Varel Dairy, Inc.
Fertilizer Nutrient Budget

Crop Year **2012**

Soil Type		Buildup Target	
Soil Classification for Lime			C
P Supply	Low	P	50
K Supply	Low	K	260

Field	Previous	Current Crop		Maintenance Nutritent Needs			Soil Test Lbs/A			Carryover Nutrients Available from Previous Applications				Buildup Needs		Manure Nutrients Applied			Previous Crop	Commercial Fertilizer Recommendation [A]				Nutrients Available for Future Crops				
										Mineralized N														Mineralized N				
Name	Crop	Crop	Yield Goal	N	P_2O_5	K_2O	pH	P1	K	2010	2011	P_2O_5	K_2O	P_2O_5	K_2O	N	P_2O_5	K_2O	N Credits	Lime	N	P_2O_5	K_2O	2013	2014	2015	P_2O_5	K_2O
1	Corn Silage	Corn Silage	25	150	66	175	0.0	0	0	0	0	0	0	0	0				0	0.0	150	66	175				0	0
2	Corn Silage	Corn Silage	25	150	66	175	7.1	324	1022	0	0	0	0	0	0				0	0.0	150	0	0				0	0
4	Corn Silage	Corn Silage	25	150	66	175	0.0	0	0	0	18	22	0	0	0				0	0.0	132	45	175				0	0
5	Corn Silage	Corn Silage	25	150	66	175	8.1	341	1757	0	14	0	0	0	0				0	0.0	136	0	0				0	0
7	Corn Silage	Corn Silage	25	150	66	175	6.9	158	421	7	0	10	0	0	0				0	0.0	143	0	0				0	0
8	Corn Silage	Corn Silage	25	150	66	175	6.9	121	302	0	14	76	55	0	0				0	0.0	136	0	120				10	0
9	Corn Silage	Corn Silage	25	150	66	175	6.8	82	163	0	18	22	0	0	194				0	0.0	132	0	240				0	0
11	Corn Silage	Corn Silage	25	150	66	175	7.4	104	273	9	0	0	0	0	0	141	82	165	0	0.0	0	0	10	17	9	4	16	0
15	Corn Silage	Corn Silage	25	150	66	175	7.2	123	425	0	14	71	0	0	0				0	0.0	136	0	0				5	0
16	Corn Silage	Corn Silage	25	150	66	175	0.0	0	0	7	0	5	0	0	0	143	130	103	0	0.0	0	0	72	14	7	3	68	0
17	Corn Grain	Soybeans	43	0	37	56	0.0	0	0	0	12	58	153	0	0				0	0.0	0	0	0				22	97
18	Soybeans	Corn Grain	149	179	64	42	0.0	0	0	7	0	23	0	0	0	132	120	95	40	0.0	0	0	0	13	6	3	79	53
19	Soybeans	Corn Grain	144	173	62	40	0.0	0	0	0	0	0	0	0	0				40	0.0	133	62	40				0	0
20	Soybeans	Corn Grain	138	166	59	39	0.0	0	0	0	0	0	0	0	0				40	0.0	126	59	39				0	0
21	Soybeans	Corn Grain	128	154	55	36	0.0	0	0	0	0	0	0	0	0	114	104	82	40	0.0	0	0	0	11	5	3	49	46
22	Soybeans	Corn Grain	146	175	63	41	0.0	0	0	0	0	0	0	0	0	135	123	98	40	0.0	0	0	0	13	6	3	60	57
23	Soybeans	Corn Grain	129	155	55	36	0.0	0	0	0	0	0	0	0	0				40	0.0	115	55	36				0	0
24	Soybeans	Corn Grain	126	151	54	35	0.0	0	0	0	14	110	183	0	0				40	0.0	97	0	0				56	147
25	Corn Grain	Soybeans	41	0	35	53	0.0	0	0	0	11	51	136	0	0				0	0.0	0	0	0				17	83
26	Corn Grain	Soybeans	42	0	36	55	0.0	0	0	0	11	55	143	0	0				0	0.0	0	0	0				19	89
27	Corn Grain	Soybeans	41	0	35	53	0.0	0	0	0	11	51	136	0	0				0	0.0	0	0	0				17	83
28	Soybeans	Corn Grain	142	170	61	40	0.0	0	0	0	16	124	205	0	0				40	0.0	114	0	0				63	165
29	Soybeans	Corn Grain	138	166	59	39	0.0	0	0	0	16	121	201	0	0				40	0.0	110	0	0				61	162
30	Soybeans	Corn Grain	136	163	58	38	0.0	0	0	6	0	19	92	0	0				40	0.0	117	39	0				0	54
31	Soybeans	Corn Grain	144	173	62	40	0.0	0	0	8	0	50	19	0	0	125	118	192	40	0.0	0	0	0	12	6	3	106	170
32	Soybeans	Corn Grain	141	169	61	39	0.0	0	0	6	0	22	99	0	0				40	0.0	123	38	0				0	59
33	Soybeans	Corn Grain	132	158	57	37	0.0	0	0	6	0	19	89	0	0				40	0.0	112	38	0				0	52
34	Soybeans	Corn Grain	144	173	62	40	0.0	0	0	6	0	24	104	0	0	127	120	195	40	0.0	0	0	0	12	6	3	82	259
35	Soybeans	Corn Grain	143	172	61	40	0.0	0	0	0	0	0	0	0	0	132	124	202	40	0.0	0	0	0	12	6	3	63	162
36	Soybeans	Corn Grain	149	179	64	42	0.0	0	0	0	0	0	0	0	0	139	131	213	40	0.0	0	0	0	13	6	3	67	171

Footnotes: A - Buildup application is spread out over four fertilizer applications for P_2O_5 and K_2O and one application for Lime being built to 6.5 pH.

No phosphorus will be applied if P1 values are higher than 60, 65, and 70 for soils in the high, medium, and low phosphorus supplying regions, respectively.

No potassium will be applied if K values are higher than 360 and 400 for the low and high cation-exchange capacity regions, respectively.