



California Commercial Feed Tonnage Report 2024



The California Department of Food and Agriculture (CDFA) Commercial Feed Regulatory Program (CFRP) is funded by the feed industry with an annual license fee and quarterly tonnage tax. All CFRP fees are set by recommendation of the Feed Inspection Advisory Board (FIAB), a dynamic group of eight industry licensees and one public member who are advisory to the CDFA Secretary for all budgetary and programmatic activities. The 2024 tax rate was 12 cents (\$0.12) per ton, and effective July 1, 2024, increased to 13 cents (\$0.13) per ton, of feed distributed to the end-user in the State. Certain human food by-products were eligible for a lower tax rate per ton (6 cents \$0.06 increased to 6 1/2 cents (\$0.065)) to incentivize diversion of by-products to commercial feed, as recommended by the FIAB.

CDFA's Safe Animal Feed Education (SAFE) Program has evaluated 2024 tonnage data to provide this annual Commercial Feed Tonnage Report. Categorization of feed type in this report is an estimate rather than exactly as provided by the licensee, as some tonnage is re-categorized during data review based on the written description of the product/commodity.

Over 23 million tons were reported to the CFRP in 2024, with one-third as mixed/formula feeds (**Figure 1, Table 1**). "Formula feed" is defined as any two or more feed ingredients, proportioned, mixed, and processed according to specifications. About 43% of the tonnage reported was categorized as by-products or human food by-products. About 15% of the tonnage was categorized as grains and seeds, and all other feed types made up 4% or less of the total tonnage (**Figure 1, Table 1**). The majority (57%) of tonnage reported was identified as intended for dairy cattle/calves (**Figure 2**).

