Soil Test Data

Operation: Walnutdale Farm
Plan File: Walnutdale Dairy 2012 CNMP 2012 Apps.mmp
Plan Folder: C:\Users\jstegink\Dropbox

County: Allegan
State: Michigan

Plan Saved: 11/10/2011
Init. File Rev: 9/11/2008
Soils File Rev: 9/8/2010

Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/100g)
Home 1 (H1)	2011	3.4	Bray P1	242	370	550	2,672	lbs/a	7.6	7.2	9.5
Home 2 (H2)	2011	3.3	Bray P1	266	597	605	3,167	lbs/a	7.4	7.2	11.2
Home 3 (H3)	2011	3.7	Bray P1	248	477	570	2,960	lbs/a	7.5	7.2	10.4
Home 4 (H4A)	2011	2.6	Bray P1	172	291	357	2,111	lbs/a	7.2	7.2	7.3
Home 4 (H4B)	2011	2.5	Bray P1	217	422	395	2,400	lbs/a	7.4	7.2	6.8
Home 4 (H4C)	2011	2.7	Bray P1	166	328	500	2,867	lbs/a	7.4	7.2	9.7
Home 4 (H4D)	2011	2.4	Bray P1	165	370	392	2,325	lbs/a	7.1	7.1	8.1
Home 5 (H5)	2011	3.1	Bray P1	47	190	505	2,980	lbs/a	7.3	7.2	9.9
Home 6 (H6)	2011	2.8	Bray P1	52	144	384	2,529	lbs/a	7.0	7.2	8.3
Home 7 (H7)	2011	3.6	Bray P1	266	246	524	3,780	lbs/a	7.5	7.2	11.9
Home 8 (H8)	2011	2.4	Bray P1	256	275	331	1,550	lbs/a	6.8	7.1	6.2
[redacted] 9 (H9)	2011	2.6	Bray P1	338	169	314	2,048	lbs/a	6.8	7.1	7.2
[redacted] (M13)	2011	1.5	Bray P1	90	140	214	1,172	lbs/a	6.4	6.9	5.0
[redacted] West (D14)	2011	1.7	Bray P1	103	160	274	1,760	lbs/a	6.8	7.1	6.1
[redacted] West (D15)	2011	19.0	Bray P1	109	185	290	1,775	lbs/a	6.7	7.0	6.5
[redacted] NW (D16)	2010	2.2	Bray P1	26	147	354	1,712	lbs/a	6.1	6.9	7.5
[redacted] Front (D17A)	2010	2.6	Bray P1	138	348	442	2,408	lbs/a	7.2	7.2	8.4
[redacted] front (D17B)	2010	2.6	Bray P1	138	348	442	2,408	lbs/a	7.2	7.2	8.4
[redacted] Back (D18)	2010	2.2	Bray P1	26	147	354	1,712	lbs/a	6.1	6.9	7.5
[redacted] Corn (D19)	2010	2.7	Bray P1	201	293	340	2,217	lbs/a	7.0	7.1	7.6
Wingers (W22A)	2010	2.4	Bray P1	152	229	303	1,972	lbs/a	7.2	7.1	6.6
Wingers (W22B)	2010	2.4	Bray P1	152	229	303	1,972	lbs/a	7.2	7.1	6.6
[redacted] W Front (K26A)	2009	2.5	Bray P1	37	147	500	2,800	lbs/a	6.9	7.1	9.9
[redacted] W Back (K26B)	2009	2.0	Bray P1	8	138	540	6,100	lbs/a	7.9		17.7
[redacted] 146th (LM32)	2011	2.8	Bray P1	29	115	329	1,572	lbs/a	5.7	6.8	7.8
[redacted] [redacted] (JS33)	2010	2.1	Bray P1	66	215	413	1,978	lbs/a	7.2	7.2	7.1

