

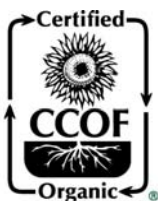


Average Dry Matter Percentages for Various Livestock Feeds

Available at www.ccof.org/pasturerule.php

Information provided as reference for organic ruminant by CCOF to help calculate Dry Matter Intake. All feed for organic livestock must be certified organic, and must be listed in the Organic System Plan and approved by CCOF.

| Feed Type | Average Dry Matter % | High End | Low End | Source of Data |
|--------------------------------|----------------------|----------|---------|-------------------------------|
| Alfalfa (cubes, dehy) | 90.2 | 91.3 | 90.0 | UC Cooperative Extension 2009 |
| Alfalfa (cubes, sun-dried) | 91.6 | | | UC Cooperative Extension 2009 |
| Alfalfa (green chop - fall) | 42.9 | 56.7 | 21.1 | UC Cooperative Extension 2009 |
| Alfalfa (green chop -> summer) | 27.1 | | | UC Cooperative Extension 2009 |
| Alfalfa (hay) | 90.2 | 94.3 | 84.1 | UC Cooperative Extension 2009 |
| Alfalfa (silage) | 29.7 | 40.1 | 24.8 | UC Cooperative Extension 2009 |
| Alfalfa Cubes | 91 | | | Beef Magazine 2009 |
| Alfalfa Cubes | 90.1 | 92.3 | 89.6 | Dairy One |
| Alfalfa Dehydrated 17% CP | 92 | | | Beef Magazine 2009 |
| Alfalfa Fresh | 24 | | | Beef Magazine 2009 |
| Alfalfa Hay Early Bloom | 90 | | | Beef Magazine 2009 |
| Alfalfa Hay Full Bloom | 88 | | | Beef Magazine 2009 |
| Alfalfa Hay Mature | 88 | | | Beef Magazine 2009 |
| Alfalfa Hay Midbloom | 89 | | | Beef Magazine 2009 |
| Alfalfa Leaf Meal | 89 | | | Beef Magazine 2009 |
| Alfalfa Pellets | 91.0 | 92.5 | 89.3 | Dairy One |
| Alfalfa Seed Screenings | 91 | | | Beef Magazine 2009 |
| Alfalfa Silage | 30 | | | Beef Magazine 2009 |
| Alfalfa Silage Wilted | 39 | | | Beef Magazine 2009 |
| Alfalfa Stems | 89 | | | Beef Magazine 2009 |
| Alfalfa/Grass (hay) | 84.9 | 85.6 | 83.7 | UC Cooperative Extension 2009 |
| Almond Hulls | 89 | | | Beef Magazine 2009 |
| Almond Hulls | 87.7 | 96.1 | 85.0 | UC Cooperative Extension 2009 |
| Almond Meal | 90.9 | | | UC Cooperative Extension 2009 |
| Almond skins (ensiled) | 29.8 | | | UC Cooperative Extension 2009 |
| Almond skins (fresh) | 47.9 | | | UC Cooperative Extension 2009 |
| Apple (pulp, wet) | 16.5 | | | UC Cooperative Extension 2009 |
| Apple Pomace Dried | 89 | | | Beef Magazine 2009 |
| Apple Pomace Wet | 20 | | | Beef Magazine 2009 |
| Artichoke Tops (Jerusalem) | 27 | | | Beef Magazine 2009 |
| Avocado Seed Meal | 91 | | | Beef Magazine 2009 |
| Bahiagrass Hay | 90 | | | Beef Magazine 2009 |
| Bakery Product Dried | 90 | | | Beef Magazine 2009 |
| Bakery Waste | 91.9 | | | UC Cooperative Extension 2009 |
| Barley (grain) | 90.4 | 91.0 | 89.3 | UC Cooperative Extension 2009 |
| Barley Feed Pearl Byproduct | 90 | | | Beef Magazine 2009 |
| Barley Grain | 89 | | | Beef Magazine 2009 |
| Barley Grain 2-row | 87 | | | Beef Magazine 2009 |
| Barley Grain 6-row | 87 | | | Beef Magazine 2009 |



