

# Approximate Composition of Some Natural Fertilizer Materials

## *Solid Waste Management Fact Sheet No. 8*

Material	Nitrogen (N) %	Phosphoric Acid (P) %	Potash (K) %
<b>Bulky Organic Materials</b>			
Alfalfa hay	2.5	.5	2.0
Bean straw	1.2	.3	1.2
Crabgrass	.66	.19	.71
Grain straw	.6	.2	1.0
Oak leaves	.80	.35	.15
Peanut hulls	1.5	---	.8
Peat	2.3	.4	.8
Sawdust	.2	---	.2
Seaweed (kelp)	.6	---	1.3
<b>Manures</b>			
Bat guano	10.0	4.5	2.0
Cow manure, dried	1.3	.9	.8
Cow manure, fresh	.5	.2	.5
Hen manure, dried, with litter	2.8	2.8	1.5
Hen manure, fresh	1.1	.9	.5
Horse manure, fresh	.6	.3	.5
Pig manure, fresh	.6	.5	.4
Sheep manure, dried	1.4	1.0	3.0
Sheep manure, fresh	.9	.5	.8
<b>Rock Powders</b>			
Basic slag	---	8-17	---
Greensand (glauconite)	---	1.4	4.0-9.5
Hybro-tite	---	.002	---
Rock phosphate (apatite)	---	38-40	4.5
<b>Vegetative &amp; Animal Materials</b>			
Bonemeal, steamed	2.0	22	---
Castor pomace	6.0	1.9	.5
Cocoa shell meal	2.5	1.5	2.5
Cottonseed meal	6.0	3.0	1.0
Dried blood meal	13.0	1.5	.8
Feathers	15.0	30.0	---
Fish meal	10.0	6.0	---
Fish scrap	5.0	3.0	---
Garbage tannage	1.5	2.0	.7
Hoof & horn meal	12.0	2.0	---
Soybean meal	7.0	1.2	1.5
Tannage, animal	9.0	6.0	---
Tannage, processed	7.0	1.0	.1
Wood ashes	---	1.8	5.0

Prepared by  
Charles W. Marr  
Extension Horticulturist, Vegetable Crops



Cooperative Extension Service  
Kansas State University  
Manhattan, Kansas

EP-8

May 1995

Issued in furtherance of Cooperative Extension Work, acts of May 8 and June 30, 1914, as amended. Kansas State University, County Extension Councils, and United States Department of Agriculture Cooperating, Richard D. Wootton, Associate Director. All educational programs and materials available without discrimination on the basis of race, color, national origin, sex, age, or disability. File Code: