

2013 Feed Composition Tables

All values except dry matter (DM) are shown on a DM basis.

| FEEDSTUFF | ENERGY | | | | | PROTEIN | | FIBER | | | | | | | | | | | |
|------------------------------------|--------|-------|--------------------------------|-----------------|-----------------|---------|-------|-------|-------|-------|--------|------|-------|------|------|-----|-------|-------|--------|
| | DM % | TDN % | NE _m (Mcal/cwt.) | NE _g | NE _l | CP % | UIP % | CF % | ADF % | NDF % | eNDF % | EE % | ASH % | Ca % | P % | K % | Cl % | S % | Zn ppm |
| Alfalfa Cubes | x91 | 57 | 57 | 25 | 57 | 18 | 30 | 29 | 36 | 46 | 40 | 2.0 | 11 | 1.30 | 0.23 | 1.9 | 0.37 | 0.33 | 20 |
| Alfalfa Dehydrated 17% CP | 92 | 61 | 62 | 31 | 61 | 19 | 60 | 26 | 34 | 45 | 6 | 3.0 | 11 | 1.42 | 0.25 | 2.5 | 0.45 | 0.28 | 21 |
| Alfalfa Fresh | 24 | 61 | 62 | 31 | 61 | 19 | 18 | 27 | 34 | 46 | 41 | 3.0 | 9 | 1.35 | 0.27 | 2.6 | 0.40 | 0.29 | 18 |
| Alfalfa Hay Early Bloom | 90 | 59 | 59 | 28 | 59 | 19 | 20 | 28 | 35 | 45 | 92 | 2.5 | 8 | 1.41 | 0.26 | 2.5 | 0.38 | 0.28 | 22 |
| Alfalfa Hay Midbloom | 89 | 58 | 58 | 26 | 58 | 17 | 23 | 30 | 36 | 47 | 92 | 2.3 | 9 | 1.40 | 0.24 | 2.0 | 0.38 | 0.27 | 24 |
| Alfalfa Hay Full Bloom | 88 | 54 | 54 | 20 | 54 | 16 | 25 | 34 | 40 | 52 | 92 | 2.0 | 8 | 1.20 | 0.23 | 1.7 | 0.37 | 0.25 | 23 |
| Alfalfa Hay Mature | 88 | 50 | 50 | 12 | 49 | 13 | 30 | 38 | 45 | 59 | 92 | 1.3 | 8 | 1.18 | 0.19 | 1.5 | 0.35 | 0.21 | 23 |
| Alfalfa Seed Screenings | 91 | 84 | 92 | 61 | 87 | 34 | | 13 | 15 | | | 10.7 | 6 | 0.30 | 0.67 | | | | |
| Alfalfa Silage | 30 | 55 | 55 | 21 | 55 | 18 | 19 | 28 | 37 | 49 | 82 | 3.0 | 9 | 1.40 | 0.29 | 2.6 | 0.41 | 0.29 | 26 |
| Alfalfa Silage Wilted | 39 | 58 | 58 | 26 | 58 | 18 | 22 | 28 | 37 | 49 | 82 | 3.0 | 9 | 1.40 | 0.29 | 2.6 | 0.41 | 0.29 | 26 |
| Alfalfa Leaf Meal | 89 | 60 | 60 | 30 | 60 | 26 | 15 | 16 | 24 | 34 | 35 | 3.0 | 10 | 2.88 | 0.34 | 2.2 | | 0.32 | 39 |
| Alfalfa Stems | 89 | 47 | 47 | 7 | 46 | 11 | 44 | 44 | 51 | 68 | 100 | 1.3 | 6 | 0.90 | 0.18 | 2.5 | | | |
| Almond Hulls | 89 | 56 | 56 | 23 | 56 | 3 | 60 | 16 | 29 | 36 | 100 | 3.1 | 7 | 0.24 | 0.10 | 2.0 | 0.03 | 0.07 | 20 |
| Ammonium Chloride | 99 | 0 | 0 | 0 | 0 | 163 | 0 | 0 | 0 | 0 | 0 | 0.0 | | 0.00 | 0.00 | 0.0 | 66.00 | 0.00 | 0 |
| Ammonium Sulfate | 99 | 0 | 0 | 0 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 0.0 | | | | | | 24.15 | |
| Apples | 17 | 70 | 73 | 44 | 71 | 3 | 10 | 7 | 9 | 25 | 10 | 2.2 | 2 | 0.06 | 0.60 | 0.8 | | | |
| Apple Pomace Wet | 20 | 68 | 70 | 41 | 69 | 5 | 10 | 18 | 27 | 36 | 27 | 5.2 | 3 | 0.13 | 0.12 | 0.5 | | 0.04 | 11 |
| Apple Pomace Dried | 89 | 67 | 69 | 40 | 68 | 5 | 15 | 18 | 28 | 38 | 29 | 5.2 | 3 | 0.13 | 0.12 | 0.5 | | 0.04 | 11 |
| Artichoke Tops (Jerusalem) | 27 | 61 | 62 | 31 | 61 | 6 | | 18 | 30 | 41 | 40 | 1.1 | 10 | 1.62 | 0.11 | 1.4 | | | |
| Avocado Seed Meal | 91 | 52 | 52 | 16 | 51 | 20 | | 19 | 24 | | | 1.2 | 16 | | | | | | |
| Bahagrass Hay | 90 | 53 | 53 | 18 | 53 | 6 | 37 | 32 | 41 | 72 | 98 | 1.8 | 7 | 0.47 | 0.20 | 1.4 | | 0.21 | |
| Bakery Product Dried | 90 | 90 | 100 | 68 | 94 | 11 | 30 | 3 | 9 | 30 | 0 | 11.5 | 4 | 0.16 | 0.27 | 0.4 | 2.25 | 0.15 | 33 |
| Bananas | 24 | 84 | 92 | 61 | 87 | 4 | | 4 | 5 | | | 0.8 | 3 | 0.03 | 0.11 | 1.5 | | | 8 |
| Barley Hay | 90 | 57 | 57 | 25 | 57 | 9 | | 28 | 37 | 65 | 98 | 2.1 | 8 | 0.30 | 0.28 | 1.6 | | 0.19 | 25 |
| Barley Silage | 35 | 59 | 58 | 26 | 58 | 12 | 22 | 34 | 37 | 58 | 61 | 3.0 | 9 | 0.46 | 0.30 | 2.4 | | 0.22 | 28 |
| Barley Silage Mature | 35 | 58 | 58 | 26 | 58 | 12 | 25 | 30 | 34 | 50 | 61 | 3.5 | 9 | 0.30 | 0.20 | 1.5 | | 0.15 | 25 |
| Barley Straw | 90 | 44 | 44 | 1 | 43 | 4 | 70 | 42 | 55 | 78 | 100 | 1.9 | 7 | 0.32 | 0.08 | 2.2 | 0.67 | 0.16 | 7 |
| Barley Grain | 89 | 84 | 92 | 61 | 87 | 12 | 28 | 5 | 7 | 20 | 34 | 2.1 | 3 | 0.06 | 0.38 | 0.6 | 0.18 | 0.16 | 23 |
| Barley Grain, Steam Flaked | 85 | 90 | 100 | 70 | 100 | 12 | 39 | 5 | 7 | 20 | 30 | 2.1 | 3 | 0.06 | 0.35 | 0.6 | 0.18 | 0.16 | 23 |
| Barley Grain Steam Rolled | 86 | 84 | 92 | 61 | 87 | 12 | 38 | 5 | 7 | 20 | 27 | 2.1 | 3 | 0.06 | 0.41 | 0.6 | 0.18 | 0.17 | 30 |
| Barley Grain 2-row | 87 | 84 | 92 | 61 | 87 | 12 | | 6 | 8 | 24 | 34 | 2.3 | 2 | 0.05 | 0.31 | 0.6 | 0.18 | 0.17 | |
| Barley Grain 6-row | 87 | 84 | 92 | 61 | 87 | 11 | | 6 | 8 | 24 | 34 | 2.2 | 3 | 0.05 | 0.36 | 0.6 | 0.18 | 0.15 | |
| Barley Grain Lt. Wt. (42-44 lb/bu) | 88 | 78 | 83 | 54 | 80 | 13 | 30 | 9 | 12 | 30 | 34 | 2.3 | 4 | | | | | | |
