	0.31	1.64	0.45

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Buckwheat, Tartary	88.1	10.1	2.4	12.7	60.9	2.0	0.13	0.31	1.62	0.44
Buckwheat feed, good grade	89.3	18.5	4.9	18.2	43.5	4.2	—	0.48	2.96	0.66
Buckwheat feed, low grade	88.3	13.3	3.4	28.6	39.8	3.2	—	0.37	2.13	0.68
Buckwheat flour	88.1	10.2	2.1	0.9	73.4	1.5	0.01	0.09	1.63	0.16
Buckwheat kernels, without hulls	88.0	14.1	3.4	1.8	66.5	2.2	0.05	0.45	2.26	0.49
Buckwheat middlings	88.7	29.7	7.3	7.4	39.4	4.9	—	1.02	4.76	0.98
Buttermilk	9.4	3.5	0.6	0	4.5	0.8	0.14	0.08	0.56	0.07
Buttermilk, condensed	29.7	10.9	2.2	0	12.6	4.0	0.44	0.26	1.74	0.23
Buttermilk, dried	92.4	32.4	6.4	0.3	43.3	10.0	1.36	0.82	5.18	0.71
Carob bean and pods	87.8	5.5	2.6	8.7	68.5	2.5	—	—	0.88	—
Carob bean pods	89.5	4.7	2.5	8.7	70.9	2.7	—	—	0.75	—
Carob bean seeds	88.5	16.7	2.6	7.6	58.4	3.2	—	—	2.67	—
Cassava roots, dried	94.4	2.8	0.5	5.0	84.1	2.0	—	—	0.45	—
Cassava meal (starch waste)	86.8	0.9	0.7	4.6	78.8	1.8	—	0.03	0.14	0.23
Cheese rind, or cheese meal	91.0	59.5	8.9	0.4	10.7	11.5	—	—	9.52	—
Chess, or cheat, seed	89.6	9.7	1.7	8.2	66.4	3.6	—	—	1.56	—
Chick peas	90.0	20.3	4.3	8.5	54.0	2.9	—	—	3.24	—
Citrus pulp, dried	90.1	5.9	3.1	11.5	62.7	6.9	2.07	0.15	0.94	—
Citrus pulp and molasses, dried	92.0	5.3	2.8	9.3	66.6	8.0	—	—	0.84	—
Citrus pulp, wet	18.3	1.2	0.6	2.3	12.8	1.4	—	—	0.19	—
Clover seed, red	87.5	32.6	7.8	9.2	31.2	6.7	—	—	5.22	—
Clover seed screenings, red	90.5	28.2	5.9	10.2	40.3	5.9	—	—	4.51	—
Clover seed screenings, sweet	90.1	21.7	3.7	14.7	41.1	8.9	—	—	3.47	—
Cocoa meal	96.0	24.3	17.1	5.1	43.7	5.8	—	—	3.89	—
Cocoa shells	95.1	15.4	3.0	16.5	49.9	10.3	—	0.59	2.46	2.16
Coconut oil meal, hydr. or exp. process	93.2	21.3	6.7	10.7	48.3	6.2	0.21	0.64	3.41	1.95
Coconut oil meal, high in fat	93.7	21.0	10.6	11.3	44.4	6.4	—	—	3.36	—
Coconut oil meal, solvent process	91.1	21.4	2.4	13.3	47.4	6.6	—	—	3.42	—
Cod-liver oil meal	92.5	50.4	28.9	0.7	9.6	2.9	0.18	0.61	8.06	—
Corn, dent, Grade No. 1	87.0	8.8	4.0	2.1	70.9	1.2	0.02	0.28	1.41	0.28
Corn, dent, Grade No. 2	85.0	8.6	3.9	2.0	69.3	1.2	0.02	0.27	1.38	0.27
Corn, dent, Grade No. 3	83.5	8.4	3.8	2.0	68.1	1.2	0.02	0.27	1.34	0.27
Corn, dent, Grade No. 4	81.1	8.2	3.7	1.9	66.2	1.1	0.02	0.26	1.31	0.26
Corn, dent, Grade No. 5	78.5	7.9	3.6	1.9	64.0	1.1	0.02	0.25	1.26	0.25
Corn, dent, soft or immature	70.0	7.2	2.3	2.5	56.5	1.5	—	0.24	1.16	0.26
Corn, flint	88.5	9.8	4.3	1.9	71.0	1.5	—	0.33	1.57	0.32
Corn, pop	90.0	11.5	5.0	1.9	70.1	1.5	—	0.29	1.84	—
Corn ears, including kernels and cobs (corn-and-cob meal)	86.1	7.3	3.2	8.0	66.3	1.3	—	0.22	1.17	0.29
Corn ears, soft or immature	64.3	5.8	1.9	7.8	47.7	1.1	—	—	0.93	—
Corn, snapped, or ear-corn chops with husks	88.8	8.0	3.0	10.6	64.8	2.4	—	—	1.28	—
Corn, snapped, very soft or immature	60.0	5.3	1.8	8.2	42.7	2.0	—	—	0.85	—