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Field	Test Year	OM (%)	P Test Used	P	K	Mg	Ca	Units	Soil pH	Buffer pH	CEC (meq/ 100g)
[redacted] (C34)	2011	2.4	Bray P1	57	100	299	2,530	lbs/a	7.0	7.1	8.0
[redacted] (C-35)	2011	2.0	Bray P1	84	118	199	1,717	lbs/a	6.7	7.0	5.7
[redacted] (C-36)	2011	2.7	Bray P1	79	64	124	1,233	lbs/a	6.0	6.9	4.9
United Bank N (UB37A)	2011	1.5	Bray P1	61	12	120	1,025	lbs/a	6.3	7.0	4.0
United Bank S (UB37B)	2011	1.9	Bray P1	64	145	197	1,478	lbs/a	6.7	7.0	5.2
Wingers 14th (W38A)	2010	2.9	Bray P1	114	349	190	1,847	lbs/a	6.2	7.1	6.6
Wingers 14th (W38B)	2010	2.9	Bray P1	114	349	190	1,847	lbs/a	6.2	7.1	6.6
[redacted] 134th (N40A)	2010	3.0	Bray P1	39	248	574	2,751	lbs/a	7.0	7.1	10.1
[redacted] 134th (N40B)	2010	3.0	Bray P1	39	248	574	2,751	lbs/a	7.0	7.1	10.1
[redacted] 135th (N40C)	2010	3.0	Bray P1	92	243	537	3,053	lbs/a	7.0	7.0	11.0
[redacted] N (E41)	2010	2.4	Bray P1	35	189	442	2,663	lbs/a	6.8	7.1	9.3
[redacted] 42 (E42)	2010	3.1	Bray P1	70	323	580	3,337	lbs/a	7.1	7.2	11.4
[redacted] 43 (T43)	2007	1.4	Bray P1	206	112	230	1,800	lbs/a	7.5		5.6
[redacted] 44 (T44)	2007	1.5	Bray P1	118	118	200	1,300	lbs/a	7.0		4.2
[redacted] 45 (T45)	2007	1.7	Bray P1	166	114	180	1,500	lbs/a	7.6		4.6
M [redacted] E (MK47)	2010	1.8	Bray P1	118	130	160	1,200	lbs/a	6.4	6.9	5.0
[redacted] NW (J48)	2010	1.6	Bray P1	131	141	185	1,013	lbs/a	6.3	7.0	4.4
[redacted] NW2 (J49)	2010	1.5	Bray P1	215	159	210	1,125	lbs/a	6.5	7.0	4.6
[redacted] W (J50)	2010	1.4	Bray P1	173	99	139	1,134	lbs/a	6.5	7.0	4.0
[redacted] M (J51)	2010	1.9	Bray P1	250	201	248	1,384	lbs/a	6.7	7.0	5.3
[redacted] E (J52)	2010	1.7	Bray P1	121	190	227	1,344	lbs/a	6.6	7.0	5.3
[redacted] (JS53)	2010	1.6	Bray P1	132	173	179	856	lbs/a	6.2	6.9	4.0
[redacted] front (N57)	2007	1.8	Bray P1	58	80	580	1,700	lbs/a	7.7		6.8
[redacted] 58 (N58A)	2007	1.3	Bray P1	176	94	220	1,900	lbs/a	7.4		5.8
[redacted] 58 (N58B)	2007	1.8	Bray P1	50	86	180	1,000	lbs/a	6.4	6.9	4.6
[redacted] 58 (N58C)	2007	1.7	Bray P1	44	102	250	1,100	lbs/a	5.9	6.9	5.1

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[redacted] 59 (N59)	2007	1.8	Bray P1	106	94	200	1,300	lbs/a	6.5	6.9	5.4
[redacted] 60 (N60)	2007	1.8	Bray P1	90	106	180	900	lbs/a	6.0	6.9	4.3
[redacted] South (MN61A)	2011	2.7	Bray P1	103	238	515	2,400	lbs/a	6.7	7.0	9.2
[redacted] (MN61B)	2011	2.0	Bray P1	20	90	374	1,500	lbs/a	5.6	6.8	8.2
[redacted] Center (MN61C)	2011	1.7	Bray P1	71	159	413	1,700	lbs/a	6.3	6.9	7.6
[redacted] North (MN61D)	2011	2.0	Bray P1	37	113	337	1,462	lbs/a	6.1	6.9	6.4
Chesebro 40N (C65N)	2011	2.1	Bray P1	31	151	396	1,995	lbs/a	6.3	6.9	8.1
Chesebro 65S (C65S)	2011	2.7	Bray P1	86	203	817	3,300	lbs/a	7.4	7.2	11.9
Chesebro SW (C66)	2010	2.2	Bray P1	45	175	459	2,584	lbs/a	6.8	7.1	8.9
Chesebro SM (C67)	2010	2.3	Bray P1	23	157	533	2,142	lbs/a	6.2	6.9	9.2
Chesebro SE (C68)	2010	2.1	Bray P1	22	183	334	1,220	lbs/a	5.5	6.8	7.6
Chesebro S back (C69)	2010	1.8	Bray P1	25	158	318	2,550	lbs/a	7.0	7.0	8.5
Chesebro 70 (C70)	2011	2.6	Bray P1	22	151	615	2,655	lbs/a	7.0	7.1	10.0
Chesebro 9ac (C72)	2009	1.7	Bray P1	42	137	210	1,533	lbs/a	6.9	7.0	5.3
[redacted] [redacted] (1&2)	2011	2.5	Bray P1	32	126	421	2,300	lbs/a	6.4	6.9	8.8
[redacted] [redacted] (3-5)	2011	2.3	Bray P1	42	152	423	2,042	lbs/a	6.5	7.0	8.0
[redacted] [redacted] (6&7)	2011	2.2	Bray P1	41	98	250	1,073	lbs/a	6.1	6.9	4.9
[redacted] NW (BNW)	2009	5.4	Bray P1	71	123	420	3,950	lbs/a	6.5	6.9	13.6
[redacted] W (B73W)	2009	7.0	Bray P1	94	140	680	3,900	lbs/a	6.7	7.0	13.7
[redacted] E (B73E)	2009	3.3	Bray P1	39	141	638	2,515	lbs/a	6.8	7.0	9.8
4th st (4th)	2010	2.0	Bray P1	50	110	380	1,800	lbs/a	6.3	6.9	7.4
[redacted] (Thomp)	2010	1.5	Bray P1	282	197	185	908	lbs/a	6.1	6.9	4.3
[redacted] (Kam)	2010	2.4	Bray P1	33	134	399	2,118	lbs/a	6.6	6.9	8.0
Home Small (Home4)	2011	2.4	Bray P1	226	232	470	2,700	lbs/a	7.5		9.0
[redacted] 4th (R-4th)	2011	1.7	Bray P1	48	186	270	1,989	lbs/a	6.6	7.0	7.1
[redacted] (Pete)	2011	3.0	Bray P1	9	141	718	3,113	lbs/a	6.7	7.0	12.3