| Barley Feed Pearl Byproduct | 90 | 74 | 78 | 49 | 76 | 15 | 25 | 12 | 15 | | | 3.9 | 5 | 0.05 | 0.45 | 0.7 | | 0.06 | |
| Barley Bran | 91 | 59 | 59 | 28 | 59 | 12 | 28 | 21 | 27 | 36 | 6 | 4.3 | 7 | | | | | | |
| Barley Grain Screenings | 89 | 71 | 74 | 46 | 73 | 12 | | 9 | 11 | | | 2.6 | 4 | 0.35 | 0.33 | 0.9 | | 0.15 | |
| Beans Navy Cull | 90 | 84 | 92 | 61 | 87 | 24 | 25 | 5 | 8 | 20 | 0 | 1.4 | 5 | 0.15 | 0.60 | 1.4 | 0.06 | 0.26 | 45 |
| Beet Pulp Wet | 17 | 77 | 82 | 53 | 79 | 9 | 35 | 20 | 25 | 45 | 30 | 0.7 | 5 | 0.65 | 0.08 | 0.9 | 0.40 | 0.22 | 21 |
| Beet Pulp Dried | 91 | 76 | 81 | 52 | 78 | 9 | 44 | 21 | 26 | 46 | 33 | 0.7 | 5 | 0.65 | 0.08 | 0.9 | 0.40 | 0.22 | 21 |
| Beet Pulp Wet with Molasses | 24 | 77 | 82 | 53 | 79 | 11 | 25 | 16 | 21 | 39 | 33 | 0.6 | 6 | 0.60 | 0.10 | 1.8 | | 0.42 | 11 |
| Beet Pulp Dried with Molasses | 92 | 77 | 82 | 53 | 79 | 11 | 34 | 17 | 23 | 40 | 33 | 0.6 | 6 | 0.60 | 0.10 | 1.8 | | 0.42 | 11 |
| Beet Root (Sugar) | 23 | 80 | 86 | 56 | 83 | 4 | | 5 | 7 | 16 | | 0.4 | 3 | | | | | | |
| Beet Tops (Sugar) | 19 | 58 | 58 | 26 | 58 | 14 | | 11 | 14 | 25 | 41 | 1.3 | 24 | 1.10 | 0.22 | 5.2 | 0.20 | 0.45 | 20 |
| Beet Top Silage | 25 | 52 | 52 | 16 | 51 | 12 | | 12 | | | | 2.0 | 32 | 1.38 | 0.22 | 5.7 | | 0.57 | 20 |
| Bermudagrass Coastal Dehydrated | 90 | 62 | 63 | 33 | 63 | 16 | 40 | 26 | 29 | 40 | 10 | 3.8 | 7 | 0.40 | 0.25 | 1.8 | 0.72 | 0.23 | 18 |
| Bermudagrass Coastal Hay | 89 | 56 | 56 | 23 | 56 | 10 | 20 | 30 | 36 | 73 | 98 | 2.1 | 6 | 0.47 | 0.21 | 1.5 | 0.70 | 0.22 | 16 |
| Bermudagrass Hay | 89 | 53 | 53 | 18 | 53 | 10 | 18 | 29 | 37 | 72 | 98 | 1.9 | 8 | 0.46 | 0.20 | 1.5 | 0.70 | 0.25 | 31 |
| Bermudagrass Silage | 26 | 50 | 50 | 12 | 49 | 10 | 15 | 28 | 35 | 71 | 48 | 1.9 | 8 | 0.46 | 0.20 | 1.5 | 0.72 | 0.25 | 31 |
| Birdsfoot Trefoil Fresh | 22 | 66 | 68 | 38 | 67 | 21 | 20 | 21 | 31 | 47 | 41 | 4.4 | 9 | 1.78 | 0.25 | 2.6 | | 0.25 | 31 |
| Birdsfoot Trefoil Hay | 89 | 57 | 57 | 25 | 57 | 16 | 22 | 31 | 38 | 50 | 92 | 2.2 | 8 | 1.73 | 0.24 | 1.8 | | 0.25 | 28 |
| Biuret | 99 | 0 | 0 | 0 | 0 | 248 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 | 0.0 | 0.00 | 0.00 | 0 |
| Blood Meal, Swine/Poultry | 91 | 66 | 68 | 38 | 67 | 92 | 82 | 1 | 2 | 10 | 0 | 1.4 | 3 | 0.32 | 0.28 | 0.2 | 0.30 | 0.70 | 22 |
| Bluegrass KY Fresh Early Bloom | 36 | 69 | 71 | 43 | 70 | 15 | 20 | 27 | 32 | 60 | 41 | 3.9 | 7 | 0.37 | 0.30 | 1.9 | 0.42 | 0.19 | 25 |
| Bluegrass Straw | 93 | 45 | 45 | 3 | 44 | 6 | | 40 | 50 | 78 | 90 | 1.1 | 6 | 0.20 | 0.10 | | | | |
| Bluestem Fresh Mature | 61 | 50 | 50 | 12 | 49 | 6 | | 34 | | | | 2.5 | 5 | 0.40 | 0.12 | 0.8 | | 0.05 | 28 |

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| FEEDSTUFF | ENERGY | | | | | PROTEIN | | FIBER | | | | | | | | | | | |
|------------------------------------|--------|-------|-----------------|--------------------------------|-----------------|---------|-------|-------|-------|-------|--------|------|-------|-------|-------|-----|------|------|--------|
| | DM % | TDN % | NE _m | NE _l (Mcal/cwt.) | NE _i | CP % | UIP % | CF % | ADF % | NDF % | eNDF % | EE % | ASH % | Ca % | P % | K % | Cl % | S % | Zn ppm |
| Bone Meal Steamed, Swine/Poultry | 95 | 16 | 27 | 0 | 11 | 13 | | 1 | 0 | 0 | 0 | 11.6 | 77 | 27.00 | 12.74 | 0.2 | | 2.50 | 290 |
| Bread Byproduct | 68 | 90 | 100 | 68 | 94 | 14 | 24 | 1 | 2 | 3 | 0 | 3.0 | 3 | 0.10 | 0.18 | 0.2 | 0.76 | 0.15 | 40 |
| Brewers Grains Wet | 23 | 85 | 93 | 62 | 88 | 26 | 52 | 13 | 21 | 45 | 18 | 7.5 | 4 | 0.30 | 0.58 | 0.1 | 0.15 | 0.32 | 78 |
| Brewers Grains Dried | 92 | 84 | 92 | 61 | 87 | 25 | 54 | 14 | 24 | 49 | 18 | 7.5 | 4 | 0.30 | 0.58 | 0.1 | 0.15 | 0.32 | 78 |
| Brewers Yeast Dried | 94 | 79 | 85 | 55 | 81 | 48 | | 3 | | | | 1.0 | 7 | 0.10 | 1.56 | 1.8 | | 0.41 | 41 |
| Bromegrass Fresh Immature | 30 | 64 | 65 | 36 | 65 | 15 | 22 | 28 | 33 | 54 | 40 | 4.1 | 10 | 0.45 | 0.34 | 2.3 | | 0.21 | 20 |
| Bromegrass Hay | 89 | 55 | 55 | 21 | 55 | 10 | 33 | 35 | 41 | 66 | 98 | 2.3 | 9 | 0.40 | 0.23 | 1.9 | 0.40 | 0.19 | 19 |
| Bromegrass Haylage | 35 | 57 | 57 | 25 | 57 | 11 | 26 | 36 | 44 | 69 | 61 | 2.5 | 8 | 0.38 | 0.30 | 2.0 | | 0.20 | 19 |
| Buckwheat Grain | 88 | 75 | 79 | 50 | 77 | 12 | | 13 | 17 | | | 2.8 | 2 | 0.11 | 0.36 | 0.5 | 0.05 | 0.16 | 10 |
| Buttermilk Dried | 92 | 88 | 98 | 65 | 91 | 34 | 0 | 5 | 0 | 0 | 0 | 5.0 | 10 | 1.44 | 1.00 | 0.9 | | 0.09 | 44 |
