

FIELD NUTRIENT BALANCE

Field Nutrient Balance (Manure-spreadable Area)

Year	Field	Size Acres	Crop	Yield Goal /Acre	Fertilizer Recs ¹			Nutrients Applied ²			Balance After Recs ³			Balance After Removal ⁴		
					N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A
2008	Aebley 1 (843)	15.6	Corn	160	190	90	145	191	235	261	1	145	116	166	166	216
2009	Aebley 1 (843)	15.6	Soybean	55	0	65	170	0	0	0	0	80	-54	119	119	145
2010	Aebley 1 (843)	15.6	Wheat	80	70	90	120	69	0	0	3†	-10	-120	71	71	121
2011	Aebley 1 (843)	15.6	Corn	160	190	90	145	189	233	260	2†	143	115	236	236	336
Total	Aebley 1 (843)				450	335	580	449	468	521						
2008	Aebley 2 (843)	45.0	Soybean	55	0	0	70	0	0	0	0	0	-70	-47	-47	-72
2009	Aebley 2 (843)	45.0	Wheat	80	70	0	25	0	0	0	-70	0	-25	-48	-48	-24
2010	Aebley 2 (843)	45.0	Corn	160	190	0	45	191	236	262	1	236	217	167	167	217
2011	Aebley 2 (843)	45.0	Corn	160	190	0	45	182	224	249	2†	460	421	322	322	421
Total	Aebley 2 (843)				450	0	185	373	460	511						
2008	CAPS 1 (1123)	16.0	Corn	160	190	0	45	192	236	263	2	236	218	167	167	218
2009	CAPS 1 (1123)	16.0	Corn	160	190	0	45	182	224	249	2†	460	422	322	322	422
2010	CAPS 1 (1123)	16.0	Soybean	55	0	0	70	0	0	0	0	460	352	276	276	351
2011	CAPS 1 (1123)	16.0	Wheat	80	70	0	25	69	0	0	6†	460	327	228	228	327
Total	CAPS 1 (1123)				450	0	185	443	460	512						
2008	CAPS 2 (1123)	14.2	Corn	160	190	70	85	0	0	0	-190	-70	-85	-69	-69	-45
2009	CAPS 2 (1123)	14.2	Corn	160	190	70	85	191	235	261	1	165	176	166	166	216
2010	CAPS 2 (1123)	14.2	Soybean	55	0	45	115	0	0	0	0	120	61	119	119	145
2011	CAPS 2 (1123)	14.2	Wheat	80	90	70	65	69	0	0	-17†	50	-4	71	71	121
Total	CAPS 2 (1123)				470	255	350	260	235	261						
2008	CAPS 3 (1123)	12.0	Corn	160	190	70	120	191	235	261	1	165	141	166	166	216
2009	CAPS 3 (1123)	12.0	Corn	160	190	70	120	184	226	251	4†	321	272	323	323	422
2010	CAPS 3 (1123)	12.0	Soybean	55	0	45	150	0	0	0	0	276	122	277	277	351
2011	CAPS 3 (1123)	12.0	Wheat	80	70	70	100	69	0	0	6†	206	22	229	229	327
Total	CAPS 3 (1123)				450	255	490	444	461	512						
2008	FRANK'S (1123)	15.0	Corn	160	190	0	45	0	0	0	-190	0	-45	-69	-69	-45
2009	FRANK'S (1123)	15.0	Soybean	55	0	0	75	151	186	207	1 ^a	186	132	139	139	136
2010	FRANK'S (1123)	15.0	Wheat	80	70	0	25	69	0	0	7†	186	107	91	91	112

