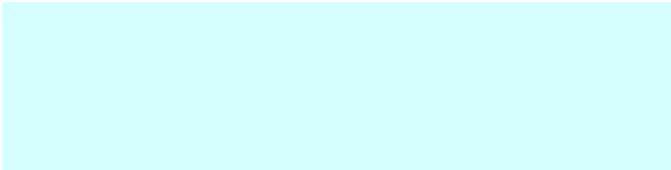
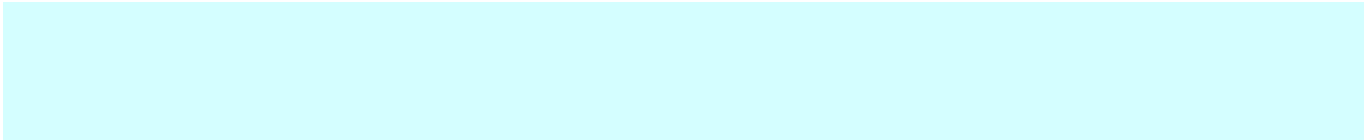
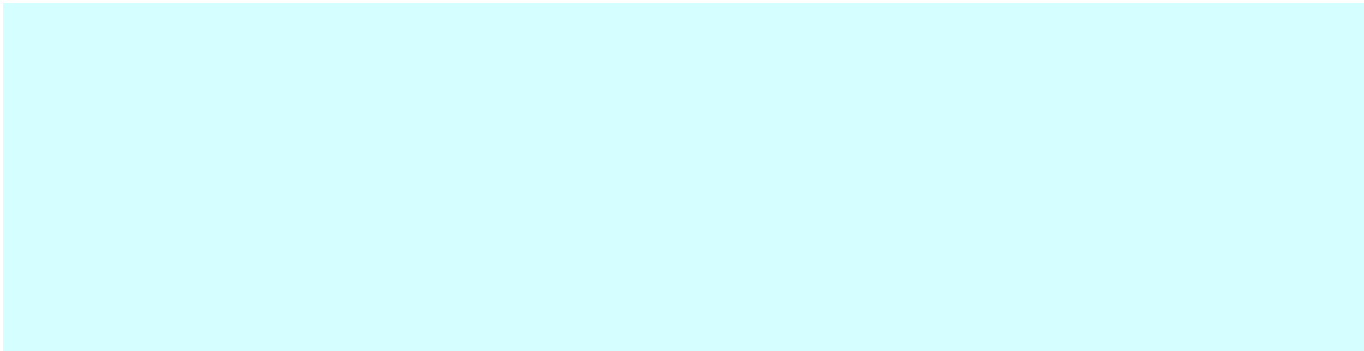


Worksheet I - "How Far Can You Afford to Haul Manure?"

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)	x	Fertilizer Equivalent Value** (\$/lb)	=	Value Per Unit (\$/unit)
Ammonia-N		x	=		x		=	
Organic-N		x	=		x		=	
P ₂ O 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			EXAMPLE		
Cost (\$/ton)	lbs N per ton	N Value (\$/lb)	Fertilizer Cost (\$/ton)	lbs N per ton	N Value (\$/lb)
[]	920	= []	\$600	920	= \$0.65

2. Calculate the value of phosphate (P₂O₅) per pound using MAP

MAP analysis: 12-52-0 (240 lbs N and 1040 lbs of P₂O₅ per ton)

Fertilizer Cost (\$/ton)	lbs N per ton	N Value (Step 1.) (\$/lb)	Value of P2O5 per ton	lbs P ₂ O ₅ per ton	P ₂ O 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 P ₂ O ₅ 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			EXAMPLE		
Cost (\$/ton)	lbs K ₂ O per ton	K ₂ O Value (\$/lb)	Fertilizer Cost (\$/ton)	lbs K ₂ O per ton	K ₂ O Value (\$/lb)
[]	1200	= []	\$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%	Prlly. 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%	Prlly. 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	
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	