Corn bran	90.6	9.7	7.3	9.2	62.0	2.4	0.03	0.27	1.56	0.56
Corn feed meal	88.6	9.8	4.7	2.9	69.2	2.0	0.03	0.34	1.57	0.28
Corn germ meal	93.0	19.8	7.8	8.9	53.2	3.3	—	0.58	3.17	0.21
Corn gluten feed, all analyses	90.9	25.5	2.7	7.6	48.8	6.3	0.48	0.82	4.08	0.54

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Corn gluten feed, 25% protein guarantee	91.1	26.6	3.0	7.2	48.2	6.1	—	—	4.26	—
Corn gluten feed, 23% protein guarantee	91.4	24.8	2.6	7.8	49.8	6.4	—	—	3.97	—
Corn gluten feed with molasses	88.8	22.6	2.1	6.8	50.9	6.4	—	—	3.62	—
Corn gluten meal, all analyses	91.4	43.1	2.0	4.0	39.8	2.5	0.13	0.38	6.90	0.02
Corn gluten meal, 41% protein guarantee	91.4	42.9	2.0	3.9	40.1	2.5	—	—	6.86	—
Corn grits	88.4	8.5	0.5	0.6	78.4	0.4	—	—	1.36	—
Corn meal, degerminated, yellow	88.7	8.7	1.2	0.6	77.1	1.1	0.01	0.14	1.39	—
Corn meal, degerminated, white	88.4	8.6	1.2	0.7	76.1	1.8	0.01	0.14	1.38	—
Corn oil meal, old process	91.7	22.3	7.8	10.3	49.0	2.3	0.06	0.56	3.57	—
Corn oil meal, solvent process	91.7	23.0	1.5	10.4	54.6	2.2	0.03	0.50	3.68	—
Corn-starch	88.6	11.6	0.6	0.1	0.2	87.6	0.1	—	—	0.10
Corn-and-oat feed, good grade	89.6	11.9	4.0	5.4	65.9	2.4	0.05	0.30	1.90	0.34
Corn-and-oat feed, low grade	89.6	9.1	2.9	13.4	59.0	5.2	—	—	1.46	—
Cottonseed, whole	92.7	23.1	22.9	16.9	26.3	3.5	0.14	0.70	3.70	1.11
Cottonseed, immature, dried	93.2	20.5	15.9	24.1	29.0	3.7	—	—	3.28	—
Cottonseed, whole pressed, 28% protein guarantee	93.5	28.2	5.8	22.6	32.2	4.7	—	—	4.51	—
Cottonseed, whole pressed, below 28% protein	93.5	26.9	6.5	24.7	30.8	4.6	0.17	0.64	4.30	1.25
Cottonseed feed, below 36% protein	92.4	34.6	6.3	14.1	31.5	5.9	0.26	0.83	5.54	1.22
Cottonseed flour	94.4	57.0	7.2	2.1	21.6	6.5	—	—	9.12	—
Cottonseed kernels, without hulls	93.6	38.4	33.3	2.3	15.1	4.5	—	—	6.14	—
Cottonseed meal, 45% protein and over	93.5	46.2	7.7	8.6	24.9	6.1	0.22	1.13	7.39	—
Cottonseed meal, 43% protein grade, not including Texas analyses	92.7	43.9	7.1	9.0	26.3	6.4	0.23	1.12	7.02	1.45
Cottonseed meal, 43% protein grade, Texas analyses	92.5	42.7	6.4	10.6	27.0	5.8	0.19	0.96	6.83	1.34
Cottonseed meal, 41% protein grade, not including Texas analyses	92.8	41.5	6.3	10.4	28.1	6.5	0.20	1.22	6.64	1.48
Cottonseed meal, 41% protein grade, Texas analyses	92.1	41.0	6.0	11.6	27.6	5.9	—	—	6.56	—
Cottonseed meal, below 41% protein grade	92.4	38.2	6.2	12.3	29.4	6.3	0.23	1.29	6.11	1.57
Cottonseed meal, solvent process	90.8	44.4	2.6	12.7	24.3	6.8	—	—	7.10	—
Cowpea seed	89.0	23.4	1.4	4.0	56.7	3.5	0.11	0.46	3.74	1.30
Crab meal	92.4	31.5	2.0	10.7	5.0	43.2	15.15	1.63	5.04	0.45
Darso grain	90.0	10.1	3.1	1.9	73.5	1.4	0.02	0.32	1.62	—
Distillers' dried corn grains, without solubles	92.9	28.3	8.8	11.4	41.9	2.5	0.11	0.47	4.53	0.24
Distillers' dried corn grains, with solubles	93.1	28.8	8.9	9.0	41.7	4.7	0.16	0.74	4.61	—
