

## Example Pig Diets

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This leaflet gives 36 example pig diets. Most are complete but some have been formulated to supplement pasture. Example diets are shown for pigs 10 pounds to market weight. Diets shown are only examples and should be changed more often to more closely match diet with needs of the growing pig. Gestation and lactation diets are given for sows. Working boars weighing less than 600 pounds should receive the same diet as lactating sows. For larger boars, the gestation diet may be appropriate.

Table 1 provides reference corn-soybean meal diets for growing pigs and sows. Table 2 details diets that include dried distillers grains. Alternatively cooked soybeans are added to diets in table 3. Diets in table 4 combine dried distillers grains and cooked soybeans. Tables 5, 6, and 7 provide suggested pasture supplements for growing pigs and gestating sows. Table 8 has examples of bulky, high forage diets for gestating sows. Trace mineral and vitamin pre-mixes are presented in Iowa State University Extension's Life Cycle Swine Nutrition, PM 489, 1996.

### Additional Resources

Iowa State University Extension. 1996. Life Cycle Swine Nutrition. PM-489. Iowa State University. Ames.

Jurgens, Marshall H. and Kristjan Bregendahl. 2007. Animal Feeding and Nutrition 10<sup>th</sup> Edition. Kendall/Hunt Publishing Company. Dubuque, IA.

Lewis, Austin J. and L. Lee Southern editors. 2001. Swine Nutrition 2<sup>nd</sup> Edition. CRC Press. Boca Raton, FL.

Morrison. pre-1950. Feeds and Feeding. The Morrison Publishing Company. Ithaca, NY.

National Research Council. 1998. Nutrient Requirements of Swine 10<sup>th</sup> Edition. National Academy Press. Washington, DC.

**Table 1. Reference diets for pigs.**

Ingredient, lb.	Growing pig body weight				Sow diets	
	10-30	30-80	80-160	>160	Gestation	Lactation
Corn	358	649	766	850	863	688
Soybean meal	460	320	210	130	100	275
Dried whey	150	0	0	0	0	0
Limestone	7.20	8.50	8.70	9.00	10.00	7.85
Dicalcium phosphate	19.75	15.25	9.50	6.00	20.00	21.00
Salt	0	4.10	3.50	3.20	3.50	4.40
Trace mineral	2.50	1.65	1.30	1.00	1.00	1.15
Vitamin pre-mix	2.55	1.50	1.00	0.80	2.50	2.60
Total, lb.	1000	1000	1000	1000	1000	1000

Adapted from Life Cycle Swine Nutrition, 1996.

**Table 2. Example diets including dried distillers grains with solubles (DDGS).**

Ingredient, lb.	Growing pig body weight			Sow diets	
	30-80	80-160	>160	Gestation	Lactation
Corn	579	621	680	758	658
Soybean meal, 48% CP	305	180	100	80	260
DDGS	85	175	200	125	45
Limestone	8.50	8.70	9.00	10.00	7.85
Dicalcium phosphate	15.25	9.50	6.00	20.00	21.00
Salt	4.10	3.50	3.20	3.50	4.40
Trace mineral	1.65	1.30	1.00	1.00	1.15
Vitamin pre-mix	1.50	1.00	0.80	2.50	2.60
Total, lb.	1000	1000	1000	1000	1000

Adapted from Life Cycle Swine Nutrition, 1996.

**Table 3. Example diets including cooked, full-fat soybeans.**

Ingredient, lb.	Growing pig body weight			Sow diets	
	30-80	80-160	>160	Gestation	Lactation
Corn	589	716	830	853	668
Soybean meal, 48% CP	130	60	50	65	225
Cooked, full-fat soybeans	250	200	100	45	70
Limestone	8.50	8.70	9.00	10.00	7.85
Dicalcium phosphate	15.25	9.50	6.00	20.00	21.00
Salt	4.10	3.50	3.20	3.50	4.40
Trace mineral	1.65	1.30	1.00	1.00	1.15
Vitamin pre-mix	1.50	1.00	0.80	2.50	2.60
Total, lb.	1000	1000	1000	1000	1000

Adapted from Life Cycle Swine Nutrition, 1996.

**Table 4. Example diets including dried distillers grains with solubles (DDGS) and cooked, full-fat soybeans for pigs.**

Ingredient, lb.	Growing pig body weight			Sow diets	
	30-80	80-160	>160	Gestation	Lactation
Corn	534	635	770	798	650
Soybean meal, 48% CP	135	71	80	60	238
DDGS	75	100	80	60	25
Cooked, full fat soybeans	225	170	50	45	50
Limestone	8.50	8.70	9.00	10.00	7.85
Dicalcium phosphate	15.25	9.50	6.00	20.00	21.00
Salt	4.10	3.50	3.20	3.50	4.40
Trace mineral	1.65	1.30	1.00	1.00	1.15
Vitamin pre-mix	1.50	1.00	0.80	2.50	2.60
Total, lb.	1000	1000	1000	1000	1000

Adapted from Life Cycle Swine Nutrition, 1996.

**Table 5. Suggested pasture supplement for growing pigs (40-125 lbs).**

Ingredient, lb.	Pasture Type		
	Legume	Grass	Grass-legume
Corn	1486	1423	1450
Soybean meal, 48% CP	464	514	493
Limestone	4	15	10
Dicalcium phosphate	26	28	27
Salt	10	10	10
Trace mineral	5	5	5
Vitamin pre-mix	5	5	5
Total, lb.	2000	2000	2000

Adapted from Pork Industry Handbook 07-06-04, 2007.

**Table 6. Suggested pasture supplement for growing pigs (> 125 lbs).**

Ingredient, lb.	Pasture Type		
	Legume	Grass	Grass-legume
Corn	1600	1538	1566
Soybean meal, 48% CP	346	396	375
Limestone	5	16	10
Dicalcium phosphate	29	30	29
Salt	10	10	10
Trace mineral	5	5	5
Vitamin pre-mix	5	5	5
Total, lb.	2000	2000	2000

Adapted from Pork Industry Handbook 07-06-04, 2007.

**Table 7. Suggested pasture supplement for gestating sows.**

Ingredient, lb.	Legume	Pasture Type	
		Grass	Grass-legume
Corn	1756	1371	1521
Soybean meal, 48% CP	173	525	372
Limestone	0	16	24
Dicalcium phosphate	0	64	59
Monosodium phosphate	47	0	0
Salt	12	12	12
Trace mineral	6	6	6
Vitamin pre-mix	6	6	6
Total, lb.	2000	2000	2000

Adapted from Pork Industry Handbook 07-06-04, 2007.

**Table 8. Example high forage diets for gestating sows.**

Ingredient, lb.	1	2	3	4	5	6
Corn	1201	799	599	1179	266	415
Soybean meal, 48% CP	205	122	80	239	112	68
Limestone	32	14	5	14	5	–
Dicalcium phosphate	–	–	–	50	12	–
Monosodium phosphate	44	47	48	–	–	11
Salt	8	8	8	8	2.4	3
Trace mineral	5	5	5	5	1.2	1.5
Vitamin pre-mix	5	5	5	5	1.2	1.5
Alfalfa hay, ground	500	1000	1250	–	–	–
Grass hay, ground	–	–	–	500	–	–
Corn silage, 45% DM	–	–	–	–	1600	–
Legume haylage, 33% DM	–	–	–	–	–	1500
Total, lb.	2000	2000	2000	2000	2000	2000

Adapted from Pork Industry Handbook 07-06-04, 2007.