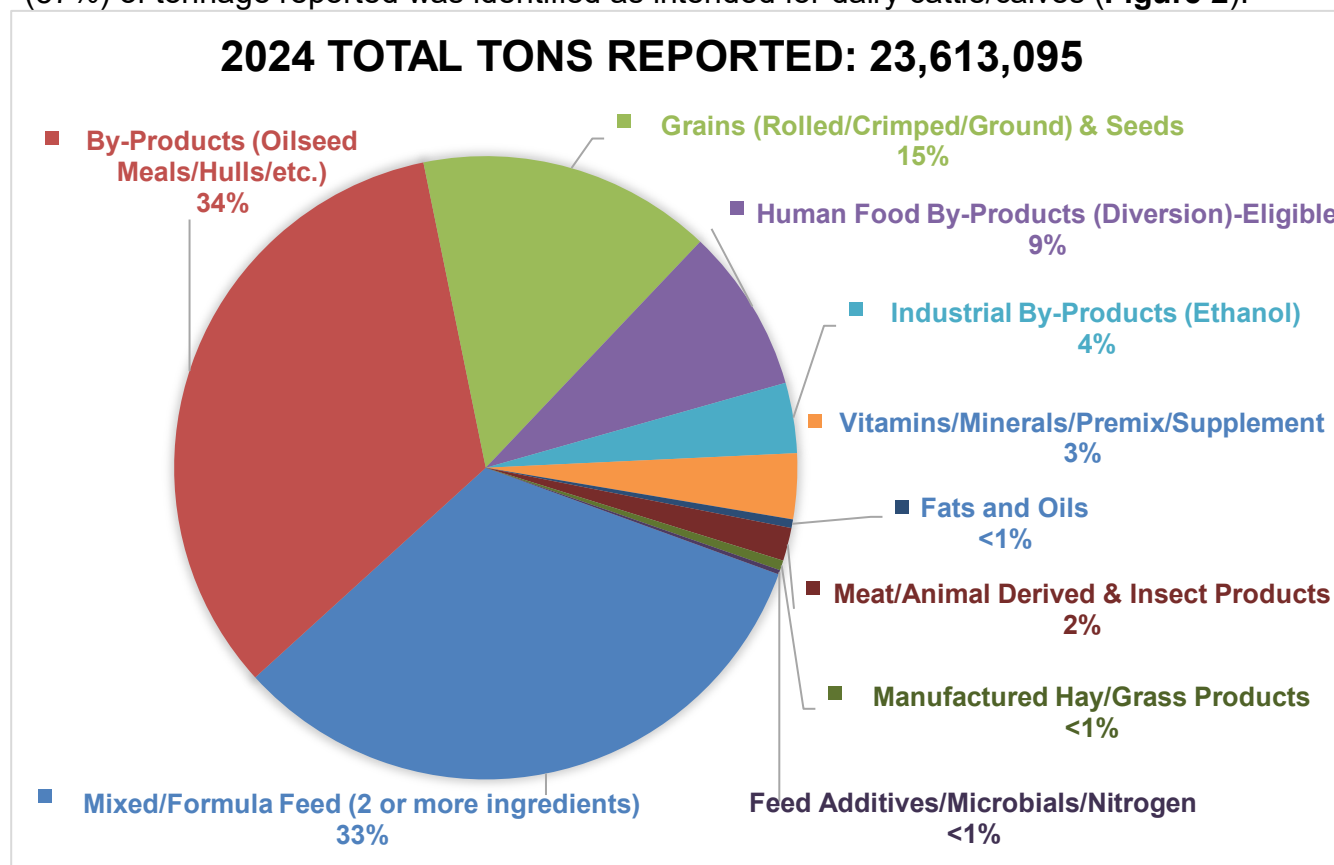


Figure 1. The percentage of 2024 total tonnage in each feed type.

California Commercial Feed Tonnage Report 2024

Table 1. Total tonnage in each feed type in 2024.

Feed Type	Tons
By-Products (Oilseed Meals/Hulls/etc.)	7,919,155
Mixed/Formula Feed (2 or more ingredients)	7,736,575
Grains (Rolled/Crimped/Ground) & Seeds	3,609,768
Human Food By-Products (Diversion)-Eligible	2,013,433
Industrial By-Products (Ethanol)	861,196
Vitamins/Minerals/Premix/Supplement	803,330
Meat/Animal Derived & Insect Products	404,950
Manufactured Hay/Grass Products	121,635
Fats and Oils	105,730
Feed Additives/Microbials/Nitrogen	37,324
Total	23,613,095

