

**Minnesota Commercial Animal Feed Rules  
1510.1930-1510.2230**

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**1510.1930 DEFINITIONS AND TERMS.**

Subpart 1. **Commercial feed terms.** The names and definitions for commercial feeds are specified in the Official Definition of Feed Ingredients adopted by the Association of American Feed Control Officials.

The terms used in reference to commercial feeds and feed ingredients are specified in the Official Feed Terms adopted by the Association of American Feed Control Officials and published in the Official Publication of the Association of American Feed Control Officials which, for purposes of this chapter, is incorporated by reference. This document can be found at the Minnesota Law Library Judicial Center, 25 Rev. Dr. Martin Luther King Jr. Blvd., St. Paul, MN 55155.

Subp. 2. **Exempt commodities.** The following commodities, if unadulterated under Minnesota Statutes, section [25.37](#), are exempt from the definition of commercial feed: raw meat, hay, loose salt, straw, stover, silages, cobs, husks, and hulls, if they are unground and not mixed or intermixed with other materials.

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**1510.1943 LABEL FORMAT.**

Subpart 1. **Commercial feed; general.** Commercial feed, other than customer-formula feed, must be labeled with the information prescribed in this subpart on the principal display panel of the product and in the following format:

A. product and brand name, if any, as prescribed in part [1510.1947](#), subpart 2;

B. if drugs are used, label as prescribed in part [1510.1947](#), subpart 3;

C. purpose statement as prescribed in part [1510.1947](#), subpart 4;

D. the guaranteed analysis as prescribed in part [1510.1947](#), subpart 5;

E. feed ingredients as prescribed in part [1510.2130](#).

F. directions for use and precautionary statements as prescribed in parts [1510.2170](#) and [1510.2180](#);

G. name and principal mailing address of the manufacturer or person responsible for distributing the commercial feed as prescribed in part [1510.1947](#), subpart 7;

H. quantity statement in terms defined in Minnesota Statutes, section [25.33](#), subdivision 24, with net weight displayed, if required, in both English and metric units; and

I. label information placed as follows:

(1) all of the information required in items A to E, G, and H, appearing on one side of the label or on one side of the container; and

(2) the information required in item F, displayed in a prominent place on the label or container but not necessarily on the same side as the rest of the information. If the information required by item F is placed on a different side of the label or container, it must be referenced on the front side with a statement such as "See back of label for directions for use." None of the information required by this part may be subordinated or obscured by other statements or designs.

Subp. 2. **Customer-formula feed.** Customer-formula feed must be accompanied by the information prescribed in this subpart using a label, invoice, delivery ticket, or other shipping document bearing the following information:

A. the name and address of the manufacturer;

B. the name and address of the purchaser;

C. the date of sale or delivery;

D. the customer-formula feed and brand name, if any;

E. the product name and net quantity of each commercial feed and each other ingredient used in the mixture, or a guaranteed analysis and ingredient list in accordance with Minnesota Statutes, section [25.35](#), paragraph (a), clauses (2) and (3);

F. the directions for use and precautionary statements as required by parts [1510.2170](#) and [1510.2180](#); and

G. if a drug-containing product is used:

(1) the purpose of the medication (claim statement); and

(2) the established name of each active drug ingredient and the level of each drug used in the final mixture in accordance with part [1510.2070](#), subpart 4.

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**1510.1947 LABEL INFORMATION.**

Subpart 1. **Requirement.** Commercial feed, other than customer-formula feed, must be labeled with the information prescribed in this part.

Subp. 2. **Product and brand name.** The product name and brand name must be indicated in accordance with items A to I.

A. The brand or product name must be appropriate for the intended use of the feed and must not be misleading. Feed must conform with any specific use indicated by a product name. A commercial feed for a particular animal class must be suitable for that purpose.

B. Commercial names, registered brand names, or trade names are not permitted in guarantees or ingredient listings and are only permitted in the product name of feeds produced by or for the firm holding the rights to the name used.

