Worksheet I - "How Far Can You Afford to Haul Manure?"

1. Calculate the nutrient content and value per unit of your manure.
   A "unit" is either a 1000 gallons (liquid/slurry) or a ton (solid/semi-solid).

From Manure Analysis	Manure Type: (lbs/unit)		Availability Factor*		Available Nutrients (lbs/unit)		Fertilizer Equivilant Value** ($/lb)		Value Per Unit ($/unit)
Ammonia-N		x		=		x		=	
Organic-N		x		=		x		=	
P_2O_5		O-3.3379.4524 0 TD -.0001 Tc (3.04)Tj /TT4 1 Tf -43.7619 -1.2852 TD 0 Tc (P)Tj 6 0 0 6 8							

Worksheet II - Calculating Fertilizer Nutrient Value

1. Calculate the value of nitrogen (N) per pound using urea

Urea analysis: 46-0-0 (920 lbs N per ton)

Fertilizer Cost ($/ton)		lbs N per ton		N Value ($/lb)
	÷	920	=	

EXAMPLE

Fertilizer Cost ($/ton)		lbs N per ton		N Value ($/lb)
$600	÷	920	=	*$0.65*

2. Calculate the value of phosphate (P_2O_5) per pound using MAP

MAP analysis: 12-52-0 (240 lbs N and 1040 lbs of P_2O_5 per ton)

Fertilizer Cost ($/ton)		lbs N per ton		N Value (Step 1.) ($/lb)		Value of P2O5 per ton		lbs P_2O_5 per ton		P_2O_5 Value ($/lb)
	- (	240	x		) =		÷	1040	=	

EXAMPLE

Fertilizer Cost ($/ton)		lbs N per ton		N Value (Step 1.) ($/lb)		Value of P2O5 per ton		lbs P2O5 per ton		P2O5 Value ($/lb)
$800	- (	240	x	*$0.65*	) =	*$643*	÷	1040	=	*$0.62*

3. Calculate the value of potash (K2O) per pound using muriate of potash

Muriate of Potash analysis: 0-0-60 (1200 lbs K2O per ton)

Fertilizer Cost ($/ton)		lbs K2O per ton		K2O Value ($/lb)
	÷	1200	=	

EXAMPLE

Fertilizer Cost ($/ton)		lbs K2O per ton		K2O Value ($/lb)
$600	÷	1200	=	*$0.50*

Organic-N Availability*

Percent Dry Matter of Manure	(In First Year) Soil Drainage Class	Availability Factor
< 20%	Well Drained - tilled in	0.36
< 20%	Poorly drain - tilled in	0.24
< 20%	Well Dr. - surface appl	0.24
< 20%	Prly. Dr. - surface appl	0.16
> 20%	Well Drained - tilled in	0.30
> 20%	Poorly drain - tilled in	0.20
> 20%	Well Dr. - surface appl	0.20
> 20%	Prly. Dr. - surface appl	0.14

* Source: Nutrient Recommendations for Field Crops in Vermont (W. Jokela), Un. of Vermont

Ammonia-N (NH4-N) Availability*

Season of Spreading	Days From Spreading To Incorporation	Availability Factor
Spring	< 1 hr	0.80
Spring	1 to 8 hrs.	0.70
Spring	1 day	0.55
Spring	2 days	0.50
Spring	3 to 4 days	0.45
Spring	> 4 days	0.40
Spring	Unincorporated	0.40
Fall	Within 2 days	0.30
Fall	Unincorporated	0.15

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