MICHIGAN MANURE APPLICATION RISK INDEX WORKSHEET	Fill in shaded areas only!							ctrl "c" to c
Farm Number:	Sample Dairy				Date:	4/21/2003		
Township:					Tract No:	with setbacks		
Farm or Producer Name:								
Field No:	F S	F N	HM 1	HM 2	HM 3	HO 1	HO 2	CO N
Acres:	35	37.2	39.1	39.1	20	57	51.8	36.4
FIELD FEATURES "INPUT"								
I. SOIL MAP UNIT								
If drained, enter Y								
Insert Soil Series	Fox	fox	fox	fox	fox	fox	fox	oshtemo
1. Soil Hydrologic Group	B	B	B	B	B	B	B	B
2. Soil Management Group	3/5a	3/5a	3/5a	3/5a	3/5a	3/5a	3/5a	4a
3. Percent Slope	1	1	1	1	1.9	1	1	1
II. WATER QUALITY								
4. Soil Test Phosphorus Value	160	104	142	138	104	322	468	138
5. Conc. Water/Surface Inlet	p	p	p	p	f	p	s	m
6. Nitrogen leaching Index	m	m	m	m	m	m	m	m
prompt for cell above	m	m	m	m	m	m	m	m
III. SURFACE COVER								
7. Residue/Cover Crops/Per. Cover	40	40	40	40	40	40	40	40
8. Surface Water Setback	1	1	1	1	2	1	2	2
9. Vegetative Buffer Width	na	na	na	na	15	na	25	na
IV. MANURE								
10. Manure Phosphorus Application	90	90	90	90	90	45	45	90
11. Manure Nitrogen Application	130	150	140	150	125	125	125	150
12. Manure Application Method	s>3	s>3	s>3	s>3	s>3	s>3	s>3	s>3
FIELD FEATURES "OUTPUT"								
I. SOIL SMG	3/5a	3/5a	3/5a	3/5a	3/5a	3/5a	3/5a	4a
1. Soil Hydrologic Group	2	2	2	2	2	2	2	2
2. Soil Management Group	2	2	2	2	2	2	2	2
3. Percent Slope	1	1	1	1	1	1	1	1
II. WATER QUALITY								
4. Soil Test Phosphorus Value	6	3	3	3	3	12	12	3
5. Concentrated Water Flow or	1.5	1.5	1.5	1.5	3	1.5	6	12
Surface Inlet Discharge								
6. Nitrogen Leaching Index for	6	6	6	6	6	6	6	6
Soil Hydrologic Group								
III. SURFACE COVER								
7. Residue/Cover Crop/Per. Cover	1	1	1	1	1	1	1	1
8. Surface Water Setback	1	1	1	1	2	1	2	2
9. Vegetative Buffer Width	1.5	1.5	1.5	1.5	12	1.5	6	1.5
IV. MANURE								
10. Manure "P" Application	4	4	4	4	4	2	2	4
11. Manure "N" Application	2	4	4	4	2	2	2	4
12. Manure Application Method	8	8	8	8	8	8	8	8
FIELD FEATURES INDEX TOTALS	36	35	35	35	46	40	50	46.5
	LOW	LOW	LOW	LOW	MEDIUM	HIGH	HIGH	HIGH
TOTAL ACRES BY "MARI" RISK	0	860.2	223.9	493.7	1577.8			
CATEGORY:	V. LOW	LOW	MEDIUM	HIGH	TOTAL		860.2	Total Low

RUSLE2 Erosion Calculation Record

Info: Field SH5

profiles\Sample Dairy SH5 Corn 2002

Inputs:
Location: USA\Michigan\Branch County
Soil: Sand Co., MI\7B HATMAKER LOAM, 1 TO 4 PERCENT SLOPES\Hatmaker loam 95%
Slope length (horiz): 150 ft
Avg. slope steepness: 3.0 %
Contouring: a. rows up-and-down hill
Strips/barriers: (none)
Diversion/terrace, sediment basin: (none)

Base management: corn grain, Sfc; soy, Sdisk, fc; corn grain, Sfc

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
5/10/0	Cultivator, field 6-12 in sweeps		66
5/10/0	planter, double disk opnr	Corn, grain	66
10/20/0	Harvest, killing crop 50pct standing stubble		91
5/5/1	Disk, tandem secondary op.		55
5/15/1	Cultivator, field 6-12 in sweeps		42
5/15/1	Drill or airseeder, double disk	Soybean, mw 7in rows	42
10/10/1	Harvest, killing crop 50pct standing stubble		80
5/10/2	Cultivator, field 6-12 in sweeps		36
5/10/2	planter, double disk opnr	Corn, grain	36
10/20/2	Harvest, killing crop 50pct standing stubble		89

Outputs:
T value: 5.0 t/ac/yr
Soil loss for cons. plan: 1.9 t/ac/yr

Wind Erosion Worksheet -

Client:	Field #	Date:	County:
SAMPLE DAIRY	SH-123E	3/2003	SAND

Step #1 — Determine the Soil "I" Value - Refer to Section II of the FOTG

Soil Type #1	"I" Value #1	Soil Type #2	"I" Value #2
BRANCH LS (25B)	134	LOCKE FSL (15B)	86

Step #2 — Determine the Soil Roughness (Ridge) Value (Krd) - Refer to Tables 5*

	Tillage Type used for Krd	Krd Value
Present	NO-TILL	1.0
Planned		

Step #3 — Determine the Climatic Factor (See Table 2)

Climatic Factor = 7

Step #4 — Determine the "L" - Length of the Unsheltered Distance

	Measured "L"	Or Calculated "L" (Table 4)			
		Angle of Deviation	Adj. Factor	Field Width	"L"
Present	1320'	22.5	1.1	660'	1452
Planned					

(1320 x 1.

Step #5 — Determine the "V" Vegetative Factor (SGE) for each crop in the rotation

#	Present Crop(s)	Type of Residue	% Residue Cover	Lbs. Of Residue Table 1	SGe Figures a-1 through b-6 Table 1
1	SOY	CORN STUBBLE	45	1600	800
2	CORN	SOY. STUBBLE	45	1025	600
3					
4					

#	Planned Crop(s)	Type of Residue	% Residue Cover	Lbs. Of Residue Table 1	SGe Figures a1 through b6 Table 1
1					
2					
3					
4					

Step #6 — Determine "E" Estimated Annual Soil Loss by Wind
Refer to the appropriate Tables "E" Tables

#	Present Crop(s)	Present (E) Soil Loss	Planned Crop(s)	Planned (E) Soil Loss
1	SOY.	2.0		
2	CORN	3.9	AVG = 2.95	
3				
4				

Comments: SOIL LOSS IS WELL BELOW T OF 4