C. No product or brand name may identify an ingredient of a commercial feed to the exclusion of another ingredient unless:

(1) the identified ingredient imparts to the commercial feed a distinctive characteristic that is significant to the purchaser;

(2) the ingredient is quantitatively guaranteed in the guaranteed analysis of the commercial feed label; and

(3) the brand or product name is not otherwise false or misleading.

D. "Protein" is not permitted in the product name of a feed that contains added nonprotein nitrogen.

E. A product name that carries a percentage value is understood to signify crude protein, equivalent crude protein content only, or the sum of crude protein and equivalent crude protein. Other percentage values are only permitted if they are followed by the proper descriptive modifier and conform to the requirements of part [1510.1943](#) and this part. Digital numbers must not be used in a way that misleads or confuses the customer.

F. Single ingredient feeds must have a product name in accordance with the designated definition of feed ingredients contained in the Official Publication of the Association of American Feed Control Officials.

G. "Vitamin," a contraction of vitamin, or a word suggesting vitamin, may only be used in the name of a feed that is represented as a vitamin supplement and labeled with the minimum content of each vitamin declared, as specified in part [1510.2070](#), subpart 3.

H. The term "mineralized" must not be used in the

name of a feed except for "trace mineralized salt."

I. The term "meat" or "meat by-products" must be qualified to designate the animal from which the meat and meat by-products are derived unless the meat and meat by-products are made from cattle, swine, sheep, or goats.

Subp. 3. **Drug usage.** If a drug is used in the product:

A. the word "medicated" must appear directly following and below the product name in type size no smaller than one-half the type size of the product name;

B. there must be a purpose statement as required in subpart 4;

C. the purpose of the medication must be stated; and

D. there must be an active ingredient statement listing the active drug ingredients by their established names and the amounts in accordance with part [1510.2070](#), subpart 4.

Subp. 4. **Purpose statement.** A purpose statement must be included in accordance with items A to E.

A. The purpose statement must identify the specific species and animal classes for which the feed is intended.

B. The purpose statement may be excluded from the label if the product name includes a description of the species and animal classes for which the product is intended.

C. The purpose statement of a premix for the manufacture of feed may exclude the animal class and species and state "For Further Manufacture of Feed" if the nutrients contained in the premix are guaranteed and sufficient for formulation into various animal species feeds.

D. The purpose statement of a single purpose ingredient blend, such as a blend of animal protein products, milk products, fat products, roughage products, or molasses products may exclude the animal class and species and state "For Further Manufacture of Feed" if the label guarantees of the nutrients contained in the single purpose nutrient blend are sufficient to provide for formulation into various animal species feeds.

E. The purpose statement of a product must include a statement of enzyme functionality if enzymatic activity is represented in any manner.

Subp. 5. **Guarantees.**

A. If they are stated, guarantees must be in the following sequence: crude protein, equivalent crude protein from nonprotein nitrogen, amino acids, crude fat, crude fiber, acid detergent fiber, calcium, phosphorus, salt, and sodium.

Other required and voluntary guarantees must follow so that the units of measure used to express guarantees are listed in a sequence that provides a consistent grouping of the units of measure.

B. The required guarantees of grain mixtures, with or without molasses, and other feeds must include the following items, unless exempted in subitem (3), in the order listed:

(1) animal classes and species for which the product is intended;

(2) guaranteed analysis in the following order:

(a) minimum percentage crude protein;

(b) maximum or minimum percentage of equivalent crude protein from nonprotein nitrogen as required in part [1510.2070](#), subpart 5;

(c) minimum percentage of crude fat;

(d) maximum percentage of crude fiber;

(e) minerals in formula feeds, in the following order:

i. minimum and maximum percentages of calcium;

ii. minimum percentage of phosphorus;

iii. minimum and maximum percentage of salt, with minimum and maximum percentage of total sodium guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee;

(f) other minerals;

(g) minerals in feed ingredients as specified by the Official Publication of the Association of American Feed Control Officials;

(h) vitamins in terms specified in part [1510.2070](#), subpart 3;

(i) total sugars as invert on dried molasses products or products being sold primarily for their sugar content; and

(j) viable lactic-acid-producing microorganisms for use in silages in terms specified in part [1510.2070](#), subpart 7.

