



Ohio Administrative Code Rule 901:5-7-12 Guaranteed analysis.

Effective: September 21, 2014

(A) All commercial feeds distributed in this state shall have a label stating the specific animal class and species for which the product was intended and shall be labeled with the information prescribed in this rule. The required information shall include the following items, unless exempted, and in order listed:

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

(2) Guaranteed analysis

(a) Minimum percentage of crude protein;

(b) Maximum or minimum percentage of equivalent protein from non-protein nitrogen as required in rule 901:5-7-06 of the Administrative Code;

(c) Minimum percentage of crude fat;

(d) Maximum percentage of crude fiber;

(e) Minimum and/or maximum percentages of minerals as required in rule 901:5-7-02 of the Administrative Code;

(f) Vitamins in such terms as specified in rule 901:5-7-02 of the Administrative Code;

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

(h) Viable lactic acid producing microorganisms for use in silage stated in colony forming units per gram (CFU/g) when directions are for using the product in grams or colony forming units per pound



(CFU/lb) when directions are for using the product in pounds. A parenthetical statement following the guarantee shall list each species in order of predominance.

(3) Exemptions.

(a) A mineral guarantee for feed is not required when:

- (i) 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
- (ii) The feed or feed ingredient is intended for non-food producing animals and contains less than six and a half per cent total mineral content.
- (iii) This exemption does not apply to those feeds manufactured as complete feeds and for feed supplements intended to be mixed with grain to produce a complete feed for swine, poultry, fish and veal and herd milk replacers.

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

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

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

(e) The indication for animal class(es) and species is not required on single ingredient products if the ingredient is not intended, represented, or defined for a specific animal class(es) or species.

(B) Required guarantees for swine formula feeds.



(1) Animal classes

(a) Pre-starter - two to eleven pounds

(b) Starter - eleven to forty-four pounds

(c) Grower - forty-four to one hundred ten pounds

(d) Finisher - one hundred ten to two hundred forty-two pounds (market)

(e) Gilts, sows and adult boars

(f) Lactating gilts and sows

(2) Guaranteed analysis for swine complete feeds and supplements (all animal classes)

(a) Minimum percentage of crude protein

(b) Minimum percentage of lysine

(c) Minimum percentage of crude fat

(d) Maximum percentage of crude fiber

(e) Minimum and maximum percentage of calcium

(f) Minimum percentage of phosphorus

(g) Minimum and maximum percentage of salt (if added)

(h) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee



(i) Minimum selenium in parts per million (PPM)

(j) Minimum zinc in parts per million (PPM)

(C) Required guarantees for formula poultry feeds (broilers, layers and turkeys)

(1) Animal classes

(a) Layer - chickens that are grown to produce eggs for food, i.e., table eggs

(i) Starting/growing - from day of hatch to approximately ten weeks of age

(ii) Finisher - from approximately ten weeks of age to time first egg is produced. (approximately twenty weeks of age).

(iii) Laying - from time first egg is laid throughout the time of egg production.

(iv) Breeders - chickens that produce fertile eggs for hatch replacement layers to produce eggs for food, table eggs, from time first egg is laid throughout their productive cycle.

(b) Broilers - chickens that are grown for human food

(i) Starting/growing - from day of hatch to approximately five weeks of age.

(ii) Finisher - from approximately five weeks of age to market, (forty-two to fifty-two days).

(iii) Breeders - hybrid strains of chickens whose offspring are grown for human food, (broilers) any age and either sex.

(c) Broilers, breeders, - chickens whose offspring are grown for human food (broilers).

(i) Starting/growing - from day of hatch until approximately ten weeks of age.



(ii) Finishing - from approximately ten weeks of age to time first egg is produced, approximately twenty weeks of age.

(iii) Laying - fertile egg producing chickens (broilers/roasters) from the day of first egg throughout the time fertile eggs are produced.

(d) Turkeys

(i) Starting/growing - turkeys that are grown for human food from day of hatch to approximately thirteen weeks of age for (females) and sixteen weeks of age for males.

(ii) Finisher - turkeys that are grown for human food, females from approximately thirteen weeks of age to approximately seventeen weeks of age; males from sixteen weeks of age to twenty weeks of age, (or desired market weight).

(iii) Laying - female turkeys that are producing eggs; from time first of egg is produced, throughout the time they are producing eggs.

(iv) Breeder - turkeys that are grown to produce fertile eggs, from day of hatch to time first egg is produced (approximately thirty weeks of age), both sexes.