Distillers' dried corn grains, solvent extracted	93.7	33.4	1.4	8.6	46.4	3.9	—	—	5.34	—
Distillers' dried rye grains	93.9	18.5	6.4	15.6	51.0	2.4	0.13	0.43	2.96	0.04
Distillers' rye grains, wet	22.4	4.4	1.5	2.5	13.3	0.7	—	—	0.70	—
Distillers' dried wheat grains	93.7	28.7	6.1	13.0	42.2	3.7	—	—	4.59	—
Distillers' dried wheat grains, high protein	94.7	46.2	5.7	10.9	30.0	1.9	—	—	7.39	—
Distillers' solubles, dried, corn	93.0	26.7	7.9	2.6	48.4	7.4	0.30	1.41	4.27	1.75
Distillers' solubles, dried, wheat	94.0	28.2	1.5	2.8	58.9	2.6	—	—	4.51	—
Distillery stillage, corn, whole	7.9	2.3	0.6	0.7	4.0	0.3	0.006	0.05	0.37	—
Distillery stillage, rye, whole	5.9	1.9	0.3	0.5	2.9	0.3	—	—	0.30	—

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Distillery stillage, strained	3.8	1.1	0.4	0.2	1.8	0.3	0.004	0.05	0.18	—
Durra grain	89.8	10.3	3.5	1.6	72.4	2.0	—	—	1.64	—
Emmer grain	91.1	12.1	1.9	9.8	63.6	3.7	—	0.33	1.94	0.47
Feterita grain	89.4	12.2	3.2	2.2	70.1	1.7	0.02	0.33	1.96	—
Feterita head chops	89.6	10.7	2.6	7.4	65.7	3.2	—	—	1.71	—
Fish-liver oil meal	92.8	62.8	17.3	1.2	5.4	6.1	—	—	10.04	—
Fish meal, all analyses	92.9	63.9	6.8	0.6	4.0	17.6	4.14	2.67	10.22	0.40
Fish meal, over 63% protein	92.7	66.8	5.3	0.5	4.5	15.6	—	—	10.69	—
Fish meal, 58-63% protein	93.1	60.9	8.1	0.8	3.5	19.8	—	—	9.74	—
Fish meal, below 58% protein	93.2	56.2	11.0	0.7	2.9	22.4	—	—	8.99	—
Fish meal, herring	93.5	72.5	7.3	0.7	1.5	11.5	2.97	2.08	11.60	—
Fish meal, menhaden	93.6	62.2	8.5	0.7	4.2	18.0	5.30	3.38	9.96	—
Fish meal, redfish	94.2	56.7	11.4	0.9	0.9	24.3	4.01	2.44	9.07	—
Fish meal, salmon	92.8	59.4	9.8	0.3	4.3	19.0	5.49	3.65	9.50	—
Fish meal, sardine	93.1	67.2	5.0	0.6	5.4	14.9	4.21	2.54	10.76	0.33
Fish meal, tuna	90.1	58.2	7.9	0.7	3.4	19.9	4.80	3.10	9.31	—
Fish meal, whitefish	90.4	63.0	6.7	0.1	0.1	20.5	—	—	10.08	—
Fish solubles, condensed	49.5	29.3	8.4	—	2.2	9.6	—	—	4.69	—
Flaxseed	93.8	24.0	35.9	6.3	24.0	3.6	0.26	0.55	3.84	0.59
Flaxseed screenings	91.1	16.4	9.4	12.7	45.8	6.8	0.37	0.43	2.62	—
Flaxseed screenings oil feed	91.9	25.0	7.1	11.7	40.3	7.8	—	—	4.00	—
Garbage	39.3	6.0	7.2	1.1	22.2	2.8	—	—	0.96	—
Garbage, processed, high in fat	95.9	17.5	23.7	20.0	21.8	12.9	—	0.33	2.80	0.62
Garbage, processed, low in fat	92.3	23.1	3.5	13.5	38.1	14.1	—	—	3.70	—
Grapefruit pulp, dried	91.7	4.9	1.1	11.9	69.6	4.2	—	—	0.78	—
Grape pomace, dried	91.0	12.2	6.9	30.2	36.7	5.0	—	—	1.96	—
Hegari grain	89.7	9.6	2.6	2.0	73.9	1.6	0.18	0.30	1.54	—
Hegari head chops	89.6	10.0	2.1	11.9	60.6	5.0	—	—	1.60	—
Hempseed oil meal	92.0	31.0	6.2	23.8	22.0	9.0	0.25	0.43	4.96	—
Hominy feed, 5% fat or more	90.4	11.2	6.9	5.2	64.2	2.9	0.22	0.71	1.79	0.61
Hominy feed, low in fat	89.7	10.6	4.3	5.0	67.4	2.4	—	—	1.70	—
Horse beans	87.5	25.7	1.4	8.2	48.8	3.4	0.13	0.54	4.11	1.16
