

Pinnacle Genetics
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 **
Field 1	6.3	Beans	50	0	43	101	65	260
Field 2 - Big N of Rich's	32.5	Corn	170	164	73	101	48	260
Field 3	14.8	Wheat	70	70	63	101	21	260
Field 4, 5, & 7 - N Rich's	44.4	Corn	170	164	73	101	48	260
Field 8 & 9 - S Rich's	11.8	Beans	65	0	55	101	85	260
Field 10 & 11 - N Barns	43.91	Beans	65	0	55	101	85	260
Field 12	4.76	Beans	65	0	55	101	85	260
Field 13 - L-shaped	9.09	Corn	170	164	73	101	48	260
Field 14 & 15 - 3 piece & S	27.3	Corn	170	164	73	101	48	260
Field 16	9.22	Corn	170	164	73	101	48	260
Field 17 & 19	19.98	Corn	170	164	73	101	48	260
Far North West & East	96.06	Corn	170	164	73	101	48	260
Field 20 - E Pasture	3.4	Corn	170	164	73	101	48	260
Field 22 - S Rich's	25.72	Corn	170	164	73	101	48	260
Field 23 & 24	54.81	Corn	170	164	73	101	48	260
Field 25	28.82	Beans	50	0	43	11	65	260
Field 26 - North 60	58.3	Beans	50	0	43	101	65	260
Field 27 - NE 30	30.5	Corn	170	164	73	101	48	260
Fields 32,33,38 - N of Rent	86.52	Corn	170	164	73	101	48	260
Field 34-37	89.2	Beans	50	0	43	101	65	260
Clee Dixon 40	53.35	Beans	50	0	43	101	65	260
Clee Dixon 32	28.69	Beans	50	0	43	101	65	260
Clee Dixon 32 North	29.32	Beans	50	204	43	101	65	260
North 80	68.65	Beans	50	0	43	101	65	260
East 80	56.25	Corn	170	164	73	101	48	260

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 **
Field 1	6.3	Corn	170	164	73	101	48	260
Field 2 - Big N of Rich's	32.5	Beans	50	0	43	101	65	260
Field 3	14.8	Corn	170	204	73	101	48	260
Field 4, 5, & 7 - N Rich's	44.4	Beans	50	0	43	101	65	260
Field 8 & 9 - S Rich's	11.8	Corn	170	164	73	101	48	260
Field 10 & 11 - N Barns	43.91	Corn	170	164	73	101	48	260
Field 12	4.76	Corn	170	164	73	101	48	260
Field 13 - L-shaped	9.09	Beans	50	0	43	101	65	260
Field 14 & 15 - 3 piece & S	27.3	Beans	50	0	43	101	65	260
Field 16	9.22	Beans	50	0	43	101	65	260
Field 17 & 19	19.98	Beans	50	0	43	101	65	260
Far North West & East	96.06	Beans	50	0	43	101	65	260
Field 20 - E Pasture	3.4	Beans	50	0	43	101	65	260
Field 22 - S Rich's	25.72	Beans	50	0	43	101	65	260
Field 23 & 24	54.81	Beans	50	0	43	101	65	260
Field 25	28.82	Corn	170	164	73	101	48	260
Field 26 - North 60	58.3	Corn	170	164	73	101	48	260
Field 27 - NE 30	30.5	Beans	50	0	43	101	65	260
Fields 32,33,38 - N of Rent	86.52	Beans	50	0	43	101	65	260
Field 34-37	89.2	Corn	170	164	73	101	48	260
Clee Dixon 40	53.35	Corn	170	164	73	101	48	260
Clee Dixon 32	28.69	Corn	170	164	73	101	48	260
Clee Dixon 32 North	29.32	Corn	170	164	73	101	48	260
North 80	68.65	Corn	170	164	73	101	48	260
East 80	56.25	Beans	50	0	43	101	65	260

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 **
Field 1	6.3	Beans	50	0	43	101	65	260
Field 2 - Big N of Rich's	32.5	Corn	170	164	73	101	48	260
Field 3	14.8	Wheat	70	70	63	101	21	260
Field 4, 5, & 7 - N Rich's	44.4	Corn	170	164	73	101	48	260
Field 8 & 9 - S Rich's	11.8	Beans	65	0	55	101	85	260
Field 10 & 11 - N Barns	43.91	Beans	65	0	55	101	85	260
Field 12	4.76	Beans	65	0	55	101	85	260
Field 13 - L-shaped	9.09	Corn	170	164	73	101	48	260
Field 14 & 15 - 3 piece & S	27.3	Corn	0	164	73	101	48	260
Field 16	9.22	Corn	170	164	73	101	48	260
Field 17 & 19	19.98	Corn	170	164	73	101	48	260
Far North West & East	96.06	Corn	170	164	73	101	48	260
Field 20 - E Pasture	3.4	Corn	170	164	73	101	48	260
Field 22 - S Rich's	25.72	Corn	170	164	73	101	48	260
Field 23 & 24	54.81	Corn	170	164	73	101	48	260
Field 25	28.82	Beans	50	0	43	101	65	260
Field 26 - North 60	58.3	Beans	50	0	43	101	65	260
Field 27 - NE 30	30.5	Corn	170	164	73	101	48	260
Fields 32,33,38 - N of Rent	86.52	Corn	170	164	73	101	48	260
Field 34-37	89.2	Beans	50	0	43	101	65	260
Clee Dixon 40	53.35	Beans	50	0	43	101	65	260
Clee Dixon 32	28.69	Beans	50	0	43	101	65	260
Clee Dixon 32 North	29.32	Beans	50	0	43	101	65	260
North 80	68.65	Beans	50	0	43	101	65	260
East 80	56.25	Corn	170	164	73	101	48	260

