



## Feeds and Feeding

*By Arthur Edison Cullison, Robert S. Lowrey*



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Created for sophomore/junior undergraduate level courses in Animal Nutrition and Animal Sciences. This contemporary and authoritative survey provides comprehensive coverage of the nutritional and scientific feeding of beef cattle, dairy cattle, horses, sheep and swine, and offers a detailed treatment of feed composition for use in ration formulation.

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### Editorial Review

#### From the Publisher

Authoritative text provides comprehensive coverage of the nutritional and scientific feeding of beef cattle, dairy cattle, horses, sheep and swine. Provides information on feed composition for use in ration formulation.

#### From the Back Cover

This book provides a strong, hands-on foundation in the basic principles of animal nutrition that is easy to understand. This contemporary and authoritative survey provides comprehensive coverage of the nutritional and scientific feeding of beef cattle, dairy cattle, horses, sheep and swine, and offers a detailed treatment of feed composition for use in ration formulation. For anyone interested in animal nutrition and animal sciences.

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*Feeds and Feeding*, sixth edition, has been prepared by the senior author in order to keep current the text that was first written by Dr. Arthur E. Cullison and published in 1975. Following the traditional design and intent of Dr. Cullison—and also Dr. Robert S. Lowrey in the fourth edition—the current revision has been prepared as a text for an undergraduate course in animal nutrition and feeding. Therefore, only information pertinent to such a course has been included. While this book answers most basic questions pertaining to animal feeding and nutrition, it does not deal with more unusual feeds and is not intended as an all-purpose reference on such matters.

The overall importance of poultry meat—especially broiler chicken and turkeys—as a source of human food has increased very rapidly, whereas that from cattle, pork, sheep, and veal has tended to either remain fairly constant or decline. Charts have been prepared to demonstrate changes in consumption of animal poultry meat per person in the United States between 1960 and 2002, and are presented in connection with the subject matter relevant to each of the species. Starting with the fifth edition, sections on the nutrition of laying hens, and chicks for the production of broiler meat were included, thus changing the format of the original four editions.

This sixth edition, following the tradition of the first five editions, is not meant as a review of original research literature. Most complete literature citations are found in the National Research Council (NRC) bulletins covering each of the species of animals for which nutrition and feeding programs have been included. Since each of the NRC bulletins has been prepared by a committee of outstanding researchers and teachers, such bulletins have served as the ultimate authority in preparing nutrient and feed recommendations presented in this book. However, there are several other textbooks that contain excellent reviews of literature that deserve to be perused when the student wishes to go into greater depth on a subject. Although the last edition of Morrison's *Feeds and Feeding* was published nearly 40 years ago, it still has a great deal of pertinent information that was useful to the senior author in preparing the sixth edition. *Feeds and Nutrition*, by Ensminger, Oldfield, and Heinemann, containing more than 1,500 pages, is probably one of the most nearly complete books on the subject. In addition, more basic nutrition books such as Maynard's *Animal Nutrition* might be helpful references.

The sixth edition provides the latest information available on feed composition for use in ration formulation. However, because NRC bulletins set up nutrient requirements quite differently for monogastric and ruminant animals—and even for species within a category—it is necessary to provide two sets of feed tables: one for

the ruminant animals and one for the monogastric animals. Naturally, this necessitates additional pages in the text but such changes also become necessary as research findings and changes in types of animals develop. Such feed tables have been developed from those presented in the respective NRC bulletins. The student should be made aware that different species committees may differ in which feed table data are presented. In other words, the fact that some feed data are presented on a 100% dry matter basis, whereas other feed data are presented on an air-dry basis, is a reflection of the species committee preparing that bulletin. Either method of calculating formulations is equally effective as long as the student takes any such effects into account.

The authors wish to express appreciation to the National Academy of Sciences for permission to use data that have been generated by the respective species committees and presented in the respective species bulletins. The following National Research Council bulletins from the NAS are cited in this sixth edition:

*Nutrient Requirements of Beef Cattle*, seventh rev. ed., 1996

*Nutrient Requirements of Dairy Cattle*, sixth rev. ed., 1989, and seventh rev. ed., 2001

*Nutrient Requirements of Horses*, fifth rev. ed., 1989

*Nutrient Requirements of Poultry*, ninth rev. ed., 1994

*Nutrient Requirements of Sheep*, sixth rev. ed., 1985

*Nutrient Requirements of Swine*, tenth rev. ed., 1998

The publishers send out their texts for peer review from time to time. As one reviewer stated, "I have used various editions of this text over the past 20 years because of its content. I think it has about the right amount and balance of information . . ."

## **Users Review**

### **From reader reviews:**

#### **Lou Marshall:**

What do you think of book? It is just for students because they're still students or that for all people in the world, the particular best subject for that? Simply you can be answered for that issue above. Every person has distinct personality and hobby for every other. Don't to be pushed someone or something that they don't want do that. You must know how great along with important the book Feeds and Feeding. All type of book could you see on many methods. You can look for the internet sources or other social media.

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**Denise Barnhart:**

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