| Cactus, Prickly Pear | 23 | 61 | 62 | 31 | 62 | 5 | | 16 | 20 | 28 | | 2.1 | 18 | 4.00 | 0.10 | 1.5 | | 0.20 | |
| Calcium Carbonate | 99 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0.0 | 99 | 38.50 | 0.04 | 0.1 | | 0.00 | 0 |
| Canarygrass Hay | 91 | 53 | 53 | 18 | 53 | 9 | 26 | 32 | 34 | 67 | 98 | 2.7 | 8 | 0.38 | 0.25 | 2.7 | | 0.14 | 18 |
| Canola Meal, Solv. Ext. | 90 | 72 | 75 | 47 | 74 | 41 | 30 | 11 | 19 | 29 | 23 | 2.0 | 8 | 0.74 | 1.14 | 1.1 | 0.07 | 0.78 | 68 |
| Carrot Pulp | 14 | 62 | 63 | 33 | 63 | 6 | | 19 | 23 | 40 | 0 | 7.8 | 9 | | | | | | |
| Carrot Root Fresh | 12 | 83 | 90 | 60 | 86 | 10 | | 9 | 11 | 20 | 0 | 1.4 | 10 | 0.55 | 0.32 | 2.5 | 0.50 | 0.17 | |
| Carrot Tops | 16 | 73 | 77 | 48 | 75 | 13 | | 18 | 23 | 45 | 41 | 3.8 | 15 | 1.94 | 0.19 | 1.9 | | | |
| Cattle Manure Dried | 92 | 38 | 40 | 0 | 36 | 15 | | 35 | 42 | 55 | 0 | 2.5 | 14 | 1.15 | 1.20 | 0.6 | | 1.78 | 240 |
| Cheatgrass Fresh Immature | 21 | 68 | 70 | 41 | 69 | 16 | | 23 | | | | 2.7 | 10 | 0.60 | 0.28 | | | | |
| Citrus Pulp Dried | 90 | 78 | 83 | 54 | 80 | 7 | 38 | 13 | 20 | 21 | 33 | 2.9 | 7 | 1.81 | 0.12 | 0.8 | 0.04 | 0.08 | 14 |
| Clover Ladino Fresh | 19 | 69 | 71 | 43 | 70 | 25 | 20 | 14 | 33 | 35 | 41 | 4.8 | 11 | 1.27 | 0.38 | 2.4 | | 0.20 | 20 |
| Clover Ladino Hay | 90 | 61 | 62 | 31 | 61 | 21 | 25 | 22 | 32 | 36 | 92 | 2.0 | 9 | 1.35 | 0.32 | 2.4 | 0.30 | 0.20 | 17 |
| Clover Red Fresh | 24 | 64 | 65 | 36 | 65 | 18 | 21 | 24 | 33 | 44 | 41 | 4.0 | 9 | 1.70 | 0.30 | 2.0 | 0.60 | 0.17 | 23 |
| Clover Red Hay | 88 | 55 | 55 | 21 | 55 | 15 | 28 | 30 | 39 | 51 | 92 | 2.5 | 8 | 1.50 | 0.25 | 1.7 | 0.32 | 0.17 | 17 |
| Clover Sweet Hay | 91 | 53 | 53 | 18 | 53 | 16 | 30 | 30 | 38 | 50 | 92 | 2.4 | 9 | 1.27 | 0.25 | 1.8 | 0.37 | 0.46 | |
| Coconut Meal, Mech. Ext. | 92 | 76 | 81 | 52 | 78 | 21 | 56 | 13 | 21 | 56 | 23 | 6.8 | 7 | 0.40 | 0.30 | 1.0 | 0.33 | 0.04 | |
| Coffee Grounds | 88 | 20 | 36 | 0 | 16 | 13 | | 41 | 68 | 77 | 10 | 15.0 | 2 | 0.10 | 0.08 | | | | |
| Corn Whole Plant Pelleted | 91 | 63 | 64 | 34 | 64 | 9 | 45 | 21 | 24 | 40 | 6 | 2.4 | 6 | 0.50 | 0.24 | 0.9 | | 0.14 | |
| Corn Fodder | 80 | 65 | 66 | 37 | 66 | 9 | 45 | 25 | 29 | 48 | 100 | 2.4 | 7 | 0.50 | 0.25 | 0.9 | 0.20 | 0.14 | |
| Corn Stover Mature (Stalks) | 80 | 54 | 54 | 20 | 54 | 5 | 30 | 35 | 43 | 70 | 100 | 1.3 | 7 | 0.45 | 0.15 | 1.2 | 0.30 | 0.14 | 22 |
| Corn Silage, Milk Stage | 26 | 65 | 66 | 37 | 66 | 8 | 18 | 26 | 32 | 54 | 60 | 2.8 | 6 | 0.40 | 0.27 | 1.6 | | 0.11 | 20 |
| Corn Silage, Mature Well Eared | 34 | 72 | 75 | 47 | 74 | 8 | 28 | 21 | 27 | 46 | 70 | 3.1 | 5 | 0.28 | 0.23 | 1.1 | 0.20 | 0.13 | 22 |
| Corn Silage, Sweet Corn | 24 | 65 | 66 | 37 | 66 | 11 | | 20 | 32 | 57 | 60 | 5.0 | 5 | 0.24 | 0.26 | 1.2 | 0.17 | 0.16 | 39 |
| Corn Grain, Whole | 88 | 88 | 98 | 65 | 91 | 9 | 58 | 2 | 3 | 9 | 60 | 4.3 | 2 | 0.02 | 0.30 | 0.4 | 0.05 | 0.14 | 18 |
| Corn Grain, Rolled | 88 | 88 | 98 | 65 | 91 | 9 | 54 | 2 | 3 | 9 | 34 | 4.3 | 2 | 0.02 | 0.30 | 0.4 | 0.05 | 0.14 | 18 |
| Corn Grain, Steam Flaked | 85 | 93 | 104 | 71 | 97 | 9 | 59 | 2 | 3 | 9 | 40 | 4.1 | 2 | 0.02 | 0.27 | 0.4 | 0.05 | 0.14 | 18 |
| Corn Grain, High Moisture | 74 | 93 | 104 | 71 | 97 | 10 | 42 | 2 | 3 | 9 | 0 | 4.0 | 2 | 0.02 | 0.30 | 0.4 | 0.06 | 0.14 | 20 |
| Corn Grain, High Oil | 88 | 91 | 102 | 69 | 95 | 8 | 54 | 2 | 3 | 8 | 60 | 6.9 | 2 | 0.01 | 0.30 | 0.3 | 0.05 | 0.13 | 18 |
| Corn Grain, Hi-Lysine | 92 | 87 | 96 | 64 | 90 | 12 | 58 | 4 | 4 | 11 | 60 | 4.4 | 2 | 0.03 | 0.24 | 0.4 | 0.05 | 0.11 | 18 |
| Corn and Cob Meal | 87 | 82 | 89 | 59 | 85 | 9 | 52 | 9 | 11 | 26 | 56 | 3.7 | 2 | 0.06 | 0.27 | 0.5 | 0.05 | 0.13 | 16 |
| Corn Cobs | 90 | 48 | 48 | 9 | 47 | 3 | 70 | 36 | 39 | 88 | 56 | 0.6 | 2 | 0.12 | 0.04 | 0.8 | | 0.27 | 5 |
| Corn Screenings | 86 | 91 | 102 | 69 | 95 | 10 | 52 | 3 | 4 | 9 | 20 | 4.3 | 2 | 0.04 | 0.27 | 0.4 | 0.05 | 0.12 | 16 |
| Corn Bran | 91 | 76 | 81 | 52 | 78 | 11 | | 10 | 17 | 51 | 0 | 6.3 | 3 | 0.04 | 0.15 | 0.1 | 0.13 | 0.08 | 18 |
| Corn Germ, Full-fat | 97 | 135 | 198 | 160 | 198 | 12 | 55 | 6 | 11 | 36 | 20 | 44.9 | 2 | 0.02 | 0.28 | 0.1 | 0.02 | 0.17 | 60 |
| Corn Gluten Feed | 90 | 80 | 86 | 56 | 83 | 22 | 25 | 9 | 12 | 38 | 36 | 3.2 | 7 | 0.11 | 0.84 | 1.3 | 0.25 | 0.47 | 84 |
| Corn Gluten Meal 41% CP | 91 | 85 | 93 | 62 | 88 | 46 | 63 | 5 | 9 | 32 | 23 | 3.2 | 3 | 0.13 | 0.55 | 0.2 | 0.07 | 0.62 | 35 |
| Corn Gluten Meal 60% CP | 91 | 89 | 99 | 67 | 93 | 67 | 65 | 3 | 6 | 11 | 23 | 2.5 | 2 | 0.06 | 0.54 | 0.2 | 0.10 | 0.90 | 40 |