Ivory nut meal, vegetable	89.4	4.7	0.9	7.2	75.5	1.1	—	—	0.76	—
Jack beans	89.3	24.7	3.2	8.2	50.4	2.8	—	—	3.96	—
Kafir grain	89.8	10.9	2.9	1.7	72.7	1.6	0.02	0.31	1.74	0.34
Kafir head chops	89.2	10.0	2.6	6.9	66.4	3.3	0.08	0.27	1.60	—
Kalo sorghum grain	89.2	11.8	3.2	1.6	70.9	1.7	—	—	1.89	—
Kaoliang grain	89.9	10.5	4.1	1.6	71.8	1.9	—	—	1.68	—
Kelp, dried	91.3	6.5	0.5	6.5	42.6	35.2	2.48	0.28	1.04	—
Lamb's-quarters seed	90.0	20.6	4.5	15.1	40.2	9.6	—	—	3.30	—
Lespedeza seed, annual	91.7	36.6	7.6	9.6	32.8	5.1	—	—	5.86	—
Lespedeza seed, sericea	92.3	33.5	4.2	13.5	37.3	3.8	—	—	5.36	—
Lemon pulp, dried	92.8	6.4	1.2	15.0	65.2	5.0	—	—	1.02	—
Linseed meal, old process, all analyses	91.0	35.4	5.8	8.2	36.0	5.6	0.39	0.87	5.66	1.24
Linseed meal, o.p., 37% protein or more	90.9	38.0	5.9	7.7	33.7	5.6	0.39	0.86	6.08	1.10
Linseed meal, o.p., 33-37% protein	91.0	35.0	5.7	8.3	36.4	5.6	0.41	0.86	5.60	1.14

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Linseed meal, o.p., 31-33% protein	91.0	32.4	5.9	8.3	38.7	5.7	0.36	0.90	5.18	1.40
Linseed meal, solvent process, older analyses	90.4	36.9	2.9	8.7	36.3	5.6	—	—	5.90	—
Linseed meal and screenings oil feed (linseed feed)	90.5	31.2	5.4	10.1	37.0	6.8	0.43	0.65	4.99	—
Liver meal, animal	92.3	66.2	16.4	1.4	1.9	6.4	0.62	1.27	10.59	—
Locust beans and pods, honey	88.4	9.3	2.4	16.1	57.1	3.5	—	—	1.49	—
Lupine seed, sweet, yellow	88.9	39.8	4.9	14.0	25.7	4.5	0.23	0.39	6.37	0.81
Malt, barley	90.6	14.3	1.6	1.8	70.6	2.3	0.08	0.47	2.29	—
Malt sprouts	92.6	26.8	1.3	14.2	44.3	6.0	—	—	4.29	—
Meat scraps, or dry-rendered tankage, 60% protein grade	93.8	60.9	8.8	2.4	1.1	20.6	6.09	3.49	9.74	—
Meat scraps, or dry-rendered tankage, 55% protein grade	93.9	55.8	9.3	2.1	1.3	25.4	8.33	4.04	8.93	—
Meat scraps, or dry-rendered tankage, 55% protein grade, low fat	93.0	56.0	3.5	2.6	1.5	29.4	—	—	8.96	—
Meat scraps, or dry-rendered tankage, 52% protein grade	93.1	52.9	7.3	2.2	4.3	26.4	—	—	8.46	—
Meat and bone scraps, or dry-rendered tankage with bone, 50% protein grade	93.9	51.0	10.1	2.1	1.6	29.1	9.71	4.81	8.16	—
Meat and bone scraps, or dry-rendered tankage with bone, 45% protein grade	94.5	46.3	12.0	2.0	2.3	31.9	11.21	4.88	7.41	—
Mesquite beans and pods	94.0	13.0	2.8	26.3	47.4	4.5	—	—	2.08	—
Milk, cow's	12.8	3.5	3.7	0	4.9	0.7	0.12	0.09	0.56	0.14
Milk, ewe's	19.2	6.5	6.9	0	4.9	0.9	0.21	0.12	1.04	0.19
Milk, goat's	12.8	3.7	4.1	0	4.2	0.8	0.13	0.10	0.59	0.15
Milk, mare's	9.4	2.0	1.1	0	5.9	0.4	0.08	0.05	0.32	0.08
Milk, sow's	19.0	5.9	6.7	0	5.4	1.0	—	—	0.94	—
Milk albumin, or lactalbumin, commercial	92.0	49.5	0.9	1.0	12.8	27.8	—	—	7.92	—
Milk, whole, dried	96.8	24.8	26.2	0.2	40.2	5.4	—	—	3.97	—
Millet seed, foxtail varieties	89.1	12.1	4.1	8.6	60.7	3.6	—	0.20	1.94	0.31
Millet seed, hog, or proso	90.4	11.9	3.4	8.1	63.7	3.3	0.05	0.30	1.90	0.43
