The Connecticut Agricultural Experiment Station,
New Haven

Feed Products and Pet Foods Inspected 1989

BY LESTER HANKIN

Bulletin 880
July 1990
Chemical analysis of 235 official samples of feed products and pet foods collected during 1989 by inspectors of the Connecticut Department of Agriculture are presented in this Bulletin. Feed for farm animals as well as for pets, including caged and wild birds, was tested.

Table 1 shows individual samples from 31 manufacturers. In the Table the brand name for individual products from each manufacturer are followed by the percentage guarantee for the nutrients protein, fat, fiber, and ash. For example, the numbers 10, 8, 4, 2 indicate that a minimum of 10% protein, a minimum of 8% fat, a maximum of 4% fiber, and a maximum of 2% ash are guaranteed. The analyses are then shown with deficiencies in protein followed by a dash (-).

Table 2 summarizes the number of samples from each manufacturer and the number of guarantees for ash. The number of guarantees for protein, fat, and fiber is the same as the number of samples. The average percentage for each nutrient for each manufacturer is then shown.

Two types of variability affect feed and pet food analysis and must be considered in judging deficiencies. The first is the variability among different batches of the same product. This variability can be noted by examination of the results of analyses of the same product from the same manufacturer. The second type of variability is among duplicate analysis on the same product. This variability is shown by the statement: the mean difference between duplicates for protein, fat, fiber, and ash is about three-tenths percent.

Feed and pet foods are deemed deficient in protein and fat and excessive in fiber and ash if the analysis is not within analytical variations recommended by the Association of American Feed Control Officials. For all samples, only five were found to be deficient in protein content. No samples were deficient in fat or excessive in fiber or ash. This is the lowest total number of deficiencies for feeds we have ever found.

Analyses were by Mamie Pyles, Craig Musante, and Mary Alice DeFrancesco. Samples were collected by John Chapman, Marilyn Abt, and Raymond Weller under the direction of Alton VanDyke, Feed Control Official, and Kenneth Veit, Chief of the Marketing Division, of the Department of Agriculture. Feed laws are administered by the Commissioner of the Connecticut Department of Agriculture.

Lester Hankin
Chief, Analytical Chemistry
Table 1. Analysis of individual samples.

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<th>Guarantee %</th>
<th>Nutrients found %</th>
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ALPO PETFOODS, INC.

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BEST FEEDS & FARM SUPPLIES

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BIG BET PET FOODS

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Table 1. Analysis of individual samples (continued).

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Table 1. Analysis of individual samples (continued).

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Table 1. Analysis of individual samples (continued).

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Table 2. Summary for each manufacturer of number of samples tested, number of guarantees for ash, and average percentage of guarantee for each nutrient. The number of guarantees for ash are listed in parenthesis.

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<sup>a</sup> Deficiencies for protein are: one sample each from Agway, H.K. Webster, K & L Feed Mill, and two from Laddie Boy.
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