

**Projected Soil P & K Levels  
Birchen Farms INC.**

Field Name	Acres	Current Soil Test		Change in Test		Projected Soil Test		Time to Reach 300 lbs/ac
		P	K	P	K	P	K	
Asche	76.62	59	229	-6	-67	53	162	-168
Church	42.43	84	423	-8	-97	76	326	-108
Dairy	162.75	--	--	0	-159	--	--	--
Hasken	11.07	0	0	-28	-302	-28	-302	-43
Hershey	66.87	26	306	-19	-208	7	98	-58
Huttenlocher	67.49	82	334	2	-55	84	279	521
Musser North	60.99	128	593	-15	-115	113	478	-46
Musser Middle	75.15	86	479	-11	-150	75	329	-81
Musser South	60.15	55	267	-5	-74	50	193	-178
Rod's Home East	36	142	468	-6	-67	136	401	-110
Rod's Home West	16	142	468	12	28	154	496	53
Rod's North of Creek	48.39	142	468	-6	-69	136	399	-105
Shester	97.24	20	343	-21	-218	-1	125	-53
Schleuning	30.44	0	0	-18	-106	-18	-106	-66
South Ridge	83.72	58	237	-1	-12	57	225	-867

*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.*

*Add notes regarding special notes on fields here*

**Birchen Farms INC.  
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 **
Asche	80.02	Corn	180	216	77	0	50	31
Church	42.43	Alfalfa	7	0	0	0	0	0
Dairy	167.7	Alfalfa	7	0	0	0	350	0
Hasken	11.07	Alfalfa	7	0	84	101	350	260
Hershey	73.87	Oat/ Alfalfa	60	60	23	43	12	0
Huttenlocher	67.49	Alfalfa	7	0	0	0	350	0
Musser North	66.69	Corn	180	216	0	0	0	0
Musser Middle	75.15	Alfalfa	7	0	0	0	0	0
Musser South	60.15	Silage	30	180	78	0	210	0
Rod's Home East	45	Corn	180	216	0	0	0	0
Rod's Home West	25	Silage	30	180	78	0	0	0
Rod's North of Creek	66.39	Corn	180	216	0	0	0	0
Shester	97.24	Oat/ Alfalfa	60	60	23	56	12	0
Schleuning	30.44	Alfalfa	7	0	84	101	350	260
South Ridge	83.72	Silage	30	180	78	0	210	23

**Crop Year 2012**

**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 **
Asche	80.02	Oat/ Alfalfa	60	60	23	0	12	31
Church	42.43	Alfalfa	7	0	0	0	0	0
Dairy	167.7	Alfalfa	7	0	0	0	350	0
Hasken	11.07	Alfalfa	7	0	84	101	350	260
Hershey	73.87	Alfalfa	7	0	84	43	350	0
Huttenlocher	67.49	Silage	30	180	0	0	210	0
Musser North	66.69	Oat/ Alfalfa	60	60	0	0	0	0
Musser Middle	75.15	Alfalfa	7	0	0	0	0	0
Musser South	60.15	Silage	30	180	78	0	210	0
Rod's Home East	45	Oat/ Alfalfa	60	60	0	0	0	0
Rod's Home West	25	Silage	30	180	78	0	0	0
Rod's North of Creek	66.39	Oat/ Alfalfa	60	60	0	0	0	0
Shester	97.24	Alfalfa	7	0	84	56	350	0
Schleuning	30.44	Silage	30	180	78	101	210	260
South Ridge	83.72	Corn	180	216	77	0	50	23

**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 **
Asche	80.02	Alfalfa	7	0	84	0	350	31
Church	42.43	Silage	30	180	0	0	0	0
Dairy	167.7	Alfalfa	7	0	0	0	350	0
Hasken	11.07	Alfalfa	7	0	84	101	350	260
Hershey	73.87	Alfalfa	7	0	84	43	350	0
Huttenlocher	67.49	Silage	30	180	0	0	210	0
Musser North	66.69	Alfalfa	7	0	0	0	0	0
Musser Middle	75.15	Silage	30	180	0	0	0	0
Musser South	60.15	Oat/ Alfalfa	0	60	23	0	12	0
Rod's Home East	45	Alfalfa	7	0	0	0	0	0
Rod's Home West	25	Silage	30	180	0	0	0	0
Rod's North of Creek	66.39	Alfalfa	7	0	0	0	0	0
Shester	97.24	Alfalfa	7	0	84	56	350	0
Schleuning	30.44	Corn	180	216	77	101	50	260
South Ridge	83.72	Oat/ Alfalfa	60	60	23	0	12	23

**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 **
Asche	80.02	Alfalfa	7	0	84	0	350	31
Church	42.43	Corn	180	216	0	0	0	0
Dairy	167.7	Alfalfa	7	0	0	0	350	0
Hasken	11.07	Alfalfa	7	0	84	101	350	260
Hershey	73.87	Alfalfa	7	0	84	43	350	0
Huttenlocher	67.49	Silage	30	180	0	0	210	0
Musser North	66.69	Alfalfa	7	0	0	0	0	0
Musser Middle	75.15	Silage	30	180	0	0	0	0
Musser South	60.15	Alfalfa	7	0	84	0	350	0
Rod's Home East	45	Alfalfa	7	0	0	0	0	0
Rod's Home West	25	Silage	30	180	0	0	0	0
Rod's North of Creek	66.39	Alfalfa	7	0	0	0	0	0
Shester	97.24	Alfalfa	7	0	84	56	350	0
Schleuning	30.44	Oat/ Alfalfa	60	60	23	101	12	260
South Ridge	83.72	Alfalfa	7	0	84	0	350	23

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

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