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| | | | | |
|--------------------------------------|------|------|------|-------------------------------|
| Barley Grain Lt. Wt. (42-44 lb./bu.) | 88 | | | Beef Magazine 2009 |
| Barley Grain Screenings | 89 | | | Beef Magazine 2009 |
| Barley Grain Steam Flaked | 85 | | | Beef Magazine 2009 |
| Barley Grain Steam Rolled | 86 | | | Beef Magazine 2009 |
| Barley Hay | 90 | | | Beef Magazine 2009 |
| Barley Hay | 91.3 | 93.0 | 89.7 | Dairy One |
| Barley Silage | 35 | | | Beef Magazine 2009 |
| Barley Silage | 38.5 | 56.6 | 20.4 | Dairy One |
| Barley Silage Mature | 35 | | | Beef Magazine 2009 |
| Barley Straw | 90 | | | Beef Magazine 2009 |
| Beans (lima, dry) | 90.7 | | | UC Cooperative Extension 2009 |
| Beans Navy Cull | 90 | | | Beef Magazine 2009 |
| Beet pulp (pellets, dehy) | 91.7 | 92.8 | 89.7 | UC Cooperative Extension 2009 |
| Beet pulp (shreds, dehy) | 91.3 | 94.0 | 87.8 | UC Cooperative Extension 2009 |
| Beet Pulp Dried | 91 | | | Beef Magazine 2009 |
| Beet Pulp Dried with Molasses | 92 | | | Beef Magazine 2009 |
| Beet Pulp Wet | 17 | | | Beef Magazine 2009 |
| Beet Pulp Wet with Molasses | 24 | | | Beef Magazine 2009 |
| Beet Top Silage | 25 | | | Beef Magazine 2009 |
| Beet Tops (Sugar) | 20 | | | Beef Magazine 2009 |
| Bermuda grass (hay) | 63.3 | | | UC Cooperative Extension 2009 |
| Bermuda grass (seed screenings) | 91.4 | 94.3 | 87.9 | UC Cooperative Extension 2009 |
| Bermuda Grass Hay | 93.1 | 94.4 | 91.8 | Dairy One |
| Bermuda Grass Silage | 38.6 | 50.3 | 26.8 | Dairy One |
| Bermudagrass Coastal Dehydrated | 90 | | | Beef Magazine 2009 |
| Bermudagrass Coastal Hay | 89 | | | Beef Magazine 2009 |
| Bermudagrass Hay | 89 | | | Beef Magazine 2009 |
| Bermudagrass Silage | 26 | | | Beef Magazine 2009 |
| Birdsfoot Trefoil Fresh | 22 | | | Beef Magazine 2009 |
| Birdsfoot Trefoil Hay | 89 | | | Beef Magazine 2009 |
| Bluegrass KY Fresh Early Bloom | 36 | | | Beef Magazine 2009 |
| Bluegrass Straw | 93 | | | Beef Magazine 2009 |
| Bluestem Fresh Mature | 61 | | | Beef Magazine 2009 |
| Brandy (pulp, wet) | 29.5 | | | UC Cooperative Extension 2009 |
| Brasica Forage | 33.4 | 67.0 | 0.0 | Dairy One |
| Bread Byproduct | 68 | | | Beef Magazine 2009 |
| Brewers Grains | 93.2 | 95.8 | 90.6 | Dairy One |
| Brewers Grains (wet) | 27.3 | 26.4 | 28.2 | UC Cooperative Extension 2009 |
| Brewers Grains Dried | 92 | | | Beef Magazine 2009 |
| Brewers Grains Wet | 23 | | | Beef Magazine 2009 |
| Brewers Yeast Dried | 94 | | | Beef Magazine 2009 |
| Bromegrass Fresh Immature | 30 | | | Beef Magazine 2009 |