C. The packaging on a commercial feed intended to provide a specialized nutritional source for use in the manufacture of other feeds must state its intended purpose and

guarantee those nutrients relevant to the stated purpose.

D. Exemptions:

(1) A mineral guarantee for feed, excluding feed manufactured as complete feed or for feed supplements intended to be mixed with grain to produce a complete feed for swine, poultry, fish, veal, and herd milk replacers, are not required when:

(a) the feed or feed ingredient is not intended or represented or does not serve as a principal source of that mineral to the animal; or

(b) the feed or feed ingredient is intended for non-food-producing animals and contains less than 6.5 percent total minerals.

(2) Guarantees for vitamins are not required if the commercial feed is neither formulated for nor represented in any manner as a vitamin supplement.

(3) Guarantees for crude protein, crude fat, and crude fiber are not required if the commercial feed is intended for purposes other than to furnish these substances or the substances are of minor significance relating to the primary purpose of the product, such as drug premixes, mineral or vitamin supplements, and molasses.

(4) Guarantees for microorganisms are not required when the commercial feed is intended for a purpose other than to furnish microorganisms or microorganisms are of minor significance relating to the primary purpose of the product and no specific label claims are made.

Subp. 6. **Feed ingredients; collective terms.** Feed ingredients must be listed in accordance with items A and B.

A. The name of each ingredient must be given, as defined in the Official Publication of the Association of American Feed Control Officials. If there is no official ingredient name, the common or usual name of the ingredient must be used.

B. Collective terms may be used for the grouping of feed ingredients as defined in the Official Definitions of Feed Ingredients published in the Official Publication of the Association of American Feed Control Officials in lieu of the individual ingredients, provided that:

(1) if a collective term for a group of ingredients is used on the label, individual ingredients defined by the collective term must not be listed on the label; and

(2) the manufacturer must provide the commissioner, upon request, with a list of individual ingredients, within a defined group, that are or have been used

at manufacturing facilities distributing in or into the state.

Subp. 7. **Name; principal mailing address.** The name and principal mailing address of the manufacturer or person responsible for distributing the product must include the street address, city, state, and zip code. The street address may be omitted if it is shown in the current city directory or telephone directory for the city listed on the label.

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#### **1510.2070 EXPRESSION OF GUARANTEES.**

Subpart 1. **Protein; amino acids; fat; fiber.** The guarantees for crude protein, amino acids, equivalent crude protein from nonprotein nitrogen, crude fat, crude fiber, and acid detergent fiber must be in terms of percentage by weight, as is.

##### Subp. 2. **Mineral guarantees.**

A. Calcium, salt, and sodium guarantees given in the guaranteed analysis must be stated and conform to the following:

(1) if the minimum is below 2.5 percent, the maximum must not exceed the minimum by more than 0.5 percentage point;

(2) if the minimum is 2.5 percent, but less than 5.0 percent, the maximum must not exceed the minimum by more than one percentage point; and

(3) if the minimum is 5.0 percent or greater, the maximum must not exceed the minimum by more than 20 percent of the minimum, and in no case may the maximum exceed the minimum by more than five percentage points.

B. Any guarantees for minimum and maximum total sodium and salt, minimum potassium, minimum magnesium, minimum sulfur, minimum phosphorus, and maximum fluorine must be in terms of percentage by weight, as is. Other minimum mineral guarantees must be stated in parts per million (ppm), as is, when the concentration is less than 10,000 ppm and in percentage by weight, as is, when the concentration is 10,000 ppm (one percent) or greater.

C. Products labeled with a quantity statement, such as tablets, capsules, granules, or liquids, may state mineral guarantees in milligrams (mg) per unit, consistent with the quantity statement and directions for use.

