

Nutritional Ecology Of The Ruminant Comstock Book

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They supply energy and essential nutrients in the form of protein, vitamins, and minerals. Energy and protein are often the most limiting factors for ruminants and have received the most attention in evaluation systems. Some feed or food characteristics are related to form (e.g., particle size) and have no relation to indigenous chemical composition.

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Van Soest, P.J. (1994) Nutritional ecology of the ruminant. 2nd Edition, Cornell University Press, Ithaca, 476. has been cited by the following article: TITLE: Common beans (*Phaseolus vulgaris* L.) in the rations for cattle in feedlot

Van Soest, P.J. (1994) Nutritional ecology of the ruminant ...
Ruminants are, without exception, obligate herbivores subsisting as they do on a diet composed entirely of plant material. However, plant material is a diverse resource and within the Ruminantia there is a range of feeding niches with different herbivore classes focussing their foraging effort on different vegetation types (Hofmann 1989).

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Nutritional Ecology of the Ruminant by Peter J. Van Soest
He clearly and logically lays out fundamental concepts of ruminant (and often non-ruminant) nutrition, forage composition, fundamentals of metabolism, intake, and key aspects of the nutritional ecology of domestic and wild ruminants.

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This monumental text-reference places in clear perspective the importance of nutritional assessments to the ecology and biology of ruminants and other nonruminant herbivorous mammals. Now extensively revised and significantly expanded, it reflects the changes and growth in ruminant nutrition and related ecology since 1982. Among the subjects Peter J. Van Soest covers are nutritional constraints, mineral nutrition, rumen fermentation, microbial ecology, utilization of fibrous carbohydrates, application of ruminant precepts to fermentive digestion in nonruminants, as well as taxonomy, evolution, nonruminant competitors, gastrointestinal anatomies, feeding behavior, and problems fo animal size. He also discusses methods of evaluation, nutritive value, physical struture and chemical composition of feeds, forages, and broses, the effects of lignification, and ecology of plant self-protection, in addition to metabolism of energy, protein, lipids, control of feed intake, mathematical models of animal function, digestive flow, and net energy. Van Soest has introduced a number of changes in this edition, including new illustrations and tables. He places nutritional studies in historical context to show not only the effectiveness of nutritional approaches but also why nutrition is of fundamental importance to issues of world conservation. He has extended precepts of ruminant nutritional ecology to such distant adaptations as the giant panda and streamlined conceptual issues in a clearer logical progression, with emphasis on mechanistic causal interrelationships. Peter J. Van Soest is Professor of Animal Nutrition in the Department of Animal Science and the Division of Nutritional Sciences at the New York State College of Agriculture and Life Sciences, Cornell University.

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A revision of the first edition of 1982, based on the author's notes for the course he teaches at Cornell U. on fiber and the rumen and tropical forages. Authoritative, extensively referenced (through 1993), thoroughly illustrated, and meticulously produced by Cornell U. Press. Annotation copyright by Book News, Inc., Portland, OR

This volume investigates how large herbivores not only influence the structure and distribution of the vegetation, but also affect nutrient flows and the responses of associated fauna. The mechanisms and processes underlying the herbivores' behavior, distribution, movement and direct impact on the vegetation are discussed in detail. It is shown that an understanding of plant/animal interactions can inform the management of large herbivores to integrate production and conservation in terrestrial systems.

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