| Corn Cannery Waste | 29 | 68 | 70 | 41 | 69 | 8 | 15 | 28 | 36 | 59 | 0 | 3.0 | 5 | 0.10 | 0.29 | 1.0 | | 0.13 | 25 |
| Cottonseed, Whole | 91 | 95 | 107 | 73 | 99 | 23 | 38 | 27 | 37 | 47 | 100 | 19.4 | 5 | 0.16 | 0.64 | 1.0 | 0.06 | 0.24 | 34 |
| Cottonseed, Whole, Delinted | 90 | 95 | 107 | 73 | 99 | 24 | 39 | 19 | 28 | 40 | 100 | 22.9 | 5 | 0.12 | 0.54 | 1.2 | | 0.24 | 36 |
| Cottonseed, Whole, Extruded | 92 | 87 | 98 | 67 | 91 | 26 | 50 | 32 | 44 | 53 | 33 | 9.5 | 5 | 0.17 | 0.68 | 1.3 | | 0.24 | 38 |
| Cotton Gin Trash (Burs) | 91 | 42 | 43 | 0 | 40 | 9 | | 35 | 50 | 70 | 100 | 2.0 | 14 | 1.40 | 0.18 | 1.9 | | 0.14 | 25 |
| Cottonseed Hulls | 90 | 45 | 45 | 3 | 44 | 5 | 45 | 48 | 70 | 87 | 100 | 1.8 | 3 | 0.15 | 0.08 | 1.0 | 0.02 | 0.05 | 10 |
| Cottonseed Meal, Solv. Ext. 41% CP | 90 | 77 | 82 | 53 | 79 | 47 | 42 | 13 | 18 | 25 | 23 | 1.5 | 7 | 0.22 | 1.23 | 1.6 | 0.05 | 0.44 | 66 |
| Cottonseed Meal, Mech. Ext. 41% CP | 92 | 79 | 85 | 55 | 81 | 46 | 50 | 13 | 19 | 31 | 23 | 5.0 | 7 | 0.21 | 1.18 | 1.6 | 0.05 | 0.42 | 64 |
| Crab Waste Meal | 91 | 29 | 37 | 0 | 30 | 32 | 65 | 11 | 13 | | | 3.0 | 43 | 15.00 | 1.88 | 0.5 | 1.63 | 0.27 | 107 |

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|---|--------|-------|-----------------|-----------------|-----------------|---------|-------|-------|-------|-------|--------|------|-------|-------|-------|-----|------|------|--------|
| | DM % | TDN % | NE _m | NE _l | NE _i | CP % | UIP % | CF % | ADF % | NDF % | eNDF % | EE % | ASH % | Ca % | P % | K % | Cl % | S % | Zn ppm |
| Crambe Meal, Solv. Ext. | 91 | 81 | 88 | 58 | 84 | 31 | 45 | 25 | 35 | 47 | 23 | 1.4 | 8 | 1.27 | 0.86 | 1.1 | 0.70 | 1.26 | 44 |
| Crambe Meal, Mech. Ext. | 92 | 88 | 98 | 65 | 91 | 28 | 50 | 24 | 33 | 42 | 25 | 17.0 | 7 | 1.22 | 0.78 | 1.0 | 0.65 | 1.18 | 41 |
| Cranberry Pulp Meal | 88 | 49 | 49 | 11 | 48 | 7 | | 26 | 47 | 54 | 33 | | | | | | | | |
| Crawfish Waste Meal | 94 | 25 | 36 | 0 | 29 | 35 | 74 | 12 | 15 | | | | 42 | 13.10 | 0.85 | | | | |
| Curacao Phosphate | 99 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0.0 | 95 | 34.00 | 15.00 | | | | |
| Defluorinated Phosphate | 99 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0.0 | 95 | 32.60 | 18.07 | 1.0 | | | 100 |
| Diammonium Phosphate | 98 | 0 | 0 | 0 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 0.0 | 35 | 0.52 | 20.41 | 0.0 | | 2.16 | |
| Dicalcium Phosphate | 96 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0.0 | 94 | 22.00 | 18.65 | 0.1 | | 1.00 | 70 |
| Distillers Grains, Wet | 25 | 91 | 102 | 69 | 95 | 28 | 52 | 8 | 18 | 40 | 4 | 9.6 | 5 | 0.10 | 0.70 | 1.0 | 0.20 | 0.60 | 95 |
| Distillers Grain, Barley | 90 | 75 | 79 | 50 | 77 | 30 | 56 | 16 | 20 | 44 | 4 | 8.5 | 4 | 0.15 | 0.67 | 1.0 | 0.18 | 0.43 | 50 |
| Distillers Grain, Corn, Dry | 91 | 95 | 106 | 72 | 99 | 30 | 58 | 8 | 16 | 44 | 4 | 9.5 | 4 | 0.09 | 0.75 | 0.9 | 0.14 | 0.70 | 65 |
| Distillers Grain, Corn, Wet | 36 | 97 | 109 | 74 | 102 | 30 | 47 | 8 | 16 | 44 | 4 | 9.5 | 4 | 0.09 | 0.75 | 0.9 | 0.14 | 0.70 | 65 |
| Distillers Grain, Corn with Solubles | 89 | 98 | 111 | 76 | 103 | 30 | 54 | 8 | 16 | 38 | 4 | 11.9 | 6 | 0.20 | 0.75 | 0.9 | 0.18 | 0.80 | 85 |
| Distillers Dried Solubles | 93 | 87 | 96 | 64 | 91 | 31 | 47 | 4 | 7 | 22 | 4 | 13.0 | 8 | 0.35 | 1.20 | 1.8 | 0.28 | 1.10 | 91 |
| Distillers Corn Stillage | 7 | 92 | 103 | 70 | 96 | 22 | 55 | 8 | 10 | 21 | 0 | 8.1 | 5 | 0.14 | 0.72 | 0.2 | | 0.60 | 60 |
| Distillers Grain, Sorghum, Dry | 91 | 84 | 92 | 61 | 87 | 33 | 62 | 13 | 20 | 44 | 4 | 10.0 | 4 | 0.20 | 0.68 | 0.3 | | 0.50 | 50 |
| Distillers Grain, Sorghum, Wet | 35 | 86 | 95 | 63 | 89 | 33 | 55 | 13 | 19 | 43 | 4 | 10.0 | 4 | 0.20 | 0.68 | 0.3 | | 0.50 | 50 |
| Distillers Grain, Sorghum with Solubles | 92 | 85 | 93 | 62 | 88 | 33 | 53 | 12 | 18 | 42 | 4 | 10.0 | 4 | 0.23 | 0.70 | 0.5 | | 0.70 | 55 |
| Elephant (Napier) Grass Hay, Chopped | 92 | 55 | 55 | 21 | 54 | 9 | | 24 | 46 | 63 | 85 | 2.0 | 10 | 0.35 | 0.30 | 1.3 | | 0.10 | |
| Fat, Animal, Poultry, Vegetable | 99 | 195 | 285 | 230 | 285 | 0 | | 0 | 0 | 0 | 0 | 99.0 | 0 | 0.00 | 0.00 | 0.0 | | | |
| Feather Meal Hydrolyzed | 93 | 67 | 69 | 40 | 68 | 87 | 68 | 1 | 14 | 42 | 23 | 7.0 | 3 | 0.48 | 0.45 | 0.1 | 0.20 | 1.82 | 90 |
| Fescue KY 31 Fresh | 29 | 64 | 65 | 36 | 65 | 15 | 20 | 25 | 32 | 64 | 40 | 5.5 | 9 | 0.48 | 0.37 | 2.5 | | 0.18 | 22 |
| Fescue KY 31 Hay Early Bloom | 88 | 60 | 60 | 30 | 60 | 18 | 22 | 25 | 31 | 64 | 98 | 6.6 | 8 | 0.48 | 0.36 | 2.6 | | 0.27 | 24 |
