Acreage summary

Manure Application Risk Index Summary						
Total field acres:	**1600.6**					
Acres by risk category (below):						
Very low Field number:			0			
Acres:						
Low Field number:						
Acres:						
Medium Field number:						
Acres:						
High Field number:	H1	H2	H3	H4A	H4B	H4C
Acres:	25	17	24	18	19	16
Total acres by risk category:	**0**	**69**	**782**	**749.6**	**1600.6**	
	V. low	**Low**	**Medium**	**High**	**Total**	
Total V. low & Low risk acres	**69**					

Michigan MARI	Manure Application Risk Index									
Version 4 Nov 2008	Fill in shaded areas only!			ctrl "c" to clear sheet						
Business Name:	Walnutdale Dairy				Date	10/5/2011				
Farm name:										
Tract Numbers:										
Section:										
Field No:	H1	H2	H3	H4A	H4B	H4C	H4D	H5	H6	H7
Acres:	25	17	24	18	19	16	17	21	22	15
FIELD FEATURES "INPUT"										
I. SOIL										
If drained, enter Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Insert Soil Series	capac	capac	marlette	marlette	marlette	marlette	capac	capac	capac	capac
1. Soil Hydrologic Group	C	C	B	B	B	B	C	C	C	C
2. Soil Management Group (SMG)	2.5b-s	2.5b-s	2.5a	2.5a	2.5a	2.5a	2.5b-s	2.5b-s	2.5b-s	2.5b-s
3. Percent Slope	4	2	12	9	3	6	4	8	8	3
II. WATER QUALITY										
4. Soil Test Phosphorus Value	253	266	211	175	222	166	165	47	52	266
5. Conc. Water/Surface Inlet	S	S	S	S	P	S	F	P	S	S
6. Nitrogen leaching Index	M	M	M	M	M	M	M	M	M	M
Prompt for cell above	Map	Map	m	m	m	m	Map	Map	Map	Map
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	20	20	20	20	20	70	70	20	20	20
8. Surface Water Setback	4	4	4	1	4	8	1	4	4	4
9. Vegetative Buffer Width	10	10	10	NA	10	5	NA	10	10	NA
IV. MANURE										
10. Manure Phosphorus Application	66	66	66	66	66	72	72	66	66	66
11. Manure Nitrogen Application	80	80	80	80	80	40	40	80	80	80
12. Manure Application Method	1	1	1	1	1	8	8	1	1	1
Manure Application Description	(1)DI Direct Inject (2)SI Surface apply incorp. In 2 days (4)S<3 Surf. apply incorp. In 90 days (8)S>3 Surf. apply left more than 90 days									

Michigan MARI	**Manure Application Risk Index**									
Version 4 Nov 2008	Fill in shaded areas only!			ctrl "c" to clear sheet						
Business Name:	**Walnutdale Dairy**				**Date**	**10/5/2011**				
Farm name:										
Tract Numbers:										
Section:										
Field No:	H1	H2	H3	H4A	H4B	H4C	H4D	H5	H6	H7
Acres:	25	17	24	18	19	16	17	21	22	15
FIELD FEATURES "OUTPUT"										
I. SOIL	**2.5b-s**	**2.5b-s**	**2.5a**	**2.5a**	**2.5a**	**2.5a**	**2.5b-s**	**2.5b-s**	**2.5b-s**	**2.5b-s**
1. Soil Hydrologic Group	4	4	2	2	2	2	4	4	4	4
2. Soil Management Group	2	2	2	2	2	2	2	2	2	2
3. Percent Slope	4	2	8	8	2	4	4	8	8	2
II. WATER QUALITY										
4. Soil Test Phosphorus Value	12	12	12	12	12	12	12	3	3	12
5. Conc. water flow or inlet discharge	6	6	6	6	1.5	6	3	1.5	6	6
6. Nitrogen Leaching Index for SMG	6	6	6	6	6	6	6	6	6	6
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	4	4	4	4	4	1	1	4	4	4
8. Surface Water Setback	4	4	4	1	4	8	1	4	4	4
9. Vegetative Buffer Width	12	12	12	1.5	12	12	1.5	12	12	1.5
IV. MANURE										
10. Manure "P" Application	4	4	4	4	4	4	4	4	4	4
11. Manure "N" Application	2	2	2	2	2	1	1	2	2	2
12. Manure Application Method	1	1	1	1	1	8	8	1	1	1
Field Features Index Totals	61	59	63	49.5	52.5	66	47.5	51.5	56	48.5
	High	High	High	High	High	High	High	High	High	High
Total Acres by MARI risk	0	69	782	749.6	1600.6					
Category	V. low	Low	Medium	High	Total		69	Total Low and Very low risk ac		