Millet seed, Japanese	89.8	10.6	4.9	14.6	54.7	5.0	—	0.44	1.70	0.33
Milo grain	89.4	11.3	2.9	2.2	71.3	1.7	0.03	0.30	1.81	0.36
Milo head chops	90.1	10.2	2.5	6.9	66.2	4.3	0.14	0.26	1.63	—
Molasses, beet	80.5	8.4	0	0	62.0	10.1	0.08	0.02	1.34	4.77
Molasses, beet, Steffen's process	78.7	7.8	0	0	62.1	8.8	0.11	0.02	1.25	4.66
Molasses, cane, or blackstrap	74.0	2.9	0	0	62.1	9.0	0.74	0.08	0.46	3.67
Molasses, cane, high in sugar	79.7	1.3	0	0	74.9	3.5	—	—	0.21	—
Molasses, citrus	69.9	4.0	0.2	0	61.3	4.4	—	—	0.64	—
Molasses, corn sugar, or hydrol	80.5	0.2	0	0	77.8	2.5	—	—	0.03	—
Mustard seed, wild yellow	95.9	23.0	38.8	5.0	23.6	5.5	—	—	3.68	—
Oat clippings, or clipped-oat by-product	92.2	8.8	2.3	25.3	44.9	10.9	—	—	1.41	—
Oat kernels, without hulls (oat groats)	90.4	16.3	6.1	2.1	63.7	2.2	0.08	0.46	2.61	0.39
Oat meal, feeding, or rolled oats without hulls	90.8	16.0	5.5	2.7	64.2	2.4	0.07	0.46	2.56	0.37
Oat middlings	91.4	15.9	5.2	3.3	64.6	2.4	0.08	0.45	2.54	0.57
Oat mill feed	92.4	5.6	1.8	27.9	50.8	6.3	0.13	0.16	0.90	0.60

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Oat mill feed, poor grade	92.4	4.3	1.8	30.5	50.2	5.6	—	—	0.69	—
Oat mill feed, with molasses	92.4	5.5	1.4	24.1	55.0	6.4	—	—	0.88	—
Oats, not including Pacific Coast states	90.2	12.0	4.6	11.0	58.6	4.0	0.09	0.34	1.92	0.43
Oats, Pacific Coast states	91.2	9.0	5.4	11.0	62.1	3.7	—	—	1.44	—
Oats, hull-less	90.0	15.4	4.2	2.6	65.7	2.1	—	—	2.46	—
Oats, light weight	91.3	12.3	4.7	15.4	54.4	4.5	—	—	1.97	—
Oats, wild	89.0	12.7	5.5	15.2	50.9	4.7	—	—	2.03	—
Olive pulp, dried, pits removed	95.1	14.0	27.4	19.3	31.0	3.4	—	—	2.24	—
Olive pulp, dried, with pits	92.0	5.9	15.6	36.5	31.5	2.5	—	—	0.94	—
Orange pulp, dried	87.9	7.7	1.5	8.0	67.3	3.4	—	—	1.23	—
Palm-kernel oil meal	91.4	19.2	6.7	11.9	49.7	3.9	—	0.69	3.07	0.42
Palm seed, Royal	86.5	6.1	8.3	22.8	43.8	5.5	—	—	0.98	—
Palmo middlings	94.1	16.1	9.7	6.7	56.3	5.3	—	—	2.58	—
Pea feed, or pea meal	90.0	17.7	1.4	23.7	43.7	3.5	—	—	2.83	—
Pea hulls of seeds, or bran	91.5	4.8	0.4	48.5	34.3	3.5	—	—	0.77	—
Pea seed, field	90.7	23.4	1.2	6.1	57.0	3.0	0.17	0.51	3.74	1.03
Pea seed, field, cull	89.7	24.8	2.5	7.1	52.0	3.3	—	—	3.97	—
Pea seed, garden	89.2	25.3	1.7	5.7	53.6	2.9	0.08	0.40	4.04	0.90
Peanut kernels, without hulls	94.6	30.4	47.7	2.5	11.7	2.3	0.06	0.44	4.86	—
Peanut oil feed	94.5	37.8	9.6	14.3	26.2	6.6	—	6.04	—	—
Peanut oil feed, unhulled, or whole pressed peanuts	93.1	35.0	9.2	22.5	21.4	5.0	—	—	5.60	—
Peanut oil meal, old process, all analyses	93.0	43.5	7.6	13.3	23.4	5.2	0.16	0.54	6.96	1.15
Peanut oil meal, o.p., 45% protein and over	93.4	45.2	7.4	12.1	23.7	5.0	—	—	7.23	—
Peanut oil meal, o.p., 43% protein grade	92.8	43.1	7.6	13.9	23.0	5.2	—	—	6.90	—
Peanut oil meal, o.p., 41% protein grade	93.8	41.8	7.8	12.7	25.9	5.6	—	—	6.69	—