(2) Guaranteed analysis for poultry complete feeds and supplements (all animal classes)

(a) Minimum percentage of crude protein

(b) Minimum percentage of lysine

(c) Minimum percentage of methionine

(d) Minimum percentage of crude fat

(e) Maximum percentage of crude fiber



(f) Minimum and maximum percentage of calcium

(g) Minimum percentage of phosphorus

(h) Minimum and maximum percentage of salt (if added)

(i) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee

(D) Required guarantees for beef cattle formula feeds

(1) Animal classes

(a) Calves birth to weaning

(b) Cattle on pasture

(c) Feedlot cattle

(2) Guaranteed analysis for beef complete feeds and supplements (all animal classes)

(a) Minimum percentage of crude protein

(b) Maximum percentage of equivalent crude protein from non-protein nitrogen (NPN) when added

(c) Minimum percentage of crude fat

(d) Maximum percentage of crude fiber

(e) Minimum and maximum percentage of calcium

(f) Minimum percentage of phosphorus



- (g) Minimum and maximum percentage of salt (if added)
- (h) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee
- (i) Minimum percentage of potassium
- (j) Minimum vitamin A, other than precursors of vitamin A, in international units per pound (if added)
- (3) Guaranteed analysis for beef mineral feeds (if added)
 - (a) Minimum and maximum percentage of calcium
 - (b) Minimum percentage of phosphorus
 - (c) Minimum and maximum percentage of salt
 - (d) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee
 - (e) Minimum percentage of magnesium
 - (f) Minimum percentage of potassium
 - (g) Minimum copper in parts per million (PPM)
 - (h) Minimum selenium in parts per million (PPM)
 - (i) Minimum zinc in parts per million (PPM)
 - (j) Minimum vitamin A, other than precursors of vitamin A in international units per pound



(E) Required guarantees for dairy formula feeds

(1) Animal classes

(a) Veal milk replacer - milk replacer to be fed for veal production.

(b) Herd milk replacer - milk replacer to be fed for herd replacement calves.

(c) Starter - approximately three days to three months.

(d) Growing heifers, bulls and dairy beef

(i) Grower one - three to twelve months of age

(ii) Grower two - more than twelve months of age

(e) Lactating dairy cattle

(f) Non-lactating dairy cattle

(2) Guaranteed analysis for veal and herd replacement milk replacer

(a) Minimum percentage of crude protein

(b) Minimum percentage of crude fat

(c) Maximum percentage of crude fiber

(d) Minimum and maximum percentage of calcium

(e) Minimum percentage of phosphorus



(f) Minimum vitamin A, other than precursors of vitamin A, in international units per pound (if added)

(3) Guaranteed analysis for dairy cattle complete feeds and supplements

(a) Minimum percentage of crude protein

(b) Maximum percentage of non-protein nitrogen (NPN) when added

(c) Minimum percentage of crude fat

(d) Maximum percentage of crude fiber

(e) Maximum percentage of acid detergent fiber (ADF)

(f) Minimum and maximum percentage of calcium

(g) Minimum percentage of phosphorus

(h) Minimum selenium in parts per million (PPM)

(i) Minimum vitamin A, other than precursors of vitamin A, in international units per pound (if added)

(4) Required guaranteed analysis for dairy mixing and pasture mineral with vitamins (if added)

(a) Minimum and maximum percentage of calcium

(b) Minimum percentage of phosphorus

(c) Minimum and maximum percentage of salt

(d) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium



exceeds that furnished by the maximum salt guarantee

(e) Minimum percentage of magnesium

(f) Minimum percentage of potassium

(g) Minimum selenium in parts per million (PPM)

(h) Minimum vitamin A, other than the precursors of vitamin A, in international units per pound

(F) Required guarantees for equine formula feeds

(1) Animal classes

(a) Foal

(b) Mare

(c) Breeding

(d) Maintenance

(2) Guaranteed analysis for equine complete feeds and supplements (all animal classes)

(a) Minimum percentage of crude protein

(b) Minimum percentage of crude fat

(c) Maximum percentage of crude fiber

(d) Minimum and maximum percentage of calcium

(e) Minimum percentage of phosphorus



(f) Minimum copper in parts per million (PPM)

(g) Minimum selenium in parts per million (PPM)

(h) Minimum zinc in parts per million (PPM)

(i) Minimum vitamin A, other than the precursors of vitamin A, in international units per pound (if added)

(3) Guaranteed analysis for equine mineral feeds (all animal classes)

(a) Minimum and maximum percentage of calcium

(b) Minimum percentage of phosphorus

(c) Minimum and maximum percentage of salt (if added)

(d) Minimum and maximum percentage of sodium shall be guaranteed only when the total sodium exceeds that furnished by the maximum salt guarantee

(e) Minimum copper in parts per million (ppm)

(f) Minimum selenium in parts per million (ppm)

(g) Minimum zinc in parts per million (ppm)

(h) Minimum vitamin A, other than the precursors of vitamin A, in international units per pound (if added)

(G) Required guarantees for goat formula feeds

(1) Animal classes



- (a) Starter
- (b) Grower
- (c) Finisher
- (d) Breeder
- (e) Lactating
- (2) Guaranteed analysis for goat complete feeds and supplements (all animal classes)
 - (a) Minimum percentage of crude protein
 - (b) Maximum percentage of equivalent crude protein from non-protein nitrogen (NPN) when added
 - (c) Minimum percentage of crude fat
 - (d) Maximum percentage of crude fiber
 - (e) Maximum percentage of acid detergent fiber (ADF)
 - (f) Minimum and maximum percentage of calcium
 - (g) Minimum percentage of phosphorus
 - (h) Minimum and maximum percentage of salt (if added)
 - (i) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee
 - (j) Minimum and maximum copper in parts per million (PPM) (if added)