Michigan MARI	
Version 4 Nov 2008	
Business Name:	
Farm name:	
Tract Numbers:	
Section:	
Field No:	H8
Acres:	14
FIELD FEATURES "INPUT"	
I. SOIL	
If drained, enter Y	
Insert Soil Series	**oshtemo**
1. Soil Hydrologic Group	**B**
2. Soil Management Group (SMG)	**4a**
3. Percent Slope	**6**
II. WATER QUALITY	
4. Soil Test Phosphorus Value	**256**
5. Conc. Water/Surface Inlet	**S**
6. Nitrogen leaching Index	**M**
Prompt for cell above	**m**
III. SURFACE COVER	
7. Residue/Cover Crops/Per. Cover	**70**
8. Surface Water Setback	**8**
9. Vegetative Buffer Width	**10**
IV. MANURE	
10. Manure Phosphorus Application	**72**
11. Manure Nitrogen Application	**40**
12. Manure Application Method	**8**
Manure Application Description	

Michigan MARI	
Version 4 Nov 2008	
Business Name:	
Farm name:	
Tract Numbers:	
Section:	
Field No:	H8
Acres:	14
FIELD FEATURES "OUTPUT"	
I. SOIL	**4a**
1. Soil Hydrologic Group	**2**
2. Soil Management Group	**2**
3. Percent Slope	**4**
II. WATER QUALITY	
4. Soil Test Phosphorus Value	**12**
5. Conc. water flow or inlet discharge	**6**
6. Nitrogen Leaching Index for SMG	**6**
III. SURFACE COVER	
7. Residue/Cover Crop/Per. Cover	**1**
8. Surface Water Setback	**8**
9. Vegetative Buffer Width	**12**
IV. MANURE	
10. Manure "P" Application	**4**
11. Manure "N" Application	**1**
12. Manure Application Method	**8**
Field Features Index Totals	**66**
	High
Total Acres by MARI risk	
Category	**res**