| Fescue KY 31 Hay Mature | 88 | 52 | 52 | 16 | 51 | 11 | 30 | 30 | 42 | 73 | 98 | 5.0 | 6 | 0.45 | 0.26 | 1.7 | | 0.14 | 22 |
| Fescue (Red) Straw | 94 | 43 | 44 | 0 | 41 | 4 | | 41 | | | | 1.1 | 6 | 0.00 | 0.06 | | | | |
| Fish Meal | 90 | 74 | 78 | 49 | 76 | 66 | 60 | 1 | 2 | 12 | 10 | 9.0 | 20 | 5.55 | 3.15 | 0.7 | 0.76 | 0.80 | 130 |
| Flax Seed Hulls | 91 | 38 | 40 | 0 | 36 | 9 | | 32 | 39 | 50 | 98 | 1.5 | 10 | | | | | | |
| Garbage Municipal Cooked | 23 | 80 | 86 | 56 | 83 | 16 | | 9 | 50 | 59 | 30 | 20.0 | 10 | 1.20 | 0.43 | 0.6 | 0.67 | | |
| Glycerol (Glycerin) | 88 | 90 | 100 | 68 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 6 | | | | 4.00 | | |
| Grain Screenings | 90 | 65 | 66 | 37 | 66 | 14 | | 14 | | | | 5.5 | 9 | 0.25 | 0.34 | | | | 30 |
| Grain Dust | 92 | 73 | 77 | 48 | 75 | 10 | | 11 | | | | 2.2 | 10 | 0.30 | 0.18 | | | | 42 |
| Grape Pomace Stemless | 91 | 40 | 42 | 0 | 38 | 12 | 45 | 32 | 46 | 54 | 34 | 7.6 | 9 | 0.55 | 0.07 | 0.6 | 0.01 | | 24 |
| Grass Hay | 88 | 58 | 58 | 26 | 58 | 10 | 30 | 33 | 41 | 63 | 98 | 3.0 | 6 | 0.60 | 0.21 | 2.0 | | 0.20 | 28 |
| Grass Silage | 30 | 61 | 62 | 31 | 61 | 11 | 24 | 32 | 39 | 60 | 61 | 3.4 | 8 | 0.70 | 0.24 | 2.1 | | 0.22 | 29 |
| Guar Meal | 90 | 72 | 75 | 47 | 74 | 39 | 34 | 16 | | | | 3.9 | 5 | | | | | | |
| Hominy Feed | 90 | 89 | 99 | 67 | 93 | 11 | 48 | 5 | 8 | 21 | 9 | 6.5 | 3 | 0.04 | 0.55 | 0.6 | 0.06 | 0.10 | 32 |
| Hop Leaves | 37 | 49 | 49 | 11 | 48 | 15 | | 15 | | | | 3.6 | 35 | 2.80 | 0.64 | | | | |
| Hop Vine Silage | 30 | 53 | 53 | 18 | 53 | 15 | | 21 | 24 | | | 3.1 | 20 | 3.30 | 0.37 | 1.8 | | 0.22 | 44 |
| Hops Spent | 89 | 35 | 39 | 0 | 33 | 23 | | 26 | 30 | | | 4.6 | 7 | 1.60 | 0.60 | | | | |
| Kelp Dried | 91 | 32 | 38 | 0 | 29 | 7 | | 7 | 10 | | | 0.5 | 39 | 2.72 | 0.31 | | | | |
| Kenaf Hay | 92 | 48 | 48 | 9 | 47 | 10 | | 31 | 44 | 56 | 98 | 2.9 | 12 | | | | | | |
| Kochia Fresh | 29 | 55 | 55 | 21 | 55 | 16 | | 23 | | | | 1.2 | 18 | 1.10 | 0.30 | | | | |
| Kochia Hay | 90 | 53 | 53 | 18 | 53 | 14 | | 27 | | | | 1.7 | 14 | 1.00 | 0.20 | | | | |
| Kudzu Hay | 90 | 54 | 54 | 20 | 54 | 16 | | 33 | | | | 2.6 | 7 | 3.00 | 0.23 | | | | |
| Lespedeza Fresh Early Bloom | 25 | 60 | 60 | 30 | 60 | 16 | 50 | 32 | | | | 2.0 | 10 | 1.20 | 0.24 | 1.1 | | 0.21 | |
| Lespedeza Hay | 92 | 54 | 54 | 20 | 54 | 14 | 60 | 30 | | | | 3.0 | 7 | 1.10 | 0.22 | 1.0 | | 0.19 | 29 |
| Limestone Ground | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 98 | 34.00 | 0.02 | | | 0.03 | |
| Limestone Dolomitic Ground | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 98 | 22.30 | 0.04 | 0.4 | | | |
| Linseed Meal, Solv. Ext. | 91 | 77 | 82 | 53 | 79 | 38 | 36 | 10 | 18 | 25 | 23 | 1.7 | 6 | 0.43 | 0.91 | 1.5 | 0.04 | 0.47 | 60 |
| Linseed Meal, Mech. Ext. | 91 | 82 | 89 | 59 | 85 | 37 | 40 | 10 | 17 | 24 | 23 | 6.0 | 6 | 0.42 | 0.90 | 1.4 | 0.04 | 0.46 | 59 |
| Meadow Hay | 90 | 50 | 50 | 12 | 49 | 7 | 23 | 33 | 44 | 70 | 98 | 2.5 | 9 | 0.61 | 0.18 | 1.6 | | 0.17 | 24 |
| Meat Meal, Swine/Poultry | 93 | 71 | 74 | 46 | 73 | 56 | 64 | 2 | 7 | 48 | 0 | 10.5 | 24 | 9.00 | 4.42 | 0.5 | 1.27 | 0.48 | 190 |
| Meat and Bone Meal, Swine/Poultry | 93 | 72 | 75 | 47 | 74 | 56 | 24 | 1 | 5 | 34 | 0 | 10.0 | 29 | 13.50 | 6.50 | | | | |
| Milk, Dry, Skim | 94 | 87 | 96 | 64 | 90 | 36 | 0 | 0 | 0 | 0 | 0 | 0.9 | 8 | 1.36 | 1.09 | 1.7 | 0.96 | 0.34 | 41 |

2013 Feed Composition Tables

| FEEDSTUFF | ENERGY | | | | | PROTEIN | | FIBER | | | | | | | | | | | |
|---------------------------------------|--------|-------|-----------------|-----------------|-----------------|---------|-------|-------|-------|-------|--------|------|-------|-------|-------|-----|------|------|--------|
| | DM % | TDN % | NE _m | NE _l | NE _i | CP % | UIP % | CF % | ADF % | NDF % | eNDF % | EE % | ASH % | Ca % | P % | K % | Cl % | S % | Zn ppm |
| Mint Slug Silage | 27 | 55 | 55 | 21 | 55 | 14 | | 24 | | | | 1.8 | 16 | 1.10 | 0.57 | | | | |
| Molasses Beet | 77 | 75 | 79 | 50 | 77 | 8 | 0 | 0 | 0 | 0 | 0 | 0.2 | 12 | 0.14 | 0.03 | 6.0 | 1.64 | 0.60 | 18 |
| Molasses Cane | 77 | 74 | 78 | 49 | 76 | 6 | 0 | 0 | 0 | 0 | 0 | 0.5 | 14 | 0.95 | 0.09 | 4.2 | 2.30 | 0.68 | 15 |
| Molasses Cane Dried | 94 | 74 | 78 | 49 | 76 | 9 | 0 | 2 | 3 | 7 | 0 | 0.3 | 14 | 1.10 | 0.15 | 3.6 | 3.00 | | 30 |
| Molasses, Cond. Fermentation Solubles | 43 | 69 | 71 | 43 | 70 | 16 | 0 | 0 | 0 | 0 | 0 | 1.0 | 26 | 2.12 | 0.14 | 7.5 | 2.73 | 0.93 | 30 |