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 **
Field 1	6.3	Corn	170	164	73	101	48	260
Field 2 - Big N of Rich's	32.5	Beans	50	0	43	101	65	260
Field 3	14.8	Corn	170	204	73	101	48	260
Field 4, 5, & 7 - N Rich's	44.4	Beans	50	0	43	101	65	260
Field 8 & 9 - S Rich's	11.8	Corn	170	164	73	101	48	260
Field 10 & 11 - N Barns	43.91	Corn	170	164	73	101	48	260
Field 12	4.76	Corn	170	164	73	101	48	260
Field 13 - L-shaped	9.09	Beans	50	0	43	101	65	260
Field 14 & 15 - 3 piece & S	27.3	Beans	50	0	43	101	65	260
Field 16	9.22	Beans	50	0	43	101	65	260
Field 17 & 19	19.98	Beans	50	0	43	101	65	260
Far North West & East	96.06	Beans	50	0	43	101	65	260
Field 20 - E Pasture	3.4	Beans	50	0	43	101	65	260
Field 22 - S Rich's	25.72	Beans	50	0	43	101	65	260
Field 23 & 24	54.81	Beans	50	0	43	101	65	260
Field 25	28.82	Corn	170	164	73	101	48	260
Field 26 - North 60	58.3	Corn	170	164	73	101	48	260
Field 27 - NE 30	30.5	Beans	50	0	43	101	65	260
Fields 32,33,38 - N of Rent	86.52	Beans	50	0	43	101	65	260
Field 34-37	89.2	Corn	170	164	73	101	48	260
Clee Dixon 40	53.35	Corn	170	164	73	101	48	260
Clee Dixon 32	28.69	Corn	170	164	73	101	48	260
Clee Dixon 32 North	29.32	Corn	170	164	73	101	48	260
North 80	68.65	Corn	170	164	73	101	48	260
East 80	56.25	Beans	50	0	43	101	65	260

* 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

Projected Soil P & K Levels
Pinnacle Genetics

Field Name	Acres	Current Soil Test		Change in Test		Projected Soil Test		Time to Reach 300 lbs/ac
		P	K	P	K	P	K	
Field 1	6.3	--	--	14	8	--	--	--
Field 2 - Big N of Rich's	31.1	--	--	14	9	--	--	--
Field 3	14.1	--	--	18	45	--	--	--
Field 4, 5, & 7 - N Rich's	39.3	--	--	14	9	--	--	--
Field 8 & 9 - S Rich's	10.7	--	--	14	3	--	--	--
Field 10 & 11 - N Barns	43.6	--	--	14	3	--	--	--
Field 12	0.0	--	--	14	3	--	--	--
Field 13 - L-shaped	9.1	--	--	13	8	--	--	--
Field 14 & 15 - 3 piece & S	26.0	--	--	13	8	--	--	--
Field 16	9.2	--	--	14	9	--	--	--
Field 17 & 19	19.7	--	--	14	9	--	--	--
Far North West & East	89.6	--	--	14	9	--	--	--
Field 20 - E Pasture	3.4	--	--	14	8	--	--	--
Field 22 - S Rich's	25.7	--	--	14	9	--	--	--
Field 23 & 24	54.4	--	--	14	8	--	--	--
Field 25	28.4	--	--	14	8	--	--	--
Field 26 - North 60	57.8	--	--	14	8	--	--	--
Field 27 - NE 30	30.5	--	--	14	8	--	--	--
Fields 32,33,38 - N of Rent	74.6	--	--	14	9	--	--	--
Field 34-37	88.4	--	--	14	8	--	--	--
Clee Dixon 40	53.4	--	--	14	8	--	--	--
Clee Dixon 32	28.7	--	--	14	8	--	--	--
Clee Dixon 32 North	29.3	--	--	14	8	--	--	--
North 80	68.6	--	--	14	8	--	--	--
East 80	56.2	--	--	14	9	--	--	--

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.

Soil test values not available at time of CNMP development. When planning at N application rates fields show a buildup of soil test P. Without beginning soil test numbers estimated time to reach 300 lbs per acre soil test cannot be calculated.