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[redacted] (Lev)	2011	3.1	Bray P1	53	146	472	2,696	lbs/a	6.3	7.0	10.2
[redacted] Big (BK-C)	2011	3.4	Bray P1	74	190	610	3,111	lbs/a	6.6	7.0	11.7
[redacted] north (BK-B)	2011	3.1	Bray P1	31	98	606	2,960	lbs/a	6.5	6.9	11.5
[redacted] East (BK-A)	2011	5.4	Bray P1	88	150	718	4,225	lbs/a	6.8	7.0	14.7
[redacted] SW (BK-D)	2011	3.0	Bray P1	238	130	130	1,200	lbs/a	5.7	6.9	4.9
Division Front (Div-F)	2008	2.0	Bray P1	28	180	400	1,600	lbs/a	6.3	6.9	7.1
Divsion Back (Div-B)	2008	2.7	Bray P1	18	174	370	1,500	lbs/a	5.8	6.8	7.9
[redacted] (DW)	2010	2.3	Bray P1	58	217	342	1,495	lbs/a	6.4	7.0	6.4
Auto Auction (AA)								lbs/a			
[redacted] pasture (Pas-N)	2011	3.4	Bray P1	52	216	460	2,100	lbs/a	6.5	6.9	8.6
Catch basin pas (Pas-S)	2011	5.2	Bray P1	136	382	790	4,000	lbs/a	7.1		13.8
[redacted] N (ZandN)	2011	2.3	Bray P1	49	82	349	1,800	lbs/a	6.5	7.0	6.8
[redacted] S (ZandS)	2011	2.4	Bray P1	52	62	269	1,590	lbs/a	6.2	6.9	6.4
MapleView (NadE)	2011	2.6	Bray P1	159	306	456	2,491	lbs/a	6.7	7.0	9.3

Fields that have blanks or dates in red will have soil tests [redacted] prior to manure being applied.

Walnutdale Dairy 2011 Crop Plan & Recommendations

Field	Crop Year	Planned Crop	Yield Goal (per Acre)	N Rec (Lbs/A)	P_2O_5 Rec (Lbs/A)	K_2O Rec (Lbs/A)	N Removed (Lbs/A)	P_2O_5 Removed (Lbs/A)	K_2O Removed (Lbs/A)	Custom Fert. Rec. Source	Notes
Home 1 (H1)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 2 (H2)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 3 (H3)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 4 (H4A)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 4 (H4B)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 4 (H4C)	2011	Alfalfa topdress	7.0 Ton	0	0	0	315	91	350		
Home 4 (H4D)	2011	Alfalfa topdress	7.0 Ton	0	0	0	315	91	350		
Home 5 (H5)	2011	Corn silage	20.0 Ton	140	65	165	188	66	160		
Home 6 (H6)	2011	Corn silage	20.0 Ton	140	65	195	188	66	160		
Home 7 (H7)	2011	Corn silage	20.0 Ton	140	0	15	188	66	160		
Home 8 (H8)	2011	Alfalfa seeding	3.0 Ton	0	0	10	135	39	150		
[redacted] 9 (H9)	2011	Corn silage	20.0 Ton	140	0	170	188	66	160		
[redacted] (M13)	2011	Alfalfa topdress	7.0 Ton	0	45	300	315	91	350		
[redacted] West (D14)	2011	Corn silage	20.0 Ton	140	0	175	188	66	160		
[redacted] West (D15)	2011	Corn silage	20.0 Ton	140	0	150	188	66	160		
[redacted] NW (D16)	2011	Corn silage	20.0 Ton	140	75	190	188	66	160		
[redacted] Front (D17A)	2011	Alfalfa seeding	3.0 Ton	0	0	0	135	39	150		
[redacted] front (D17B)	2011	Alfalfa seeding	3.0 Ton	0	0	0	135	39	150		
[redacted] Back (D18)	2011	Corn silage	20.0 Ton	140	75	190	188	66	160		
[redacted] Corn (D19)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Wingers (W22A)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Wingers (W22B)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
[redacted] W Front (K26A)	2011	Corn grain	140.0 Bu	165	50	75	126	52	38		
[redacted] W Back (K26B)	2011	Corn grain	140.0 Bu	165	105	135	126	52	38		
(b) (6) 108th (EM28A)	2011	Wheat	75.0 Bu	85	50	30	90	47	28		o
(b) (6) 108th (EM28B)	2011	Wheat	75.0 Bu	85	50	30	90	47	28		o
Caledonia (C30A)	2011	Legume-grass cover*	2	0	25[a]	115[a]	0	0	0	2t/acre 1st cutting	o
Caledonia (C30A)	2011	Corn silage	15.0 Ton	60	35	135	141	50	120		o
Caledonia (C30B)	2011	Legume-grass cover*	2	0	40[a]	105[a]	0	0	0	2t/acre 1st cutting	o
Caledonia (C30B)	2011	Corn silage	15.0 Ton	60	50	125	141	50	120		o
Duncan Lake (DL31A)	2011	Alfalfa topdress	6.0 Ton	0	80	300	270	78	300		o
Duncan Lake (DL31B)	2011	Alfalfa topdress	6.0 Ton	0	80	300	270	78	300		o
[redacted] 146th (LM32)	2011	Corn silage	17.0 Ton	115	60	185	160	56	136		
[redacted] [redacted] (JS33)	2011	Wheat	75.0 Bu	85	45	30	90	47	28		
[redacted] (C34)	2011	Corn silage	20.0 Ton	140	65	225	188	66	160		
[redacted] (C-35)	2011	Corn silage	20.0 Ton	140	0	200	188	66	160		