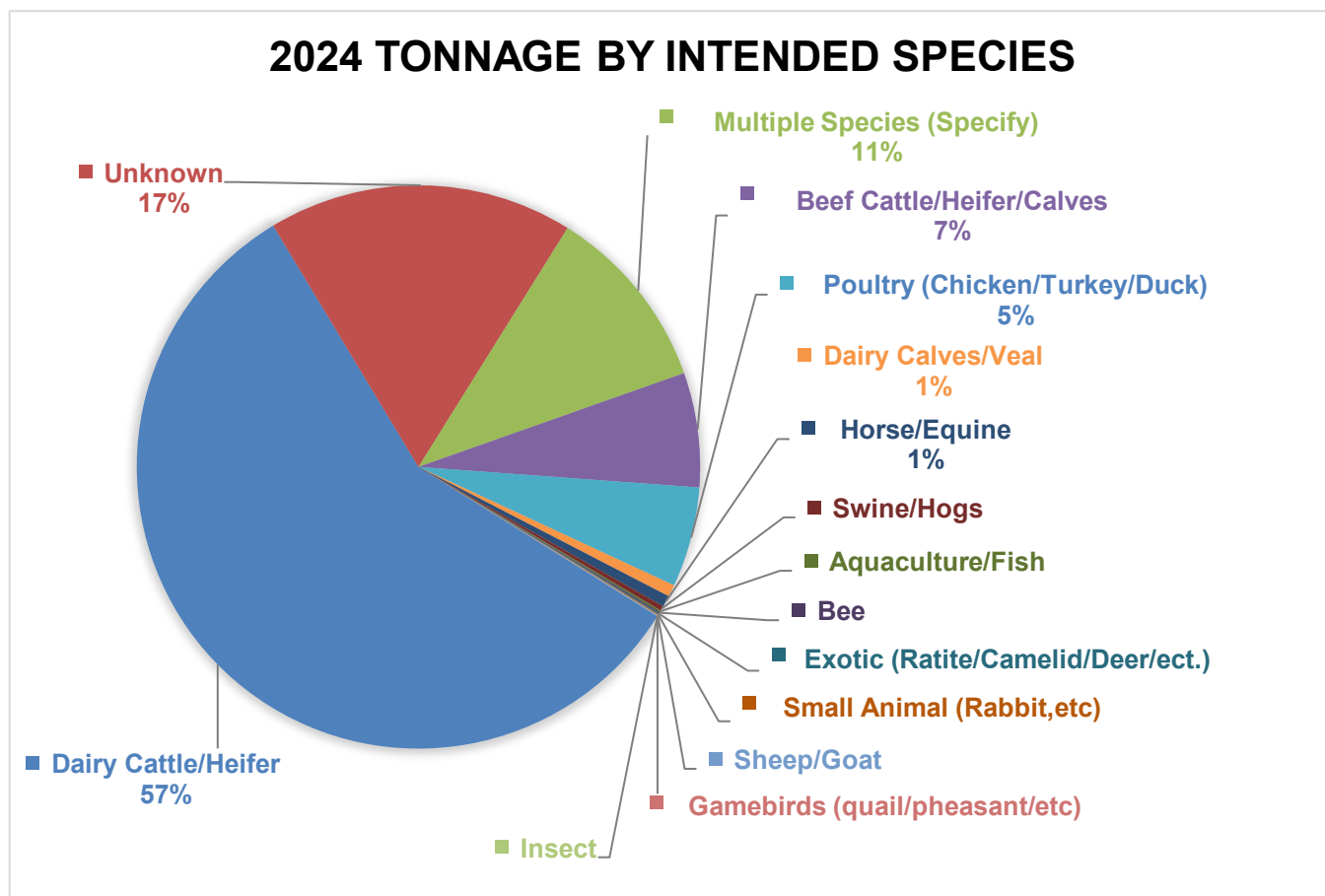


Figure 2. Total tonnage reported in 2024 by intended species of animal. Species without a percentage label made up less than 1%.



California Commercial Feed Tonnage Report 2024



Formula Feeds, Supplements, Premixes

Under “mixed/formula feed” and “vitamins/minerals” the available categories were “medicated” or “non-medicated.” “Medicated” includes both feeds medicated with Veterinary Feed Directive (VFD) drugs and all other animal drugs such as monensin and decoquinate. Over 95% of the tonnage reported for mixed/formula feeds was non-medicated formula feed (**Figure 3, Table 2**), and 29% of tonnage for vitamins/minerals/premix/supplements was non-medicated (**Figure 4, Table 3**).