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| | | | | |
|-------------------------------------|------|------|------|-------------------------------|
| Bromegrass Hay | 89 | | | Beef Magazine 2009 |
| Bromegrass Haylage | 35 | | | Beef Magazine 2009 |
| Buckwheat Grain | 88 | | | Beef Magazine 2009 |
| Buttermilk Dried | 92 | | | Beef Magazine 2009 |
| Cactus | 26 | | | Beef Magazine 2009 |
| Calcium Carbonate | 99 | | | Beef Magazine 2009 |
| Canarygrass Hay | 91 | | | Beef Magazine 2009 |
| Canola Meal | 90.9 | 93.1 | 88.6 | Dairy One |
| Canola Meal Solvent | 90 | | | Beef Magazine 2009 |
| Canola Pellets (38% CP, solvent) | 89.6 | 91.2 | 86.5 | UC Cooperative Extension 2009 |
| Carrot Pulp | 14 | | | Beef Magazine 2009 |
| Carrot Root Fresh | 12 | | | Beef Magazine 2009 |
| Carrot Tops | 16 | | | Beef Magazine 2009 |
| Carrots (fresh, tubers/pulp) | 11.0 | 12.5 | 9.9 | UC Cooperative Extension 2009 |
| Cheatgrass Fresh Immature | 21 | | | Beef Magazine 2009 |
| Citrus Pulp (dehy pellets) | 90.4 | 92.5 | 88.3 | UC Cooperative Extension 2009 |
| Citrus Pulp Wet | 22.9 | 33.4 | 18.0 | UC Cooperative Extension 2009 |
| Citrus Pulp Dried | 90 | | | Beef Magazine 2009 |
| Clover Ladino Fresh | 19 | | | Beef Magazine 2009 |
| Clover Ladino Hay | 90 | | | Beef Magazine 2009 |
| Clover Red Fresh | 24 | | | Beef Magazine 2009 |
| Clover Red Hay | 88 | | | Beef Magazine 2009 |
| Clover Sweet Hay | 91 | | | Beef Magazine 2009 |
| Coconut (shreds, dry) | 97.1 | | | UC Cooperative Extension 2009 |
| Coconut Meal | 92 | | | Beef Magazine 2009 |
| Coffee (beans whole) | 46.8 | 48.7 | 44.9 | UC Cooperative Extension 2009 |
| Coffee Grounds | 88 | | | Beef Magazine 2009 |
| Corn & Cob Meal | 87 | | | Beef Magazine 2009 |
| Corn (earlage) | 76.5 | 92.8 | 60.1 | UC Cooperative Extension 2009 |
| Corn (germ meal) | 89.1 | 91.4 | 89.5 | UC Cooperative Extension 2009 |
| Corn (gluten feed pellets) | 91.6 | | | UC Cooperative Extension 2009 |
| Corn (gluten feed, dehy) | 91.3 | | | UC Cooperative Extension 2009 |
| Corn (gluten feed, wet) | 89.8 | 47.7 | 42.1 | UC Cooperative Extension 2009 |
| Corn (grain, flaked) | 87.4 | 90.9 | 85.7 | UC Cooperative Extension 2009 |
| Corn (hominy feed) | 90.0 | 91.4 | 87.9 | UC Cooperative Extension 2009 |
| Corn (silage) | 29.5 | 34.4 | 19.3 | UC Cooperative Extension 2009 |
| Corn Bran | 91 | | | Beef Magazine 2009 |
| Corn Cannery Waste | 29 | | | Beef Magazine 2009 |
| Corn Cobs | 90 | | | Beef Magazine 2009 |
| Corn Fodder | 80 | | | Beef Magazine 2009 |
| Corn Forage | 37.6 | 54.4 | 20.9 | Dairy One |
| Corn Germ (dehydrated; Dakota Gold) | 94.7 | 94.9 | 94.0 | UC Cooperative Extension 2009 |