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	H9	M13	D14	D15	D16	D17A	D17B	D18	D19	W22A
Acres:	30	23	25	20	18	18	20	18	56.6	20
FIELD FEATURES "INPUT"										
I. SOIL										
If drained, enter Y	Y	Y						Y	Y	Y
Insert Soil Series	chelsea	metea	marlette	marlette	marlette	marlette	marlette	marlette	marlette	rimer
1. Soil Hydrologic Group	A	B	B	B	B	B	B	B	B	C
2. Soil Management Group (SMG)	5a	4/2a	2.5a	2.5a	2.5a	2.5a	2.5a	2.5a	2.5a	3b
3. Percent Slope	6	6	5	12	9	8	6	8	6	4
II. WATER QUALITY										
4. Soil Test Phosphorus Value	338	90	130	129	26	138	138	26	201	152
5. Conc. Water/Surface Inlet	S	S	F	F	F	F	F	S	S	S
6. Nitrogen leaching Index	M	M	M	M	M	M	M	M	M	M
Prompt for cell above	Map	m	m	m	m	m	m	m	m	Map
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	20	70	20	20	20	70	70	20	20	20
8. Surface Water Setback	4	4	4	1	2	8	8	4	4	4
9. Vegetative Buffer Width	10	NA	15	NA	NA	NA	NA	10	5	5
IV. MANURE										
10. Manure Phosphorus Application	0	65	66	66	66	72	72	66	66	66
11. Manure Nitrogen Application	0	40	80	80	80	40	40	80	80	80
12. Manure Application Method		8	1	1	1	8	8	1	1	1
Manure Application Description										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	H9	M13	D14	D15	D16	D17A	D17B	D18	D19	W22A
Acres:	30	23	25	20	18	18	20	18	56.6	20
FIELD FEATURES "OUTPUT"										
I. SOIL	**5a**	**4/2a**	**2.5a**	**2.5a**	**2.5a**	**2.5a**	**2.5a**	**2.5a**	**2.5a**	**3b**
1. Soil Hydrologic Group	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**4**
2. Soil Management Group	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
3. Percent Slope	**4**	**4**	**4**	**8**	**8**	**8**	**4**	**8**	**4**	**4**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**12**	**6**	**6**	**6**	**1.5**	**6**	**6**	**1.5**	**12**	**12**
5. Conc. water flow or inlet discharge	**6**	**6**	**3**	**3**	**3**	**3**	**3**	**6**	**6**	**6**
6. Nitrogen Leaching Index for SMG	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	**4**	**1**	**4**	**4**	**4**	**1**	**1**	**4**	**4**	**4**
8. Surface Water Setback	**4**	**4**	**4**	**1**	**2**	**8**	**8**	**4**	**4**	**4**
9. Vegetative Buffer Width	**12**	**1.5**	**12**	**1.5**	**1.5**	**1.5**	**1.5**	**12**	**12**	**12**
IV. MANURE										
10. Manure "P" Application	**1**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**
11. Manure "N" Application	**1**	**1**	**2**	**2**	**2**	**1**	**1**	**2**	**2**	**2**
12. Manure Application Method	**0**	**8**	**1**	**1**	**1**	**8**	**8**	**1**	**1**	**1**
Field Features Index Totals	**52**	**45.5**	**50**	**40.5**	**37**	**50.5**	**46.5**	**52.5**	**59**	**61**
	High	**Medium**	**Medium**	**High**	**High**	**High**	**Medium**	**High**	**High**	**High**
Total Acres by MARI risk										
Category										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	W22B	K26A	K26B	LM32	JS33	C34	C35	C36	UB37A	UB37B
Acres:	20	6	3	17	23	24	11	7	23	23
FIELD FEATURES "INPUT"										
I. SOIL										
If drained, enter Y	Y									
Insert Soil Series	**rimer**	**blount**	**glynwood**	**ockley**	**rimer**	**metamora**	**osthemo**	**thetford**	**metea**	**metea**
1. Soil Hydrologic Group	**C**	**C**	**C**	**B**	**C**	**B**	**B**	**B**	**B**	**B**
2. Soil Management Group (SMG)	**3b**	**1.5b**	**1.5b**	**2.5a**	**3b**	**3/2b**	**3/2a**	**4b**	**4/2a**	**4/2a**
3. Percent Slope	**4**	**6**	**6**	**8**	**4**	**2**	**2**	**2**	**6**	**6**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**152**	**37**	**8**	**42**	**66**	**74**	**105**	**96**	**80**	**104**
5. Conc. Water/Surface Inlet	**F**	**F**	**F**	**F**	**S**	**F**	**F**	**F**	**s**	**s**
6. Nitrogen leaching Index	**M**	**M**	**M**	**M**	**M**	**M**	**M**	**M**	**m**	**m**
Prompt for cell above	**Map**	**Map**	**Map**	**m**	**Map**	**m**	**m**	**m**	**m**	**m**
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	**20**	**45**	**45**	**45**	**40**	**20**	**20**	**20**	**35**	**35**
8. Surface Water Setback	**4**	**4**	**1**	**1**	**4**	**4**	**4**	**4**	**4**	**4**
9. Vegetative Buffer Width	**NA**	**NA**	**NA**	**NA**	**2**	**NA**	**NA**	**NA**	**5**	**5**
IV. MANURE										
10. Manure Phosphorus Application	**66**	**0**	**0**	**66**	**66**	**66**	**66**	**66**	**66**	**66**
11. Manure Nitrogen Application	**80**	**0**	**0**	**80**	**80**	**80**	**80**	**80**	**80**	**80**
12. Manure Application Method	**1**			**1**	**1**	**1**	**1**	**1**	**1**	**1**
Manure Application Description										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	W22B	K26A	K26B	LM32	JS33	C34	C35	C36	UB37A	UB37B
Acres:	20	6	3	17	23	24	11	7	23	23
FIELD FEATURES "OUTPUT"										
I. SOIL	**3b**	**1.5b**	**1.5b**	**2.5a**	**3b**	**3/2b**	**3/2a**	**4b**	**4/2a**	**4/2a**
1. Soil Hydrologic Group	**4**	**4**	**4**	**2**	**4**	**2**	**2**	**2**	**2**	**2**
2. Soil Management Group	**2**	**4**	**4**	**2**	**2**	**2**	**2**	**1**	**2**	**2**
3. Percent Slope	**4**	**4**	**4**	**8**	**4**	**2**	**2**	**2**	**4**	**4**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**12**	**1.5**	**1.5**	**3**	**3**	**3**	**6**	**6**	**6**	**6**
5. Conc. water flow or inlet discharge	**3**	**3**	**3**	**3**	**6**	**3**	**3**	**3**	**6**	**6**
6. Nitrogen Leaching Index for SMG	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	**4**	**1**	**1**	**1**	**1**	**4**	**4**	**4**	**2**	**2**
8. Surface Water Setback	**4**	**4**	**1**	**1**	**4**	**4**	**4**	**4**	**4**	**4**
9. Vegetative Buffer Width	**1.5**	**1.5**	**1.5**	**1.5**	**12**	**1.5**	**1.5**	**1.5**	**12**	**12**
IV. MANURE										
10. Manure "P" Application	**4**	**1**	**1**	**4**	**4**	**4**	**4**	**4**	**4**	**4**
11. Manure "N" Application	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
12. Manure Application Method	**1**	**0**	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Field Features Index Totals	**47.5**	**31**	**28**	**34.5**	**49**	**34.5**	**37.5**	**36.5**	**51**	**51**
	High	**Low**	**Low**	**High**	**Medium**	**Low**	**Low**	**Low**	**Medium**	**Medium**
Total Acres by MARI risk										
Category										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	W38A	W38B	N40A	N40B	N40C	E41	E42	T43	T44	T45
Acres:	20	20	18	15	4	17	45	13	11	12
FIELD FEATURES "INPUT"										
I. SOIL					**Drained?**					
If drained, enter Y	Y	Y	Y	Y	Y					
Insert Soil Series	capac	capac	glynwood	blount	cohoctah	capac	blount	metea	metea	metea
1. Soil Hydrologic Group	C	C	C	C	B	C	C	B	B	B
2. Soil Management Group (SMG)	2.5b-s	2.5b-s	1.5b	1.5b	L-2c	2.5b-s	1.5b	4/2a	4/2a	4/2a
3. Percent Slope	2	2	1	2	1	2	4	6	6	6
II. WATER QUALITY										
4. Soil Test Phosphorus Value	114	114	39	39	92	35	70	206	118	166
5. Conc. Water/Surface Inlet	p	p	p	f	p	f	f	s	f	f
6. Nitrogen leaching Index	m	m	m	m	m	m	m	m	m	m
Prompt for cell above	Map	Map	Map	Map	m	Map	Map	m	m	m
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	20	20	70	70	20	20	70	35	35	35
8. Surface Water Setback	4	4	8	8	4	4	4	4	4	4
9. Vegetative Buffer Width	5	5	10	10	10	5	na	5	5	5
IV. MANURE										
10. Manure Phosphorus Application	66	66	72	72	66	66	72	0	0	0
11. Manure Nitrogen Application	80	80	40	40	80	80	40	0	0	0
12. Manure Application Method	1	1	8	8	1	1	8			
Manure Application Description										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	W38A	W38B	N40A	N40B	N40C	E41	E42	T43	T44	T45
Acres:	20	20	18	15	4	17	45	13	11	12
FIELD FEATURES "OUTPUT"										
I. SOIL	**2.5b-s**	**2.5b-s**	**1.5b**	**1.5b**	**L-2c**	**2.5b-s**	**1.5b**	**4/2a**	**4/2a**	**4/2a**
1. Soil Hydrologic Group	**4**	**4**	**4**	**4**	**2**	**4**	**4**	**2**	**2**	**2**
2. Soil Management Group	**2**	**2**	**4**	**4**	**8**	**2**	**4**	**2**	**2**	**2**
3. Percent Slope	**2**	**2**	**1**	**2**	**1**	**2**	**4**	**4**	**4**	**4**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**6**	**6**	**1.5**	**1.5**	**6**	**1.5**	**3**	**12**	**6**	**12**
5. Conc. water flow or inlet discharge	**1.5**	**1.5**	**1.5**	**3**	**1.5**	**3**	**3**	**6**	**3**	**3**
6. Nitrogen Leaching Index for SMG	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	**4**	**4**	**1**	**1**	**4**	**4**	**1**	**2**	**2**	**2**
8. Surface Water Setback	**4**	**4**	**8**	**8**	**4**	**4**	**4**	**4**	**4**	**4**
9. Vegetative Buffer Width	**12**	**12**	**12**	**12**	**12**	**12**	**1.5**	**12**	**12**	**12**
IV. MANURE										
10. Manure "P" Application	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**1**	**1**	**1**
11. Manure "N" Application	**2**	**2**	**1**	**1**	**2**	**2**	**1**	**1**	**1**	**1**
12. Manure Application Method	**1**	**1**	**8**	**8**	**1**	**1**	**8**	**0**	**0**	**0**
Field Features Index Totals	**48.5**	**48.5**	**52**	**54.5**	**51.5**	**45.5**	**43.5**	**52**	**43**	**49**
	Medium	**Medium**	**Medium**	**Medium**	**Medium**	**Medium**	**Medium**	**High**	**Medium**	**High**
Total Acres by MARI risk										
Category										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	MK47	J48	J49	J50	J51	J52	JS53	N57	N58A	N58B
Acres:	25	15	14	28	68	38	90	4	17	19
FIELD FEATURES "INPUT"										
I. SOIL										
If drained, enter Y										
Insert Soil Series	chelsea	chelsea	chelsea	chelsea	chelsea	chelsea	chelsea	metea	marlette	metea
1. Soil Hydrologic Group	A	A	A	A	A	A	A	B	B	B
2. Soil Management Group (SMG)	5a	5a	5a	5a	5a	5a	5a	4/2a	2.5a	4/2a
3. Percent Slope	8	2	2	4	4	6	6	6	12	8
II. WATER QUALITY										
4. Soil Test Phosphorus Value	118	131	215	173	250	121	132	58	176	50
5. Conc. Water/Surface Inlet	f	f	f	f	f	f	p	s	f	f
6. Nitrogen leaching Index	h	h	h	h	h	h	h	m	m	m
Prompt for cell above	Map	Map	Map	Map	Map	Map	Map	m	m	m
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	70	20	20	20	20	20	70	35	35	35
8. Surface Water Setback	4	1	2	2	4	4	2	4	2	2
9. Vegetative Buffer Width	5	na	5	5	5	5	5	3	na	na
IV. MANURE										
10. Manure Phosphorus Application	0	66	66	66	66	66	72	40	40	40
11. Manure Nitrogen Application	0	80	80	80	80	80	40	30	30	30
12. Manure Application Method		1	1	1	1	1	8	1	1	1
Manure Application Description										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	MK47	J48	J49	J50	J51	J52	JS53	N57	N58A	N58B
Acres:	25	15	14	28	68	38	90	4	17	19
FIELD FEATURES "OUTPUT"										
I. SOIL	**5a**	**5a**	**5a**	**5a**	**5a**	**5a**	**5a**	**4/2a**	**2.5a**	**4/2a**
1. Soil Hydrologic Group	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**
2. Soil Management Group	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**
3. Percent Slope	**8**	**2**	**2**	**4**	**4**	**4**	**4**	**4**	**8**	**8**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**6**	**6**	**12**	**12**	**12**	**6**	**6**	**3**	**12**	**3**
5. Conc. water flow or inlet discharge	**3**	**3**	**3**	**3**	**3**	**3**	**1.5**	**6**	**3**	**3**
6. Nitrogen Leaching Index for SMG	**12**	**12**	**12**	**12**	**12**	**12**	**12**	**6**	**6**	**6**
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	**1**	**4**	**4**	**4**	**4**	**4**	**1**	**2**	**2**	**2**
8. Surface Water Setback	**4**	**1**	**2**	**2**	**4**	**4**	**2**	**4**	**2**	**2**
9. Vegetative Buffer Width	**12**	**1.5**	**12**	**12**	**12**	**12**	**12**	**12**	**1.5**	**1.5**
IV. MANURE										
10. Manure "P" Application	**1**	**4**	**4**	**4**	**4**	**4**	**4**	**2**	**2**	**2**
11. Manure "N" Application	**1**	**2**	**2**	**2**	**2**	**2**	**1**	**1**	**1**	**1**
12. Manure Application Method	**0**	**1**	**1**	**1**	**1**	**1**	**8**	**1**	**1**	**1**
Field Features Index Totals	**50**	**38.5**	**56**	**58**	**60**	**54**	**53.5**	**45**	**42.5**	**33.5**
	High	**Medium**	**High**	**High**	**High**	**Medium**	**Medium**	**Medium**	**High**	**High**
Total Acres by MARI risk										
Category										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	N58C	N59	N60	MN61A	MN61B	MN61C	MN61D	C65N	C65S	C66
Acres:	9	9	17	17	16	16	33	30	6	20
FIELD FEATURES "INPUT"										
I. SOIL										
If drained, enter Y				Y						
Insert Soil Series	**marlette**	**marlette**	**marlette**	**capac**	**capac**	**capac**	**capac**	**marlette**	**marlette**	**marlette**
1. Soil Hydrologic Group	**B**	**B**	**B**	**C**	**C**	**C**	**C**	**B**	**B**	**B**
2. Soil Management Group (SMG)	**2.5a**	**2.5a**	**2.5a**	**2.5b-s**	**2.5b-s**	**2.5b-s**	**2.5b-s**	**2.5a**	**2.5a**	**2.5a**
3. Percent Slope	**6**	**6**	**8**	**4**	**8**	**6**	**6**	**4**	**4**	**6**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**44**	**106**	**90**	**103**	**32**	**38**	**63**	**31**	**67**	**45**
5. Conc. Water/Surface Inlet	**f**	**f**	**s**	**s**	**s**	**s**	**f**	**f**	**f**	**s**
6. Nitrogen leaching Index	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**
Prompt for cell above	**m**	**m**	**m**	**Map**	**Map**	**Map**	**Map**	**m**	**m**	**m**
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	**35**	**35**	**35**	**35**	**20**	**20**	**20**	**70**	**20**	**20**
8. Surface Water Setback	**2**	**2**	**4**	**4**	**4**	**4**	**4**	**8**	**4**	**4**
9. Vegetative Buffer Width	**na**	**na**	**2**	**2**	**2**	**0**	**0**	**na**	**3**	**3**
IV. MANURE										
10. Manure Phosphorus Application	**40**	**40**	**40**	**66**	**66**	**66**	**66**	**72**	**66**	**66**
11. Manure Nitrogen Application	**30**	**30**	**30**	**80**	**80**	**80**	**80**	**40**	**80**	**80**
12. Manure Application Method	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**8**	**1**	**1**
Manure Application Description										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	N58C	N59	N60	MN61A	MN61B	MN61C	MN61D	C65N	C65S	C66
Acres:	9	9	17	17	16	16	33	30	6	20
FIELD FEATURES "OUTPUT"										
I. SOIL	**2.5a**	**2.5a**	**2.5a**	**2.5b-s**	**2.5b-s**	**2.5b-s**	**2.5b-s**	**2.5a**	**2.5a**	**2.5a**
1. Soil Hydrologic Group	**2**	**2**	**2**	**4**	**4**	**4**	**4**	**2**	**2**	**2**
2. Soil Management Group	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**
3. Percent Slope	**4**	**4**	**8**	**4**	**8**	**4**	**4**	**4**	**4**	**4**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**3**	**6**	**6**	**6**	**1.5**	**1.5**	**3**	**1.5**	**3**	**3**
5. Conc. water flow or inlet discharge	**3**	**3**	**6**	**6**	**6**	**6**	**3**	**3**	**3**	**6**
6. Nitrogen Leaching Index for SMG	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	**2**	**2**	**2**	**2**	**4**	**4**	**4**	**1**	**4**	**4**
8. Surface Water Setback	**2**	**2**	**4**	**4**	**4**	**4**	**4**	**8**	**4**	**4**
9. Vegetative Buffer Width	**1.5**	**1.5**	**12**	**12**	**12**	**12**	**12**	**1.5**	**12**	**12**
IV. MANURE										
10. Manure "P" Application	**2**	**2**	**2**	**4**	**4**	**4**	**4**	**4**	**4**	**4**
11. Manure "N" Application	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**1**	**2**	**2**
12. Manure Application Method	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**8**	**1**	**1**
Field Features Index Totals	**29.5**	**32.5**	**52**	**53**	**54.5**	**50.5**	**49**	**42**	**47**	**50**
	Low	**Low**	**High**	**Medium**	**High**	**Medium**	**Medium**	**Medium**	**Medium**	**Medium**
Total Acres by MARI risk										
Category										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	C67	C68	C69	C70	C72	NB-1&2	NB-3-5	NB-6&7	BNW	B73W
Acres:	17	24	7	25	7	38	56	28	3	14
FIELD FEATURES "INPUT"										
I. SOIL									**Drained?**	**Drained?**
If drained, enter Y						Y	Y	Y	Y	Y
Insert Soil Series	**marlette**	**marlette**	**marlette**	**marlette**	**kibbie**	**kibbie**	**blount**	**glynwood**	**colwood**	**colwood**
1. Soil Hydrologic Group	**B**	**B**	**B**	**B**	**B**	**B**	**C**	**C**	**B**	**B**
2. Soil Management Group (SMG)	**2.5a**	**2.5a**	**2.5a**	**2.5a**	**2.5b-s**	**2.5b-s**	**1.5b**	**1.5b**	**2.5c-s**	**2.5c-s**
3. Percent Slope	**8**	**8**	**6**	**12**	**1**	**2**	**2**	**2**	**2**	**4**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**23**	**22**	**25**	**22**	**42**	**32**	**42**	**41**	**71**	**94**
5. Conc. Water/Surface Inlet	**s**	**s**	**s**	**s**	**s**	**s**	**s**	**s**	**s**	**s**
6. Nitrogen leaching Index	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**
Prompt for cell above	**m**	**m**	**m**	**m**	**m**	**m**	**Map**	**Map**	**m**	**m**
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	**70**	**70**	**70**	**70**	**70**	**70**	**70**	**70**	**70**	**70**
8. Surface Water Setback	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**
9. Vegetative Buffer Width	**3**	**na**	**na**	**na**	**10**	**5**	**5**	**5**	**5**	**5**
IV. MANURE										
10. Manure Phosphorus Application	**72**	**72**	**72**	**72**	**72**	**72**	**72**	**72**	**72**	**72**
11. Manure Nitrogen Application	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**	**40**
12. Manure Application Method	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**
Manure Application Description										