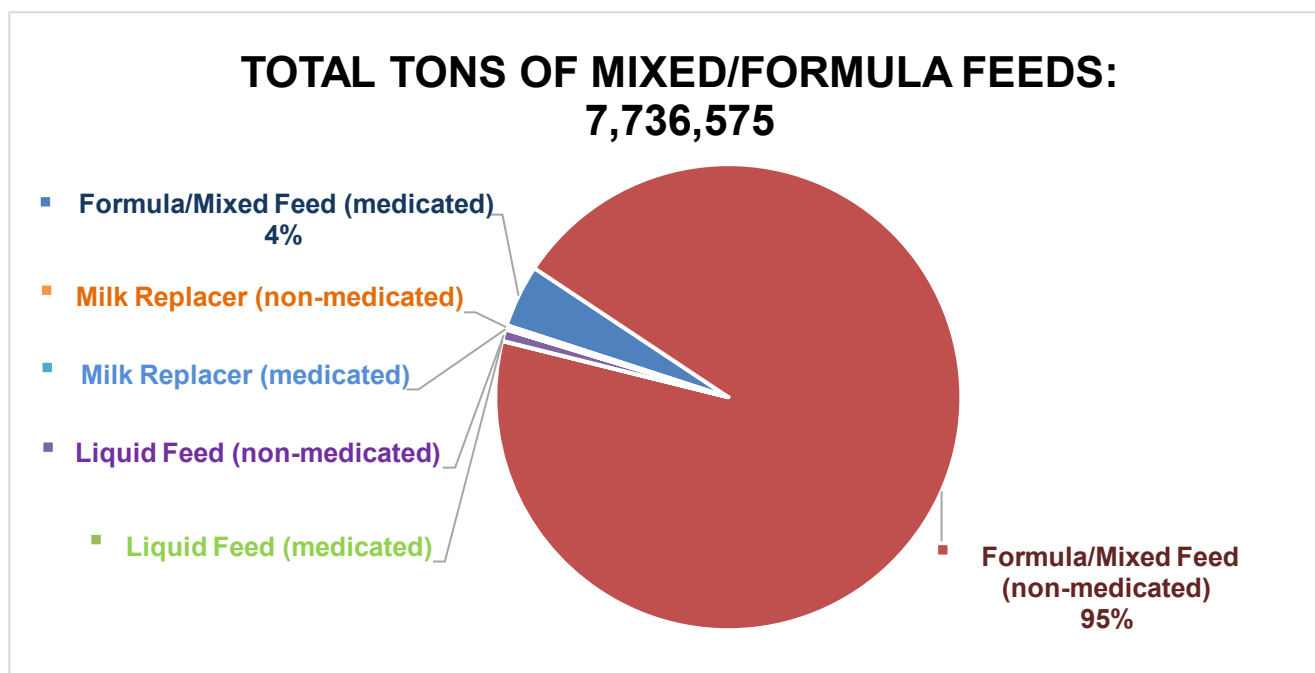


Figure 3. Percentage of tonnage for mixed/formula feeds. Labels without a percentage made up less than 1%.

Table 2. Tonnage by feed category for mixed/formula feeds.

Mixed/Formula Feed (2 or more ingredients)	Tons
Formula/Mixed Feed (non-medicated)	7,314,823
Formula/Mixed Feed (medicated)	335,183
Liquid Feed (non-medicated)	63,093
Milk Replacer (non-medicated)	22,205
Liquid Feed (medicated)	813
Milk Replacer (medicated)	457
Total	7,736,575