| Molasses Citrus | 65 | 75 | 79 | 50 | 77 | 9 | 0 | 0 | 0 | 0 | 0 | 0.3 | 8 | 1.84 | 0.15 | 0.2 | 0.11 | 0.23 | 137 |
| Molasses Wood, Hemicellulose | 61 | 70 | 73 | 44 | 71 | 1 | 0 | 1 | 2 | 4 | 0 | 0.6 | 7 | 1.10 | 0.10 | 0.1 | | 0.05 | |
| Monoammonium Phosphate | 98 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0.0 | 24 | 0.30 | 24.70 | 0.0 | | 1.42 | 81 |
| Mono-Dicalcium Phosphate | 97 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0.0 | 94 | 16.70 | 21.10 | 0.1 | | 1.20 | 70 |
| Oat Hay | 90 | 54 | 54 | 20 | 54 | 10 | 25 | 31 | 39 | 63 | 98 | 2.3 | 8 | 0.40 | 0.27 | 1.6 | 0.42 | 0.21 | 28 |
| Oat Silage | 35 | 60 | 60 | 30 | 60 | 12 | 21 | 31 | 39 | 59 | 61 | 3.2 | 10 | 0.34 | 0.30 | 2.4 | 0.50 | 0.25 | 27 |
| Oat Straw | 91 | 48 | 48 | 9 | 47 | 4 | 40 | 41 | 48 | 73 | 98 | 2.3 | 8 | 0.24 | 0.07 | 2.5 | 0.78 | 0.22 | 6 |
| Oat Grain | 89 | 76 | 81 | 52 | 78 | 13 | 18 | 11 | 15 | 28 | 34 | 5.0 | 4 | 0.05 | 0.41 | 0.5 | 0.11 | 0.20 | 40 |
| Oat Grain, Steam Flaked | 84 | 88 | 98 | 65 | 91 | 13 | 26 | 11 | 15 | 30 | 32 | 4.9 | 4 | 0.05 | 0.37 | 0.5 | 0.11 | 0.20 | 40 |
| Oat Groats | 91 | 91 | 102 | 69 | 95 | 18 | 15 | 3 | | | | 6.6 | 2 | 0.08 | 0.47 | 0.4 | 0.10 | 0.20 | |
| Oat Middlings | 90 | 91 | 102 | 69 | 95 | 16 | 20 | 4 | 6 | | | 6.0 | 3 | 0.07 | 0.48 | 0.5 | | 0.23 | |
| Oat Mill Byproduct | 89 | 33 | 38 | 0 | 30 | 7 | | 27 | 37 | | | 2.4 | 6 | 0.13 | 0.22 | 0.6 | | 0.24 | |
| Oat Hulls | 93 | 38 | 40 | 0 | 36 | 4 | 25 | 33 | 41 | 75 | 90 | 1.6 | 7 | 0.16 | 0.15 | 0.6 | 0.08 | 0.14 | 31 |
| Orange Pulp Dried | 89 | 79 | 85 | 55 | 81 | 9 | | 9 | 16 | 20 | 33 | 1.8 | 4 | 0.71 | 0.11 | 0.6 | | 0.05 | |
| Orchardgrass Fresh Early Bloom | 24 | 65 | 66 | 37 | 66 | 14 | 23 | 30 | 32 | 54 | 41 | 4.0 | 9 | 0.33 | 0.39 | 2.7 | 0.08 | 0.20 | 21 |
| Orchardgrass Hay | 88 | 59 | 59 | 28 | 59 | 10 | 27 | 34 | 40 | 67 | 98 | 3.3 | 8 | 0.32 | 0.30 | 2.6 | 0.41 | 0.20 | 26 |
| Pea Vine Hay | 89 | 59 | 59 | 28 | 59 | 11 | | 32 | 50 | 62 | 92 | 2.0 | 7 | 1.25 | 0.24 | 1.3 | | 0.20 | 20 |
| Pea Vine Silage | 25 | 58 | 58 | 26 | 58 | 16 | | 29 | 44 | 55 | 61 | 3.3 | 8 | 1.25 | 0.28 | 1.6 | | 0.29 | 32 |
| Pea Vine Straw | 89 | 51 | 51 | 14 | 50 | 7 | | 41 | 49 | 72 | 98 | 1.4 | 7 | 0.75 | 0.13 | 1.1 | | 0.15 | |
| Peas Cull | 88 | 85 | 93 | 62 | 88 | 23 | 22 | 7 | 9 | 12 | 0 | 1.4 | 4 | 0.14 | 0.46 | 1.1 | 0.06 | 0.26 | 30 |
| Peanut Hulls | 91 | 22 | 36 | 0 | 18 | 7 | | 63 | 65 | 74 | 98 | 1.5 | 5 | 0.20 | 0.07 | 0.9 | | | |
| Peanut Meal, Solv. Ext. | 91 | 77 | 82 | 53 | 79 | 51 | 27 | 9 | 16 | 27 | 23 | 2.5 | 6 | 0.26 | 0.62 | 1.1 | 0.03 | 0.30 | 38 |
| Peanut Skins | 92 | 0 | 0 | 0 | 0 | 17 | | 13 | 20 | 28 | 0 | 22.0 | 3 | 0.19 | 0.20 | | | | |
| Pearl Millet Grain | 87 | 82 | 89 | 59 | 85 | 13 | | 2 | 6 | 18 | 34 | 4.5 | 3 | 0.03 | 0.36 | 0.5 | | | |
| Pineapple Greenchop | 17 | 47 | 47 | 7 | 46 | 8 | | 24 | 35 | 64 | 41 | 2.4 | 7 | 0.28 | 0.08 | | | | |
| Pineapple Bran | 89 | 71 | 74 | 46 | 73 | 5 | | 20 | 33 | 66 | 20 | 1.5 | 3 | 0.26 | 0.12 | | | | |
| Pineapple Presscake | 21 | 71 | 74 | 46 | 73 | 5 | | 24 | 35 | 69 | 20 | 0.8 | 3 | 0.25 | 0.09 | | | | |
| Potato Vine Silage | 15 | 59 | 59 | 28 | 59 | 15 | | 26 | | | | 3.7 | 19 | 2.10 | 0.29 | 4.0 | | 0.37 | |
| Potatoes Cull | 21 | 80 | 86 | 56 | 83 | 10 | 0 | 2 | 3 | 4 | 0 | 0.4 | 5 | 0.03 | 0.24 | 2.2 | 0.30 | 0.09 | |
| Potato Waste Wet | 14 | 82 | 89 | 59 | 85 | 7 | 0 | 9 | 11 | 18 | 0 | 1.5 | 3 | 0.16 | 0.25 | 1.2 | 0.36 | 0.11 | 12 |
| Potato Waste Dried | 89 | 85 | 93 | 62 | 88 | 8 | 0 | 7 | 9 | 15 | 0 | 0.5 | 5 | 0.16 | 0.25 | 1.2 | 0.39 | 0.11 | 12 |
| Potato Waste Wet with Lime | 17 | 80 | 86 | 56 | 83 | 5 | 0 | 10 | 12 | 16 | 0 | 0.3 | 9 | 4.20 | 0.18 | | | | |
| Potato Waste Filter Cake | 14 | 77 | 82 | 53 | 79 | 5 | 0 | 2 | | | | 7.7 | 3 | 0.10 | 0.19 | 0.2 | | | |
| Poultry Byproduct Meal | 93 | 79 | 85 | 55 | 81 | 62 | 49 | 2 | | | | 14.5 | 17 | 4.00 | 2.25 | 0.5 | 0.58 | 0.56 | 129 |
| Poultry Manure Dried | 89 | 38 | 40 | 0 | 36 | 28 | 22 | 13 | 15 | 35 | 0 | 2.1 | 33 | 10.20 | 2.80 | 2.3 | 1.05 | 0.20 | 520 |
| Prairie Hay | 91 | 50 | 50 | 12 | 49 | 7 | 37 | 34 | 47 | 67 | 98 | 2.0 | 8 | 0.40 | 0.15 | 1.1 | 0.06 | 0.06 | 34 |
| Pumpkins, Cull | 11 | 80 | 86 | 56 | 83 | 15 | | 14 | 21 | 30 | 0 | 8.9 | 9 | 0.24 | 0.43 | 3.3 | | | |
| Rice Straw | 91 | 40 | 42 | 0 | 38 | 4 | | 38 | 47 | 72 | 100 | 1.4 | 13 | 0.23 | 0.08 | 1.2 | | 0.11 | |