Michigan MARI										
Version 4 Nov 2008										
Business Name:										
Farm name:										
Tract Numbers:										
Section:										
Field No:	C67	C68	C69	C70	C72	NB-1&2	NB-3-5	NB-6&7	BNW	B73W
Acres:	17	24	7	25	7	38	56	28	3	14
FIELD FEATURES "OUTPUT"										
I. SOIL	**2.5a**	**2.5a**	**2.5a**	**2.5a**	**2.5b-s**	**2.5b-s**	**1.5b**	**1.5b**	**2.5c-s**	**2.5c-s**
1. Soil Hydrologic Group	**2**	**2**	**2**	**2**	**2**	**2**	**4**	**4**	**2**	**2**
2. Soil Management Group	**2**	**2**	**2**	**2**	**2**	**2**	**4**	**4**	**2**	**2**
3. Percent Slope	**8**	**8**	**4**	**8**	**1**	**2**	**2**	**2**	**2**	**4**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**1.5**	**1.5**	**1.5**	**1.5**	**3**	**1.5**	**3**	**3**	**3**	**6**
5. Conc. water flow or inlet discharge	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**
6. Nitrogen Leaching Index for SMG	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
8. Surface Water Setback	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**
9. Vegetative Buffer Width	**12**	**1.5**	**1.5**	**1.5**	**12**	**12**	**12**	**12**	**12**	**12**
IV. MANURE										
10. Manure "P" Application	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**
11. Manure "N" Application	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
12. Manure Application Method	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**
Field Features Index Totals	**59.5**	**49**	**45**	**49**	**54**	**53.5**	**59**	**59**	**55**	**60**
	High	**High**	**Medium**	**High**	**Medium**	**Medium**	**Medium**	**Medium**	**Medium**	**Medium**
Total Acres by MARI risk										
Category										