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| | | | | |
|--|------|------|------|-------------------------------|
| Corn Gluten Feed | 90 | | | Beef Magazine 2009 |
| Corn Gluten Meal | 91.4 | 93.5 | 89.3 | Dairy One |
| Corn Gluten Meal 41% CP | 91 | | | Beef Magazine 2009 |
| Corn Gluten Meal 60% CP | 91 | | | Beef Magazine 2009 |
| Corn Grain High Moisture | 74 | | | Beef Magazine 2009 |
| Corn Grain High Oil | 88 | | | Beef Magazine 2009 |
| Corn Grain Hi-Lysine | 92 | | | Beef Magazine 2009 |
| Corn Grain Rolled | 88 | | | Beef Magazine 2009 |
| Corn Grain Steam Flaked | 85 | | | Beef Magazine 2009 |
| Corn Grain Whole | 88 | | | Beef Magazine 2009 |
| Corn Screenings | 86 | | | Beef Magazine 2009 |
| Corn Silage | 33.8 | 44.5 | 23.2 | Dairy One |
| Corn Silage Mature Well Eared | 34 | | | Beef Magazine 2009 |
| Corn Silage Milk Stage | 26 | | | Beef Magazine 2009 |
| Corn Silage Sweet Corn | 24 | | | Beef Magazine 2009 |
| Corn Stover Mature (Stalks) | 80 | | | Beef Magazine 2009 |
| Corn Whole Plant Pelleted | 91 | | | Beef Magazine 2009 |
| Cotton (hulls, seed) | 92.8 | 93.5 | 91.5 | UC Cooperative Extension 2009 |
| Cotton (meal, solvent) | 89.6 | | | UC Cooperative Extension 2009 |
| Cotton (seed, pima with lint) | 93.3 | 94.8 | 92.1 | UC Cooperative Extension 2009 |
| Cotton (seed, upland with lint) | 92.7 | 96.4 | 95.0 | UC Cooperative Extension 2009 |
| Cotton Gin Trash (Burs) | 91 | | | Beef Magazine 2009 |
| Cottonseed Hulls | 90 | | | Beef Magazine 2009 |
| Cottonseed Meal | 91.0 | 93.0 | 89.0 | Dairy One |
| Cottonseed Meal, Mech. 41% CP | 92 | | | Beef Magazine 2009 |
| Cottonseed Meal, Solvent 41% CP | 90 | | | Beef Magazine 2009 |
| Cottonseed Whole | 91 | | | Beef Magazine 2009 |
| Cottonseed Whole, Delinted | 90 | | | Beef Magazine 2009 |
| Cottonseed Whole, Extruded | 92 | | | Beef Magazine 2009 |
| Crab Waste Meal | 91 | | | Beef Magazine 2009 |
| Crambe Meal, Mech. | 92 | | | Beef Magazine 2009 |
| Crambe Meal, Solvent | 91 | | | Beef Magazine 2009 |
| Cranberry Pulp Meal | 88 | | | Beef Magazine 2009 |
| Crawfish Waste Meal | 94 | | | Beef Magazine 2009 |
| Distillers Corn Stillage | 7 | | | Beef Magazine 2009 |
| Distillers Dried Grains (high protein; Dakota old) | 93.9 | 94.7 | 93.2 | UC Cooperative Extension 2009 |
| Distillers Dried Grains (solubles, raw starch hydrolysis; Dakota Gold) | 90.3 | 96.1 | 95.7 | UC Cooperative Extension 2009 |
| Distillers Dried Grains (solubles; Dakota Gold) | 91.2 | 91.9 | 89.6 | UC Cooperative Extension 2009 |
| Distillers Dried Grains (solubles; Dakota Gold) | 88.2 | 89.7 | 87.4 | UC Cooperative Extension 2009 |



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| | | | | |
|---|------|------|------|-------------------------------|
| Distillers Dried Solubles | 93 | | | Beef Magazine 2009 |
| Distillers Grain Barley | 90 | | | Beef Magazine 2009 |
| Distillers Grain Corn with Solubles | 90 | | | Beef Magazine 2009 |
| Distillers Grain Corn, Dry | 91 | | | Beef Magazine 2009 |
| Distillers Grain Corn, Wet | 36 | | | Beef Magazine 2009 |
| Distillers Grain Sorghum with Solubles | 92 | | | Beef Magazine 2009 |
| Distillers Grain Sorghum, Dry | 91 | | | Beef Magazine 2009 |
| Distillers Grain Sorghum, Wet | 35 | | | Beef Magazine 2009 |
| Distillers Grains (dehy/corn/w solubles; various sources) | 89.7 | 92.0 | 87.0 | UC Cooperative Extension 2009 |
| Distillers Grains Wet | 25 | | | Beef Magazine 2009 |
| Elephant (Napier) Grass Hay, Chopped | 92 | | | Beef Magazine 2009 |
| Fescue (hay) | 94.0 | | | UC Cooperative Extension 2009 |
| Fescue (Red) Straw | 94 | | | Beef Magazine 2009 |
| Fescue KY 31 Fresh | 29 | | | Beef Magazine 2009 |
| Fescue KY 31 Hay Early Bloom | 88 | | | Beef Magazine 2009 |
| Fescue KY 31 Hay Mature | 88 | | | Beef Magazine 2009 |
| Fish Meal | 90 | | | Beef Magazine 2009 |
| Flaxseed | 91.4 | 93.5 | 89.2 | Dairy One |
| Grain Dust | 92 | | | Beef Magazine 2009 |
| Grain Screenings | 90 | | | Beef Magazine 2009 |
| Grain Screenings | 82.6 | | | UC Cooperative Extension 2009 |
| Grape (pomace) | 93.4 | | | UC Cooperative Extension 2009 |
| Grape Pomace Stemless | 91 | | | Beef Magazine 2009 |
| Grass (fresh, spring) | 18.1 | | | UC Cooperative Extension 2009 |
| Grass (Kleingrass) | 92.6 | | | UC Cooperative Extension 2009 |
| Grass (undefined, silage) | 26.4 | | | UC Cooperative Extension 2009 |
| Grass Forage | 46.5 | 76.4 | 16.6 | Dairy One |
| Grass Hay | 88 | | | Beef Magazine 2009 |
| Grass Hay | 91.6 | 93.3 | 90.6 | Dairy One |
| Grass Silage | 30 | | | Beef Magazine 2009 |
| Grass Silage | 39.5 | 55.4 | 23.6 | Dairy One |
| Guar Meal | 90 | | | Beef Magazine 2009 |
| High Moisture Ear Corn | 63.7 | 72.5 | 54.9 | Dairy One |
| High Moisture Shelled Corn | 72.0 | 78.6 | 65.3 | Dairy One |
| Hominy Feed | 90 | | | Beef Magazine 2009 |
| Hop Leaves | 37 | | | Beef Magazine 2009 |
| Hop Vine Silage | 30 | | | Beef Magazine 2009 |
| Hops Spent | 89 | | | Beef Magazine 2009 |
| Jojoba (meal) | 93.6 | | | UC Cooperative Extension 2009 |
| Kelp Dried | 91 | | | Beef Magazine 2009 |
| Kenaf Hay | 92 | | | Beef Magazine 2009 |