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(b) (6) (C-36)	2011	Corn silage	20.0 Ton	140	5	230	188	66	160		
United Bank N (UB37A)	2011	Corn silage	20.0 Ton	140	65	255	188	66	160		
United Bank S (UB37B)	2011	Corn silage	20.0 Ton	140	55	180	188	66	160		
Wingers 14th (W38A)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
Wingers 14th (W38B)	2011	Corn silage	20.0 Ton	140	0	0	188	66	160		
(b) (6) 139th (MR39A)	2011	Corn silage	20.0 Ton	140	15	0	188	66	160		o
(b) (6) 139th (MR39B)	2011	Corn silage	20.0 Ton	140	10	0	188	66	160		o
(b) (6) 134th (N40A)	2011	Alfalfa seeding	3.0 Ton	0	65	80	135	39	150		
(b) (6) 134th (N40B)	2011	Alfalfa seeding	3.0 Ton	0	65	80	135	39	150		
(b) (6) 135th (N40C)	2011	Corn silage	17.0 Ton	115	0	5	160	56	136		
(b) (6) N (E41)	2011	Legume-grass cover*	2	0	30[a]	45[a]	0	0	0	1st cutting alfalfa to corn	
(b) (6) N (E41)	2011	Corn silage	17.0 Ton	70	55	140	160	56	136		
(b) (6) 42 (E42)	2011	Alfalfa topdress	6.0 Ton	0	80	0	270	78	300		
(b) (6) 43 (T43)	2011	Soybean	40.0 Bu	0	0	100	152	32	56		
(b) (6) 44 (T44)	2011	Soybean	40.0 Bu	0	0	90	152	32	56		
(b) (6) 45 (T45)	2011	Soybean	40.0 Bu	0	0	90	152	32	56		
M (b) (6) W (MK46A)	2011	Soybean	40.0 Bu	0	0	70	152	32	56		o
M (b) (6) W (MK46B)	2011	Soybean	40.0 Bu	0	0	70	152	32	56		o
M (b) (6) E (MK47)	2011	Alfalfa topdress	5.0 Ton	0	0	280	225	65	250		
(b) (6) NW (J48)	2011	Corn silage	20.0 Ton	140	0	180	188	66	160		
(b) (6) NW2 (J49)	2011	Corn silage	20.0 Ton	140	0	170	188	66	160		
(b) (6) W (J50)	2011	Wheat	70.0 Bu	80	0	70	84	44	26		
(b) (6) M (J51)	2011	Corn silage	20.0 Ton	140	0	60	188	66	160		
(b) (6) E (J52)	2011	Corn silage	20.0 Ton	140	0	105	188	66	160		
(b) (6) (JS53)	2011	Alfalfa topdress	7.0 Ton	0	0	300	315	91	350		
(b) (6) front (N57)	2011	Soybean	45.0 Bu	0	35	135	171	36	63		
(b) (6) 58 (N58A)	2011	Soybean	45.0 Bu	0	0	120	171	36	63		
(b) (6) 58 (N58B)	2011	Soybean	45.0 Bu	0	35	115	171	36	63		
(b) (6) 58 (N58C)	2011	Soybean	45.0 Bu	0	35	110	171	36	63		
(b) (6) 59 (N59)	2011	Soybean	45.0 Bu	0	0	115	171	36	63		
(b) (6) 60 (N60)	2011	Soybean	45.0 Bu	0	0	105	171	36	63		
(b) (6) South (MN61A)	2011	Wheat	75.0 Bu	85	0	30	90	47	28		
(b) (6) (MN61B)	2011	Corn silage	20.0 Ton	140	90	230	188	66	160		
(b) (6) Center (MN61C)	2011	Corn silage	20.0 Ton	140	30	180	188	66	160		
(b) (6) North (MN61D)	2011	Corn silage	20.0 Ton	140	65	205	188	66	160		