Subp. 3. **Minimum vitamin content.** Guarantees for minimum

vitamin content of commercial feeds must be stated in mg/lb or in units consistent with those employed for the quantity statement and must be listed in the following order:

A. vitamin A, other than precursors of vitamin A, in international units per pound;

B. vitamin D-3 in products offered for poultry feeding, in international chick units per pound;

C. vitamin D for other uses, international units per pound;

D. vitamin E, in international units per pound;

E. concentrated oils and feed additive premixes containing vitamins A, D, and E may, at the option of the distributor, be stated in units per gram instead of units per pound;

F. vitamin B-12, in milligrams or micrograms per pound; and

G. all other vitamin guarantees in milligrams per pound in terms of the following: menadione, riboflavin, d-pantothenic acid, thiamine, niacin, vitamin B-6, folic acid, choline, biotin, inositol, p-amino benzoic acid, ascorbic acid, and carotene.

Subp. 4. **Drug guarantees.** Guarantees for drugs must be stated in terms of percent by weight, except as specified in items A to D.

A. Antibiotics present at less than 2,000 grams per ton (total) of commercial feed must be stated in grams per ton of commercial feed.

B. Antibiotics present at 2,000 or more grams per ton (total) of commercial feed must be stated in grams per pound of commercial feed.

C. Labels for commercial feeds containing growth promotion or feed efficiency levels of antibiotics which are to be fed continuously as the sole ration are not required to make quantitative guarantees except as specifically noted in Code of Federal Regulations, title 21, chapter 558, federal Food Additive Regulations for certain antibiotics, where quantitative guarantees are required regardless of the level or purpose of the antibiotic.

D. The term "milligrams per pound" may be used for drugs or antibiotics if a dosage is given in "milligrams" in the feeding directions.

Subp. 5. **Added nonprotein nitrogen.** Commercial feeds containing added nonprotein nitrogen must be labeled according to items A and B.

A. For ruminants,

(1) complete feeds, supplements, and concentrates containing added nonprotein nitrogen and more than five percent protein from natural sources must be guaranteed as follows:

(a) crude protein, minimum, ..... percent;

(b) (this includes not more than ..... percent equivalent crude protein from nonprotein nitrogen);

(2) mixed feed concentrates and supplements containing less than five percent protein from natural sources may exclude the guarantee for crude protein; and

(3) ingredient sources of nonprotein nitrogen such as urea, diammonium phosphate, ammonium polyphosphate solution, ammoniated rice hulls, or other basic nonprotein nitrogen ingredients defined by the Association of American Feed Control Officials must be guaranteed as follows:

(a) nitrogen, minimum, ..... percent;

(b) equivalent crude protein from nonprotein nitrogen, minimum, ..... percent.

B. For nonruminants,

(1) complete feeds, supplements, and concentrates containing crude protein from all forms of nonprotein nitrogen, added as such, must be labeled as follows:

(a) crude protein, minimum ..... percent;

(b) (this includes not more than ..... percent equivalent crude protein which is not nutritionally available to (species of animal for which feed is intended));

(2) premixes, concentrates, or supplements intended for nonruminants containing more than 1.25 percent equivalent crude protein from all forms of nonprotein nitrogen, added as such, must contain adequate directions for use and a prominent statement: "WARNING: THIS FEED MUST BE USED ONLY IN ACCORDANCE WITH DIRECTIONS FURNISHED ON THE LABEL."

Subp. 6. **Mineral phosphatic materials.** Mineral phosphatic materials for feeding purposes must be labeled with the guarantee for minimum and maximum percentage of calcium, when present, the minimum percentage of phosphorus, and the maximum percentage of fluorine.

Subp. 7. **Microorganisms.** Guarantees for microorganisms must be stated in colony forming units per gram (CFU/g) when directions are for using the product in grams, or in colony-forming units per pound (CFU/lb) when directions are for using the product in pounds. A parenthetical statement

following the guarantee must list each species in order of predominance.

Subp. 8. **Enzymes.** Guarantees for enzymes must be stated in units of enzymatic activity per unit weight or volume, consistent with label directions. The source organism for each type of enzymatic activity must be specified, such as: Protease (*Bacillus subtilis*) 5.5 mg amino acids liberated/min./milligram. Two or more sources that have the same type of activity must be listed in order of predominance based on the amount of enzymatic activity provided.