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| | | | | |
|---------------------------------------|------|------|------|-------------------------------|
| Kochia Fresh | 29 | | | Beef Magazine 2009 |
| Kochia Hay | 90 | | | Beef Magazine 2009 |
| Kudzu Hay | 90 | | | Beef Magazine 2009 |
| Legume Hay | 90.8 | 92.5 | 89.4 | Dairy One |
| Legume Silage | 40.2 | 52.5 | 27.9 | Dairy One |
| Lespedeza Fresh Early Bloom | 25 | | | Beef Magazine 2009 |
| Lespedeza Hay | 92 | | | Beef Magazine 2009 |
| Limestone Dolomitic Ground | 99 | | | Beef Magazine 2009 |
| Limestone Ground | 98 | | | Beef Magazine 2009 |
| Linseed (meal, solvent) | 91.8 | | | UC Cooperative Extension 2009 |
| Linseed Meal Solvent | 91 | | | Beef Magazine 2009 |
| Meadow Hay | 90 | | | Beef Magazine 2009 |
| Milk, Dry, Skim | 94 | | | Beef Magazine 2009 |
| Millet | 83.1 | 92.1 | 74.2 | Dairy One |
| Millet Hay | 91.8 | 93.1 | 90.4 | Dairy One |
| Mint Slug Silage | 27 | | | Beef Magazine 2009 |
| MMG Hay | 91.4 | 92.8 | 90.1 | Dairy One |
| MMG Pasture Forage | 50.1 | 83.2 | 16.9 | Dairy One |
| MMG Silage | 38.2 | 50.5 | 26.1 | Dairy One |
| MML Hay | 90.5 | 92.2 | 88.7 | Dairy One |
| MML Pasture Forage | 52.6 | 87.5 | 17.6 | Dairy One |
| MML Silage | 38.6 | 49.0 | 28.2 | Dairy One |
| Molasses Beet | 77 | | | Beef Magazine 2009 |
| Molasses Cane | 77 | | | Beef Magazine 2009 |
| Molasses Cane Dried | 94 | | | Beef Magazine 2009 |
| Molasses Citrus | 65 | | | Beef Magazine 2009 |
| Molasses Wood, Hemicellulose | 61 | | | Beef Magazine 2009 |
| Molasses, Cond. Fermentation Solubles | 43 | | | Beef Magazine 2009 |
| Oat (hay) | 90.4 | 93.5 | 90.6 | UC Cooperative Extension 2009 |
| Oat (straw) | 92.5 | | | UC Cooperative Extension 2009 |
| Oat (whole crop, silage) | 3.6 | 9.9 | 58.2 | UC Cooperative Extension 2009 |
| Oat Forage | 40.3 | 67.5 | 13.1 | Dairy One |
| Oat Grain | 89 | | | Beef Magazine 2009 |
| Oat Grain, Steam Flaked | 84 | | | Beef Magazine 2009 |
| Oat Groats | 91 | | | Beef Magazine 2009 |
| Oat Hay | 90 | | | Beef Magazine 2009 |
| Oat Hay | 90.9 | 92.4 | 89.5 | Dairy One |
| Oat Hulls | 93 | | | Beef Magazine 2009 |
| Oat Middlings | 90 | | | Beef Magazine 2009 |
| Oat Mill Byproduct | 89 | | | Beef Magazine 2009 |
| Oat Silage | 35 | | | Beef Magazine 2009 |
| Oat Silage | 36.0 | 51.7 | 20.3 | Dairy One |



