



Revised February 1999

Nutrient Specifications and Ingredient Restrictions to be used for the Pennsylvania Game Commission pheasant diets.

1. This is being presented to aid in least cost feed formulation using computers.
2. Typical ingredients may be used such as corn and soybean meal, although listed ingredients must be restricted to levels indicated.
3. Synthetic sources of amino acids can be used.
4. Available phosphorus has been taken as 30% of the total phosphorus from plant sources for growing birds and 50% of the total phosphorus from plant sources for adult birds. Phosphorus from other than plant sources are considered to be 100% available.
5. Good pellet quality is expected, therefore a suitable or approved pellet binder can be used at the option of manufacturer.
6. Fish meals including crab meal alone or in combinations should not exceed a maximum of 10% of the total diet.
7. Meat meals including meat and bone scrap, tankage and poultry by-products meal alone or in combinations should not exceed a maximum of 5% of the total diet.
8. The starter diet shall be fed as mash crumbles or bit pellets; the grower and breeder diets should be fed as pellets. A source of granite grit should be available to the birds.

Ingredient Restrictions	Starter		Grower #1		Grower #2		Breeder	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Ground oats, %	---	10	---	15	---	30	---	10
Ground barley, %	---	10	---	15	---	30	---	10
Ground wheat, %	---	20	---	20	---	20	---	20
Dehydr. alfalfa meals, %	---	2.5	---	7.5	---	10	---	2.5
Stabilized fat, %	---	5.0	---	5.0	---	5.0	---	5.0
Dist. Dr. Gr. & Sol., %	2.5	---	---	---	---	---	2.5	---
Fish & Crab meals, %	---	10	---	10	---	10	---	10
Mold Inhibitor, %	.1	.1	.1	.1	.1	.1	.1	.1
Wheat middlings, %	---	5	---	10	---	15	---	10
Corn gluten feed, %	---	10	---	15	---	15	---	10
Meat meals, %	---	5	---	5	---	5	---	5
Nutrient Specifications								
Weight, %	100	100	100	100	100	100	100	100
Metab. energy kilocal/lb	1250	1300	1275	1325	1275	1325	1250	1300
Crude protein, %	26	---	21	---	16	---	18	---
Crude fat, %	3.5	---	3.0	---	2.5	---	3.5	---
Crude fiber, %	---	4	---	6	---	7	---	4
Arginine, %	1.6	2.1	1.22	1.7	.86	.98	1.05	---
Tryptophane, %	.26	---	.20	---	.13	---	.15	---
Lysine, %	1.7	---	1.00	---	.73	---	.8	---
Methionine, %	.53	---	.45	---	.30	---	.33	---
Meth. + Cystine, %	1.05	---	.80	---	.55	---	.65	---
Isoleucine, %	.9	---	.75	---	.55	---	.65	---
Leucine, %	1.7	---	1.3	---	1.0	---	1.1	---
Threonine, %	1.0	---	.7	---	.5	---	.60	---
Valine, %	1.1	---	.85	---	.6	---	.7	---
Available phosphorus, %	.5	.55	.45	.5	.4	.45	.45	.5
Calcium, %	1.0	1.1	.9	1.0	.8	.9	2.7	2.8
Sodium, %	.18	.18	.18	.18	.18	.18	.19	.19
Choline, mg/lb	700	---	600	---	500	---	600	---
Added vitamins								
Vit. A, IU/lb	4000	---	4000	---	4000	---	4000	---
Vit. D ₃ , ICU/lb	1250	---	1000	---	1000	---	1250	---
Vit. E, IU/lb	7	---	5	---	5	---	15	---
Riboflavin, mg/lb	3	---	2	---	2	---	4	---
Niacin, mg/lb	35	---	28	---	28	---	35	---
Ca Panto., mg/lb	7.5	---	4	---	4	---	7.5	---
Vit. B ₁₂ , mcg/lb	5	---	4	---	4	---	5	---
Vit. K, mg/lb	1	---	1	---	1	---	1	---
Added Trace Minerals								
Manganese, ppm	100	---	100	---	100	---	100	---
Zinc, ppm	65	---	65	---	65	---	65	---
Copper, ppm	5	---	5	---	5	---	5	---
Iodine	1	---	1	---	1	---	1	---
Selenium, ppm	.3	.3	.3	.3	.3	.3	.3	.3