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#### **1510.2130 INGREDIENTS.**

Subpart 1. **Name.** The name of each ingredient or collective term for the grouping of ingredients, when required to be listed, shall be the official or tentative ingredient name as defined in the Official Definitions of Feed Ingredients as published in the Official Publication of the Association of American Feed Control Officials, or, if an official or tentative ingredient name is not published, the common or usual name for the ingredient may be used if the ingredient has a common accepted name that requires no definition, such as sugar.

Subp. 2. **Format.** The name of each ingredient must be shown in letters or type of the same size, font, and color. No reference to quality or grade of an ingredient shall appear in the ingredient statement of a commercial feed. The term "dehydrated" may precede the name of any product that has been artificially dried.

Subp. 3. **Single ingredient product.** A single ingredient product defined by the Association of American Feed Control Officials is not required to have an ingredient statement.

Subp. 4. **Iodized.** If the word "iodized" is used in connection with a feed ingredient, the feed ingredient must contain not less than 0.007 percent iodine, uniformly distributed.

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**1510.2170 DIRECTIONS FOR USE AND PRECAUTIONARY STATEMENTS.**

Directions for use and precautionary statements on the labeling of all commercial feeds and customer-formula feeds containing additives (including drugs, special purpose additives, or nonnutritive additives) shall:

A. be adequate to enable safe and effective use for the intended purposes by users with no special knowledge of the purpose and use of such articles; and

B. include, but not be limited to, all information prescribed by all applicable regulations under the federal Food, Drug and Cosmetic Act.

Adequate directions for use and precautionary statements are required for feeds containing nonprotein nitrogen as specified in part [1510.2180](#).

Adequate directions for use and precautionary statements necessary for safe and effective use are required on commercial feeds distributed to supply particular dietary needs or for supplementing or fortifying the usual diet or ration with any vitamin, mineral, or other dietary nutrient or compound.

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**1510.2180 NONPROTEIN NITROGEN.**

Subpart 1. **Equivalent crude protein; caution.** Urea and other nonprotein nitrogen products defined in the Official Publication of the Association of American Feed Control Officials are acceptable ingredients only in commercial feeds for ruminant animals as a source of equivalent crude protein. If the commercial feed contains more than 8.75 percent of equivalent crude protein from all forms of nonprotein nitrogen, added as such, or the equivalent crude protein from all forms of nonprotein nitrogen, added as such, exceeds one-third of the total crude protein, the label must bear adequate directions for the safe use of feeds and a precautionary statement: "CAUTION: USE AS DIRECTED." The directions for use and the precautionary statement must be in type of such size so placed on the label that they will be read and understood by ordinary persons under customary conditions of purchase and use.

Subp. 2. **Nutrients other than equivalent crude protein.** Nonprotein nitrogen ingredients defined in the Official Publication of the Association of American Feed Control Officials are acceptable ingredients in commercial feeds distributed to nonruminant animals as a source of nutrients other than equivalent crude protein. The maximum equivalent crude protein from nonprotein nitrogen sources used in nonruminant rations must not exceed 1.25 percent of the total daily ration.

Subp. 3. **Exception.** On labels such as those for medicated feeds which bear adequate feeding directions and/or precautionary statements, the presence of added nonprotein nitrogen shall not require a duplication of the feeding directions or the precautionary statements as long as those statements include sufficient information to ensure the safe and effective use of this product due to the presence of nonprotein nitrogen.

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#### **1510.2190 DRUG AND FEED ADDITIVES.**

Feed ingredients, including drugs, other special purpose additives, and nonnutritive additives may be used in the formulation of a commercial feed if the ingredient's safety, efficacy, and utility are established under one of the following conditions:

A. when the commercial feed contains such additives, the use of which conforms to the requirements of the applicable regulation in the Code of Federal Regulations, title 21, or which are "prior sanctioned", "informal review sanctioned," or "generally recognized as safe" for such use;

B. when the commercial feed is itself a drug as defined in Minnesota Statutes, section [25.33](#), subdivision 8, and is generally recognized as safe and effective for the labeled use or is marketed subject to an application approved by the Food and Drug Administration under United States Code, title 21, section 360(b);