Michigan MARI						
Version 4 Nov 2008						
Business Name:						
Farm name:						
Tract Numbers:						
Section:						
Field No:	B73E	4TH	THOMP	KAM	HOME 4	R-4TH
Acres:	18	5	25	28	4	22
FIELD FEATURES "INPUT"						
I. SOIL						
If drained, enter Y	Y					
Insert Soil Series	**blount**	**riddles**	**chelsea**	**metamora**	**capac**	**riddles**
1. Soil Hydrologic Group	**C**	**B**	**A**	**B**	**C**	**B**
2. Soil Management Group (SMG)	**1.5b**	**2.5a**	**5a**	**3/2b**	**2.5b-s**	**2.5a**
3. Percent Slope	**4**	**3**	**4**	**3**	**3**	**4**
II. WATER QUALITY						
4. Soil Test Phosphorus Value	**39**	**50**	**282**	**33**	**226**	**48**
5. Conc. Water/Surface Inlet	**s**	**s**	**s**	**s**	**s**	**s**
6. Nitrogen leaching Index	**m**	**m**	**h**	**m**	**m**	**m**
Prompt for cell above	**Map**	**m**	**Map**	**m**	**Map**	**m**
III. SURFACE COVER						
7. Residue/Cover Crops/Per. Cover	**70**	**70**	**20**	**20**	**20**	**70**
8. Surface Water Setback	**8**	**8**	**4**	**4**	**4**	**8**
9. Vegetative Buffer Width	**5**	**3**	**5**	**15**	**na**	**na**
IV. MANURE						
10. Manure Phosphorus Application	**72**	**72**	**66**	**66**	**66**	**72**
11. Manure Nitrogen Application	**40**	**40**	**80**	**80**	**80**	**40**
12. Manure Application Method	**8**	**8**	**1**	**1**	**1**	**8**
Manure Application Description						

