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Recordkeeping System for Crop Production – Manure Management Sheets

Cooperative Extension Service

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Recordkeeping System for Crop Production

Manure Management Sheets



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This is one component of a paper Recordkeeping System for Crop Production. The total system includes Annual Record Books (*E-2341, pocket-size* and *E-2342, full-size*), Field File Folders (*E-2343*), Manure Management Sheets (*E-2344, 4 sheets*), and Enhanced Recordkeeping Sheets (*E-2345, 3 sheets*). The MSU bulletin, "Recordkeeping System for Crop Production," (*E-2340*) explains the use of the system.

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Manure Management Sheet #1

Nutrient Budget for a Livestock Farm

Part A. Estimate of the Annual Manure Nutrient Production

Enter the average number of livestock in each of the categories below. Multiply those numbers by the appropriate multiplication factors. Total the results to get the minimum volume of manure and the minimum amount of nutrients produced per year on the facility. If bedding, runoff water, feed or other substances enter the manure storage facility, the total volume of manure and pounds of nutrients will change.

Livestock Type	Average Size		Average Number of Livestock Housed Annually *	Manure Production		Pounds of Nutrients Produced per Year					
						Nitrogen (N)		Phosphate (P ₂ O ₅)		Potash (K ₂ O)	
						cubic feet of manure per year per animal **	total volume produced annually	lbs per year per animal **	total produced annually	lbs per year per animal **	total produced annually
Dairy Cattle		150 lb		x 69 =		x 22 =		x 8.4=		x 18 =	
		250 lb		x 120 =		x 36 =		x 16 =		x 31 =	
		500 lb		x 240 =		x 73 =		x 30 =		x 62 =	
		1,000 lb		x 480 =		x 150 =		x 61 =		x 120 =	
		1,400 lb		x 680 =		x 210 =		x 85 =		x 170 =	
Beef Cattle		500 lb		x 180 =		x 62 =		x 46 =		x 53 =	
		750 lb		x 270 =		x 95 =		x 70 =		x 84 =	
		1,000 lb		x 360 =		x 120 =		x 91 =		x 110 =	
		1,250 lb		x 440 =		x 160 =		x 120 =		x 140 =	
		Beef Cow		x 380 =		x 130 =		x 100 =		x 110 =	
Swine		Nursery Pig 35 lb		x 14 =		x 5.8=		x 4.3=		x 4.4=	
		Growing Pig 65 lb		x 26 =		x 11 =		x 8.1=		x 8.8=	
		Finishing Pig 150 lb		x 58 =		x 25 =		x 18 =		x 20 =	
		Finishing Pig 200 lb		x 80 =		x 33 =		x 25 =		x 26 =	
		Gestating Sow 275 lb		x 55 =		x 23 =		x 18 =		x 18 =	
		Sow and Litter 375 lb		x 200 =		x 84 =		x 63 =		x 66 =	
		Boar 350 lb		x 69 =		x 28 =		x 22 =		x 22 =	
Sheep		100 lb		x 23 =		x 16 =		x 5.5=		x 14 =	
Horse		1,000 lb		x 270 =		x 99 =		x 38 =		x 75 =	
Poultry (per 100 birds)											
	Turkey	16 lb		x 510 =		x 420 =		x 360 =		x 200 =	
	Chicken Layers	4 lb		x 130 =		x 110 =		x 91 =		x 51 =	
	Chicken Broilers	2 lb		x 88 =		x 88 =		x 45 =		x 33 =	
Totals:											

* Average number of livestock housed on the farm during 12 months. If animals are not housed for the full 12-month period, multiply the number of animals times the number of months the animals are housed on the farm, then divide by 12 to get the "Average Number of Livestock Housed Annually".

** Numbers adapted from MWPS-18, "Livestock Waste Facilities Handbook," 2nd Ed., 1985.