| Rice Straw Ammoniated | 87 | 45 | 45 | 3 | 44 | 9 | | 39 | 53 | 68 | 100 | 1.3 | 12 | 0.25 | 0.08 | 1.1 | | 0.11 | |
| Rice Grain | 89 | 79 | 85 | 55 | 81 | 8 | 30 | 10 | 12 | 16 | 34 | 1.9 | 5 | 0.07 | 0.32 | 0.4 | 0.09 | 0.05 | 17 |
| Rice Polishings | 90 | 90 | 100 | 68 | 94 | 14 | | 4 | 5 | | | 14.0 | 9 | 0.05 | 1.34 | 1.2 | 0.12 | 0.19 | 28 |
| Rice Bran | 91 | 71 | 74 | 46 | 73 | 14 | 30 | 13 | 18 | 24 | 0 | 16.0 | 11 | 0.07 | 1.70 | 1.8 | 0.09 | 0.19 | 40 |
| Rice Hulls | 92 | 13 | 35 | 0 | 8 | 3 | 45 | 44 | 70 | 81 | 90 | 0.9 | 20 | 0.12 | 0.07 | 0.5 | 0.08 | 0.08 | 24 |
| Rice Mill Byproduct | 91 | 39 | 41 | 0 | 37 | 7 | | 32 | 50 | 60 | 0 | 5.7 | 19 | 0.25 | 0.48 | 2.2 | | 0.30 | 31 |
| Rye Grass Hay | 90 | 58 | 58 | 26 | 58 | 10 | 30 | 33 | 38 | 65 | 98 | 3.3 | 8 | 0.45 | 0.30 | 2.2 | | 0.18 | 27 |
| Rye Grass Silage | 32 | 59 | 59 | 28 | 59 | 14 | 25 | 22 | 37 | 59 | 61 | 3.3 | 8 | 0.43 | 0.38 | 2.9 | 0.73 | 0.23 | 29 |
| Rye Straw | 89 | 44 | 44 | 1 | 43 | 4 | | 44 | 55 | 71 | 100 | 1.5 | 6 | 0.24 | 0.09 | 1.0 | 0.24 | 0.11 | |
| Rye Grain | 89 | 80 | 86 | 56 | 83 | 14 | 20 | 3 | 9 | 19 | 34 | 2.5 | 3 | 0.07 | 0.55 | 0.5 | 0.03 | 0.17 | 33 |
| Safflower Meal, Solv. Ext. | 91 | 56 | 56 | 23 | 56 | 24 | | 33 | 41 | 57 | 36 | 1.3 | 6 | 0.35 | 0.79 | 0.9 | 0.21 | 0.23 | 65 |
| Safflower Meal Dehulled, Solv. Ext. | 91 | 75 | 79 | 50 | 77 | 47 | | 11 | 20 | 27 | 30 | 0.8 | 7 | 0.38 | 1.50 | 1.2 | 0.18 | 0.22 | 36 |
| Safflower Hulls | 91 | 14 | 35 | 0 | 34 | 4 | | 58 | 73 | 90 | 100 | 3.7 | 2 | | | | | | |
| Sagebrush Fresh | 50 | 50 | 50 | 12 | 49 | 13 | | 25 | 30 | 38 | | 9.2 | 10 | 1.00 | 0.25 | | | 0.22 | |

2013 Feed Composition Tables

| FEEDSTUFF | ENERGY | | | | | PROTEIN | | FIBER | | | | | | | | | | | |
|--------------------------------------|--------|-------|-----------------|--------------------------------|-----------------|---------|-------|-------|-------|-------|--------|------|-------|------|-------|-----|------|------|--------|
| | DM % | TDN % | NE _m | NE _l (Mcal/cwt.) | NE _i | CP % | UIP % | CF % | ADF % | NDF % | eNDF % | EE % | ASH % | Ca % | P % | K % | Cl % | S % | Zn ppm |
| Sanfoin Hay | 88 | 61 | 62 | 31 | 62 | 14 | 60 | 24 | | | | 3.1 | 9 | | | | | | |
| Shrimp Waste Meal | 90 | 48 | 48 | 9 | 47 | 50 | 60 | 11 | | | | 5.5 | 25 | 8.50 | 1.75 | | 1.15 | | |
| Sodium Tripolyphosphate | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 96 | 0.00 | 25.98 | 0.0 | | 0.00 | |
| Sorghum Stover | 87 | 54 | 54 | 20 | 54 | 5 | | 33 | 41 | 65 | 100 | 1.8 | 10 | 0.50 | 0.12 | 1.2 | | | |
| Sorghum Silage | 32 | 59 | 59 | 28 | 59 | 9 | 25 | 27 | 38 | 59 | 70 | 2.7 | 6 | 0.48 | 0.21 | 1.7 | 0.45 | 0.11 | 30 |
| Sorghum Grain (Milo), Ground | 89 | 82 | 89 | 59 | 85 | 11 | 55 | 3 | 6 | 15 | 5 | 3.1 | 2 | 0.04 | 0.32 | 0.4 | 0.10 | 0.14 | 18 |
| Sorghum Grain (Milo), Flaked | 82 | 90 | 100 | 68 | 94 | 11 | 62 | 3 | 6 | 15 | 38 | 3.1 | 2 | 0.04 | 0.28 | 0.4 | 0.10 | 0.14 | 18 |
| Soybean Hay | 89 | 52 | 52 | 16 | 51 | 16 | | 33 | 40 | 55 | 92 | 3.5 | 8 | 1.28 | 0.29 | 1.0 | 0.15 | 0.24 | 24 |
| Soybean Straw | 88 | 42 | 43 | 0 | 40 | 5 | | 44 | 54 | 70 | 100 | 1.4 | 6 | 1.59 | 0.06 | 0.6 | | 0.26 | |
| Soybeans Whole | 88 | 92 | 103 | 70 | 96 | 41 | 28 | 8 | 11 | 15 | 100 | 18.8 | 5 | 0.27 | 0.64 | 1.9 | 0.03 | 0.34 | 56 |
| Soybeans Whole, Extruded | 88 | 93 | 104 | 71 | 97 | 40 | 35 | 9 | 11 | 15 | 100 | 18.8 | 5 | 0.27 | 0.64 | 2.0 | 0.03 | 0.34 | 56 |
| Soybeans Whole, Roasted | 88 | 93 | 104 | 71 | 97 | 40 | 48 | 9 | 11 | 15 | 100 | 18.8 | 5 | 0.27 | 0.64 | 2.0 | 0.03 | 0.34 | 56 |
| Soybean Hulls | 90 | 77 | 82 | 52 | 79 | 13 | 28 | 39 | 48 | 62 | 28 | 2.3 | 5 | 0.60 | 0.19 | 1.3 | 0.02 | 0.12 | 38 |
| Soybean Meal, Solv. Ext. 44% CP | 89 | 84 | 92 | 61 | 87 | 49 | 35 | 7 | 10 | 15 | 23 | 1.5 | 7 | 0.36 | 0.70 | 2.2 | 0.07 | 0.41 | 62 |
| Soybean Meal, Solv. Ext. 49% CP | 89 | 87 | 96 | 64 | 90 | 54 | 36 | 4 | 6 | 8 | 23 | 1.3 | 7 | 0.28 | 0.71 | 2.2 | 0.08 | 0.45 | 61 |
| Soybean Mill Feed | 90 | 50 | 50 | 12 | 49 | 15 | | 36 | 46 | | | 1.9 | 6 | 0.46 | 0.19 | 1.7 | | 0.07 | |
| Spelt Grain | 88 | 75 | 79 | 50 | 77 | 13 | 27 | 10 | 17 | 21 | 34 | 2.1 | 4 | 0.04 | 0.40 | 0.4 | | 0.15 | 47 |
| Sudangrass Fresh Immature | 18 | 70 | 73 | 44 | 71 | 17 | | 23 | 29 | 55 | 41 | 3.9 | 9 | 0.46 | 0.36 | 2.0 | | 0.11 | 24 |
| Sudangrass Hay | 88 | 57 | 57 | 25 | 57 | 9 | 30 | 36 | 43 | 67 | 98 | 1.8 | 10 | 0.50 | 0.22 | 2.2 | 0.80 | 0.12 | 26 |
| Sudangrass Silage | 31 | 58 | 58 | 26 | 58 | 10 | 28 | 30 | 42 | 64 | 61 | 3.1 | 10 | 0.58 | 0.27 | 2.4 | 0.52 | 0.14 | 29 |