Year	Field	Size Acres	Crop	Yield Goal /Acre	Fertilizer Recs ¹			Nutrients Applied ²			Balance After Recs ³			Balance After Removal ⁴	
					N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A
2011	FRANK'S (1123)	15.0	Corn	160	190	0	45	187	0	0	0†	186	62	22	67
Total	FRANK'S (1123)				450	0	190	407	186	207					
2008	HOME 1 (1113)	108.0	Corn	160	190	0	45	193	0	0	3	0	-45	-69	-45
2009	HOME 1 (1113)	108.0	Corn	160	190	0	45	191	235	261	1	235	216	166	216
2010	HOME 1 (1113)	108.0	Soybean	55	0	0	70	0	0	0	0	235	146	119	145
2011	HOME 1 (1113)	108.0	Wheat	80	70	0	25	69	0	0	3†	235	121	71	121
Total	HOME 1 (1113)				450	0	185	453	235	261					
2008	HOME 2 (1113)	71.3	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
2009	HOME 2 (1113)	71.3	Corn	160	150	0	0	150	55	61	0	55	61	-14	16
2010	HOME 2 (1113)	71.3	Corn	160	190	0	0	142	176	196	-46†	231	257	107	167
2011	HOME 2 (1113)	71.3	Soybean	55	0	0	0	0	0	0	0	231	257	60	96
Total	HOME 2 (1113)				340	0	0	292	231	257					
2008	HOME 4 (1113)	19.4	Corn	180	175	75	100	178	220	244	3	145	144	143	194
2009	HOME 4 (1113)	19.4	Soybean	55	0	45	120	0	0	0	0	100	24	96	122
2010	HOME 4 (1113)	19.4	Corn	180	175	75	100	131	162	180	-40†	187	104	180	252
2011	HOME 4 (1113)	19.4	Soybean	55	0	45	120	0	0	0	0	142	-16	134	180
Total	HOME 4 (1113)				350	240	440	309	382	424					
2008	Messman E (856)	31.0	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
2009	Messman E (856)	31.0	Wheat	80	70	0	0	69	0	0	-1	0	0	-48	-24
2010	Messman E (856)	31.0	Corn	160	190	0	0	191	235	261	1	235	261	166	216
2011	Messman E (856)	31.0	Corn	160	190	0	0	183	225	250	3†	460	511	322	421
Total	Messman E (856)				450	0	0	443	460	511					
2008	Messman W (855)	32.0	Soybean	55	0	45	70	0	0	0	0	-45	-70	-47	-72
2009	Messman W (855)	32.0	Wheat	80	70	70	25	69	0	0	-1	-70	-25	-48	-24
2010	Messman W (855)	32.0	Corn	160	190	70	45	191	235	261	1	165	216	166	216
2011	Messman W (855)	32.0	Corn	160	190	70	45	182	224	249	2†	319	420	321	420
Total	Messman W (855)				450	255	185	442	459	510					
2008	Stanley S (1125)	16.7	Wheat	80	70	85	55	0	0	0	-70	-85	-55	-48	-24
2009	Stanley S (1125)	16.7	Corn	160	190	80	75	191	235	261	1	155	186	166	216

Year	Field	Size Acres	Crop	Yield Goal /Acre	Fertilizer Recs ¹			Nutrients Applied ²			Balance After Recs ³			Balance After Removal ⁴	
					N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A
2010	Stanley S (1125)	16.7	Corn	160	190	80	75	182	224	249	2†	299	360	321	420
2011	Stanley S (1125)	16.7	Soybean	55	0	60	100	0	0	0	0	239	260	275	349
Total	Stanley S (1125)				450	305	305	373	459	510					
2008	Stanley N (1125)	20.4	Corn	160	190	90	120	0	0	0	-190	-90	-120	-69	-45
2009	Stanley N (1125)	20.4	Soybean	55	0	70	145	0	0	0	0	-70	-145	-47	-72
2010	Stanley N (1125)	20.4	Wheat	80	70	95	100	0	0	0	-70	-95	-100	-48	-24
2011	Stanley N (1125)	20.4	Corn	160	190	90	120	191	235	261	1	145	141	166	216
Total	Stanley N (1125)				450	345	485	191	235	261					
2008	HOME 3 (1113)	62.5	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
2009	HOME 3 (1113)	62.5	Corn	160	150	0	0	151	186	207	1	186	207	117	162
2010	HOME 3 (1113)	62.5	Soybean	55	0	0	0	0	0	0	0	186	207	70	91
2011	HOME 3 (1113)	62.5	Corn	160	150	0	0	149	184	204	2†	370	411	186	250
Total	HOME 3 (1113)				300	0	0	300	370	411					

Field Nutrient Balance (Non-manure-spreadable Area)

Year	Field	Size Acres	Crop	Yield Goal /Acre	Fertilizer Recs ¹			Nutrients Applied ²			Balance After Recs ³			Balance After Removal ⁴	
					N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A
2008	CAPS 1 (1123)	2.9	Corn	160	190	0	45	188	69	60	-2	69	15	0	15
2009	CAPS 1 (1123)	2.9	Corn	160	190	0	45	190	0	0	0	69	-30	-69	-30
2010	CAPS 1 (1123)	2.9	Soybean	55	0	0	70	0	0	0	0	69	-70	-47	-72
2011	CAPS 1 (1123)	2.9	Wheat	80	70	0	25	69	0	0	-1	69	-25	-48	-24
Total	CAPS 1 (1123)				450	0	185	447	69	60					
2008	CAPS 3 (1123)	3.4	Corn	160	190	70	120	190	69	60	0	-1	-60	0	15
2009	CAPS 3 (1123)	3.4	Corn	160	190	70	120	190	0	0	0	-70	-120	-69	-30
2010	CAPS 3 (1123)	3.4	Soybean	55	0	45	150	0	0	0	0	-45	-150	-47	-72
2011	CAPS 3 (1123)	3.4	Wheat	80	70	70	100	69	0	0	-1	-70	-100	-48	-24
Total	CAPS 3 (1123)				450	255	490	449	69	60					
2008	FRANK'S (1123)	1.1	Corn	160	190	0	45	0	0	0	-190	0	-45	-69	-45
2009	FRANK'S (1123)	1.1	Soybean	55	0	0	75	0	0	0	0	0	-75	-47	-72