California Commercial Feed Tonnage Report 2024

TOTAL TONS OF VITAMINS, MINERALS, PREMIXES, AND SUPPLEMENTS: 803,330

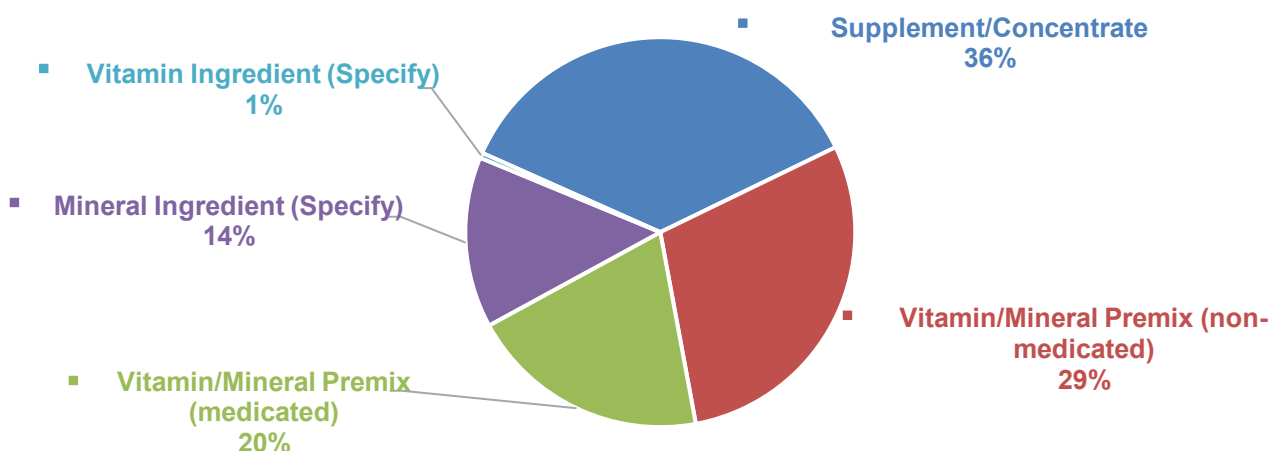


Figure 4. Percentage of tonnage for vitamins/minerals/premix/supplements.

Table 3. Tonnage by feed category for vitamins/minerals/premix/supplements.

Vitamins/Minerals/Premix/Supplement	Tons
Supplement/Concentrate	290,390
Vitamin/Mineral Premix (non-medicated)	235,074
Vitamin/Mineral Premix (medicated)	160,534
Mineral Ingredient (Specify)	113,872
Vitamin Ingredient (Specify)	3,461
Total	803,330

Commodities and Feed Additives

In the grain and seeds feed type (**Table 4**), the highest commodity reported was corn. The next highest was “mixed grains,” which may represent a mixture of grains such as a corn/barley mix or may have been used to report the tonnage of several individual grain commodities without distinguishing between them. Whole grains that are unprocessed and unmixed are exempt from tonnage tax, and therefore not reported. Whole hay is also exempt from tonnage tax and therefore not reported, however, manufactured hay products such as pellets and cubes contributed over 121,000 tons (**Table 5**). Various other feed products were categorized as feed additives which consisted of technical additives, flavorings, amino acids, non-protein nitrogen, and microorganisms (**Table 6**).



California Commercial Feed Tonnage Report 2024



Table 4. Tonnage by feed category for Grains (Rolled/Crimped/Ground) & Seeds.

Grains (Rolled/Crimped/Ground) & Seeds	Tons
Corn	1,766,158
Mixed Grains (i.e., corn/barley mix)	1,398,738
Wheat	259,106
Other Grains/Seeds (Specify)*	171,783
Oats	7,168
Barley	3,517
Rice/Broken Rice	2,459
Sunflower Seeds	817
Millet	22
Total	3,609,768

*Other grains/seeds reported included milo, buckwheat, rye, quinoa, flax, peas, soybeans, pumpkin seed, pulses, and dry beans.

Table 5. Tonnage by feed category for Manufactured Hay/Grass Products.

Manufactured Hay/Grass Products	Tons
Hay/Grass Pellets	47,984
Hay/Grass By-products	33,873
Hay/Grass Cubes	30,419
Other Manufactured Hay (Specify)*	9,358
Total	121,635

*Other manufactured hay reported included chopped hay.

Table 6. Tonnage by feed category for Feed Additives.

Feed Additives/Microbials/Nitrogen	Tons
Amino Acids	10,008
Enzymes/Fermentation Products/Yeast, etc.	8,932
Preservatives/Binders/Flavor/etc.	7,356
Non-Protein Nitrogen (Urea)	6,131
Direct Fed Microbials	3,583
Other Feed Additive (Specify)*	726
Type A Medicated Articles	587
Total	37,324

*Other feed additive reported included charcoal and tannins.



California Commercial Feed Tonnage Report 2024



By-products

“By-product” means a product generated in addition to the principal product may be produced during processing, rejected as inferior during the process of grading or separating, or is produced via an industrial or biological process. By-products are separated into three categories for tonnage reporting: human food by-products (diversion) eligible (**Table 7**), industrial (ethanol) (**Table 8**), and by-products (oilseed meals/hulls/etc.) (**Table 9**). The tonnage reported under “human food by-products (diversion)- eligible” was subject to the reduced tonnage tax rate of 6 1/2 cents per ton, upon approval and audit from the program. The actual tonnage reported to the program under this feed type was 1,880,537 tons. However, the estimated tonnage of these types of by-products due to miscategorized feed is 2,013,433 tons.

