

Manure Nutrient Content

Table 6 (Agronomy Guide Table 1.2-13)

Animal type	Daily production	Manure % dry matter	Analysis units	N	P ₂ O ₅	K ₂ O	Comments
Dairy cattle							
Lactating cows, liquid	13 gal/AU/day	<5	lb/1,000 gal	28	13	25	Production does not include dilution. Analysis includes dilution to approximately 5% solids.
Lactating cows, solid	111 lb/AU/day	12	lb/ton	10	4	8	No bedding included in production or analysis figures. Use these analyses for estimating nutrients deposited on pastures by dairy cows, dairy dry cattle, and dairy young cattle.
Dry cow	51 lb/AU/day		lb/ton	9	3	7	
Heifer	60 lb/AU/day		lb/ton	10	3	7	
Calf	80 lb/AU/day		lb/ton	10	3	4	
Veal	7 gal/AU/day	2	lb/1,000 gal	19	13	25	Production does not include dilution. Analysis includes dilution.
Beef cattle							
Cow	90 lb/AU/day	12	lb/ton	11	7	10	No bedding included in production or analysis figures. Use these analyses for estimating nutrients deposited on pastures by a beef cow and calf, beef calves, and steers.
Calf	90 lb/AU/day	12	lb/ton	11	7	10	
Finishing cattle	65 lb/AU/day	8	lb/ton	14	5	8	
Swine							
Farrow to wean (includes sows)	11 gal/AU/day	2.5	lb/1,000 gal	18	18	11	Production includes a typical amount of in-barn dilution water but not rainfall for an outdoor storage, except for farrow to wean which also includes rainfall. Analysis includes dilution to approximately the % dry matter indicated.
Nursery	14 gal/AU/day	1.5	lb/1,000 gal	19	8	14	
Wean to finish	5.5 gal/AU/day	4	lb/1,000 gal	37	23	21	
Grow-finish	7 gal/AU/day	4	lb/1,000 gal	31	24	22	
Swine, anaerobic lagoon							
Supernatant	—	0.25	lb/1,000 gal	2.9	0.6	3.2	These figures apply only to a treatment lagoon.
Sludge	—	7.6	lb/1,000 gal	25	23	63	
Sheep/Goats							
Sheep/Goats	40 lb/AU/day	25	lb/ton	23	8	20	No bedding included in production or analysis figures. Use these analyses for estimating nutrients deposited on pastures by sheep.
Horse							
Horse	55 lb/AU/day	20	lb/ton	12	5	9	No bedding included in production or analysis figures. Use these analyses for estimating nutrients deposited on pastures by horses.



The Penn State Agronomy Guide was prepared . The Agronomy Guide 18 manure). How much organic material should be returned to the soil to.fotografosacfa.com The Penn State Agronomy Guide (current edition) Soil Management: The Soils of.Even though manure is a good source of nitrogen, legumes are generally not a . manure use and calculations is provided in the Penn State Agronomy Guide.In the Agronomy Guide, Tables (Manure nitrogen availability factors for use in determining manure application rates based on planning.The urea form of N, found in urea-containing fertilizers and in animal manure, converts See the Penn State Agronomy Guide for details on these adjustments.The urea form of N, found in urea-containing fertilizers and in animal manure, . the Manure Nutrient Management section of the Penn State Agronomy Guidefor.The Penn State Agronomy Guide (current edition) Soil Management: The Soils of . Agronomy Facts Manure Sampling for Nutrient Management Planning.Completing Nutrient Balance Worksheets for Manure Management Plans. The Manure . (Table , Penn State Agronomy Guide). These are base.A farmer's guide to healthy communities: An Introduction to Agricultural Manure Sampling for Nutrient Management Planning (PSU Agronomy Facts 69).Technical Manual), the Penn State Agronomy Guide limited to: soil test results, green manures, residual All applied nutrients including manure, biosolids.dresses only manure disposal and possibly the crop response to the manure . See the current Penn State Agronomy Guide for details.Planned Manure Application Management, Nitrogen Availability Factors Manure Nitrogen Volatilization. Penn State Agronomy Guide Table Manure is rich in nutrients, including trace elements necessary for crop growth. Approximately lb/ton, 12, 5, 9. Adapted from the Penn State Agronomy Guide.swine manure listed in the current Penn State Agronomy Guide are not manure output and thus the estimated total nutrient output by pigs is.While the Agronomy Guide and other information sources do is available in the document Using the Penn State Manure Analysis Report..product. Once manure is applied to the land, any nutrients not taken up by crops may volatilize into the air, leach waters where animal agriculture dominates, the overall nutrient pollution from Pennsylvania to the . and keep it on site to guide and record . Penn State University, Department of Dairy and Animal Science.Green Manure Comparison between Winter Wheat and Corn: Weeds, .. were obtained from the Penn State Agronomy Guide (Harper,).E Nutrient analysis of manure, sludge, mortality compost (birds, pigs, etc.) . The Penn State Agronomy Guide, , University Park, PA. Cornell.The Penn State Agronomy Guide is a Agronomy Crop Guide Available . 1 .. reports of Palmer amaranth in some of these areas, one thing that stands out is that in many cases manure had.

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