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Chesebro 40N (C65N)	2011	Alfalfa topdress	5.0 Ton	0	115	280	225	65	250		
Chesebro 65S (C65S)	2011	Corn silage	17.0 Ton	115	0	140	160	56	136		
Chesebro SW (C66)	2011	Alfalfa topdress	6.0 Ton	0	90	300	270	78	300		
Chesebro SM (C67)	2011	Legume-grass cover*	2	0	85[a]	105[a]	0	0	0	2t/acre 1st cutting	
Chesebro SM (C67)	2011	Corn silage	15.0 Ton	55	65	150	141	50	120		
Chesebro SE (C68)	2011	Alfalfa topdress	6.0 Ton	0	150	300	270	78	300		
Chesebro S back (C69)	2011	Alfalfa topdress	6.0 Ton	0	140	300	270	78	300		
Chesebro 70 (C70)	2011	Alfalfa seeding	3.0 Ton	0	110	185	135	39	150		
Chesebro 9ac (C72)	2011	Alfalfa seeding	3.0 Ton	0	60	175	135	39	150		
[redacted] (1&2)	2011	Alfalfa topdress	6.0 Ton	0	125	300	270	78	300		
[redacted] (3-5)	2011	Alfalfa topdress	6.0 Ton	0	100	300	270	78	300		
[redacted] (6&7)	2011	Alfalfa topdress	6.0 Ton	0	100	300	270	78	300		
[redacted] NW (BNW)	2011	Alfalfa topdress	6.0 Ton	0	80	300	270	78	300		
[redacted] W (B73W)	2011	Alfalfa topdress	6.0 Ton	0	25	300	270	78	300		
[redacted] E (B73E)	2011	Alfalfa topdress	6.0 Ton	0	105	300	270	78	300		
4th st (4th)	2011	Alfalfa topdress	5.0 Ton	0	65	300	225	65	250		
[redacted] (Thomp)	2011	Corn grain	140.0 Bu	165	0	40	126	52	38		
[redacted] (Kam)	2011	Corn silage	20.0 Ton	140	65	200	188	66	160		
Home Small (Home4)	2011	Corn silage	20.0 Ton	140	0	10	188	66	160		
[redacted] 4th (R-4th)	2011	Alfalfa topdress	6.0 Ton	0	85	300	270	78	300		
[redacted] (Pete)	2011	Corn silage	17.0 Ton	115	110	195	160	56	136		
[redacted] (Lev)	2011	Corn silage	20.0 Ton	140	65	200	188	66	160		
[redacted] Big (BK-C)	2011	Corn silage	20.0 Ton	140	20	175	188	66	160		
[redacted] north (BK-B)	2011	Corn silage	20.0 Ton	140	65	245	188	66	160		
[redacted] East (BK-A)	2011	Corn silage	20.0 Ton	140	0	225	188	66	160		
[redacted] SW (BK-D)	2011	Corn silage	20.0 Ton	140	0	190	188	66	160		
Division Front (Div-F)	2011	Corn grain	140.0 Bu	165	55	40	126	52	38		
Divsion Back (Div-B)	2011	Corn grain	140.0 Bu	165	80	50	126	52	38		
[redacted] (DW)	2011	Corn silage	20.0 Ton	140	65	20	188	66	160		
Auto Auction (AA)	2011	Corn grain	150.0 Bu	175			135	56	41		
[redacted] pasture (Pas-N)	2011	Pasture, int. grazing	3.0 Ton	160	15	60		15	60		
Catch basin pas (Pas-S)	2011	Pasture, int. grazing	3.0 Ton	160	0	0		15	60		
[redacted] N (ZandN)	2011	Corn silage	17.0 Ton	115	55	205	160	56	136		
[redacted] S (ZandS)	2011	Corn silage	17.0 Ton	115	55	215	160	56	136		
MapleView (NadE)	2011	Pasture, ext. grazing	5.0 Ton	200	0	0		38	150		

Walnutdale Dairy Nutrient 2012 Management Plan

- **Alfalfa Production**
  - All fields in alfalfa are managed for production of haylage. Yield goals are adjusted to target realistic harvest rates based on past production data.
  - Fertilizers are applied to alfalfa fields based on the targeted yield goals, current soil tests and manure applications that have occurred.
    - Walnutdale has implemented a grid based GPS soil sampling scheme on nearly all alfalfa fields. Broadcast applications of potash (0-0-62), MAP (11-52-0), and nitrogen sources (usually on new seeding fields only) are made after first cutting and in the fall. Foliar fertilizer is applied when applications occur.
- **Corn Production**
  - Fields planted to corn are chopped for silage or harvested as grain. Yield goals are adjusted based on past production data.
  - Fertilizer applications take into account targeted yield goals, current soil tests (and pre side-dress nitrogen tests PSNT, when applicable), and manure applications.
    - Potassium & Phosphorus management
      - Walnutdale manages manure to address as many of the P&K needs of corn crop production as they can. Low phosphorus fields are targeted for manure application, as are low potassium fields. This management redeems the most value from the manure applications.
      - After manure credits are applied, additional P&K are broadcast as needed based on grid based GPS soil testing results.
    - Nitrogen Management
      - Starter fertilizer is applied to all corn acres, fields that do not receive manure and are deficient in phosphorus are planted with a 10-34-0 starter program. Fields with adequate phosphorus levels receive minimal or no phosphorus in the starter program.
      - Manure applications are managed to maximize nitrogen retention based on application method and timing.
      - Pre-plant broadcast applications or nitrogen in the form of readily available nitrogen and slow release nitrogen are used on fields that do not receive manure applications. The nitrogen rates are based on projected yield goals.
      - Side-dress applications are performed based on PSNT results or previous nitrogen credits.
        - 28% liquid is applied with a side dress applicator or a broadcast of dry fertilizers is applied over the top of the corn at side dress stage.
      - Stalk testing at the end of season has been utilized by Walnutdale to verify the nitrogen programs are supplying sufficient nitrogen without over application.