(k) Minimum selenium in parts per million

(l) Minimum vitamin A, other than precursors of vitamin A, in international units per pound (if added)

(H) Required guarantees for sheep formula feeds

(1) Animal classes

(a) Starter

(b) Grower

(c) Finisher

(d) Breeder

(e) Lactating

(2) Guaranteed analysis for sheep complete feeds and supplements (all animal classes)

(a) Minimum percentage of crude protein

(b) Maximum percentage of equivalent crude protein from non-protein nitrogen (NPN) when added

(c) Minimum percentage of crude fat

(d) Maximum percentage of crude fiber

(e) Minimum and maximum percentage of calcium

(f) Minimum percentage of phosphorus



- (g) Minimum and maximum percentage of salt (if added)
- (h) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee
- (i) Minimum and maximum copper in parts per million (ppm) if added, or if total copper exceeds twenty ppm.
- (j) Minimum selenium in parts per million
- (k) Minimum vitamin A, other than precursors of vitamin A, in international units per pound (if added)
- (I) Required guarantees for duck and geese formula feeds
 - (1) Animal classes
 - (a) Ducks
 - (i) Starter - zero to three weeks of age
 - (ii) Grower - three to six weeks of age
 - (iii) Finisher - six weeks to market
 - (iv) Breeder developer - eight to nineteen weeks of age
 - (v) Breeder - twenty-two weeks to end of lay
 - (b) Geese
 - (i) Starter - zero to four weeks of age



(ii) Grower - four to eight weeks of age

(iii) Finisher - eight weeks to market

(iv) Breeder developer - ten to twenty-two weeks of age

(v) Breeder - twenty-two weeks to end of lay

(2) Guaranteed analysis for duck and geese complete feeds and supplements (for all small animal classes)

(a) Minimum percentage of crude protein

(b) Minimum percentage of crude fat

(c) Maximum percentage of crude fiber

(d) Minimum and maximum percentage of calcium

(e) Minimum percentage of phosphorus

(f) Minimum and maximum percentage of salt (if added)

(g) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee

(J) Required guarantees for fish complete feeds and supplements

(1) Animal species shall be declared in lieu of animal class

(a) Trout



(b) Catfish

(c) Species other than trout or catfish

(2) Guaranteed analysis for all fish complete feeds and supplements

(a) Minimum percentage of crude protein

(b) Minimum percentage of crude fat

(c) Maximum percentage of crude fiber

(d) Minimum percentage of phosphorus

(K) Required guarantees for rabbit complete feeds and supplements

(1) Animal classes

(a) Grower - four to twelve weeks of age

(b) Breeder - twelve weeks of age and over

(2) Guaranteed analysis for all rabbit complete feeds and supplements (all animal classes)

(a) Minimum percentage of crude protein

(b) Minimum percentage of crude fat

(c) Minimum and maximum percentage of crude fiber. The maximum crude fiber shall not exceed the minimum by more than 5.0 units.

(d) Minimum and maximum percentage of calcium



(e) Minimum percentage of phosphorus

(f) Minimum and maximum percentage of salt (if added)

(g) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee

(h) Minimum vitamin A, other than precursors of vitamin A, in international units per pound (if added)

(L) The required information for grain mixtures with or without molasses and feeds other than those described in paragraphs (A) to (K) of this rule shall include the following items, unless exempted in paragraph (A)(3) of this rule, in the order listed:

(1) Animal class(es) and species for which the product is intended.

(2) Guaranteed analysis

(a) Minimum percentage of crude protein

(b) Maximum or minimum percentage of equivalent crude protein from non-protein nitrogen as required in rule 901:5-7-06 of the Administrative Code.

(c) Minimum percentage of crude fat

(d) Minimum percentage of crude fiber

(e) Minerals in formula feeds, to include in the following order:

(i) Minimum and maximum percentages of calcium

(ii) Minimum percentage of phosphorus



- (iii) Minimum and maximum percentage of salt (if added)
- (iv) Minimum and maximum percentage of total sodium shall be guaranteed only when total sodium exceeds that furnished by the maximum salt guarantee
- (v) Other minerals
- (f) Minerals in feed ingredients - as specified by the official definitions of the official publication of AAFCO
- (g) Vitamins in such terms as specified in paragraph (A)(6) of rule 901:5-7-02 of the Administrative Code
- (h) Total sugars as invert in dried molasses products or products being sold primarily for their sugar content
- (i) Viable lactic acid producing microorganisms for use in silage stated in colony forming units per gram (CFU/g) when directions are for using the product in grams or colony forming units per pound (CFU/lb) when directions are for using the product in pounds. A parenthetical statement following the guarantee shall list each species in order of predominance.
- (j) 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 such stated purpose. Article II of AAFCO's "Criteria for Labeling Nutritional Indicators" is not applicable to the label guarantees for these specialized commercial feeds.