| Sunflower Meal, Solv. Ext. | 92 | 65 | 66 | 37 | 66 | 40 | 27 | 18 | 22 | 36 | 23 | 2.8 | 8 | 0.44 | 0.97 | 1.1 | 0.15 | 0.33 | 55 |
| Sunflower Meal with Hulls | 91 | 57 | 57 | 25 | 57 | 31 | 35 | 27 | 32 | 44 | 37 | 2.4 | 7 | 0.40 | 1.03 | 1.0 | | 0.30 | 85 |
| Sunflower Seed Hulls | 90 | 40 | 42 | 0 | 38 | 4 | 65 | 52 | 63 | 73 | 90 | 2.2 | 3 | 0.00 | 0.11 | 0.2 | | 0.19 | 200 |
| Sugar Cane Bagasse | 91 | 39 | 41 | 0 | 37 | 1 | | 49 | 60 | 86 | 100 | 0.6 | 4 | 0.90 | 0.29 | 0.5 | | 0.10 | |
| Tapioca Meal, Cassava By-product | 89 | 82 | 89 | 59 | 85 | 1 | | 5 | 8 | 34 | | 0.8 | 3 | 0.03 | 0.05 | | | | |
| Timothy Fresh Pre-Bloom | 26 | 64 | 65 | 36 | 65 | 11 | 20 | 31 | 36 | 59 | 41 | 3.8 | 7 | 0.40 | 0.28 | 1.9 | 0.57 | 0.15 | 28 |
| Timothy Hay Early Bloom | 88 | 59 | 59 | 28 | 59 | 11 | 22 | 32 | 39 | 63 | 98 | 2.7 | 6 | 0.58 | 0.26 | 1.9 | 0.51 | 0.21 | 30 |
| Timothy Hay Full Bloom | 88 | 57 | 57 | 25 | 57 | 8 | 30 | 34 | 40 | 65 | 98 | 2.6 | 5 | 0.43 | 0.20 | 1.8 | 0.62 | 0.13 | 25 |
| Timothy Silage | 34 | 59 | 59 | 28 | 59 | 10 | 25 | 34 | 45 | 70 | 61 | 3.4 | 7 | 0.50 | 0.27 | 1.7 | | 0.15 | |
| Tomatoes | 6 | 69 | 71 | 43 | 70 | 16 | | 9 | 11 | | | 4.0 | 6 | 0.14 | 0.35 | 4.2 | | | |
| Tomato Pomace Dried | 92 | 64 | 65 | 36 | 65 | 23 | | 26 | 50 | 55 | 34 | 10.6 | 6 | 0.43 | 0.59 | 3.6 | | | |
| Triticale Hay | 90 | 56 | 56 | 23 | 56 | 10 | | 34 | 41 | 69 | 98 | | | 0.30 | 0.26 | 2.3 | | | 25 |
| Triticale Silage | 34 | 58 | 58 | 26 | 58 | 14 | | 30 | 39 | 56 | 61 | 3.6 | | 0.58 | 0.34 | 2.7 | | 0.28 | 36 |
| Triticale Grain | 89 | 85 | 93 | 62 | 88 | 14 | 25 | 4 | 5 | 22 | 34 | 2.4 | 2 | 0.07 | 0.39 | 0.5 | | 0.17 | 37 |
| Turnip Tops (Purple) | 18 | 68 | 70 | 41 | 69 | 18 | | 10 | 13 | | | 2.6 | 14 | 3.10 | 0.40 | 3.0 | 1.80 | 0.27 | |
| Turnip Roots | 9 | 86 | 95 | 63 | 89 | 12 | 0 | 11 | 34 | 44 | 40 | 1.6 | 9 | 0.65 | 0.31 | 3.1 | 0.65 | 0.43 | 40 |
| Urea 46% N | 99 | 0 | 0 | 0 | 0 | 288 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 | 0.0 | 0.00 | 0.00 | 0 |
| Vetch Hay | 89 | 58 | 58 | 26 | 58 | 18 | 14 | 30 | 33 | 48 | 92 | 1.8 | 8 | 1.25 | 0.34 | 2.4 | | 0.13 | |
| Wheat Fresh, Pasture | 21 | 71 | 74 | 46 | 73 | 20 | 16 | 18 | 30 | 50 | 41 | 4.0 | 13 | 0.35 | 0.36 | 3.1 | 0.67 | 0.22 | |
| Wheat Hay | 90 | 57 | 57 | 25 | 57 | 9 | 25 | 29 | 38 | 66 | 98 | 2.0 | 8 | 0.21 | 0.22 | 1.4 | 0.50 | 0.19 | 23 |
| Wheat Silage | 33 | 59 | 59 | 28 | 59 | 12 | 21 | 28 | 37 | 62 | 61 | 3.2 | 8 | 0.40 | 0.28 | 2.1 | 0.50 | 0.21 | 27 |
| Wheat Straw | 91 | 43 | 44 | 0 | 41 | 3 | 60 | 43 | 57 | 81 | 98 | 1.8 | 8 | 0.17 | 0.06 | 1.3 | 0.32 | 0.17 | 6 |
| Wheat Straw Ammoniated | 85 | 50 | 50 | 12 | 49 | 9 | 25 | 40 | 55 | 76 | 98 | 1.5 | 9 | 0.15 | 0.05 | 1.3 | 0.30 | 0.16 | 6 |
| Wheat Grain | 89 | 88 | 98 | 65 | 91 | 14 | 23 | 3 | 4 | 12 | 0 | 2.3 | 2 | 0.05 | 0.43 | 0.4 | 0.09 | 0.15 | 40 |
| Wheat Grain Hard | 89 | 88 | 98 | 65 | 91 | 14 | 28 | 3 | 6 | 14 | 0 | 2.0 | 2 | 0.05 | 0.43 | 0.5 | | 0.16 | 45 |
| Wheat Grain Soft | 89 | 88 | 98 | 65 | 91 | 12 | 23 | 3 | 4 | 12 | 0 | 2.0 | 2 | 0.06 | 0.40 | 0.4 | | 0.15 | 30 |
| Wheat Grain, Steam Flaked | 85 | 91 | 102 | 69 | 95 | 14 | 29 | 3 | 4 | 12 | 0 | 2.3 | 2 | 0.05 | 0.39 | 0.4 | | 0.15 | 40 |
| Wheat Grain Sprouted | 86 | 88 | 98 | 65 | 91 | 12 | 18 | 3 | 4 | 13 | 0 | 2.0 | 2 | 0.04 | 0.36 | 0.4 | | 0.17 | 45 |
| Wheat Bran | 89 | 70 | 73 | 44 | 71 | 17 | 28 | 11 | 14 | 46 | 4 | 4.4 | 7 | 0.13 | 1.32 | 1.4 | 0.05 | 0.24 | 96 |
| Wheat Middlings | 89 | 80 | 86 | 56 | 83 | 18 | 22 | 8 | 11 | 36 | 2 | 4.7 | 5 | 0.14 | 1.00 | 1.3 | 0.05 | 0.20 | 98 |
| Wheat Mill Run | 90 | 76 | 81 | 52 | 78 | 17 | 28 | 9 | 12 | 37 | 0 | 4.5 | 6 | 0.11 | 1.10 | 1.2 | 0.07 | 0.22 | 90 |
| Wheat Shorts | 89 | 78 | 83 | 54 | 80 | 19 | 25 | 8 | 10 | 30 | 0 | 5.3 | 5 | 0.10 | 0.93 | 1.1 | 0.08 | 0.20 | 118 |
| Wheatgrass Crested Fresh Early Bloom | 37 | 60 | 60 | 30 | 60 | 11 | 25 | 26 | 28 | 50 | 41 | 1.6 | 7 | 0.46 | 0.32 | 2.4 | | | |
| Wheatgrass Crested Fresh Full Bloom | 50 | 55 | 55 | 21 | 55 | 10 | 33 | 33 | 36 | 65 | 41 | 1.6 | 7 | 0.39 | 0.28 | 2.1 | | | |
| Wheatgrass Crested Hay | 92 | 54 | 54 | 20 | 54 | 10 | 33 | 33 | 36 | 65 | 98 | 2.4 | 7 | 0.33 | 0.20 | 2.0 | | | 32 |
| Whey Dried | 94 | 82 | 89 | 59 | 85 | 14 | 15 | 0 | 0 | 0 | 0 | 0.9 | 10 | 0.98 | 0.88 | 1.3 | 1.20 | 0.92 | 10 |
| Yeast, Brewer's | 92 | 79 | 85 | 55 | 81 | 47 | 30 | 3 | 4 | | 0 | 0.9 | 7 | 0.13 | 1.49 | 1.8 | | | |