

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 (menadiione)	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

Peipei Pang



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