The greatest weight and diversity of tonnage was reported under by-products (oilseed meals/hulls/etc.). Canola meal had the most tonnage reported of any single commodity, followed by cottonseed and almond hulls, which were only slightly less than the tonnage reported for mixed grains.

Table 7. Tonnage by feed category for Human Food By-products (Diversion) Eligible.

Human Food By-Products (Diversion)-Eligible	Tons
Whey/Dairy By-Products (Liquid)	503,015
Wet Fruit/Vegetable Pomace/Pulp	475,561
Brewers Wet Grain	384,376
Cull Fruit & Vegetable	375,054
Dried Bakery Product/Cereal Food Fines	168,543
Wet Food Processing Waste	74,703
Recovered Retail Food	32,181
Total	2,013,433

Table 8. Tonnage by feed category for Industrial By-Products (Ethanol).

Industrial By-Products (Ethanol)	Tons
Dried Distiller's Grains	428,475
Wet Distiller's Grains	406,682
Distiller's Corn Solubles	14,050
Corn Oil	6,666
Glycerin	5,322
Total	861,196



California Commercial Feed Tonnage Report 2024



Table 9. Tonnage by feed category for By-Products (Oilseed Meals/Hulls/etc.).

By-Products (Oilseed Meals/Hulls/etc.)	Tons
Canola Meal	2,933,359
Cottonseed (Whole,Cracked)	1,262,510
Almond Hulls	1,149,249
Other By-Product (Specify)*	568,571
Corn By-Product	486,467
Almond Hulls & Shell	463,852
Soybean Meal	456,185
Grain Screenings	131,716
Wheat Mill Runs	123,726
Grape Pomace	80,010
Rice Bran	52,299
Cottonseed Hulls/By-Products	47,006
Beet Pulp/Beet By-Product	40,694
Sunflower Meal	29,417
Soybean Hulls/By-Product	25,572
Molasses	17,778
Bean/Pea By-Product	12,763
Cottonseed Meal	11,424
Dried Milk & Dairy By-Products (Whey/etc.)	8,502
Linseed Meal	6,208
Safflower Meal	5,961
Nut By-Product	2,773
Potato By-Product	2,479
Molasses By-Product (beet/cane)	328
Olive Meal	305
Total	7,919,155

**Other by-products reported included mixed by-products, fig, prune meal, coconut meal, pomegranate, peanut meal, pulse products, citrus peel, tomato pomace, and various other ingredients.*



California Commercial Feed Tonnage Report 2024



Fat and Oils and Meat/Animal Derived

In the fat and oils and meat/animal derived feed types (**Table 10 and 11**), the highest commodity reported was dried poultry litter followed by animal fat and tallow. It is important to note that some fats and oils are categorized in other sections, including animal fat and tallow under animal derived products, and corn oil under industrial by-products.

Table 10. Tonnage by feed category for Fats and Oils.

Fats and Oils	Tons
Other Vegetable Oils (Specify)*	58,400
Yellow Grease	40,955
Canola Oil	3,881
Soybean Oil	2,494
Total	105,730

**Other vegetable oils reported included palm oil or fat, nut oil, used cooking oil, calcium salts of long chain fatty acids, palmitic acid, and other “by-pass fats.”*

Table 11. Tonnage by feed category for Meat/Animal Derived & Insect Products.

Meat/Animal Derived & Insect Products	Tons
Dried Poultry Litter	179,585
Animal Fat and Tallow	108,374
Other Animal Product (Specify)*	39,853
Poultry By-products	27,304
Meat and Bone Meal (Ruminant)	17,371
Fish Meal/Fish	11,071
Chicken Meal	6,568
Meat and Bone Meal (Non-Ruminant)	5,564
Meat	3,756
Feather Meal	2,379
Processed Animal Waste	2,147
Destressed/Salvage Pet Food	761
Insect Products (Specify)	130
Lamb	88
Total	404,950

**Other animal products reported included blood meal, plasma, and mixed meat and bone meal.*