

Beef Cow Nutrient Requirements

Protein & Energy Requirements – Mature Cows Last 1/3 Gestation (predicted gain 0.9 lb/day)					
Weight, lb*	Dry Matter Intake, lb/d	Crude Protein, lb/d	TDN, lb/d	Calcium, grams/d	Phosphorus, grams/d
1100	21.0	1.6	11.2	25	20
1200	22.3	1.7	11.8	26	21
1300	23.6	1.8	12.5	28	23
1400	24.9	1.9	13.1	29	24
*in average body condition (BCS=5) from <i>Nutrient Requirements of Beef Cattle</i> , 6 th Ed., 1984					

Protein & Energy Requirements – Mature Cows 1 st 3-4 months lactation (predicted gain 0.0 lb/day; 20 lb milk/day)					
Weight, lb*	Dry Matter Intake, lb/d	Crude Protein, lb/d	TDN, lb/d	Calcium, grams/d	Phosphorus, grams/d
1100	22.3	2.6	14.5	38	27
1200	23.8	2.7	15.2	39	28
1300	25.3	2.8	15.9	41	30
1400	26.7	2.9	16.5	42	31
*in average body condition (BCS=5) from <i>Nutrient Requirements of Beef Cattle</i> , 6 th Ed., 1984					

Relationship Between Crude Fiber (on the tag) and TDN Content	
Crude Fiber, not more than	TDN*
4	79
6	76
8	73
10	70
12	67
14	64
16	61
18	58
20	55
22	52
24	49
*TDN (Total Digestible Nutrients) is a calculated value. Crude fiber sources differ in their digestibility. Therefore, the TDN values shown here are approximations.	

Nutrient Requirements Of Beef Cattle

Jicheng Xie



Nutrient Requirements Of Beef Cattle:

Nutrient Requirements of Beef Cattle National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Nutrient Requirements of Beef Cattle, 2016-06-16

Since 1944 the National Research Council NRC has published seven editions of the *Nutrient Requirements of Beef Cattle*. This reference has guided nutritionists and other professionals in academia and the cattle and feed industries in developing and implementing nutritional and feeding programs for beef cattle. The cattle industry has undergone considerable changes since the seventh revised edition was published in 2000 and some of the requirements and recommendations set forth at that time are no longer relevant or appropriate. The eighth revised edition of the *Nutrient Requirements of Beef Cattle* builds on the previous editions. A great deal of new research has been published during the past 14 years and there is a large amount of new information for many nutrients. In addition to a thorough and current evaluation of the literature on the energy and nutrient requirements of beef in all stages of life, this volume includes new information about phosphorus and sulfur contents, a review of nutritional and feeding strategies to minimize nutrient losses in manure and reduce greenhouse gas production, a discussion of the effect of feeding on the nutritional quality and food safety of beef, new information about nutrient metabolism and utilization, new information on feed additives that alter rumen metabolism and postabsorptive metabolism, and future areas of needed research. The tables of feed ingredient composition are significantly updated. *Nutrient Requirements of Beef Cattle* represents a comprehensive review of the most recent information available on beef cattle nutrition and ingredient composition that will allow efficient, profitable, and environmentally conscious beef production.

Nutrient Requirements of Beef Cattle National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Nutrient Requirements of Beef Cattle, 2016-05-16

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and future areas of needed research The tables of feed ingredient composition are significantly updated Nutrient Requirements of Beef Cattle represents a comprehensive review of the most recent information available on beef cattle nutrition and ingredient composition that will allow efficient profitable and environmentally conscious beef production

Nutrient Requirements of Beef Cattle Subcommittee on Beef Cattle Nutrition, Committee on Animal Nutrition, Board on Agriculture, National Research Council, 2000-05-16 As members of the public becomes more conscious of the food they consume and its content higher standards are expected in the preparation of such food The updated seventh edition of Nutrient Requirements of Beef Cattle explores the impact of cattle's biological production and environmental diversities as well as variations on nutrient utilization and requirements More enhanced than previous editions this edition expands on the descriptions of cattle and their nutritional requirements taking management and environmental conditions into consideration The book clearly communicates the current state of beef cattle nutrient requirements and animal variation by visually presenting related data via computer generated models Nutrient Requirements of Beef Cattle expounds on the effects of beef cattle body condition on the state of compensatory growth takes an in depth look at the variations in cattle type and documents the important effects of the environment and stress on food intake This volume also uses new data on the development of a fetus during pregnancy to prescribe nutrient requirements of gestating cattle more precisely By focusing on factors such as product quality and environmental awareness Nutrient Requirements of Beef Cattle presents standards and advisements for acceptable nutrients in a complete and conventional manner that promotes a more practical understanding and application

