

Car-Mer Dairy
Supplemental Nutrients
Crop Year 2011

Recommended Supplemental Nutrients if No Manure is Applied

Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
Oldenburg	65.7	Silage	20	80	0	0	140	0
Oldenburg South	23.8	Silage	20	120	0	0	140	24
Dairy Farm A	63	Alfalfa	10	0	0	0	500	8
Dairy Farm B	29.9	Alfalfa	10	0	0	0	500	8
Bradshaw A	101.4	Alfalfa	10	0	120	0	500	71
Bradshaw B	43.5	Corn	180	216	77	0	50	71
Liebfried	35.3	Corn	180	176	77	0	50	71
Joe Spangloli A	71.3	Corn	160	192	0	0	45	52
Joe Spangloli B	71.3	Alfalfa	10	0	0	0	500	52
Roger Peterson A	41	Beans	55	165	0	0	0	0
Roger Peterson B	55.2	Corn	190	188	0	0	0	0
Furlong Trust A	36.9	Beans	55	165	47	27	72	59
Furlong Trust B	11.1	Corn	190	188	82	27	53	59
Glassons A	40.1	Alfalfa	10	-40	120	2	500	128
Glassons B	22	Corn	180	216	77	2	50	128
Speaker A	28.2	Silage	20	120	0	0	140	2
Speaker B	55.4	Alfalfa	10	0	0	0	500	2

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Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
Oldenburg	65.7	Beans	55	165	0	0	72	0
Oldenburg South	23.8	Alfalfa	10	0	0	0	500	24
Dairy Farm A	63	Alfalfa	10	0	0	0	500	8
Dairy Farm B	29.9	Alfalfa	10	0	0	0	500	8
Bradshaw A	101.4	Corn	180	216	77	0	50	71
Bradshaw B	43.5	Corn	180	216	77	0	50	71
Liebfried	35.3	Beans	55	165	47	0	72	71
Joe Spangloli A	71.3	Corn	160	192	0	0	45	52
Joe Spangloli B	71.3	Alfalfa	10	0	0	0	500	52
Roger Peterson A	41	Corn	190	188	0	0	0	0
Roger Peterson B	55.2	Beans	55	165	0	0	0	0
Furlong Trust A	36.9	Corn	190	188	82	27	53	59
Furlong Trust B	11.1	Beans	55	165	47	27	72	59
Glassons A	40.1	Alfalfa	10	0	120	2	500	128
Glassons B	22	Beans	55	165	47	2	72	128
Speaker A	28.2	Silage	20	120	0	0	140	2
Speaker B	55.4	Alfalfa	10	0	0	0	500	2

Crop Year 2013

Recommended Supplemental Nutrients if No Manure is Applied

Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
Oldenburg	65.7	Silage	20	80	0	0	140	0
Oldenburg South	23.8	Alfalfa	10	0	0	0	500	24
Dairy Farm A	63	Alfalfa	10	0	0	0	500	8
Dairy Farm B	29.9	Silage	20	120	0	0	140	8
Bradshaw A	101.4	Corn	180	216	77	0	50	71
Bradshaw B	43.5	Alfalfa	10	0	120	0	500	71
Liebfried	35.3	Corn	180	176	77	0	50	71
Joe Spangloli A	71.3	Alfalfa	10	0	0	0	500	52
Joe Spangloli B	71.3	Alfalfa	0	0	0	0	500	52
Roger Peterson A	41	Beans	55	165	0	0	0	0
Roger Peterson B	55.2	Corn	190	188	0	0	0	0
Furlong Trust A	36.9	Beans	55	165	47	27	72	59
Furlong Trust B	11.1	Corn	190	188	82	27	53	59
Glassons A	40.1	Alfalfa	10	0	120	2	500	128
Glassons B	22	Alfalfa	10	-40	120	2	500	128
Speaker A	28.2	Alfalfa	10	0	0	0	500	2
Speaker B	55.4	Alfalfa	10	0	0	0	500	2

Crop Year 2014

Recommended Supplemental Nutrients if No Manure is Applied

Field Name	Acres	Crop	Yield	lbs N/ac	lbs P2O5 for Maintenance	lbs P2O5 for Buildup *	lbs K2O for Maintenance	lbs K2O for Buildup **
Oldenburg	65.7	Beans	55	165	0	0	72	0
Oldenburg South	23.8	Alfalfa	10	0	0	0	500	24
Dairy Farm A	63	Silage	20	120	0	0	140	8
Dairy Farm B	29.9	Silage	20	120	0	0	140	8
Bradshaw A	101.4	Alfalfa	10	0	120	0	500	71
Bradshaw B	43.5	Alfalfa	10	0	120	0	500	71
Liebfried	35.3	Beans	55	165	47	0	72	71
Joe Spangloli A	71.3	Alfalfa	10	0	0	0	500	52
Joe Spangloli B	71.3	Corn	160	192	0	0	45	52
Roger Peterson A	41	Corn	190	188	0	0	0	0
Roger Peterson B	55.2	Beans	55	165	0	0	0	0
Furlong Trust A	36.9	Corn	190	188	82	27	53	59
Furlong Trust B	11.1	Beans	55	165	47	27	72	59
Glassons A	40.1	Corn	180	216	77	2	50	128
Glassons B	22	Alfalfa	10	0	120	2	500	128
Speaker A	28.2	Alfalfa	10	0	0	0	500	2
Speaker B	55.4	Silage	20	120	0	0	140	2

* Buildup is based on buildup applications applied over a 4 year period. So, buildup = $(9(\text{Desired soil test} - \text{Actual soil test}))/4$

** Buildup is based on buildup applications applied over a 4 year period. So, buildup = $(4(\text{Desired soil test} - \text{Actual soil test}))/4$

Projected Soil P & K Levels
Car-Mer Dairy

Field Name	Acres	Current Soil Test		Change in Test		Projected Soil Test		Time to Reach 300 lbs/ac
		P	K	P	K	P	K	
Oldenburg	65.7	104	328	2	-42	106	286	521
Oldenburg South	23.8	92	236	-37	-385	55	-149	-23
Dairy Farm A	63	166	252	-26	-357	140	-105	-21
Dairy Farm B	29.9	166	252	-22	-278	144	-26	-24
Bradshaw A	101.4	47	189	9	-134	56	55	108
Bradshaw B	43.5	47.4	188.6	-2	-163	46	25	-638
Liebfried	35.3	55.6	188.6	13	47	68	235	76
Joe Spangloli A	71.3	72	208	-3	-169	69	39	-316
Joe Spangloli B	71.3	72	208	-22	-317	50	-109	-42
Roger Peterson A	41			0	0			
Roger Peterson B	55.2			0	0			
Furlong Trust A	36.9	33.2	200.8	10	40	43	241	107
Furlong Trust B	11.1	33	200.8	13	46	46	247	85
Glassons A	40.1	44	132	-9	-282	35	-150	-116
Glassons B	22	44	132	-5	-186	39	-54	-222
Speaker A	28.2	124	258	-12	-251	112	7	-58
Speaker B	55.4	124	258	-13	-323	111	-65	-55

Change in Soil Test = Crop uptake for 2007-2010 - Nutrients applied to field for 2007-2010 in manure
 9 lbs P required to change soil test 1 lb
 4 lbs K required to change soil test 1 lb

Projected levels are based on planned crop rotations and planned manure applications.