

22 Nutrient Requirements of Swine

TABLE 5 Nutrient Requirements of Growing-Finishing Swine Fed *Ad Libitum*: Percent or Amount per Kilogram of Diet*

Liveweight (kg)		1-5 ^a	5-10	10-20	20-35	35-60	60-100
Expected Daily Gain (g)		200	300	500	600	700	800
Expected Efficiency (g gain/kg feed)		800	600	500	400	350	270
Expected Efficiency (feed/gain)		1.25	1.67	2.00	2.50	2.86	3.73
Digestible energy ^b	kcal	3,700	3,500	3,370	3,380	3,390	3,395
Metabolizable energy ^b	kcal	3,600	3,400	3,160	3,175	3,190	3,195
Crude protein ^c	%	27	20	18	16	14	13
<i>Indispensable amino acids</i>							
Lysine	%	1.28	0.95	0.79	0.70	0.61	0.57
Arginine	%	0.33	0.25	0.23	0.20	0.18	0.16
Histidine	%	0.31	0.23	0.20	0.18	0.16	0.15
Isoleucine	%	0.85	0.63	0.56	0.50	0.44	0.41
Leucine	%	1.01	0.75	0.68	0.60	0.52	0.48
Methionine + cystine ^d	%	0.76	0.56	0.51	0.45	0.40	0.30
Phenylalanine + tyrosine ^e	%	1.18	0.88	0.79	0.70	0.61	0.57
Threonine	%	0.76	0.56	0.51	0.45	0.39	0.37
Tryptophan ^f	%	0.20	0.15	0.13	0.12	0.11	0.10
Valine	%	0.85	0.63	0.56	0.50	0.44	0.41
<i>Mineral elements</i>							
Calcium	%	0.90	0.80	0.65	0.60	0.55	0.50
Phosphorus ^g	%	0.70	0.60	0.55	0.50	0.45	0.40
Sodium	%	0.10	0.10	0.10	0.10	0.10	0.10
Chlorine	%	0.13	0.13	0.13	0.13	0.13	0.13
Potassium	%	0.30	0.26	0.26	0.23	0.20	0.17
Magnesium	%	0.04	0.04	0.04	0.04	0.04	0.04
Iron	mg	150	140	80	60	50	40
Zinc	mg	100	100	80	60	50	50
Manganese	mg	4.0	4.0	3.0	2.0	2.0	2.0
Copper	mg	6.0	6.0	5.0	4.0	3.0	3.0
Iodine	mg	0.14	0.14	0.14	0.14	0.14	0.14
Selenium	mg	0.15	0.15	0.15	0.15	0.15	0.10
<i>Vitamins</i>							
Vitamin A	IU	2,200	2,200	1,750	1,300	1,300	1,300
or β -carotene	mg	8.8	8.8	7.0	5.2	5.2	5.2
Vitamin D	IU	220	220	200	200	150	125
Vitamin E	IU	11	11	11	11	11	11
Vitamin K (menadione)	mg	2.0	2.0	2.0	2.0	2.0	2.0
Riboflavin	mg	3.0	3.0	3.0	2.6	2.2	2.2
Niacin ^h	mg	22	22	18	14	12	10
Pantothenic acid	mg	13	13	11	11	11	11
Vitamin B ₆	mg	22	22	15	11	11	11
Choline ⁱ	mg	1,100	1,100	900	700	550	400
Thiamin	mg	1.3	1.3	1.1	1.1	1.1	1.1
Vitamin B ₁₂	mg	1.5	1.5	1.5	1.1	1.1	1.1
Biotin ^j	mg	0.10	0.10	0.10	0.10	0.10	0.10
Folic acid ^k	mg	0.60	0.60	0.60	0.60	0.60	0.60

* Requirements reflect the estimated levels of each nutrient needed for optimal performance when a fortified grain-soybean meal diet is fed, except that a substantial level of milk products should be included in the diet of the 1-5-kg pig. Concentrations are based upon amounts per unit of air-dry diet (i.e., 90 percent dry matter).

^b These are not absolute requirements but are suggested energy levels derived from diets containing corn and soybean meal (44 percent crude protein). When lower energy grains are fed, these energy levels will not be met; consequently, feed efficiency would be lowered.

^c Approximate protein levels required to meet the need for indispensable amino acids when a fortified grain-soybean meal diet is fed to pigs weighing more than 5 kg.

^d Methionine can fulfill the total requirement; cystine can meet at least 50 percent of the total requirement.

^e Phenylalanine can fulfill the total requirement; tyrosine can meet at least 50 percent of the total requirement.

^f It is assumed that usable tryptophan content of corn does not exceed 0.05 percent.

^g At least 30 percent of the phosphorus requirement should be provided by inorganic and/or animal product sources.

^h It is assumed that most of the niacin present in cereal grains and their by-products is in bound form and thus unavailable to swine. The niacin contributed by these sources is not included in the requirement listed. In excess of its requirement for protein synthesis, tryptophan can be converted to niacin (50 mg tryptophan yields 1 mg niacin).

ⁱ In excess of its requirement for protein synthesis, methionine can spare dietary choline (4.3 mg methionine is equal in methylating capacity to 1 mg choline).

^j These levels are suggested. No requirements have been established.

Nutrient Requirements Of Swine

Jiyuan Zhang



Nutrient Requirements Of Swine:

Nutrient Requirements of Swine, 1998 Each of these popular handbooks contains comprehensive information on the nutritional needs of domestic animals and includes extensive tabular data All are paperback and 8 1/2 x 11 Some books come with diskettes or Cds that allow users to predict nutrient requirements of specific animals under various conditions and at various life stages Nutrient Requirements of Swine National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Nutrient Requirements of Swine, 2012-08-02 Since 1944 the National Research Council has published 10 editions of the Nutrient Requirements of Swine This reference has guided nutritionists and other professionals in academia and the swine and feed industries in developing and implementing nutritional and feeding programs for swine The swine industry has undergone considerable changes since the tenth edition was published in 1998 and some of the requirements and recommendations set forth at that time are no longer relevant or appropriate The eleventh revised edition of the Nutrient Requirements of Swine builds on the previous editions published by the National Research Council A great deal of new research has been published during the last 15 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 swine in all stages of life this volume includes information about feed ingredients from the biofuels industry and other new ingredients requirements for digestible phosphorus and concentrations of it in feed ingredients a review of the effects of feed additives and feed processing and strategies to increase nutrient retention and thus reduce fecal and urinary excretions that could contribute to environmental pollution The tables of feed ingredient composition are significantly updated Nutrient Requirements of Swine represents a comprehensive review of the most recent information available on swine nutrition and ingredient composition that will allow efficient profitable and environmentally conscious swine production **Nutrient Requirements of Swine** National Research Council (U.S.). Subcommittee on Swine Nutrition, 1959

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