Nutrient Requirements of Beef Cattle National Research Council (U.S.). Subcommittee on Beef Cattle Nutrition, 1976 Feed consumption and rates of gain Nutrient requirements and signs of deficiency Nonnutrient additives and implants Water Composition of feeds Formulating diets *Beef Cattle Feeding and Nutrition* Tilden Perry, 2012-12-02 Beef Cattle Feeding and Nutrition is the third in a series of books on animal feeding and nutrition These books are designed to keep readers abreast of the rapid developments in feeding and nutrition These developments have resulted in changes in diets the use of new feed processing methods improved use of by product feeds and more supplementation with minerals vitamins amino acids and nonprotein nitrogen compounds The book is organized into four parts Part I focuses on the nutrient requirements of beef cattle Beginning with a review of rumen physiology and energy requirements the remaining chapters discuss the vitamin mineral and protein requirements of beef cattle Part II on feedingstuffs includes studies on pasture and other forages hay and haylage making silage and crops for silage and concentrates for beef cattle Part III includes studies on breeding herd nutrition and management and milk production and calf performance Part IV on cattle finishing covers cattle finishing systems feedlot disease and economics of cattle feeding

Nutrient Requirements of Beef Cattle National Research Council (U.S.). Subcommittee on Beef Cattle Nutrition, 2007

Nutrient Requirements of Beef Cattle National Research Council (É.-U.). Subcommittee on Beef Cattle Nutrition, 2000

As members of the public becomes more concious of the food they consume and its content higher standards are expected in the preparation of such food The updated seventh edition of Nutrient Requirements of Beef Cattle explores the impact of cattle s biological production and environmental diversities as well as variations on nutrient utilization and requirements More enhanced than previous editions this edition expands on the descriptions of cattle and their nutritional requirements taking management and environmental conditions into consideration The book clearly communicates the current state of beef cattle nutrient requirements and animal variation by visually presenting related data via computer generated models Nutrient Requirements of Beef Cattle expounds on the effects of beef cattle body condition on the state of compensatory growth takes an in depth look at the variations in cattle type and documents the important effects of the environment and stress on food intake This volume also uses new data on the development of a fetus during pregnancy to prescribe nutrient requirements of gestating cattle more precisely By focusing on factors such as product quality and environmental awareness Nutrient Requirements of Beef Cattle presents standards and advisements for acceptable nutrients in a complete and conventional manner that promotes a more practical understanding and application Site web de l diteur Nutrient Requirements of Beef Cattle Board on Agriculture. Subcommittee on Beef Cattle Nutrition,1970 **Nutrient Requirements of Beef Cattle** ,1963 *Nutrient Requirements of Beef Cattle* National Research Council (U.S.). Committee on Animal Nutrition. Subcommittee on Beef Cattle Nutrition (U.S),1963 Nutrient Requirements of Beef Cattle National Research Council (U.S.). Committee on Animal Nutrition,1961 **Nutrient Requirements of Beef Cattle** National Research Council. Committee on Animal Nutrition. Subcommittee on Beef Cattle Nutrition,1958 **Nutrient Requirements of Beef Cattle** Committee on Animal Nutrition. Subcommittee on Beef Cattle Nutrition,National Academy of Sciences. National Research Council,1963 *Nutrient Requirements of Beef Cattle* ,1958 **Nutrient Requirements of Beef Cattle** National Research Council,Board on Agriculture,SUBCOMMITTEE ON BEEF CATTLE NUTRITION.,Committee on Animal Nutrition,2000-05-16 As members of the public becomes more concious of the food they consume and its content higher standards are expected in the preparation of such food The updated seventh edition of Nutrient Requirements of Beef Cattle explores the impact of cattle s biological production and environmental diversities as well as variations on nutrient utilization and requirements More enhanced than previous editions this edition expands on the descriptions of cattle and their nutritional requirements taking management and environmental conditions into consideration The book clearly communicates the current state of beef cattle nutrient requirements and animal variation by visually presenting related data via computer generated models Nutrient Requirements of Beef Cattle expounds on the effects of beef cattle body condition on the state of compensatory growth takes an in depth look at the variations in cattle type and documents the important effects of the environment and stress on food intake This volume also uses new data on the development of a fetus during pregnancy to prescribe nutrient requirements of gestating cattle more precisely By focusing on factors such as product

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