Year	Field	Size Acres	Crop	Yield Goal /Acre	Fertilizer Recs ¹			Nutrients Applied ²			Balance After Recs ³			Balance After Removal ⁴	
					N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	N Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A	P ₂ O ₅ Lb/A	K ₂ O Lb/A
2010	FRANK'S (1123)	1.1	Wheat	80	70	0	25	69	0	0	-1	0	-25	-48	-24
2011	FRANK'S (1123)	1.1	Corn	160	190	0	45	187	0	0	-3	0	-45	-69	-45
Total	FRANK'S (1123)				450	0	190	256	0	0					
2008	HOME 1 (1113)	1.5	Corn	160	190	0	45	193	0	0	3	0	-45	-69	-45
2009	HOME 1 (1113)	1.5	Corn	160	190	0	45	190	0	0	0	0	-45	-69	-45
2010	HOME 1 (1113)	1.5	Soybean	55	0	0	70	0	0	0	0	0	-70	-47	-72
2011	HOME 1 (1113)	1.5	Wheat	80	70	0	25	69	0	0	-1	0	-25	-48	-24
Total	HOME 1 (1113)				450	0	185	452	0	0					
2008	HOME 2 (1113)	1.7	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
2009	HOME 2 (1113)	1.7	Corn	160	150	0	0	150	0	0	0	0	0	-69	-45
2010	HOME 2 (1113)	1.7	Corn	160	190	0	0	190	0	0	0	0	0	-69	-45
2011	HOME 2 (1113)	1.7	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
Total	HOME 2 (1113)				340	0	0	340	0	0					
2008	Messman E (856)	3.3	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
2009	Messman E (856)	3.3	Wheat	80	70	0	0	69	0	0	-1	0	0	-48	-24
2010	Messman E (856)	3.3	Corn	160	190	0	0	0	0	0	-190	0	0	-69	-45
2011	Messman E (856)	3.3	Corn	160	190	0	0	188	69	60	-2	69	60	0	15
Total	Messman E (856)				450	0	0	257	69	60					
2008	HOME 3 (1113)	2.5	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
2009	HOME 3 (1113)	2.5	Corn	160	150	0	0	0	0	0	-150	0	0	-69	-45
2010	HOME 3 (1113)	2.5	Soybean	55	0	0	0	0	0	0	0	0	0	-47	-72
2011	HOME 3 (1113)	2.5	Corn	160	150	0	0	150	0	0	0	0	0	-69	-45
Total	HOME 3 (1113)				300	0	0	150	0	0					

¹ Fertilizer Recs are the crop fertilizer recommendations. The N rec accounts for any N credit from previous legume crop.

² Nutrients Applied are the nutrients expected to be available to the crop from that year's manure applications plus nutrients from that year's commercial fertilizer applications. With a double-crop year, the total nutrients applied for both crops and the year's balances are listed on the second crop's line.

³ For N, Nutrients Applied minus Fertilizer Recs for indicated crop year. Also includes amount of residual N expected to become available that year from prior years' manure applications. For P₂O₅ and K₂O, Nutrients Applied minus Fertilizer Recs through the indicated crop year, with positive balances carried forward to subsequent years. Negative values indicate a potential need to apply additional nutrients.

⁴ Nutrients Applied minus amount removed by harvested portion of crop through the indicated year. Positive balances are carried forward to subsequent years.

□ Indicates a custom fertilizer recommendation in the Fertilizer Recs column.

Projected Soil P And K Levels

Plan File: C:\Program Files\MMP 0.26\Madison Consulting Plans\Meier Farm.mmp **Last Saved:** 1/19/2009
Operation: MEIER FARMS **State:** Illinois **Init. File Rev:** 5/21/2008

<i>Field ID</i>	<i>Sub ID</i>	<i>P Level At Start Of Plan</i>	<i>P Level At End Of Plan</i>	<i>K Level At Start Of Plan</i>	<i>K Level At End Of Plan</i>	<i>Units</i>
Aebley 1	843	18	31	101	143	ppm
Aebley 2	843	51	64	166	207	ppm
CAPS 1	1123	56	69	190	231	ppm
CAPS 2	1123	29	29	129	139	ppm
CAPS 3	1123	28	41	112	153	ppm
FRANK'S	1123	47	45	149	152	ppm
HOME 1	1113	44	44	199	209	ppm
HOME 2	1113	61	61	259	262	ppm
HOME 4	1113	27	35	126	149	ppm
Messman E	856	54	67	246	287	ppm
Messman W	855	28	41	167	208	ppm
Stanley S	1125	20	33	135	176	ppm
Stanley N	1125	15	15	113	123	ppm
HOME 3	1113	61	69	259	282	ppm

Notes

Equations used to determine change in soil test P and K:

Change in P (Lb/A) = Round(NetP2O5/9)

Change in K (Lb/A) = Round(NetK2O/4)