Peanut oil meal, solvent process	91.6	51.5	1.4	5.7	27.2	5.8	—	—	8.24	—
Peanut skins	93.8	16.3	23.9	11.8	39.1	2.7	—	—	2.61	—
Peanut screenings	93.6	23.8	11.5	18.9	33.0	6.4	—	—	3.81	—
Peanuts, with hulls	94.1	24.9	36.2	17.5	12.6	2.9	—	0.33	3.98	0.53
Perilla oil meal	91.9	38.4	8.4	20.9	16.0	8.2	0.56	0.47	6.14	—
Pigeon-grass seed	89.8	14.4	6.0	17.3	45.8	6.3	—	—	2.30	—
Pigweed seed	90.0	16.8	6.2	15.9	47.8	3.3	—	—	2.69	—
Pineapple bran, or pulp, dried	85.3	4.0	1.9	19.4	57.2	2.8	0.20	0.10	0.64	—
Pineapple bran, or pulp, and molasses, dried	87.4	3.9	1.0	15.9	63.4	3.2	—	—	0.62	—
Poppy-seed oil meal	89.2	36.6	7.9	11.6	20.7	12.4	—	—	5.86	—
Potato meal, or dried potatoes	92.8	10.4	0.3	2.0	75.8	4.3	0.08	0.22	1.66	1.97
Potato pomace, dried	89.1	6.6	0.5	10.3	69.0	2.7	—	—	1.06	—
Pumpkin seed, not dried	55.0	17.6	20.6	10.8	4.1	1.9	—	—	2.82	—
Raisin pulp, dried	89.4	9.6	7.8	16.1	50.6	5.3	—	—	1.54	—
Raisins, cull	84.8	3.4	0.9	4.4	73.1	3.0	—	—	0.54	—
Rape seed	90.5	20.4	43.6	6.6	15.7	4.2	—	—	3.26	—
Rape-seed oil meal	89.5	33.5	8.1	10.8	30.2	6.9	—	—	5.36	—
Rice, brewers'	88.3	7.5	0.6	0.6	78.8	0.8	0.04	0.10	1.20	—
Rice, brown	87.8	9.1	2.0	1.1	74.5	1.1	0.04	0.25	1.46	—
Rice, polished	87.8	7.4	0.4	0.4	79.1	0.5	0.01	0.09	1.18	0.04

Material	Total dry matter Per ct.	Protein Per ct.	Fat Per ct.	Fiber Per ct.	N-free extract Per ct.	Total minerals Per ct.	Calcium Per ct.	Phos- phorus Per ct.	Nitro- gen Per ct.	Potas- sium Per ct.
Rice bran	90.9	12.5	13.5	12.0	39.4	13.5	0.08	1.36	2.00	1.08
Rice grain, or rough rice	88.8	7.9	1.8	9.0	64.9	5.2	0.08	0.32	1.26	0.34
Rice polishings, or rice polish	89.8	12.8	13.2	2.8	51.4	9.6	0.04	1.10	2.04	1.17
Rubber seed oil meal	91.1	28.8	9.2	10.0	37.6	5.5	—	—	4.61	—
Rye grain	89.5	12.6	1.7	2.4	70.9	1.9	0.10	0.33	2.02	0.47
Rye feed	90.4	16.1	3.3	4.6	62.7	3.7	0.08	0.69	2.58	0.83
Rye flour	88.6	11.2	1.3	0.6	74.6	0.9	0.02	0.28	1½79	0.46
Rye flour middlings	90.6	16.5	3.5	4.2	63.1	3.3	—	—	2.64	—
Rye middlings	90.2	16.6	3.4	5.2	61.2	3.8	—	0.44	2.66	0.63
Rye middlings and screenings	90.4	16.7	3.8	6.1	59.5	4.3	—	—	2.67	—
Safflower seed	93.1	16.3	29.8	26.6	17.5	2.9	—	—	2.61	—
Safflower seed oil meal, from hulled seed	91.0	38.0	6.8	21.0	17.0	8.2	—	—	6.08	—
Safflower-seed oil meal from unhulled seed	91.0	18.2	5.5	40.4	24.1	2.8	—	—	2.91	—
Sagrain sorghum grain	90.0	9.5	3.5	2.1	73.4	1.5	0.43	0.39	1.52	—
Screenings, grain, good grade	90.0	15.8	5.2	9.2	54.3	5.5	—	—	2.53	—
Screenings, grain, chaffy	91.5	14.3	4.4	18.3	46.1	8.4	—	—	2.29	—
Schrock sorghum grain	89.1	10.2	3.0	3.4	70.8	1.7	—	—	1.63	—
Sesame oil meal	93.7	42.8	9.4	6.2	22.8	12.5	2.02	1.61	6.84	1.35
Sesbania seed	90.8	31.7	4.3	13.5	38.0	3.3	—	—	5.07	—
Shallu grain	89.8	13.4	3.7	1.9	68.9	1.9	—	—	2.14	—
Shallu head chops	90.5	12.7	3.5	9.2	61.9	3.2	—	—	2.03	—