Michigan MARI						
Version 4 Nov 2008						
Business Name:						
Farm name:						
Tract Numbers:						
Section:						
Field No:	B73E	4TH	THOMP	KAM	HOME 4	R-4TH
Acres:	18	5	25	28	4	22
FIELD FEATURES "OUTPUT"						
I. SOIL	**1.5b**	**2.5a**	**5a**	**3/2b**	**2.5b-s**	**2.5a**
1. Soil Hydrologic Group	**4**	**2**	**1**	**2**	**4**	**2**
2. Soil Management Group	**4**	**2**	**1**	**2**	**2**	**2**
3. Percent Slope	**4**	**2**	**4**	**2**	**2**	**4**
II. WATER QUALITY						
4. Soil Test Phosphorus Value	**1.5**	**3**	**12**	**1.5**	**12**	**3**
5. Conc. water flow or inlet discharge	**6**	**6**	**6**	**6**	**6**	**6**
6. Nitrogen Leaching Index for SMG	**6**	**6**	**12**	**6**	**6**	**6**
III. SURFACE COVER						
7. Residue/Cover Crop/Per. Cover	**1**	**1**	**4**	**4**	**4**	**1**
8. Surface Water Setback	**8**	**8**	**4**	**4**	**4**	**8**
9. Vegetative Buffer Width	**12**	**12**	**12**	**12**	**1.5**	**1.5**
IV. MANURE						
10. Manure "P" Application	**4**	**4**	**4**	**4**	**4**	**4**
11. Manure "N" Application	**1**	**1**	**2**	**2**	**2**	**1**
12. Manure Application Method	**8**	**8**	**1**	**1**	**1**	**8**
Field Features Index Totals	**59.5**	**55**	**63**	**46.5**	**48.5**	**46.5**
	Medium	**Medium**	**High**	**Medium**	**High**	**Medium**
Total Acres by MARI risk						
Category						