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| | | | | |
|--------------------------------|------|------|------|-------------------------------|
| Oat Straw | 91 | | | Beef Magazine 2009 |
| Oats | 90.5 | 92.3 | 88.6 | Dairy One |
| Orange Pulp Dried | 89 | | | Beef Magazine 2009 |
| Orchardgrass Fresh Early Bloom | 24 | | | Beef Magazine 2009 |
| Orchardgrass Hay | 88 | | | Beef Magazine 2009 |
| Palm Kernal Meal | 92.2 | | | UC Cooperative Extension 2009 |
| Pea Straw | 89 | | | Beef Magazine 2009 |
| Pea Vine Hay | 89 | | | Beef Magazine 2009 |
| Pea Vine Silage | 25 | | | Beef Magazine 2009 |
| Peanut Hulls | 91 | | | Beef Magazine 2009 |
| Peanut Meal Solvent | 91 | | | Beef Magazine 2009 |
| Peanut Skins | 92 | | | Beef Magazine 2009 |
| Pearl Millet Grain | 87 | | | Beef Magazine 2009 |
| Peas Cull | 89 | | | Beef Magazine 2009 |
| Pineapple Bran | 89 | | | Beef Magazine 2009 |
| Pineapple Greenchop | 17 | | | Beef Magazine 2009 |
| Pineapple Presscake | 21 | | | Beef Magazine 2009 |
| Pistachio Meal | 92.2 | | | UC Cooperative Extension 2009 |
| Potato Vine Silage | 15 | | | Beef Magazine 2009 |
| Potato Waste Dried | 89 | | | Beef Magazine 2009 |
| Potato Waste Filter Cake | 14 | | | Beef Magazine 2009 |
| Potato Waste Wet | 14 | | | Beef Magazine 2009 |
| Potato Waste Wet with Lime | 17 | | | Beef Magazine 2009 |
| Potatoes Cull | 21 | | | Beef Magazine 2009 |
| Prairie Hay | 91 | | | Beef Magazine 2009 |
| Prunes (flesh) | 67.5 | | | UC Cooperative Extension 2009 |
| Prunes (pits) | 84.8 | | | UC Cooperative Extension 2009 |
| Pumpkins Cull | 10 | | | Beef Magazine 2009 |
| Raisins (tailings) | 92.2 | | | UC Cooperative Extension 2009 |
| Rapini | 91.9 | 92.1 | 91.8 | UC Cooperative Extension 2009 |
| Rice (bran) | 90.9 | | | UC Cooperative Extension 2009 |
| Rice (grain, paddy) | 87.9 | | | UC Cooperative Extension 2009 |
| Rice (grain, whole) | 87.6 | | | UC Cooperative Extension 2009 |
| Rice (polishings) | 90.3 | | | UC Cooperative Extension 2009 |
| Rice Bran | 91 | | | Beef Magazine 2009 |
| Rice Bran | 91.1 | 93.1 | 89.1 | Dairy One |
| Rice Grain | 89 | | | Beef Magazine 2009 |
| Rice Hulls | 92 | | | Beef Magazine 2009 |
| Rice Mill Byproduct | 91 | | | Beef Magazine 2009 |
| Rice Polishings | 90 | | | Beef Magazine 2009 |
| Rice Straw | 91 | | | Beef Magazine 2009 |
| Rice straw (hay) | 92.6 | 94.3 | 90.7 | UC Cooperative Extension 2009 |