Shark meal	91.2	74.5	2.7	0.5	0	13.5	3.48	1.92	12.69	—
Shrimp meal	89.7	46.7	2.8	11.1	1.3	27.8	—	—	7.47	—
Skim milk, centrifugal	9.5	3.6	0.1	0	5.1	0.7	0.13	0.10	0.58	0.15
Skim milk, gravity	10.1	3.6	0.8	0	5.0	0.7	0.13	0.10	0.58	0.15
Skim milk, dried	94.2	34.7	1.2	0.2	50.3	7.8	1.30	1.03	5.56	1.46
Sorghum seed, sweet	89.2	9.5	3.3	2.0	72.8	1.6	0.02	0.28	1.52	0.37
Soybean seed	90.0	37.9	18.0	5.0	24.5	4.6	0.25	0.59	6.06	1.50
Soybean flour, medium in fat	92.9	47.9	6.7	2.4	29.9	6.0	—	—	7.66	—
Soybean flour, solvent extracted	91.5	48.5	0.8	2.6	33.0	6.6	—	—	7.76	—
Soybean mill feed, chiefly hulls	90.8	11.8	2.7	34.0	38.1	4.2	—	—	1.89	—
Soybean oil meal, expeller or hydraulic process, all analyses	90.0	44.3	5.3	5.7	29.6	6.0	0.29	0.66	7.09	1.77
Soybean oil meal, exp. or hydr. process, 44-45% protein guarantee	91.3	45.4	5.3	5.4	29.3	5.9	0.31	0.68	7.26	1.92
Soybean oil meal, exp. or hydr. process, 43% protein guarantee	91.2	44.6	5.3	5.8	29.4	6.1	0.30	0.67	7.14	—
Soybean oil meal, exp. or hydr. process, 41% protein guarantee	90.9	44.2	5.3	5.7	29.7	6.0	0.26	0.59	7.07	—
Soybean oil meal, solvent process	90.6	46.1	1.0	5.9	31.8	5.8	0.30	0.66	7.38	1.92
Starfish meal	96.5	30.6	5.8	1.9	14.3	43.9	—	—	4.90	—
Sudan-grass seed	92.4	14.2	2.4	25.4	38.4	12.0	—	—	2.27	—
Sunflower seed	93.6	16.8	25.9	29.0	18.8	3.1	—	0.55	2.69	0.66
Sunflower seed, hulled	95.5	27.7	41.4	6.3	16.3	3.8	0.20	0.96	4.43	0.92
Sunflower-seed oil cake, from unhulled seed, solvent process	89.2	19.6	1.1	35.9	27.0	5.6	—	—	3.14	—

Material

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Sunflower-seed oil cake, from hulled seed, hydr. process	90.6	36.3	13.5	14.2	20.2	6.4	0.43	1.04	5.81	1.08
Sweet clover seed	92.2	37.4	4.2	11.3	35.8	3.5	—	—	5.98	—
Sweet potatoes, dried	90.3	4.9	0.9	3.3	77.1	4.1	0.21	0.18	0.78	—
Tankage or meat meal, digester process, 60% protein grade	93.1	60.6	8.5	2.0	1.8	20.2	6.37	3.23	9.70	0.46
Tankage with bone, or meat and bone meal, digester process, 50% protein grade	93.5	51.3	11.5	2.3	2.3	26.1	10.97	5.14	8.21	—
Tankage with bone, or meat and bone meal, digester process, 40% protein grade	94.7	42.9	14.1	2.2	4.1	31.4	13.49	5.18	6.86	—
Tomato pomace, dried	94.6	22.9	15.0	30.2	23.4	3.1	—	—	3.66	—
Velvet bean seeds and pods (velvet bean feed)	90.0	18.1	4.4	13.0	50.3	4.2	0.24	0.38	2.90	1.20
Velvet beans, seeds only	90.0	23.4	5.7	6.4	51.5	3.0	—	—	3.74	—
Vetch seed	90.7	29.6	0.8	5.7	51.5	3.1	—	—	4.74	—
Whale meal	91.8	78.5	6.7	0	3.1	3.5	0.56	0.57	12.56	—
Wheat, average of all types	89.5	13.2	1.9	2.6	69.9	1.9	0.04	0.39	2.11	0.42
Wheat, hard spring, chiefly northern plains states	90.1	15.8	2.2	2.5	67.8	1.8	—	—	2.53	—
Wheat, hard winter, chiefly southern plains states	89.4	13.5	1.8	2.8	69.2	2.1	—	—	2.16	—
Wheat, soft winter, Miss. valley and eastward	89.2	10.2	1.9	2.1	73.2	1.8	—	—	1.63	—