- Wheat & Triticale Production
    - Fields receiving manure applications prior to wheat or triticale being planted do not receive any starter fertilizers.
    - Fields that will not receive manure will receive starter fertilizers in the form or potash, nitrogen and MAP (11-52-0) as needed base on soil tests and yield goals.
    - Nitrogen is applied in the spring as a broadcast application in the dry form.

Walnutdale Dairy 2012 Crop Plan & Recommendations

Field	Crop Year	Acres 2161.5	Planned Crop	Yield Goal (per Acre)	N Rec (Lbs/A)	P_2O_5 Rec (Lbs/A)	K_2O Rec (Lbs/A)	N Removed (Lbs/A)	P_2O_5 Removed (Lbs/A)	K_2O Removed (Lbs/A)	Custom Fert. Rec. Source	Notes
Home 1 (H1)	2012	25	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 2 (H2)	2012	17	Rye for cover*	9	60[a]	0	0	0	0	0	Triticale @ 9T/acre	
Home 2 (H2)	2012	17	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 3 (H3)	2012	24	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 4 (H4A)	2012	18	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 4 (H4B)	2012	19	Corn silage	20.0 Ton	140	0	0	188	66	160		
Home 4 (H4C)	2012	16	Alfalfa topdress	7.0 Ton	0	0	0	315	91	350		
Home 4 (H4D)	2012	17	Alfalfa topdress	7.0 Ton	0	0	0	315	91	350		
Home 5 (H5)	2012	21	Corn silage	21.0 Ton	150	70	175	197	69	168		
Home 6 (H6)	2012	22	Corn silage	21.0 Ton	150	70	200	197	69	168		
Home 7 (H7)	2012	15	Corn silage	21.0 Ton	150	0	15	197	69	168		
Home 8 (H8)	2012	14	Alfalfa topdress	6.0 Ton	0	0	20	270	78	300		
(b) (6) 9 (H9)	2012	30	Rye for cover*	9	60[a]	0	60[a]	0	0	0	9T triticale removal	
(b) (6) 9 (H9)	2012	30	Corn silage	17.0 Ton	115	0	150	160	56	136		
(b) (6) (M13)	2012	23	Alfalfa topdress	7.0 Ton	0	45	300	315	91	350		
(b) (6) West (D14)	2012	25	Rye for cover*	9	60[a]	0	60[a]	0	0	0	9T triticale removal	
(b) (6) West (D14)	2012	25	Corn silage	17.0 Ton	115	0	150	160	56	136		
(b) (6) West (D15)	2012	20	Rye for cover*	9	60[a]	0	45[a]	0	0	0	9T triticale removal	
(b) (6) West (D15)	2012	20	Corn silage	17.0 Ton	115	0	130	160	56	136		
(b) (6) NW (D16)	2012	18	Corn silage	20.0 Ton	140	75	190	188	66	160		
(b) (6) Front (D17A)	2012	18	Alfalfa topdress	6.0 Ton	0	0	0	270	78	300		
(b) (6) front (D17B)	2012	20	Alfalfa topdress	6.0 Ton	0	0	0	270	78	300		
(b) (6) Back (D18)	2012	18	Corn silage	20.0 Ton	140	75	190	188	66	160		
(b) (6) Corn (D19)	2012	57	Corn silage	20.0 Ton	140	0	0	188	66	160		
Wingers (W22A)	2012	20	Rye for cover*	9	60[a]	0	45[a]	0	0	0	Triticale @ 9t/acre	
Wingers (W22A)	2012	20	Corn silage	20.0 Ton	140	0	0	188	66	160		
Wingers (W22B)	2012	20	Rye for cover*	9	60[a]	0	45[a]	0	0	0	Triticale @ 9t/acre	
Wingers (W22B)	2012	20	Corn silage	20.0 Ton	140	0	0	188	66	160		
(b) (6) W Front (K26A)	2012	6	Corn silage	17.0 Ton	115	55	175	160	56	136		
(b) (6) W Back (K26B)	2012	3	Corn silage	17.0 Ton	115	110	230	160	56	136		
(b) (6) 146th (LM32)	2012	14	Corn silage	17.0 Ton	115	60	185	160	56	136		
(b) (6) (b) (6) (JS33)	2012	23	Corn silage	20.0 Ton	140	45	40	188	66	160		
(b) (6) (C34)	2012	24	Corn silage	17.0 Ton	115	55	200	160	56	136		
(b) (6) (C-35)	2012	11	Corn silage	17.0 Ton	115	0	175	160	56	136		
(b) (6) (C-36)	2012	7	Corn silage	17.0 Ton	115	5	205	160	56	136		
United Bank N (UB37A)	2012	22	Corn silage	20.0 Ton	140	65	255	188	66	160		
United Bank S (UB37B)	2012	22	Corn silage	20.0 Ton	140	55	180	188	66	160		
Wingers 14th (W38A)	2012	20	Corn silage	20.0 Ton	140	0	0	188	66	160		