Acreage summary

Manure Application Risk Index Summary						
Total field acres:	**326.5**					
Acres by risk category (below):						
Very low Field number:			0			
Acres:						
Low Field number:						
Acres:						
Medium Field number:	Peterman	Lev	BK-C	BK-B	BK-A	
Acres:	14	45	43	15	14	
High Field number:						BK-D
Acres:						11
Total acres by risk category:	**0**	**10**	**277.5**	**39**	**326.5**	
	V. low	**Low**	**Medium**	**High**	**Total**	
Total V. low & Low risk acres	**10**					

Michigan MARI	**Manure Application Risk Index**									
Version 4 Nov 2008	Fill in shaded areas only!			ctrl "c" to clear sheet						
Business Name:	**Walnutdale Dairy II**				**Date**	**10/5/2011**				
Farm name:										
Tract Numbers:										
Section:										
Field No:	Peterman	Lev	BK-C	BK-B	BK-A	BK-D	Div-F	Div-B	DeWitt	AA
Acres:	14	45	43	15	14	11	14	10	51	3.5
FIELD FEATURES "INPUT"										
I. SOIL		**Drained?**			**Drained?**					
If drained, enter Y										
Insert Soil Series	**blout**	**colwood**	**blount**	**blount**	**sebewa**	**thetford**	**blount**	**glynwood**	**marlette**	**blount**
1. Soil Hydrologic Group	**C**	**D**	**C**	**C**	**D**	**B**	**C**	**C**	**B**	**C**
2. Soil Management Group (SMG)	**1.5b**	**2.5c-s**	**1.5b**	**1.5b**	**3/5c**	**4b**	**1.5b**	**1.5b**	**2.5a**	**1.5b**
3. Percent Slope	**4**	**4**	**2**	**1**	**1**	**1**	**3**	**3**	**4**	**1**
II. WATER QUALITY										
4. Soil Test Phosphorus Value	**11**	**74**	**74**	**28**	**69**	**245**	**28**	**18**	**58**	
5. Conc. Water/Surface Inlet	**f**	**s**	**s**	**s**	**s**	**s**	**f**	**f**	**s**	**f**
6. Nitrogen leaching Index	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**	**m**
Prompt for cell above	**Map**	**Map**	**Map**	**Map**	**Map**	**m**	**Map**	**Map**	**m**	**Map**
III. SURFACE COVER										
7. Residue/Cover Crops/Per. Cover	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**
8. Surface Water Setback	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**	**4**
9. Vegetative Buffer Width	**5**	**5**	**3**	**3**	**3**	**3**	**3**	**na**	**5**	**5**
IV. MANURE										
10. Manure Phosphorus Application	**66**	**66**	**66**	**66**	**66**	**66**	**66**	**66**	**66**	**66**
11. Manure Nitrogen Application	**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**	**80**
12. Manure Application Method	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Manure Application Description	**(1)DI Direct Inject (2)SI Surface apply incorp. In 2 days (4)S<3 Surf. apply incorp. In 90 days (8)S>3 Surf. apply left more than 90 days**									

