

Feed Ration Estimates of Annual P2O5 Generated

Spreadsheet to calculate annual P2O5 from rations can be found at www.maeap.org

Worksheet 1. Total manure nutrients excreted by a livestock operation based on feed rations

High Group

This worksheet only considers feed intake and not feed disappearance. If excess feed ends up in the manure, then the amount of excess feed and its nutrients should be added to the nutrient excreted values for an accurate estimation.

In Section I, enter data in either A1 or A2, but not both. A1 is per animal, A2 is total for animal group.

I. Feed Nutrient Intake

Animal Group	A1. Daily Feed Intake (lbs DM/d/an)	A2. Daily Feed Intake (lbs DM/day)	B. Feed Nutrient Concentration	C. Total Nutrient in Feed (lbs) = A1 x B x D or =A2 x B
Beef				0.000
Dairy	62		0.0043	59.985
Pork				0.000
Hens				0.000
Broilers				0.000
Turkeys				0.000

II. Nutrients Retained

a. Animal

Animal Group	D. Number of Animals	E. Average Daily Gain	F. Live Weight Nutrient Concentration P	G. Nutrients Retained by animal (lbs) = D x E x F
Beef			0.0070	0
Dairy	225		0.0070	0
Pork			0.0057	0
Hens			0.0060	0
Broilers			0.0060	0
Turkeys			0.0060	0

b. Animal Products

Animal Product	H. Production per animal (lb/d)	I. Animal Products Nutrient Concentration	J. Nutrients Retained by Animal Products (lbs) = H x I
Milk	90	0.0009	18.225
Eggs		0.0021	0

III. Nutrients Excreted

Animal Group	K. Days Fed per year	L. Animal Nutrient Excreted (Elemental P) = K x (C-G) or = K x (C-J)	
		P	P ₂ O ₅ = P * 2.29
Beef		-	-
Dairy	365	15,242	34,905
Pork		-	-
Hens		-	-
Broilers		-	-
Turkeys		-	-
Total		15,242	34,905

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Worksheet 1. Total manure nutrients excreted by a livestock operation based on feed rations

Low Group

This worksheet only considers feed intake and not feed disappearance. If excess feed ends up in the manure, then the amount of excess feed and its nutrients should be added to the nutrient excreted values for an accurate estimation.

In Section I, enter data in either A1 or A2, but not both. A1 is per animal, A2 is total for animal group.

I. Feed Nutrient Intake

Animal Group	A1. Daily Feed Intake (lbs DM/d/an)	A2. Daily Feed Intake (lbs DM/day)	B. Feed Nutrient Concentration	C. Total Nutrient in Feed (lbs) = A1 x B x D or =A2 x B
Beef				0.000
Dairy	50		0.0039	27.885
Pork				0.000
Hens				0.000
Broilers				0.000
Turkeys				0.000

II. Nutrients Retained

a. Animal

Animal Group	D. Number of Animals	E. Average Daily Gain	F. Live Weight Nutrient Concentration	G. Nutrients Retained by animal (lbs) = D x E x F
			P	
Beef			0.0070	0
Dairy	143		0.0070	0
Pork			0.0057	0
Hens			0.0060	0
Broilers			0.0060	0
Turkeys			0.0060	0

b. Animal Products

Animal Product	H. Production per animal (lb/d)	I. Animal Products Nutrient Concentration	J. Nutrients Retained by Animal Products (lbs) = H x I
Milk	55	0.0009	7.0785
Eggs		0.0021	0

III. Nutrients Excreted

Animal Group	K. Days Fed per year	L. Animal Nutrient Excreted (Elemental P) = K x (C-G) or = K x (C-J)	
		P	P2O5 = P * 2.29
Beef		-	-
Dairy	365	7,594	17,391
Pork		-	-
Hens		-	-
Broilers		-	-
Turkeys		-	-
Total		7,594	17,391

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Worksheet 1. Total manure nutrients excreted by a livestock operation based on feed rations

Hi-Fresh Group

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In Section I, enter data in either A1 or A2, but not both. A1 is per animal, A2 is total for animal group.

I. Feed Nutrient Intake

Animal Group	A1. Daily Feed Intake (lbs DM/d/an)	A2. Daily Feed Intake (lbs DM/day)	B. Feed Nutrient Concentration	C. Total Nutrient in Feed (lbs) = A1 x B x D or =A2 x B
Beef				0.000
Dairy	55		0.0041	15.785
Pork				0.000
Hens				0.000
Broilers				0.000
Turkeys				0.000

II. Nutrients Retained

a. Animal

Animal Group	D. Number of Animals	E. Average Daily Gain	F. Live Weight Nutrient Concentration P	G. Nutrients Retained by animal (lbs) = D x E x F
Beef			0.0070	0
Dairy	70		0.0070	0
Pork			0.0057	0
Hens			0.0060	0
Broilers			0.0060	0
Turkeys			0.0060	0

b. Animal Products

Animal Product	H. Production per animal (lb/d)	I. Animal Products Nutrient Concentration	J. Nutrients Retained by Animal Products (lbs) = H x I
Milk	80	0.0009	5.04
Eggs		0.0021	0

III. Nutrients Excreted

Animal Group	K. Days Fed per year	L. Animal Nutrient Excreted (Elemental P) = K x (C-G) or = K x (C-J)	
		P	P ₂ O ₅ = P * 2.29
Beef		-	-
Dairy	365	3,922	8,981
Pork		-	-
Hens		-	-
Broilers		-	-
Turkeys		-	-
Total		3,922	8,981

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Worksheet 1. Total manure nutrients excreted by a livestock operation based on feed rations

Dry Cow Group

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I. Feed Nutrient Intake

Animal Group	A1. Daily Feed Intake (lbs DM/d/an)	A2. Daily Feed Intake (lbs DM/day)	B. Feed Nutrient Concentration	C. Total Nutrient in Feed (lbs) = A1 x B x D or =A2 x B
Beef				0.000
Dairy	28		0.0028	6.037
Pork				0.000
Hens				0.000
Broilers				0.000
Turkeys				0.000

II. Nutrients Retained

a. Animal

Animal Group	D. Number of Animals	E. Average Daily Gain	F. Live Weight Nutrient Concentration P	G. Nutrients Retained by animal (lbs) = D x E x F
Beef			0.0070	0
Dairy	77		0.0070	0
Pork			0.0057	0
Hens			0.0060	0
Broilers			0.0060	0
Turkeys			0.0060	0

b. Animal Products

Animal Product	H. Production per animal (lb/d)	I. Animal Products Nutrient Concentration	J. Nutrients Retained by Animal Products (lbs) = H x I
Milk		0.0009	0
Eggs		0.0021	0

III. Nutrients Excreted

Animal Group	K. Days Fed per year	L. Animal Nutrient Excreted (Elemental P) = K x (C-G) or = K x (C-J)	
		P	P2O5 = P * 2.29
Beef		-	-
Dairy	365	2,203	5,046
Pork		-	-
Hens		-	-
Broilers		-	-
Turkeys		-	-
Total		2,203	5,046

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