Walnutdale Dairy 2012 Crop Plan & Recommendations

Field	Crop Year	Acres 2161.5	Planned Crop	Yield Goal (per Acre)	N Rec (Lbs/A)	P_2O_5 Rec (Lbs/A)	K_2O Rec (Lbs/A)	N Removed (Lbs/A)	P_2O_5 Removed (Lbs/A)	K_2O Removed (Lbs/A)	Custom Fert. Rec. Source	Notes
Wingers 14th (W38B)	2012	20	Corn silage	20.0 Ton	140	0	0	188	66	160		
(b) (6) [redacted] 134th (N40A)	2012	18	Alfalfa topdress	6.0 Ton	0	105	160	270	78	300		
(b) (6) [redacted] 134th (N40B)	2012	15	Alfalfa topdress	6.0 Ton	0	105	160	270	78	300		
(b) (6) [redacted] 135th (N40C)	2012	4	Corn silage	17.0 Ton	115	0	5	160	56	136		
(b) (6) [redacted] N (E41)	2012	17	Corn silage	20.0 Ton	140	65	165	188	66	160		
(b) (6) [redacted] 42 (E42)	2012	45	Alfalfa topdress	6.0 Ton	0	80	0	270	78	300		
(b) (6) [redacted] 43 (T43)	2012	13	Corn grain	140.0 Bu	135	0	80	126	52	38		
(b) (6) [redacted] 44 (T44)	2012	11	Corn grain	140.0 Bu	135	0	70	126	52	38		
(b) (6) [redacted] 45 (T45)	2012	12	Corn grain	140.0 Bu	135	0	75	126	52	38		
M (b) (6) [redacted] E (MK47)	2012	25	Alfalfa topdress	5.0 Ton	0	0	280	225	65	250		
(b) (6) [redacted] NW (J48)	2012	15	Corn silage	18.0 Ton	125	0	165	169	59	144		
(b) (6) [redacted] NW2 (J49)	2012	14	Rye for cover*	9	60[a]	0	55[a]	0	0	0	Triticale 9T/acre	
(b) (6) [redacted] NW2 (J49)	2012	14	Corn silage	18.0 Ton	125	0	155	169	59	144		
(b) (6) [redacted] W (J50)	2012	28	Corn silage	18.0 Ton	125	0	185	169	59	144		
(b) (6) [redacted] M (J51)	2012	68	Corn silage	18.0 Ton	125	0	55	169	59	144		
(b) (6) [redacted] E (J52)	2012	38	Wheat	75.0 Bu	85	0	30	90	47	28		
(b) (6) [redacted] (JS53)	2012	90	Alfalfa topdress	7.0 Ton	0	0	300	315	91	350		
(b) (6) [redacted] front (N57)	2012	4	Rye for cover*	4	60[a]	15[a]	115[a]	0	0	0	Tritical chopped 9T/acre	
(b) (6) [redacted] front (N57)	2012	4	Corn silage	15.0 Ton	100	50	190	141	50	120		
(b) (6) [redacted] 58 (N58A)	2012	17	Rye for cover*	4	60[a]	0	100[a]	0	0	0	Tritical chopped 9T/acre	
(b) (6) [redacted] 58 (N58A)	2012	17	Corn silage	15.0 Ton	100	0	175	141	50	120		
(b) (6) [redacted] 58 (N58B)	2012	19	Rye for cover*	4	60[a]	15[a]	100[a]	0	0	0	Tritical chopped 9T/acre	
(b) (6) [redacted] 58 (N58B)	2012	19	Corn silage	15.0 Ton	100	50	175	141	50	120		
(b) (6) [redacted] 58 (N58C)	2012	9	Rye for cover*	4	60[a]	15[a]	95[a]	0	0	0	Tritical chopped 9T/acre	
(b) (6) [redacted] 58 (N58C)	2012	9	Corn silage	15.0 Ton	100	50	165	141	50	120		
(b) (6) [redacted] 59 (N59)	2012	9	Rye for cover*	4	60[a]	0	100[a]	0	0	0	Tritical chopped 9T/acre	
(b) (6) [redacted] 59 (N59)	2012	9	Corn silage	15.0 Ton	100	0	175	141	50	120		
(b) (6) [redacted] 60 (N60)	2012	17	Rye for cover*	4	60[a]	0	85[a]	0	0	0	Tritical chopped 9T/acre	
(b) (6) [redacted] 60 (N60)	2012	17	Corn silage	15.0 Ton	100	0	160	141	50	120		
(b) (6) [redacted] South (MN61A)	2012	17	Corn silage	20.0 Ton	140	0	0	188	66	160		
(b) (6) [redacted] (MN61B)	2012	16	Corn silage	20.0 Ton	140	90	230	188	66	160		
(b) (6) [redacted] Center (MN61C)	2012	16	Corn silage	20.0 Ton	140	30	180	188	66	160		
(b) (6) [redacted] North (MN61D)	2012	33	Corn silage	20.0 Ton	140	65	205	188	66	160		
Chesebro 40N (C65N)	2012	30	Alfalfa topdress	5.0 Ton	0	115	280	225	65	250		
Chesebro 65S (C65S)	2012	6	Corn silage	17.0 Ton	115	0	140	160	56	136		
Chesebro SW (C66)	2012	20	Alfalfa topdress	6.0 Ton	0	90	300	270	78	300		
Chesebro SM (C67)	2012	17	Corn silage	20.0 Ton	140	85	190	188	66	160		
Chesebro SE (C68)	2012	24	Alfalfa topdress	6.0 Ton	0	150	300	270	78	300		