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| | | | | |
|---------------------------------|------|-------|------|-------------------------------|
| Rice straw (silage) | 37.8 | 43.0 | 34.4 | UC Cooperative Extension 2009 |
| Rye (whole crop, silage) | 24.1 | | | UC Cooperative Extension 2009 |
| Rye Forage | 42.6 | 71.5 | 13.9 | Dairy One |
| Rye Grain | 89 | | | Beef Magazine 2009 |
| Rye Grass Hay | 90 | | | Beef Magazine 2009 |
| Rye Grass Silage | 32 | | | Beef Magazine 2009 |
| Rye Hay | 91.6 | 93.2 | 90.1 | Dairy One |
| Rye Silage | 39.6 | 58.7 | 20.6 | Dairy One |
| Rye Straw | 89 | | | Beef Magazine 2009 |
| Ryegrass (pellets, screenings) | 93.2 | | | UC Cooperative Extension 2009 |
| Ryegrass (silage) | 27.7 | 29.4 | 26.0 | UC Cooperative Extension 2009 |
| Safflower (meal, solvent) | 94.4 | | | UC Cooperative Extension 2009 |
| Safflower Meal | 94.9 | 97.7 | 92.2 | Dairy One |
| Safflower Meal Dehulled Solvent | 91 | | | Beef Magazine 2009 |
| Safflower Meal Solvent | 91 | | | Beef Magazine 2009 |
| Sagebrush Fresh | 50 | | | Beef Magazine 2009 |
| Sanfoin Hay | 88 | | | Beef Magazine 2009 |
| Shelled Corn | 89.7 | 93.0 | 86.4 | Dairy One |
| Shrimp Waste Meal | 90 | | | Beef Magazine 2009 |
| Small Grain Forage | 69.0 | 100.0 | 38.0 | Dairy One |
| Small Grain Silage | 39.7 | 60.2 | 19.3 | Dairy One |
| Sorghum Grain (Milo) Ground | 89 | | | Beef Magazine 2009 |
| Sorghum Silage | 32 | | | Beef Magazine 2009 |
| Sorghum Stover | 87 | | | Beef Magazine 2009 |
| Sorghum Grain (Milo) Flaked | 82 | | | Beef Magazine 2009 |
| Soy (hulls, pellets) | 92.0 | | | UC Cooperative Extension 2009 |
| Soy (hulls, screenings) | 87.6 | | | UC Cooperative Extension 2009 |
| Soy (meal, solvent) | 91.3 | 93.4 | 89.1 | UC Cooperative Extension 2009 |
| Soy Byproduct | 42.9 | 67.7 | 18.2 | Dairy One |
| Soybean Hay | 89 | | | Beef Magazine 2009 |
| Soybean Hulls | 90 | | | Beef Magazine 2009 |
| Soybean Hulls | 91.1 | 92.8 | 89.2 | Dairy One |
| Soybean Meal Solvent 44% CP | 91 | | | Beef Magazine 2009 |
| Soybean Meal Solvent 49% CP | 91 | | | Beef Magazine 2009 |
| Soybean Mill Feed | 90 | | | Beef Magazine 2009 |
| Soybean Straw | 88 | | | Beef Magazine 2009 |
| Soybeans | 92.2 | 94.8 | 89.6 | Dairy One |
| Soybeans Whole | 88 | | | Beef Magazine 2009 |
| Soybeans Whole Extruded | 88 | | | Beef Magazine 2009 |
| Soybeans Whole Roasted | 88 | | | Beef Magazine 2009 |
| Spelt Grain | 88 | | | Beef Magazine 2009 |
| Steamed Flaked Corn | 87.7 | 92.2 | 83.3 | Dairy One |



