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Manure Production Rates (8-18)

Manure Type	Description	lbs. manure/ AU/day	Cu. ft. manure/ AU/day
	lactating cow ⁴		· · · · ·
Dairy	12,500 lbs milk/yr	81	1.3
	15,000 lbs milk/yr	88	1.4
	17,500 lbs milk/yr	94	1.5
	20,000 lbs milk/yr	100	1.6
	22,500 lbs milk/yr	106	1.7
	25,000 lbs milk/yr	113	1.8
	27,500 lbs milk/yr	119	1.9
	dry cow heifer	82 85	1.3
	bull ²	70	<u>1.3</u> 1.1
<u> </u>	Veal	60	0.96
Beef	feeder yearling (750 - 1100 lbs.) - high forage diet feeder yearling (750 - 1100 lbs.) - high energy diet	59 51	0.95 0.82
	calf (450 - 750 lbs.)	58	0.82
	cow	63	1.00
	bull	63	1.00
	grower (up to 250 lbs.)	63	1.00
Swine	replacement gilt	33	0.53
	sow - gestation	27	0.44
	sow - gestation		
	boar	60 21	0.96 0.33
	nursing / nursery pig (0 - 65 lbs.)	65	1.03
			1.00
Poultry (Free Range) ⁶	broiler ⁷	57 61	
	layers	-	
	turkeys	44	
	ducks ³ & geese ¹	55	
Small Ruminants	sheep and goats	40	0.63
<i>Equus</i> spp.	horses, mules ² , donkeys ² , zebras ²	50	0.80
	llamas, alpacas, camels, yaks ²	40	
Exotic Mammals	bison, water buffalo ²	60	
	rabbit ⁵	150	
	kangaroos ¹	40	
	monkeys ¹	33	
	-		
Exotic Birds ¹	emu (breeding stock)	50	
	emu (young, growing birds)	40	
	ostrich	25	
	quail	80	
	guinea fowl, pheasants & peacocks	44	

Estimates are from the USDA/NRCS, *Agricultural Waste Management Field Handbook* unless otherwise indicated ¹Dr. Rosalina Angel and ²Dr. Richard Kohn (UMCP Animal and Avian Science); ³*Manure Characteristics*, MWPS-18; ⁴USDA-NRCS Animal Waste Management Software Program; ⁵William Lantz, Garrett Community College; ⁶not appropriate for integrated poultry production⁷ Updated ASABE Standard Manure Excretion Standard (2006)