Michigan MARI	Manure Application Risk Index									
Version 4 Nov 2008	Fill in shaded areas only!			ctrl "c" to clear sheet						
Business Name:	Walnutdale Dairy II				Date	10/5/2011				
Farm name:										
Tract Numbers:										
Section:										
Field No:	Peterman	Lev	BK-C	BK-B	BK-A	BK-D	Div-F	Div-B	DeWitt	AA
Acres:	14	45	43	15	14	11	14	10	51	3.5
FIELD FEATURES "OUTPUT"										
I. SOIL	1.5b	2.5c-s	1.5b	1.5b	3/5c	4b	1.5b	1.5b	2.5a	1.5b
1. Soil Hydrologic Group	4	8	4	4	8	2	4	4	2	4
2. Soil Management Group	4	2	4	4	2	1	4	4	2	4
3. Percent Slope	4	4	2	1	1	1	2	2	4	1
II. WATER QUALITY										
4. Soil Test Phosphorus Value	1.5	3	3	1.5	3	12	1.5	1.5	3	
5. Conc. water flow or inlet discharge	3	6	6	6	6	6	3	3	6	3
6. Nitrogen Leaching Index for SMG	6	6	6	6	6	6	6	6	6	6
III. SURFACE COVER										
7. Residue/Cover Crop/Per. Cover	4	4	4	4	4	4	4	4	4	4
8. Surface Water Setback	4	4	4	4	4	4	4	4	4	4
9. Vegetative Buffer Width	12	12	12	12	12	12	12	1.5	12	12
IV. MANURE										
10. Manure "P" Application	4	4	4	4	4	4	4	4	4	4
11. Manure "N" Application	2	2	2	2	2	2	2	2	2	2
12. Manure Application Method	1	1	1	1	1	1	1	1	1	1
Field Features Index Totals	49.5	56	52	49.5	53	55	47.5	37	50	45
	Medium	Medium	Medium	Medium	Medium	High	Medium	Low	Medium	Medium
Total Acres by MARI risk	0	10	277.5	39	326.5					
Category	V. low	Low	Medium	High	Total		10	Total Low and Very low risk ac		

Michigan MARI	
Version 4 Nov 2008	
Business Name:	
Farm name:	
Tract Numbers:	
Section:	
Field No:	Pas-N
Acres:	8
FIELD FEATURES "INPUT"	
I. SOIL	
If drained, enter Y	
Insert Soil Series	**capac**
1. Soil Hydrologic Group	**C**
2. Soil Management Group (SMG)	**2.5b-s**
3. Percent Slope	**2**
II. WATER QUALITY	
4. Soil Test Phosphorus Value	**52**
5. Conc. Water/Surface Inlet	**f**
6. Nitrogen leaching Index	**m**
Prompt for cell above	**Map**
III. SURFACE COVER	
7. Residue/Cover Crops/Per. Cover	**50**
8. Surface Water Setback	**8**
9. Vegetative Buffer Width	**5**
IV. MANURE	
10. Manure Phosphorus Application	**40**
11. Manure Nitrogen Application	**40**
12. Manure Application Method	**8**
Manure Application Description	

Michigan MARI	
Version 4 Nov 2008	
Business Name:	
Farm name:	
Tract Numbers:	
Section:	
Field No:	Pas-N
Acres:	8
FIELD FEATURES "OUTPUT"	
I. SOIL	**2.5b-s**
1. Soil Hydrologic Group	**4**
2. Soil Management Group	**2**
3. Percent Slope	**2**
II. WATER QUALITY	
4. Soil Test Phosphorus Value	**3**
5. Conc. water flow or inlet discharge	**3**
6. Nitrogen Leaching Index for SMG	**6**
III. SURFACE COVER	
7. Residue/Cover Crop/Per. Cover	**1**
8. Surface Water Setback	**8**
9. Vegetative Buffer Width	**12**
IV. MANURE	
10. Manure "P" Application	**2**
11. Manure "N" Application	**1**
12. Manure Application Method	**8**
Field Features Index Totals	**52**
	Medium
Total Acres by MARI risk	
Category	**res**