Walnutdale Dairy Manure Application Calibration Worksheet

Truck/Tanker Id		4 Axle	2 Axle						
Date of review		7/21/2011	7/21/2011						
Spec Capacity	gallons	7,000	7,000						Estimated Density
Calulated Capacity	gallons	6,144	6,144	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	9 lbs/gallon
Empty Weight	lbs	37,280							
Loaded Weight	lbs	92,580							
Weight of Manure	lbs (est 9#/gal)	55,300	0	0	0	0	0	0	
Spreader Speed	mph	7	5						Measured on site
Truck RPMs	RPM	1,800	1,100						Measured on site
Spread Path/Load									
Width	feet	35	22						
Length	feet	3,510	1,755						Width or Knife to knife + space between passes
Spread Area/Load									
	square feet	122,850	38,610	0	0	0	0	0	Multiply length by width
	acres	2.82	0.89	0.00	0.00	0.00	0.00	0.00	Convert square feet to acres
	gallons/acre	**2,179**	**6,932**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	1 Acre = 43560 square feet
Manure Test									
Manure Source		Catch Basin	Catch Basin						
Organic N	lbs/1000gallons	0.5	0.5						Bring in data from Liquid manure table
Ammonia N	lbs/1000gallons	0.3	0.3						
Average P205	lbs/1000gallons	1.1	1.1						
		Current Aplication Rate Nutrient Values							
Volume	gallons/acre	2,179	6,932	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Divide actual tank size by spread area acres
Nitrogen Surface	lbsN/acre (yr 1)	0.71	2.25	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Nitrogen Inject	lbsN/acre (yr 1)	1.20	3.81	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	lbsP2O5/acre	2.40	7.62	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Crop Removal Rates	Yield Goal								
Next Corn Silage	17	tons/acre							
N for next year	lbs/acre	159.8	159.8	159.8	159.8	159.8	159.8	159.8	
Time to remove N (SA)	years	0.00	0.01	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Time to remove N (Inj)	years	0.01	0.02	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
P2O5 used next year	lbs/acre	56.10	56.10	56.10	56.10	56.10	56.10	56.10	
Time to remove P2O5	years	0.04	0.14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	Yield Goal								
Next Crop Wheat	75	bu/acre							
N for next year	lbs/acre	78.75	78.75	78.75	78.75	78.75	78.75	78.75	
Time to remove N (SA)	years	0.01	0.03	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Time to remove N (Inj)	years	0.02	0.05	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
P2O5 used next year	lbs/acre	52.2	52.2	52.2	52.2	52.2	52.2	52.2	
Time to remove P2O5	years	0.05	0.15	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	Yield Goal								
next crop corn grain	150	bu/acre							
N for next year	lbs/acre	165	165	165	165	165	165	165	
Time to remove N (SA)	years	0.00	0.01	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Time to remove N (Inj)	years	0.01	0.02	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
P2O5 used next year	lbs/acre	55.50	55.50	55.50	55.50	55.50	55.50	55.50	
Time to remove P2O5	years	0.04	0.14	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

	Yield Goal							
next crop alfalfa hay	15	wet tons/acre						
N for next year	lbs/acre	NA	NA	NA	NA	NA	NA	NA
Time to remove N	years	NA	NA	NA	NA	NA	NA	NA
P2O5 used next year	lbs/acre	61.50	61.50	61.50	61.50	61.50	61.50	61.50
Time to remove P2O5	years	0.04	0.12	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Yield Goal							
next crop soybean	45	bu/acre						
N for next year	lbs/acre	NA	NA	NA	NA	NA	NA	NA
Time to remove N	years	NA	NA	NA	NA	NA	NA	NA
P2O5 used next year	lbs/acre	36.00	36.00	36.00	36.00	36.00	36.00	36.00
Time to remove P2O5	years	0.07	0.21	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!