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| | | | | |
|--------------------------------|------|------|------|-------------------------------|
| Sudan Grass | 37.2 | 70.0 | 7.6 | Dairy One |
| Sudan Grass Hay | 92.7 | 94.1 | 91.3 | Dairy One |
| Sudan Grass Silage | 32.4 | 46.0 | 18.9 | Dairy One |
| Sudangrass Fresh Immature | 18 | | | Beef Magazine 2009 |
| Sudangrass Hay | 88 | | | Beef Magazine 2009 |
| Sudangrass Silage | 31 | | | Beef Magazine 2009 |
| Sugar Cane Bagasse | 91 | | | Beef Magazine 2009 |
| Sunflower Seed Hulls | 90 | | | Beef Magazine 2009 |
| Sunflower Seed Meal Solvent | 92 | | | Beef Magazine 2009 |
| Sunflower Seed Meal with Hulls | 91 | | | Beef Magazine 2009 |
| Tapioca Meal | 89 | | | Beef Magazine 2009 |
| Timothy Fresh Pre-bloom | 26 | | | Beef Magazine 2009 |
| Timothy Hay Early Bloom | 88 | | | Beef Magazine 2009 |
| Timothy Hay Full Bloom | 88 | | | Beef Magazine 2009 |
| Timothy Silage | 34 | | | Beef Magazine 2009 |
| Tomato Pomace Dried | 92 | | | Beef Magazine 2009 |
| Triticale | 89.5 | 91.7 | 87.3 | Dairy One |
| Triticale Forage | 36.1 | 64.3 | 7.8 | Dairy One |
| Triticale Grain | 89 | | | Beef Magazine 2009 |
| Triticale Hay | 90 | | | Beef Magazine 2009 |
| Triticale Hay | 91.1 | 92.7 | 89.5 | Dairy One |
| Triticale Silage | 34 | | | Beef Magazine 2009 |
| Triticale Silage | 34.3 | 47.7 | 21.1 | Dairy One |
| Turnip Roots | 9 | | | Beef Magazine 2009 |
| Turnip Tops (Purple) | 18 | | | Beef Magazine 2009 |
| Vetch Hay | 89 | | | Beef Magazine 2009 |
| Wet Brewers Grains | 26.0 | 32.3 | 19.2 | Dairy One |
| Wet Corn Gluten Feed | 42.3 | 50.5 | 34.1 | Dairy One |
| Wheat | 88.9 | 90.6 | 87.1 | Dairy One |
| Wheat (hay) | 91.3 | | | UC Cooperative Extension 2009 |
| Wheat (straw) | 92.3 | 92.8 | 91.3 | UC Cooperative Extension 2009 |
| Wheat (whole crop, silage) | 31.6 | 41.5 | 21.6 | UC Cooperative Extension 2009 |
| Wheat Bran | 89 | | | Beef Magazine 2009 |
| Wheat Forage | 44.4 | 69.6 | 19.2 | Dairy One |
| Wheat Fresh, Pasture | 21 | | | Beef Magazine 2009 |
| Wheat Grain | 89 | | | Beef Magazine 2009 |
| Wheat Grain Hard | 89 | | | Beef Magazine 2009 |
| Wheat Grain Soft | 89 | | | Beef Magazine 2009 |
| Wheat Grain Sprouted | 86 | | | Beef Magazine 2009 |
| Wheat Grain Steam Flaked | 85 | | | Beef Magazine 2009 |
| Wheat Hay | 90 | | | Beef Magazine 2009 |
| Wheat Hay | 90.9 | 92.6 | 89.3 | Dairy One |



Average Dry Matter Percentages for Various Livestock Feeds

Available at www.ccof.org/pasturerule.php

Information provided as reference for organic ruminant by CCOF to help calculate Dry Matter Intake. All feed for organic livestock must be certified organic, and must be listed in the Organic System Plan and approved by CCOF.

| | | |
|--------------------------------------|----|--------------------|
| Wheat Middlings | 89 | Beef Magazine 2009 |
| Wheat Mill Run | 90 | Beef Magazine 2009 |
| Wheat Shorts | 89 | Beef Magazine 2009 |
| Wheat Silage | 33 | Beef Magazine 2009 |
| Wheat Straw | 91 | Beef Magazine 2009 |
| Wheatgrass Crested Fresh Early Bloom | 37 | Beef Magazine 2009 |
| Wheatgrass Crested Fresh Full Bloom | 50 | Beef Magazine 2009 |
| Wheatgrass Crested Hay | 92 | Beef Magazine 2009 |
| Whey Dried | 94 | Beef Magazine 2009 |

References:

UC Cooperative Extension:

animalscience.ucdavis.edu/faculty/robinson/Projects/pdf/Assays_2009_06.pdf

Beef Magazine's 2009 Feed Composition Tables:

beefmagazine.com/nutrition/feed-composition-tables/0301-feed-composition-tables_3/

Feed Composition Library, Dairy One:

www.dairyone.com/Forage/FeedComp