C. when one of the purposes for feeding a commercial feed is to impart immunity, the constituents imparting immunity have been approved for the purpose through the Federal Virus, Serum, and Toxins Act of 1913, as amended;

D. when the commercial feed is a direct-fed microbial and:

(1) the product meets the particular fermentation product definition defined by the Association of American Feed Control Officials;

(2) the microbial content statement, appearing on the label, is limited to the following: "Contains a source of live (viable) naturally occurring microorganism"; and

(3) the source is stated with a corresponding guarantee expressed in accordance with part [1510.2070](#), subpart 7; or

E. when the commercial feed is an enzyme product and:

(1) the product meets the particular definition defined by the Association of American Feed Control Officials; and

(2) the enzyme is stated with a corresponding guarantee expressed in accordance with part [1510.2070](#), subpart 8.

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#### **1510.2200 ADULTERANTS.**

Subpart 1. **Definition.** For the purpose of Minnesota Statutes, section [25.37](#), paragraph (a), the term "poisonous or deleterious substances" includes, but is not limited to, the following:

A. fluorine and any mineral or mineral mixture which is to be used directly for the feeding of domestic animals and in which the fluorine exceeds 0.20 percent for breeding and dairy cattle; 0.30 percent for slaughter cattle; 0.30 percent for sheep; 0.35 percent for lambs; 0.45 percent for swine; and 0.60 percent for poultry;

B. fluorine-bearing ingredients when used in such amounts that they raise the fluorine content of the total ration, exclusive of roughage, above the following amounts: 0.004 percent for breeding and dairy cattle; 0.009 percent for slaughter cattle; 0.006 percent for sheep; 0.01 percent for lambs; 0.015 percent for swine; and 0.035 percent for poultry;

C. fluorine-bearing ingredients incorporated in any feed that is fed directly to cattle, sheep, or goats consuming roughage, with or without limited amounts or grain, that results in a daily fluorine intake in excess of 50 milligrams of fluorine per 100 pounds of body weight;

D. soybean meal, flakes, or pellets or other vegetable meals, flakes, or pellets which have been extracted with trichlorethylene or other chlorinated solvents;

E. sulfur dioxide, sulfurous acid, and salts of sulfurous acid when used in or on feeds or feed ingredients which are considered or reported to be a significant source of vitamin B<sub>1</sub> (Thiamine); and

F. artificial color not listed and not used within the conditions, limitations, and tolerances prescribed for each coloring substance in Code of Federal Regulations, title 21, part 73A, for food coloring exempt from certification, or in Code of Federal Regulations, title 21, part 74A, for food coloring subject to certification. No artificial color material shall be used to enhance the natural color of the feed or feed

ingredient whereby inferiority would be concealed.

Subp. 2. **Weed seeds.** All screenings or by-products of grains and seeds containing weed seeds, when used in commercial feed or sold as such to the consumer, must be ground fine enough or otherwise treated to destroy the viability of the weed seeds so that the level of such viable weed seeds in the finished product does not exceed the levels specified in Minnesota Statutes, sections [21.71](#) to [21.78](#).

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**1510.2220 GOOD MANUFACTURING PRACTICES.**

For the purposes of enforcement of Minnesota Statutes, section [25.37](#), paragraph (b), clause (3), the commissioner adopts the following as current good manufacturing practices:

A. the regulations prescribing good manufacturing practices for Type B and Type C medicated feeds as published in Code of Federal Regulations, title 21, part 225, sections 225.1 through [225.202](#); and

B. the regulations prescribing good manufacturing practices for Type A medicated articles as published in Code of Federal Regulations, title 21, part 226, sections 226.1 through [226.115](#).

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**1510.2230 MAMMALIAN PROTEINS PROHIBITED IN RUMINANT FEED.**

Pursuant to Minnesota Statutes, section [25.40](#), subdivision 1, paragraph (b), the commissioner adopts Code of Federal Regulations, title 21, section [589.2000](#).

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