Wheat, soft, Pacific Coast states	89.1	9.9	2.0	2.7	72.6	1.9	—	—	1.58	—
Wheat bran, all analyses	90.1	16.9	4.6	9.6	52.9	6.1	0.14	1.29	2.70	1.23
Wheat bran, chiefly hard spring wheat	91.1	17.9	4.9	10.1	52.2	6.1	0.13	1.35	2.86	—
Wheat bran, soft wheat	90.5	16.1	4.3	8.7	55.7	5.7	—	—	2.58	—
Wheat bran, winter wheat	89.9	15.5	4.2	8.9	55.1	6.2	—	—	2.48	—
Wheat bran and screenings, all analyses	90.0	16.8	4.5	9.6	53.0	6.1	0.14	1.21	2.69	—
Wheat brown shorts	88.7	16.9	4.2	7.1	56.0	4.5	—	—	2.70	—
Wheat brown shorts and screenings	88.7	17.0	4.1	7.0	56.0	4.6	—	—	2.72	—
Wheat flour, graham	88.1	12.5	1.9	1.8	70.4	1.5	0.04	0.36	2.00	0.46
Wheat flour, low grade	88.4	15.4	1.9	0.5	69.7	0.9	—	—	2.46	—
Wheat flour, white	88.0	10.8	0.9	0.3	75.6	0.4	0.02	0.09	1.73	0.05
Wheat flour middlings	89.2	18.3	4.2	3.8	59.8	3.1	0.09	0.71	2.93	0.89
Wheat flour middlings and screenings	89.6	18.2	4.5	5.2	57.8	3.9	0.14	0.68	2.91	—
Wheat germ meal, commercial	90.8	31.1	9.7	2.6	42.2	5.2	0.08	1.11	4.98	0.29
Wheat germ oil meal	89.1	30.4	4.9	2.6	46.4	4.8	—	—	4.86	—
Wheat gray shorts	88.9	17.9	4.2	5.7	56.9	4.2	0.13	0.84	2.86	—
Wheat gray shorts and screenings	88.6	17.6	4.0	5.8	57.0	4.2	—	—	2.82	—
Wheat mixed feed, all analyses	89.7	17.2	4.5	7.2	56.1	4.7	0.11	1.09	2.76	—
Wheat mixed feed, hard wheat	89.8	18.7	4.8	7.7	53.6	5.0	0.11	1.09	2.99	—
Wheat mixed feed and screenings	89.3	17.5	4.3	7.1	55.7	4.7	0.11	0.96	2.80	—
Wheat red dog	89.0	18.2	3.6	2.6	61.9	2.7	0.07	0.51	2.91	0.60
Wheat red dog, low grade	89.2	17.9	4.8	4.9	57.9	3.7	—	—	2.86	—
Wheat screenings, good grade	90.4	13.9	4.7	9.0	58.2	4.6	0.44	0.39	2.22	—
Wheat standard middlings, all analyses	89.6	18.1	4.8	6.5	55.8	4.4	0.09	0.93	2.90	1.04

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Wheat standard middlings and screenings, all analyses	89.7	18.0	4.7	7.4	55.1	4.5	0.15	0.88	2.88	—
Wheat white shorts	89.7	16.1	3.1	2.9	65.0	2.6	—	—	2.58	—
Whey, from cheddar cheese	6.9	0.9	0.3	0	5.0	0.7	0.05	0.04	0.14	0.19
Whey, skimmed	6.6	0.9	0.03	0	5.0	0.7	—	—	0.14	—
Whey, condensed	57.3	8.8	0.6	0	42.0	5.9	—	—	1.41	—
Whey, dried	93.5	12.2	0.8	0.2	70.4	9.9	0.86	0.72	1.96	—
Whey solubles, dried	96.3	17.5	2.0	0	62.8	14.0	—	—	2.80	—
Yeast, brewers', dried	93.8	49.3	1.0	3.7	31.9	7.9	0.13	1.56	7.89	—
Yeast, irradiated, dried	93.9	48.7	1.1	5.5	32.2	6.4	0.07	1.55	7.79	2.14
Yeast, dried, with added cereal	90.2	12.3	3.7	3.2	68.5	2.5	0.09	0.45	1.97	—
Yeast, molasses distillers', dried	91.0	38.8	1.9	6.1	30.2	14.0	—	—	6.21	—

(These tables have been adapted from "U.S.-Canadian Tables of Feed Composition"; Publication 1684; Committee on Animal Nutrition and National Committee on Animal Nutrition, Canada, National Academy of Sciences—National Research Council, Washington, D.C. 1969)