Walnutdale Dairy 2012 Crop Plan & Recommendations

Field	Crop Year	Acres 2161.5	Planned Crop	Yield Goal (per Acre)	N Rec (Lbs/A)	P_2O_5 Rec (Lbs/A)	K_2O Rec (Lbs/A)	N Removed (Lbs/A)	P_2O_5 Removed (Lbs/A)	K_2O Removed (Lbs/A)	Custom Fert. Rec. Source	Notes
Chesebro S back (C69)	2012	7	Alfalfa topdress	6.0 Ton	0	140	300	270	78	300		
Chesebro 70 (C70)	2012	25	Alfalfa topdress	5.0 Ton	0	135	285	225	65	250		
Chesebro 9ac (C72)	2012	7	Alfalfa topdress	5.0 Ton	0	85	275	225	65	250		
(b)(6) (b)(6) (1&2)	2012	38	Alfalfa topdress	6.0 Ton	0	125	300	270	78	300		
(b)(6) (b)(6) (3-5)	2012	56	Alfalfa topdress	6.0 Ton	0	100	300	270	78	300		
(b)(6) (b)(6) (6&7)	2012	28	Alfalfa topdress	6.0 Ton	0	100	300	270	78	300		
(b)(6) NW (BNW)	2012	3	Alfalfa topdress	6.0 Ton	0	80	300	270	78	300		
(b)(6) W (B73W)	2012	14	Alfalfa topdress	6.0 Ton	0	25	300	270	78	300		
(b)(6) E (B73E)	2012	18	Alfalfa topdress	6.0 Ton	0	105	300	270	78	300		
4th st (4th)	2012	5	Alfalfa topdress	5.0 Ton	0	65	300	225	65	250		
(b)(6) (Thomp)	2012	25	Corn silage	20.0 Ton	140	0	60	188	66	160		
(b)(6) (Kam)	2012	28	Rye for cover*	9	60[a]	15[a]	85[a]	0	0	0	Triticale @ 9t/acre	
(b)(6) (Kam)	2012	28	Corn silage	17.0 Ton	115	55	175	160	56	136		
Home Small (Home4)	2012	4	Corn silage	20.0 Ton	140	0	10	188	66	160		
(b)(6) 4th (R-4th)	2012	22	Alfalfa topdress	6.0 Ton	0	85	300	270	78	300		
(b)(6) (Pete)	2012	14	Corn silage	17.0 Ton	115	110	195	160	56	136		
(b)(6) (Lev)	2012	45	Corn silage	20.0 Ton	140	65	200	188	66	160		
(b)(6) Big (BK-C)	2012	43	Corn silage	20.0 Ton	140	20	175	188	66	160		
(b)(6) north (BK-B)	2012	15	Corn silage	20.0 Ton	140	65	245	188	66	160		
(b)(6) East (BK-A)	2012	14	Corn silage	20.0 Ton	140	0	225	188	66	160		
(b)(6) SW (BK-D)	2012	11	Corn silage	20.0 Ton	140	0	190	188	66	160		
Division Front (Div-F)	2012	14	Corn silage	17.0 Ton	115	60	140	160	56	136		
Divsion Back (Div-B)	2012	10	Corn silage	17.0 Ton	115	85	145	160	56	136		
(b)(6) DW)	2012	41	Corn silage	20.0 Ton	140	65	20	188	66	160		
Auto Auction (AA)	2012	3.5	Corn silage	20.0 Ton	140			188	66	160		
(b)(6) pasture (Pas-N)	2012	8	Pasture, int. grazing	3.0 Ton	160	15	60		15	60		
Catch basin pas (Pas-S)	2012	4	Pasture, int. grazing	3.0 Ton	160	0	0		15	60		
(b)(6) N (ZandN)	2012	32	Corn silage	17.0 Ton	115	55	205	160	56	136		
(b)(6) S (ZandS)	2012	34	Corn silage	17.0 Ton	115	55	215	160	56	136		
MapleView (NadE)	2012	28	Corn silage	21.0 Ton	150	0	0	197	69	168		

Indicate fields that are calling for phosphorus applicaitions. First fields targeted for manure application (1,013 acres)
Indicate fiels that are calling for potassium applications. Second set of fields targed for manrue application (1,474 acres)